Undergraduate Catalog 2018-2019

Undergraduate Catalog

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UNDERGRADUATE CATALOG

Accreditations
Administrative Officers
Institutional Mission Statement

If you have a question but do not know to whom an inquiry should be directed, you may call the University Information number, and the inquiry will be routed to the appropriate person or department.

University Information: (936) 294-1111
Toll Free: 1-866-BEARKAT (1-866-232-7528)

The purpose of the catalog is to provide general information about the academic programs of Sam Houston State University to prospective students, current students, faculty, and staff of the University. Included is information concerning the academic calendar, admission and registration procedures, tuition and fees, degree requirements, services available to students, and the faculty and administrative officers of the University.

Subject to Change Notice

The policies, regulations, procedures, and fees in this catalog are subject to change without notice, if necessary, to keep University policies in compliance with State and Federal laws and/or with rules and regulations of the Board of Regents of The Texas State University System.

The University reserves the right to change curricula, rules, fees, and other requirements, of whatever kind, affecting students. The provisions of this catalog do not constitute a contract, express or implied, between any applicant, student, or faculty member and Sam Houston State University or its Board of Regents.

Course Prefixes and Abbreviations provides a list of course abbreviations (e.g., AGR represents Agriculture) used throughout this catalog and in many SHSU operations and publications (e.g., transcripts, registration, etc.).

Map to Successful Enrollment through Graduation

Texas Common Course Numbers are of great value for transfer students and SHSU students who take an occasional class at a Texas community college.

Report a Problem (catalogs@shsu.edu) - If you notice a problem with the catalog, such as a broken link or a typographical error, please report the problem via email to the catalog editor in the Office of Academic Planning and Assessment. Be specific and include the exact address of the page if possible.

ACCREDITATIONS

Sam Houston State University is accredited by the Southern Association of Colleges and Schools Commission on Colleges to award bachelors, masters and doctoral degrees. Contact the Commission on Colleges at 1866 Southern Lane, Decatur, Georgia 30033-4097 or call (404) 679-4500 for questions about the accreditation of Sam Houston State University or visit their website www.sacscoc.org (http://www.sacscoc.org).

College of Business Administration

The College of Business Administration's undergraduate and graduate degree programs are accredited by AACSB International, The Association to Advance Collegiate Schools of Business.

College of Criminal Justice

The Master of Science in Forensic Science is accredited by the Forensic Science Education Programs Accreditation Commission (FEPAC).

College of Fine Arts and Mass Communication

The Department of Art's degree programs are accredited by the National Association of Schools of Art and Design (NASAD).

The School of Music's undergraduate and graduate degree programs are accredited by the National Association of Schools of Music (NASM).

The School of Music's Music Therapy programs are approved by the American Music Therapy Association.

College of Health Sciences

The Didactic Program in Dietetics (DPD) at the undergraduate level and the Dietetic Internship (DI) Program at the graduate level in the Department of Family and Consumer Sciences are currently granted accreditation by the Accreditation Council for Education in Nutrition and Dietetics (ACEND) of the Academy of Nutrition and Dietetics (AND), 120 South Riverside Plaza, Suite 2000, Chicago, IL 60606-6995. (312) 899-0040, ext. 5400. Website: www.eatright.org (http://www.eatright.org).

The Interior Design Program in the Department of Family and Consumer Sciences is granted accreditation by the Council for Interior Design Accreditation (CIDA) and by the National Association of Schools of Art and Design (NASAD).

The BS in Kinesiology-all-levels Teacher Certification Program-The Physical Education Teacher Education Program was awarded "National Recognition" status by the National Association of Sport and Physical Education (NASPE) through the Council for the Accreditation of Educator Preparation (CAEP), formerly the National Council for the Accreditation of Teacher Education (NCATE).

College of Humanities and Social Sciences

The Doctoral Program degree in Clinical Psychology is accredited by the American Psychological Association (APA).

The Specialists degree in School Psychology is approved by the National Association of School Psychologists to ensure high quality school psychology training and services. Any individual interested in reviewing the official document listing the accreditation, approval or licensing of Sam Houston State University, will have access to such material in the Reference Department of the Newton Gresham Library.

College of Education

The College of Education's Educator Preparation Program is accredited by the Council for the Accreditation of Educator Preparation (CAEP). As one of only thirteen universities in Texas with CAEP accreditation, the educator preparation program stands out among the top programs in the nation. The college's educator preparation certification programs are also accredited by the Texas Education Agency.

Many of the college's undergraduate programs are recognized by Specialized Professional Accreditors (SPA), which indicates that the program has taken the extra steps necessary to meet rigorous standards set for the program's specific educational field. The following teacher preparation programs have been nationally recognized by their respective SPA: Elementary Education EC-6 (Association for Childhood Education International); Middle School Education 4-8 (Association for Middle Level Education); Biology 8-12 (National Science Teachers Association); Kinesiology EC-12 (National Association of Sport and Physical Education); Mathematics 8-12 (National Council of Teachers of Mathematics); and Special Education (Council for Exceptional Children).

Many of the college's graduate programs are also recognized by their respective Specialized Professional Accreditors. The following professional educator preparation programs have been nationally recognized by their respective SPA: Library Science (American Association for School Librarians); Educational Diagnostician (Council for Exceptional Children); Principal (Educational Leadership Constituents Council); Superintendent (Educational Leadership Constituents Council); Reading Educator (International Literacy Association); and Instructional Technology (International

Society for Technology in Education). Additionally, the Clinical Mental Health Counseling, M.A.; School Counseling, M.Ed.; and Counselor Education, Ph.D have been accredited by the Council of Accreditation of Counseling and Related Educational Programs

College of Sciences

The American Chemical Society recognizes the Department of Chemistry as having adequate faculty, facilities, library, curriculum, and research for training professional chemists.

Sam Houston State University's Bachelor of Science degree in Computing Science has been accredited by the Computing Accreditation Commission of ABET, the recognized accreditor of college and university programs in applied science, computing, engineering, and engineering technology. ABET accreditation demonstrates a program's commitment to providing its students with a quality education.

ADMINISTRATIVE OFFICERS

Central Administrative Officers

Name	Title
Dana G. Hoyt, Ph.D.	President
Richard R. Eglsaer, Ph.D.	Provost and Vice President for Academic Affairs
Carlos Hernandez, Ed.D.	Vice President for Finance and Operations
Frank E. Parker, M.A.	Vice President for Student Services
Frank R. Holmes, B.A.	Vice President for University Advancement
Heather V. Thielemann, Ed.D.	Vice President for Enrollment Management
Mark C. Adams, M.S.	Vice President for Information Technology

Academic Administrative Officers

Name	Title
Richard F. Eglsaer, Ph.D.	Provost and Vice President for Academic Affairs
Mary E. Robbins, Ed.D.	Vice Provost for Academic Affairs
Mitchell J. Muehsam, Ph.D.	Dean, College of Business Administration
Phillip M. Lyons, Ph.D.	Dean, College of Criminal Justice
Stacey L. Edmonson, Ed.D.	Dean, College of Education
Ronanld Shields, Ph.D.	Dean, College of Fine Arts and Mass Communication
Ken E. Hendrickson, Ph.D.	Interim Dean, College of Health Sciences
Abbey L Zink, Ph.D.	Dean, College of Humanities and Social Sciences
John B. Pascarella, Ph.D.	Dean, College of Sciences

The Texas State University System

Name	Location
Rossanna Salazar (Chairman)	Austin
William F. Scott (Vice Chairman)	Nederland
Charlie Amato	San Antonio
Veronica Muzquiz Edwards	San Antonio
Dr. Jaime R. Garza	San Antonio
David Montagne	Beaumont
Vernon Reaser III	Bellaire
Alan L. Tinsley	Madisonville
Kaitlyn Lyra (Student Regent)	Hunstville
Brian McCall, Chancellor	Austin

INSTITUTIONAL MISSION STATEMENT

University Mission

Sam Houston State University provides high quality education, scholarship and service to qualified students for the benefit of regional, state, national, and international constituencies.

University Vision

Best at Educating the Texas Workforce:

- Excellence in academics
- Effective in student success
- Efficient in operations
- Loyal to traditions
- Dedicated to innovation

University Goals

- Foster a lifelong learning environment in support of a diverse faculty and staff who are excellent scholars, educators, and professionals.
- Promote a stimulating learning environment through the integration of academic settings, campus culture, and service.
- Increase and develop university resources and infrastructures that support the intellectual transformation of students.
- Enhance marketing outreach and visibility to include academic and scholarly activities through consistent and integrated messaging while optimizing communication channels.
- Promote efficient data driven decision making through the integration of centralized data analysis, review, and dissemination.
- Cultivate a continually sensitive and proactive response to the ever-changing needs of our constituents.

History

Sam Houston State University, located in Huntsville, Texas, is a member of The Texas State University System. The school was created by the Texas Legislature in 1879 as Sam Houston Normal Institute to educate teachers for the public schools of Texas. The baccalaureate degree was first awarded in 1919.

In 1923, the institution's name was changed to Sam Houston State Teachers College. Two years later, the college was admitted to membership in the Southern Association of Colleges and Schools (SACS) as an accredited institution of higher learning. A graduate degree was authorized in 1936, and the curriculum was expanded to emphasize preparation in a variety of fields.

Following World War II, an increase in students and faculty as well as a wide range of faculty-research activities provided impetus for the continued emergence of a multi-purpose institution. In recognition of these developments, the institution's name was changed by the Texas Legislature to Sam Houston State College in 1965. The number of graduate degrees conferred increased significantly in the late 1960s; and the Texas Legislature, recognizing the changes that had taken place, changed the name of the institution to Sam Houston State University in 1969.

In the 1970s, the University was granted permission to offer its first doctorate, a PhD in criminal justice. This program grew to be one of the largest and most recognized doctoral programs in the country. In the 1980s and 1990s, the University completed a number of academic, athletic, and support facilities. With the improvement of faculty and facilities, the University set a vision to become one of the best regional universities in the country.

During the last five years of the twentieth century, the University expanded its reach by offering programs online, at The Woodlands in a multi-institutional teaching center, and various other off-campus sites. Beginning in 2000, the University expanded its building program and committed resources to develop and maintain nationally-recognized academic support programs. Sam Houston State University increased the number of doctoral programs, including programs in education and psychology, and experienced a tremendous surge in enrollment and name recognition.

Currently Sam Houston State University is organized academically into seven colleges: Business Administration, Criminal Justice, Education, Fine Arts and Mass Communication, Health Sciences, Humanities and Social Sciences, and Sciences. Students are offered an extensive range of bachelor's and master's degrees, as well as doctorates in selected areas. The faculty and the University are recognized regionally, nationally, and internationally.

ACADEMIC POLICIES AND PROCEDURES

- Application Fee
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- Academic Fresh Start
- Admission Tests

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- Application for Tuition Rebate
- Graduation with Special Recognition
- Academic Distinction Program
- Graduate Studies

Admission

- Application Fee
- Application Deadline
- Personal Standards
- Academic Fresh Start
- Admission Tests

Any person who desires to apply for undergraduate admission to the University may do so by accessing the Office of Admissions website at www.shsu.edu/admission (http://www.shsu.edu/admission) or by going directly to the Apply Texas website at www.applytexas.org (http://www.applytexas.org). Please direct questions regarding the application process to the Office of Admissions by phone (936) 294-1828 or e-mail admissions@shsu.edu.

Sam Houston State University accepts applications for undergraduate admission from students of accredited secondary schools and students transferring from accredited colleges without regard to race, color, national origin, religion, gender, disability, or age.

Application Fee

A nonrefundable application fee should be paid by credit card, money order, check, or cash. Checks or money orders must be payable to Sam Houston State University. PLEASE DO NOT MAIL CASH (only deliver in person).

Before a student will be admitted to Sam Houston State University, all items listed below must be on file in the Admissions Office:

- Application for undergraduate admission.
- Official high school transcript with GPA, if applicable (required for transfer students with fewer than 12 transferable credit hours[1]).
- Satisfactory scores on the ACT Assessment or SAT I Test.
- **Official transcripts are needed from all institutions previously attended.**

[1] Transfer students may be required to provide a high school transcript if TSI exemption status is based upon TAKS results.

Application Deadlines

Application deadlines for undergraduate admission to Sam Houston State University are as follows:

- Fall Semester – August 1;
- Spring Semester – December 1;
- Summer Session I – May 15;
- Summer Session II – June 15.

Personal Standards

Sam Houston State University requires the same personal standards and applies the same criteria in considering applications for admission as it uses in the retention of students who are enrolled. To be consistent with this policy, the University reserves the right to refuse acceptance to prospective or former students who have criminal records, including conviction of a felony, offenses involving moral turpitude or other serious offenses. The personal standards of conduct expected of students who enroll at Sam Houston State University are provided in the *Student Guidelines.* (http://www.shsu.edu/dept/dean-of-students/documents/2016-2018%20Student%20Guidelines.pdf)

Academic Fresh Start

Undergraduate applicants may elect the University's Academic Fresh Start Program to have all academic coursework completed at Sam Houston State University or elsewhere ten or more years prior to the semester of enrollment removed from consideration by the University for any academic purpose including, but not limited to, cumulative grade point average, academic classification, academic standing, course prerequisites, degree requirements, eligibility for graduation, and honors standing.

Undergraduate applicants electing to invoke this policy may **not** choose which credit hours are to be counted or to be ignored. **All** academic course credits or grades earned by the applicant 10 or more years prior to the starting date of the semester in which the applicant seeks to enroll will be ignored if the applicant makes use of this policy. Approval from Admissions, Financial Aid and Registrars Office will be required. For more information, contact the Office of Admissions, (936) 294-1828.

Admissions Tests

The University accepts students for admission with satisfactory scores on the ACT Assessment or Scholastic Assessment Test (SAT). These tests are administered periodically at more than 1,000 testing centers throughout the United States and internationally. Information and applications for either test may be secured from the high school counselor or principal. (http://www.ets.org.)

Admission Standards for Undergraduate Students

- State of Texas Uniform Admission Policy
- Beginning Freshmen
- Graduates of a Non-accredited High School Including Home School and Students Who Earned the GED
- Transfer Students
- Former (Returning) SHSU Students
- Transient Student
- Early Undergraduate Admissions Program
- Full-time Early Undergraduate Admissions Program
- Admission of Undergraduate International Students

Sam Houston State University accepts applications for undergraduate admission from students of accredited secondary schools and students transferring from accredited colleges without regard to race, color, national origin, religion, sex, disability, or age.

State of Texas Uniform Admission Policy Statement

Sam Houston State University abides by Texas state law, TEC 51.803-51.809 (http://www.statutes.legis.state.tx.us/Docs/ED/htm/ED.51.htm), Uniform Admissions Standards (UAS).

Beginning Freshmen

A beginning freshman student must submit all of the following documentation:

- Completed Apply Texas Application with nonrefundable application fee.
- Official ACT Composite or SAT score report.
- Official high school transcript showing GPA and degree plan. Upon graduation from high school, applicant must provide a final official high school transcript with final GPA, date of graduation, and graduation plan.

Eligible prospective freshmen should graduate high school with one of the following diploma types: Recommended (UAS), Distinguished (UAS), Foundations with Endorsement(s) (HB5)*, or Distinguished Achievement (HB5) plans. The Endorsement earned must be noted on the transcript provided. Additionally, SHSU will provide:

1. Automatic acceptance for top 10% regardless of high school GPA or ACT or SAT score. Students automatically accepted into SHSU still need to submit test scores to be considered for certain scholarships.
2. Automatic acceptance for students who meet the minimum Composite SAT/ACT requirements by appropriate high school GPA ranges as indicated on the chart below (the requirements are based on a 4.0 scale):

- GPA of 3.50+ and score at least a 17 on the ACT or 930 on the SAT (evidence based reading/writing + math)*
- GPA of 3.0 - 3.49 and score at least a 19 on the ACT or 1010 on the SAT (evidence based reading/writing + math)*
- GPA of 2.50 - 2.99 and score at least a 22 on the ACT or 1110 on the SAT (evidence based reading/writing + math)*
- GPA of 2.25 - 2.49 and score at least a 25 on the ACT or 1210 on the SAT (evidence based reading/writing + math)*
- GPA of 2.24 or below will be considered by review only

*SAT test scores taken March 2016 and beyond.

A beginning freshman student who has attempted college/university coursework while enrolled in high school or prior to entering Sam Houston State University (Dual Credit/Dual Enrollment) must provide official college transcript(s) indicating the completion of all transferable academic hours (excluding developmental, remedial, vocational/technical, continuing education, or lifelong learning courses). While the overall cumulative transfer grade point average (for Dual Credit courses) will not be used for admittance, the GPA will factor into the overall GPA. It should be noted that transferable courses may not be relevant to every degree plan. Regular advising at the community college/university and review of SHSU four-year degree plans in this catalog is highly recommended.

Upon admission, Freshman Orientation is required. Visit Orientation (http://www.shsu.edu/orientation) for details.

Graduates of a Non-Accredited High School, Home Schooled Students, and Students Who Earned the GED

Graduates of a non-accredited high school, home-schooled students, and students who earned the GED must submit the following documentation:

- Completed Apply Texas Application with nonrefundable application fee.
- Official ACT Composite or SAT score report.

- Official high school transcript showing GPA or official GED certificate with GED scores. If the student is home schooled, a notarized copy of the transcript must be provided. Upon graduation, applicants must provide a final official transcript showing final GPA and date of graduation.

Sam Houston State University will admit a student who has obtained a GED based on the following criteria:

- Score of at least 21 on the ACT Composite or 1090 on the SAT (evidence based reading/writing + math).
- Present an official copy of the GED certificate with GED scores in lieu of a transcript.

Upon admission, Freshmen Orientation is required. See Orientation (http://www.shsu.edu/orientation) for details.

Transfer Students

A transfer student is defined as an undergraduate student who has completed a minimum of 12 hours of transferable academic coursework from a college and/or university accredited by an agency recognized by the Texas Higher Education Coordinating Board after high school graduation. Transferable academic coursework is defined as those attempted hours of coursework which are applicable to a baccalaureate degree program.

Transfer Students from U.S. Colleges or Universities

Undergraduate students who transfer to Sam Houston State University from a college or university of recognized standing must provide all of the following documentation:

- Completed Apply Texas Application with nonrefundable application fee.
- Official transcript(s) from all colleges and universities attended.

Transfer Student Requirements:

12-17 hours must have a cumulative grade point average of 2.5 or higher on transferable hours.
18+ hours must have a cumulative grade point average of 2.0 or higher on transferable hours.

Undergraduate students who transfer from a college or university accredited by an agency recognized by the Texas Higher Education Coordinating Board **with less than 12 transferable hours** must meet the standards of beginning freshmen students (see Beginning Freshmen within this chapter) as well as have a cumulative grade point average of a 2.5 or higher on transferable hours.

Students who are currently suspended from another college or university are not eligible for admission to Sam Houston State University.

Transfer of Credit

Sam Houston State University accepts a maximum of 66 semester credit hours plus four hours of activity-based physical education (kinesiology) for a total of 70 semester credit hours from the accredited community colleges attended. Please visit Texas Common Course Numbers for information about Texas Common Course Numbers and equivalent SHSU courses.

All academic courses attempted at a college or university accredited by an agency recognized by the Texas Higher Education Coordinating Board will be reviewed for transferability. Sam Houston State University reserves the right to refuse courses taken at U.S. schools other than regionally accredited colleges or universities. It should be noted that transferable courses may not be relevant to every degree plan. Regular advising at the community college and review of SHSU four-year degree plans in this catalog is highly recommended.

Former (Returning) SHSU Students

All former SHSU students who did not attend the University within the last year must submit all of the following:

- Apply Texas Application for undergraduate admission with the reapplication fee.
- Official transcript(s) from all institutions attended since last attending SHSU.

All students applying for readmission into the university must present a minimum, combined grade point average of 2.0 or higher on all transferable hours.

Transient Students

Students enrolled at another institution of higher education (home institution) wishing to attend Sam Houston State University for one semester with the intention of transferring credits to their home institution, must meet the following requirements:

- Be regularly enrolled in a degree-seeking program at their home institution and eligible to re-enroll.
- Have a health form on file at their home institution indicating he/she has the required meningitis immunization.
- Provide official transcript from home institution.
- Complete the Transient Application on Apply Texas (https://www.shsu.edu/admissions/apply-texas.html).
- Pay the $45 non-refundable application fee.

- Complete the SHSU Transient Student Form.

Students admitted under this option are considered non-degree seeking and are not eligible for financial aid. Credit and grade points earned as a transient student will not be used toward admission to Sam Houston State University at a future date.

Early Undergraduate Admissions Program

High school students who have completed the sophomore year may be accepted to attend classes at Sam Houston State University. To be accepted to attend classes, the students must provide official documentation for the criteria listed below, complete the Apply Texas application, and pay the nonrefundable application fee. To qualify for the Early Undergraduate Admissions Program, a high school student must meet the following criteria:

- Be in the top 25% of the graduating class
- Have the intent to return to high school and complete the senior year
- Have the recommendation of the high school principal or counselor
- Have written permission of the parent or guardian
- Provide verification of TSI status
- Submit the completed Early Admission form

Upon graduation from high school, the student must submit a new undergraduate application to change the classification from "Early Admissions" to "Undergraduate Student" and meet the appropriate admission standards in order to continue taking classes at Sam Houston State University. Students admitted under this option are considered non-degree seeking and are not eligible for financial aid.

Full-Time Early Undergraduate Admissions Program Requirements

Sam Houston State University recognizes that in some instances a truly gifted student may receive considerable educational benefit from a full-time early undergraduate admissions program to a college or university.

To be admitted to SHSU, the student must provide official documentation for the criteria listed below, complete the Apply Texas Application, and pay the nonrefundable application fee. High school students desiring to enter a full-time early undergraduate admissions program must fulfill the following requirements:

- Complete the junior year of high school
- Be in the top 10% of the graduating class
- Score 27 or higher on the ACT Composite or 1270 or higher on the SAT (evidenced based reading/writing + math)*
- Provide letters of recommendation from the high school principal and two other high school teachers
- Provide a signed letter from the student's parents or guardian stating that they understand the program and approve of the student's participation
- Have a personal interview with the Academic Standards and Admissions Committee

Upon graduation from high school, the student must submit a new undergraduate application to change the classification from "Early Admissions" to "Undergraduate Student" and meet the appropriate admission standards in order to continue taking classes at Sam Houston State University. Students admitted under this option are considered non-degree seeking and are not eligible for financial aid.

*SAT test scores taken March 2016 and beyond

Admission of Undergraduate International Students

All undergraduate international students must submit the Apply Texas Application (International) and pay the nonrefundable application fee in U.S. currency. All undergraduate international students must declare a major (other than General Studies) on the application for admission.

Sam Houston State University has five categories of undergraduate international students:

- beginning international freshmen who have graduated from a high school outside the United States or a country whose primary mode of instruction is English,
- beginning international freshmen who have graduated from a high school in the U.S.,
- transfer international students who have attended a college or university from outside the U.S.,
- transfer international students who have attended a college or university in the U.S. and have obtained less than 30 transferable hours, and
- transfer international students who have attended a college or university in the U.S. and have obtained at least 30 transferable hours.

International students who are beginning freshmen graduating from a high school outside the U.S. or a country whose primary mode of instruction is English must provide the following:

Admission Requirements/Documentation

- Completed Apply Texas Application with nonrefundable application fee (must declare a major other than General Studies).
- Official TOEFL score of 550 paper-based, 79 (iBT internet-based test) or IELTS score of 6.5, if English is not their first language.

- Copy of high school transcript.
- Official evaluation of high school transcript from a NACES accredited evaluation company.
- Certified English translations for documents submitted in a language other than English.
- Students must meet the admissions requirements of a non-ranking high school if they graduated from a non-U.S. school in a country whose primary mode of instruction is English.
- Must have a minimum GPA of 2.5.

Enrollment Requirements

- Current proof of financial support. The student's or sponsor's bank statement(s) on bank letterhead indicating an amount of deposit equal to the estimated expense for one year at the University. Visit www.shsu.edu/international (http://www.shsu.edu/dept/international-programs) for further details.
- Home country address. Regardless of current residency, students must provide a home country address for the processing of the I-20 A/B. Visit www.shsu.edu/international (http://www.shsu.edu/dept/international-programs) for further details.
- Copies of immigration documents (i.e., passport photo page, visa, and I-94).
- To ensure that all undergraduate admission and immigration papers are in order, international students are required to visit the Office of International Programs immediately upon arrival on campus. Telephone (936) 294-4737 or e-mail oip@shsu.edu.
- All international students are required to purchase the University's Group Hospitalization, Medical Evacuation, and Repatriation Insurance available to all eligible SHSU students. Further information concerning this required coverage may be obtained from the University Health Center. Telephone (936) 294-1805.

All International Students are required to complete International Student Orientation, in lieu of New Student Orientation. Contact the Office of International Programs at (936) 294-4607 for information concerning this specialized orientation session.

International students who are beginning freshmen graduating from a high school in the U.S. must provide the following:

Admission Requirements/Documentation

- Completed Apply Texas Application with nonrefundable application fee (must declare a major other than General Studies).
- A final high school transcript showing the date of graduation and GPA and satisfactory ACT Composite or SAT scores.

Students graduating on the recommended or distinguished graduation plan, or the equivalent, from a high school that provides such classes are as follows:

- GPA of 3.50+ and score at least a 17 on the ACT or 850 SAT I (critical reading + math) or 930 SAT I (evidence based reading/writing + math)*
- GPA of 3.0 - 3.49 and score at least a 19 on the ACT or 930 SAT I (critical reading + math) or 1010 SAT I (evidence based reading/writing + math)*
- GPA of 2.50 - 2.99 and score at least a 22 on the ACT or 1030 SAT I (critical reading + math) or 1110 SAT I (evidence based reading/writing + math)*
- GPA of 2.25 - 2.49 and score at least a 25 on the ACT or 1140 SAT I (critical reading + math) or 1210 SAT I (evidence based reading/writing + math)*
- GPA of 2.24 or below will be considered by review only

*SAT I test scores taken March 2016 and beyond.

A beginning freshman student who has attempted college/university coursework while enrolled in high school or prior to entering Sam Houston State University (Dual Credit/Dual Enrollment) must provide official college transcript(s) indicating the completion of all transferable academic hours (excluding developmental, remedial, vocational/technical, continuing education, or lifelong learning courses). While the overall cumulative transfer grade point average (for Dual Credit courses) will not be used for admittance, the GPA will factor into the overall GPA. It should be noted that transferable courses may not be relevant to every degree plan. Regular advising at the community college/university and review of SHSU four-year degree plans in this catalog is highly recommended.

Effective **fall 2014**, the admission standards for students graduating on the HB 5 Foundations Plan will be reviewed based on the Advanced Course completion and/or the Endorsement(s) completed, if the student meets the following requirements:

- GPA of 3.50+ and score at least a 17 on the ACT or 850 SAT I (critical reading + math) or 930 SAT I (evidence based reading/writing + math)*
- GPA of 3.0 - 3.49 and score at least a 19 on the ACT or 930 SAT I (critical reading + math) or 1010 SAT I (evidence based reading/writing + math)*
- GPA of 2.50 - 2.99 and score at least a 22 on the ACT or 1030 SAT I (critical reading + math) or 1110 SAT I (evidence based reading/writing + math)*
- GPA of 2.25 - 2.49 and score at least a 25 on the ACT or 1140 SAT I (critical reading + math) or 1210 SAT I (evidence based reading/writing + math)*
- GPA of 2.24 or below will be considered by review only

*SAT I test scores taken March 2016 and beyond.

Enrollment Requirements

- Current proof of financial support. The student's or sponsor's bank statement(s) on bank letterhead indicating an amount on deposit equal to the estimated expense for one year at the University. Visit www.shsu.edu/international (http://www.shsu.edu/international) for further details.
- Home country address. Regardless of current residency, students must provide a home country address for the processing of the I-20 A/B. Visit www.shsu.edu/international (http://www.shsu.edu/international) for further details.
- International Student Adviser's Report. This form is to be completed and signed by the student and an adviser at the U.S. high school.
- Copies of immigration documents (i.e., passport photo page, visa, and I-94).
- To ensure that all undergraduate admission and immigration papers are in order, international students are required to visit the Office of International Programs immediately upon arrival on campus. Telephone (936) 294-4737 or e-mail oip@shsu.edu.
- All international students are required to purchase the University's Group Hospitalization, Medical Evacuation, and Repatriation Insurance available to all eligible SHSU students. Further information concerning this required coverage may be obtained from the University Health Center. Telephone (936) 294-1805.

All International Students are required to complete International Student Orientation, in lieu of New Student Orientation. Contact the Office of International Programs at (936) 294-4607 for information concerning this specialized orientation session.

International students who are transfer students who attended a college or university outside the U.S. must provide the following:

Admission Requirements/Documentation

- Completed Apply Texas Application with nonrefundable application fee (must declare a major other than General Studies).
- TOEFL score of 550 paper-based, 79 (iBT internet-based test) or IELTS score of 6.5, if English is not their first language.
- Copy of transcripts from **all** colleges/universities attended.
- Official evaluation of **all** transfer work from a NACES accredited evaluation company (World Education Services, etc.).
- Certified English translations for documents submitted in a language other than English.

Enrollment Requirements

- Current proof of financial support. The student's or sponsor's bank statement(s) on bank letterhead indicating an amount on deposit equal to the estimated expense for one year at the University. Visit International Programs (http://www.shsu.edu/dept/international-programs) for further details.
- Confirmation of dependents. If dependents will accompany the student to the U.S., provide each dependent's full name, date of birth, country of citizenship, and relationship to the student. For each dependent the dollar amount of financial support must be increased by the following amounts: $2,000 for a spouse, $2,000 for the first child, and $1,000 for each additional child. VisitInternational Programs (http://www.shsu.edu/dept/international-programs) for further details.
- Home country address. Regardless of current residency, students must provide a home country address for the processing of the I-20 A/B. Visit www.shsu.edu/international (http://www.shsu.edu/international) for further details.
- Copies of immigration documents (i.e., passport photo page, visa, and I-94).
- To ensure that all undergraduate admission and immigration papers are in order, international students are required to visit the Office of International Programs immediately upon arrival on campus. Telephone (936) 294-4737 or e-mail oip@shsu.edu.
- All international students are required to purchase the University's Group Hospitalization, Medical Evacuation, and Repatriation Insurance available to all eligible SHSU students. Further information concerning this required coverage may be obtained from the University Health Center. Telephone (936) 294-1805.

All International Students are required to complete International Student Orientation, in lieu of New Student Orientation. Contact the Office of International Programs at (936) 294-4607 for information concerning this specialized orientation session.

International students who are transfer students who attended a college or university in the U.S. and have obtained less than 30 transferable hours must provide the following:

Admission Requirements/Documentation

- Completed Apply Texas Application with nonrefundable application fee (must declare a major other than General Studies).
- TOEFL score of 550 paper-based, 79 (iBT internet-based test) or IELTS score of 6.5, if English is not their first language.
- Official transcripts from all colleges/universities attended.
- 12-17 hours must have a cumulative grade point average of 2.5 or higher on transferable hours.
  18+ hours must have a cumulative grade point average of 2.0 or higher on transferable hours.
- Undergraduate students who transfer from a college or university of recognized standing with less than 12 transferable hours must meet the standards of beginning freshmen students (see Beginning Freshmen within this chapter) as well as have a cumulative grade point average of a 2.5 or higher on transferable hours.

- Students who are currently suspended from another college or university are not eligible for admission to Sam Houston State University.

Enrollment Requirements

- Current proof of financial support. The student's or sponsor's bank statement(s) on bank letterhead indicating an amount on deposit equal to the estimated expense for one year at the University. Visit International Programs (http://www.shsu.edu/international) for further details.
- Confirmation of dependents. If dependents will accompany the student to the U.S., provide each dependent's full name, date of birth, country of citizenship, and relationship to the student. For each dependent the dollar amount of financial support must be increased by the following amounts: $2,000 for a spouse, $2,000 for the first child, and $1,000 for each additional child. Visit International Programs (http://www.shsu.edu/international) for further details.
- Home country address. Regardless of current residency, students must provide a home country address for the processing of the I-20 A/B. Visit www.shsu.edu/international (http://www.shsu.edu/international) for further details.
- International Student Adviser's Report. This form is to be completed and signed by the student and an adviser at the U.S. high school.
- Copies of immigration documents (i.e., passport photo page, visa, and I-94).
- To ensure that all undergraduate admission and immigration papers are in order, international students are required to visit the Office of International Programs immediately upon arrival on campus. Telephone (936) 294-4737 or e-mail oip@shsu.edu.
- All international students are required to purchase the University's Group Hospitalization, Medical Evacuation, and Repatriation Insurance available to all eligible SHSU students. Further information concerning this required coverage may be obtained from the University Health Center. Telephone (936) 294-1805.

All International Students are required to complete International Student Orientation, in lieu of New Student Orientation. Contact the Office of International Programs at (936) 294-4607 for information concerning this specialized orientation session.

International students who are transfer students that attended a college or university in the U.S. and have obtained at least 30 transferable hours must provide the following:

Admission Requirements/Documentation

- Completed Apply Texas Application with nonrefundable application fee (must declare a major other than General Studies).
- Official transcripts from all colleges/universities attended.
- 12-17 hours must have a cumulative grade point average of 2.5 or higher on transferable hours.
  18+ hours must have a cumulative grade point average of 2.0 or higher on transferable hours.
- Undergraduate students who transfer from a college or university of recognized standing with less than 12 transferable hours must meet the standards of beginning freshmen students (see Beginning Freshmen within this chapter) as well as have a cumulative grade point average of a 2.5 or higher on transferable hours.
- Students who are currently suspended from another college or university are not eligible for admission to Sam Houston State University.
- Application for undergraduate admission (must declare a major other than General Studies).
- Official transcripts from **all** colleges/universities attended.

Enrollment Requirements

- Current proof of financial support. The student's or sponsor's bank statement(s) on bank letterhead indicating an amount on deposit equal to the estimated expense for one year at the University. Visit International Programs (http://www.shsu.edu/international) for further details.
- Confirmation of dependents. If dependents will accompany the student to the U.S., provide each dependent's full name, date of birth, country of citizenship, and relationship to the student. For each dependent the dollar amount of financial support must be increased by the following amounts: $2,000 for a spouse, $2,000 for the first child, and $1,000 for each additional child. Visit International Programs (http://www.shsu.edu/international) for further details.
- Home country address. Regardless of current residency, students must provide a home country address for the processing of the I-20 A/B. Visit I (http://www.shsu.edu/international)nternational Programs (http://www.shsu.edu/dept/international-programs) for further details.
- International Student Adviser's Report. This form is to be completed and signed by the student and an adviser at the U.S. high school.
- Copies of immigration documents (i.e., passport photo page, visa, and I-94).
- To ensure that all undergraduate admission and immigration papers are in order, international students are required to visit the Office of International Programs immediately upon arrival on campus. Telephone (936) 294-4737 or e-mail oip@shsu.edu.
- All international students are required to purchase the University's Group Hospitalization, Medical Evacuation, and Repatriation Insurance available to all eligible SHSU students. Further information concerning this required coverage may be obtained from the University Health Center. Telephone (936) 294-1805.

All International Students are required to complete International Student Orientation, in lieu of New Student Orientation. Contact the Office of International Programs at (936) 294-4607 for information concerning this specialized orientation session.

Appeals Process

- Appeals for Undergraduate Admissions
- Individual Review of Educational Potential
- New Student Orientation

Appeals for Undergraduate Admissions

An applicant who has been denied admission may appeal that decision in writing to the Undergraduate Admission Standards and Applications Committee, Sam Houston State University, Box 2418, Huntsville, Texas 77341.

Individual Review

Sam Houston State University cares about the academic success of all prospective students. Some freshman applicants who do not meet minimum requirements for admission, but graduated with the required Texas high school curriculum, may be eligible for individual review.

The Admissions staff may consider the following factors in the review process:

- Grade Point Average
- Specific class rank (on a seven-semester transcript)
- Size of graduating class
- Quality and competitive level of high school courses taken and grades earned (i.e. AP, Honors classes, Dual Credit)
- Academic progress and achievements
- Scores on either the ACT or SAT

To be considered for review, applicants must submit the following items by the end of May for the fall semester and the end of November for the spring semester. Students will not be considered until all credentials have been received.

- A seven-semester transcript that includes GPA, ACT and/or SAT
- **A personal statement** that addresses the factors you wish to bring to the attention of the Admissions staff regarding your academic record or other skills and achievements which may contribute to you college success

Submit the above materials to Office of Admissions, ATTN: Individual Review Program, Box 2418, Huntsville, Texas 77341-2418 or by fax to (936) 294-3758 or by email to admissions@shsu.edu.

NOTE: After the review process, if a student is granted admission to SHSU under the review program, then he or she will be required to take and complete UNIV 1301 course during the first year.

Registration

- Enrollment Requirements
- Academic Advisement for Registration
- Core Mathematics Enrollment Requirement
- Registration
- Change of Schedule (Adding and Dropping Courses)
- Resignations
- Courses at SHSU The Woodlands Center
- Correspondence Courses
- Notification of Name Change
- Notification of Address Change
- Classification of Students
- Auditing a Course
- Transcripts
- Texas Success Initiative (TSI)

Enrollment Requirements

Information concerning registration may be obtained from the Academic Calendar provided in this publication, the Student Advising Center (SAM Center), or from the Registrar's Office. Detailed registration procedures appear below and are included in the *Schedule of Classes* (http://www.shsu.edu/academics/current-schedule-of-classes.html).

Academic Advisement for Registration

Sam Houston State University offers advisement throughout the year at the Student Advising Center (SAM Center). The Center is located in the College of Humanities and Social Sciences Building, 1901 Avenue I. Telephone: (936) 294-4444; Toll free: (866) 364-5211; Houston area: (281) 657-6432. E-mail: SAM Center. Students majoring in Criminal Justice should contact the Criminal Justice Advisement Center located on the second floor of the George J. Beto Criminal Justice Center at 816 17th Street, Huntsville, TX 77340. Telephone: (936) 294-1702.

The university provides advisors to assist students with registration to ensure appropriate progress toward completion of degree requirements. However, the student bears sole responsibility for assuring that all degree requirements are fulfilled.

Students are placed under a degree and major based on the selection at the time of application to Sam Houston. A student has the option of meeting the academic requirements for any degree as outlined in the catalog at the time of admission. In addition, a later catalog may be selected provided the requirements are met no later than six years from the effective date of that catalog. The student is responsible for knowledge of the detailed requirements of the degree program including any special requirements of the major and/or minor department. Students must speak to their advisor in order to make a change to their major. Some academic departments may require approval of the change of major.

Advisement is required for the following students:

- Students with no SHSU grade point average (GPA).
- Students with a grade point average (GPA) below a 2.50.
- Students who have earned less than a grade of C in any developmental course during the previous semester at SHSU.
- Students subject to completion of TSI requirements.
- All students who have not officially declared a major and are reaching 45 hours of completed coursework.
- All students who have 90 or more hours completed or in progress.

Core Mathematics Enrollment Requirement

Current research on best practices in higher education indicates that students perform better at challenging subjects when they are immersed in the learning of the material, without interruption. In order to ensure students are more successful in the general education mathematics courses — and remain on track to graduate in four years — Sam Houston State University requires students to continuously enroll in mathematics classes until they have successfully completed their mathematics requirement in Component Area II of the Core Curriculum.

Consequently, at the time of registration for classes in a given semester, any student who is not core complete in mathematics will be required to be registered for a core mathematics course before being allowed to add any other courses to their schedule for that semester.

By requiring students to take their core mathematics course during their first semester, students are not only making adequate progress towards earning a degree in a timely manner, the quantitative skills obtained will better prepare them for advanced courses later in their degree plan.

Registration

Once accepted and advised at Sam Houston State University, students may register for classes during the scheduled registration periods. Registration procedures apply to all SHSU courses taken on campus, off campus, and online. For correspondence course registration procedures, click (http://www.shsu.edu/academics/correspondence/forms.html) here (http://www.shsu.edu/~cor_www). (http://shsu.edu/~cor_www) Registration schedules may be found in the *Schedule of Classes* (http://www.shsu.edu/academics/current-schedule-of-classes.html).

During scheduled periods of registration, students may register online by selecting the *MySam* link on SHSU's homepage (http://www.shsu.edu) and then *Registration* tab. If registering off campus, students will need their username and password in order to access the registration menu. See the Registration Toolbox in the Registration tab for registration assistance.

Change of Schedule (Adding and Dropping Courses)

What should students consider when adding or dropping courses?

- Adding or dropping courses can impact financial aid. Students receiving financial aid and/or scholarships are encouraged to visit with a financial aid representative prior to adding or dropping courses.
- Adding courses will result in tuition and fee charges to be paid by 4:00 pm on the date the course(s) are added.
- A student is allowed no more than 5 Q-drops during their career at SHSU.
- A student is allowed no more than 6 Q-drops during their combined career at all Texas public colleges and universities.
- A student, under specific conditions, may be charged a higher tuition rate for excessive undergraduate hours. Please reference Tuition for Excessive Undergraduate Hours within this catalog for further information.
- International students must make changes through the Office of International Programs.

When can students change their schedules?

- During any open registration period for a current or future term.
  For registration times, please refer to Registration Dates (http://www.shsu.edu/dept/registrar/students/registration/registration-dates.html).

Resignations

A resignation is withdrawing from all classes within a term. This does not mean the student is discontinuing his/her academic career. The student will have one full academic year from last enrollment term to return to SHSU without reapplying, granted he/she did not leave on Academic Suspension.

To resign (officially withdraw) from the term, a student must notify the Registrar's Office and process a Resignation Request. The Resignation Request becomes effective on the date received by the Registrar's Office. The resignation effective date is used for determining any refund as authorized in the State Refund Policy (see Tuition and Fees Refund Policy). The student is responsible for clearing all debts owed to the University. International students must be advised by the International Student Advisor before resigning. **Students who fail to officially resign from the term prior to the resignation deadline and discontinue class attendance will receive the grade of F or the grade earned for each course in which they are enrolled.**

Students who resign after the twelfth class day of a fall/spring term receive a mark of W (withdrew) for each course for which they were enrolled. Students registered in courses meeting less than 15 weeks please refer to the resignation refund schedule. If a student has received a grade in any course for that term, he/she is ineligible to resign.

Courses at SHSU The Woodlands Center

Please see Degrees Offered for a current listing of degree programs offered at SHSU The Woodlands Center. Courses completed as part of these programs carry residence credit. There is an additional fee charged for courses taken at SHSU The Woodlands Center. Currently, only Junior and Senior courses are available (3000/4000). For more information, contact SHSU The Woodlands Center at (936) 496-5000 or visit SHSU The Woodlands Center (http://www.shsu.edu/academics/woodlands-center). Mailing address:

SHSU The Woodlands Center
3380 College Park Drive
The Woodlands TX 77384

Correspondence Courses

Correspondence courses are offered for those students who wish to add to their academic program by individual study. A student is permitted to complete eighteen semester hours toward a bachelor's degree by correspondence coursework. Restrictions may apply to some courses. Correspondence courses may be completed in a minimum of sixty days and a maximum of one calendar year.

Semester credit hours earned in correspondence courses are not considered "Resident Classroom Instruction" hours and are not used in determining academic honors: Cum Laude, Magna Cum Laude, Summa Cum Laude, the Dean's List, and the President's Honor Roll. Correspondence coursework

is posted, however, to the transfer section of the academic record, and the grade points are calculated into the overall cumulative grade point average and not the Sam Houston grade point average.

Students may not take correspondence courses to improve grades of D or F without approval from the appropriate academic dean.

Correspondence courses are not offered at the graduate level, nor can any correspondence course taken at any level or at any institution count towards a graduate degree at Sam Houston State University.

Students may enroll in correspondence courses at any time. Additional information, including a brochure listing courses offered and an enrollment application, may be obtained by inquiring in person at 2405 Avenue I in the Correspondence office, via the Correspondence Website, or by writing to:

Sam Houston State University
Correspondence Course Division
Box 2060
Huntsville, TX 77341-2536
Telephone: Toll Free: (877) 759-2232
Enrollments (shsucorrespondence@shsu.edu): (936) 294-4568
Lessons: (936) 294-4568
Final exams: (shsucorrespondence@shsu.edu) (936) 294-4568
Grades : (shsucorrespondence@shsu.edu) (936) 294-4568
Website: Correspondence (http://www.shsu.edu/academics/correspondence)

Notification of Name Change

The form is located in the Payroll Office. (http://www.shsu.edu/dept/payroll)

- Present to the Payroll Office (located CHSS Building, Suite 420, 8:00 am – 5:00 pm, Monday thru Friday) legal documentation such as marriage certificates, divorce decrees, and social security cards reflecting the correct name.
- A change of name can impact Financial Aid when the lender is unaware of the name change. Students are encouraged to visit with a financial aid representative prior to changing their name.

Notification of Address Change

- The form is located in the Payroll Office (http://www.shsu.edu/dept/payroll).
- Permanent and local addresses can be changed online by accessing student records through the My Sam link at http://www.shsu.edu/ using the Banner Self-Service link on the Campus Resources tab.
- It is essential to have the correct address on file each semester in order to receive important communication from SHSU.
- The University assumes no obligation for failure of a student to receive communications.

Classification of Students

- Freshman: 1-29 hours completed
- Sophomore: 30-59 hours completed
- Junior: 60-89 hours completed
- Senior: 90 hours or more completed.

Hours earned at Sam Houston State University and hours accepted in transfer from other institutions will count toward the student's classification.

Credit awarded by examination and hours earned with the grade of CR are counted in determining classification, but are not included in determining grade point average.

Hours earned in developmental courses are not counted toward the student's classification.

Auditing a Course

A student auditing a course may attend lectures and other class meetings, take part in class discussions, and receive written confirmation of attendance. The student will not receive evaluations of participation and will not be allowed to submit assignments or take examinations and tests, except by special and express permission of the instructor.

An individual must receive prior approval from the appropriate department chair and the instructor involved in order to audit a course. Neither the instructor nor the University assumes responsibility for the academic progress of any person auditing a course. The audit fee for each course is $50; students 65 years of age or older are exempt from paying the audit fee.

For instructions and a copy of the Audit Form, please, go to the Registrar's Office located on the 3rd floor of the Estill Building. The Audit Form with appropriate approvals may only be submitted to be processed on the 2nd class day **only** if there is an open seat available. An individual will not be permitted to audit if the class section is at maximum capacity.

An individual auditing a course:

- is encouraged to attend all lectures and obtain the maximum educational benefit from the information presented,
- is not permitted to take tests or examinations in the course being audited,
- is authorized to receive a courtesy library card permitting use of the Newton Gresham Library for the duration of the course audit,
- is not authorized to be issued a Sam Houston State University Student Identification Card unless also enrolled as a regular student at Sam Houston State University,
- is not authorized to use Sam Houston State University medical, athletic, or recreational facilities unless also enrolled as a regular student at Sam Houston State University, and
- will not have a record of course audit in the Registrar's Office.

Transcripts

Options to order transcripts can be found on the Student Transcripts (http://www.shsu.edu/dept/registrar/transcripts-and-student-records/transcripts.html#Order%20Online) website. Official transcripts will not be released for students with financial indebtedness/outstanding balance(s) due to the University.

Texas Success Initiative

Students who are entering or enrolled in a Texas public institution of higher learning and are not exempt must take the TSI Assessment test and have scores on file before they will be allowed to attend college-level classes. Only students who fail the TSI Assessment test are required to take developmental courses. Such students must enroll in at least one developmental course each semester until the Texas Success Initiative requirements are satisfied.

Official placement test scores or valid exemption must be on file with the Registrar's Office before students register for classes. Visit http://www.shsu.edu/tsi for additional information.

TSI Test Exemptions

- An ACT composite score of 23 or higher, with a score of at least 19 on both the Math and English sections from the same test date. Scores are valid for five years from test date; or
- A re-centered SAT I score of 1070 or higher with a minimum score of 500 on both the math and verbal sections from the same test date. Scores are valid for five years from test date; or
- On the new SAT, a score of 530 will provide an exemption for math; or
- On the new SAT, a score of 480 for Evidence Based Reading and Writing will provide an exemption for Reading and Writing; or
- A score of at least 2200 on the ELA and Math sections of the TAKS Test with a writing essay score of 3 or higher. Scores are valid for five years from test date; or
- An associate (AA or AS) or a baccalaureate (BA, BS, etc.) degree from an accredited Texas public institution of higher education; or
- Students who transferred from outside Texas or from a private Texas college or university and successfully completed the appropriate reading, math, and writing related coursework. Please visit the SAM Center for more details; or
- Students who previously attended any institution of higher education and have been determined to have met readiness standards by that institution; or
- Students who are serving on active duty in the military, the Texas National Guard, or the reserves, or were honorably discharged, retired, or released from active duty in the military, the Texas National Guard, or the reserves after August 1, 1990.

Temporary TSI Test Exemptions

- Students who are not seeking a degree or certificate may be exempt at the discretion of the institution.

It is the student's responsibility to inform the institution of his/her exemption.

Responsibilities of Non-Exempt Students Who Have Not Passed All Parts of the TSI Assessment Test

Students must continuously enroll in the appropriate developmental program until they have satisfied all TSI Requirements.

Students must enroll and participate fully in each developmental course and:

- attend class and any required tutorial session(s);
- complete all assignments and take all exams;
- demonstrate to the instructor of the course that the student is making a good faith effort to develop the appropriate skills and knowledge; and

- remain in class unless granted permission to drop.

Students Who Fail One or More Section of the TSI Assessment Test May Satisfy TSI Requirements by

- Getting a passing score on a retake of the TSI Assessment test;
- Completing a developmental program in the appropriate area with a grade of "C " or better;
- Completing an approved college-level course(s) in the appropriate area with a grade of "C" or better; or
- Using a score on an ACT, SAT, or TAKS test that meets the exemption standard in the appropriate area.

Sam Houston State University TSI Reading, Writing, and Mathematics Requirements and Placements

Reading Requirements

- Students who score from 001 to 341 on the TSI Assessment test must pass INRW 0301 with a grade of C or better.
- Students who score from 342 to 350 on the TSI Assessment test have the option to pass INRW 0301 with a grade of C or better; or to enroll in the co-requisite model INRW 0014 and ENGL 1301.
- Students who have a passing score of 351 or higher on the TSI Assessment test have satisfied their TSI requirements and are not required to enroll in a developmental education course.

Writing Requirements

- Students who score from 001 to 341 on the TSI Reading Assessment test must pass INRW 0301 with a grade of C or better.
- Students who score from 0 to 339 with a 1 - 4 Essay on the TSI Assessment test have the option to pass the INRW 0301 with a grade of C or better; or to enroll in INRW 0014 and ENGL 1301.
- Students who have a passing score of 340 with a 4 Essay on the TSI Assessment test have satisfied their TSI requirements and are not required to enroll in a developmental education course. Students who make a 5 on their Essay section with ABE score of 4 will automatically be TSI writing complete regardless of the score in the multiple-choice section.

Mathematics Requirements

- Students who score from 347 - 345 on the TSI Assessment test must pass MATH 0333 with a grade of C or better.
- Students who score from 340 to 349 on the TSI Assessment test have the option to pass the MATH 0333 with a grade of C or better; or to enroll in a co-requisite model (See the Academic Success Center for course options.)
- Students who have a passing score of 350 or higher on the TSI Assessment test have satisfied their TSI requirements and are not required to enroll in a developmental education course.

For more information on the Texas Success Initiative at SHSU, please visit www.shsu.edu/tsi (http://www.shsu.edu/tsi). To inquire about taking the TSI Assessment test, please contact Testing Center (http://www.shsu.edu/centers/testing-center) or by phone (936) 294-1025.

DEGREE REQUIREMENTS AND ACADEMIC GUIDELINES

- Undergraduate Degree Requirements
- University Academic Policy Manual and Student Guidelines
- Core Curriculum
- Scholastic Requirements
- Grades and Grade Points
- Determining Grade Point Average (GPA)
- Class Attendance
- Student Absences on Religious Holy Days
- Final Examinations
- Dean's List of Academic Honors
- President's Honor Roll
- Academic Standing
- Academic Good Standing
- Academic Probation and Suspension
- Release of Academic Probation
- Readmission to Undergraduate Studies After Suspension
- Academic Grievance Procedure for Students
- Graduation

Undergraduate Degree Requirements

- Undergraduate Degree Requirements
- University Academic Policy Manual and Student Guidelines

All degrees contain the following MINIMUM requirements:

Total Hours. A minimum of 120 hours total (developmental courses not included) is required of each degree. Some degree programs may require additional hours above the 120 minimum.

Advanced Hours. (3000-4000 level courses) 42 semester hours of advanced work must be completed for a degree. Courses taken from a community college do not transfer for advanced credit.

Minimum Residence. Residency, for the purpose of meeting degree requirements, is defined as courses that require classroom instruction and include:

- course taken on the campus of SHSU
- courses taken at SHSU The Woodlands Center
- courses taken at selected off-campus sites
- courses taken online from SHSU

The following hours must be completed "in residence" to meet degree requirements:

- At least 25% of the credit hours required by the degree (e.g., 30 semester credit hours for a 120 credit hour program) of which 24 semester credit hours must be advanced (3000 or 4000-level),
- 12 semester credit hours (SCH) of advanced (3000 or 4000-level) coursework within the major field of study,
- 6 semester credit hours (SCH) of advanced (3000 or 4000-level) coursework within the minor field of study (if applicable).
- Correspondence courses **DO NOT** meet residency requirements.

Grade Point Average (GPA)

A minimum 2.00 GPA is required in the following:

- SHSU GPA
- Overall GPA (SHSU coursework and transfer coursework. This is considered the cumulative grade point average.)
- SHSU Major GPA (some programs may require a higher GPA)
- Overall Major GPA (SHSU coursework and transfer coursework)
- SHSU Minor GPA (some minors may require a higher GPA)
- Overall Minor GPA (SHSU coursework and transfer coursework)

Degree Works/Degree Plan

The specific degree requirements will be listed in the student's degree plan. A degree plan outlines academic requirements for successful completion of a specific degree. Students are encouraged to use the Student Advising (SAM Center) for advice on degree plans. Students may view their degree plan via My Sam (https://mysam.shsu.edu) using DegreeWorks located under the Student Tab.

The Notes in Degree Works contain important information placed by either academic advisors, Registrar's Office, or academic departmental staff, including academic deans. Students should review the Notes in Degree Works regularly.

The university provides advisors to assist students with registration to ensure appropriate progress toward completion of degree requirements. However, the student bears sole responsibility for assuring that all degree requirements are fulfilled.

Students are placed under a degree and major based on the selection at the time of application to Sam Houston. A student has the option of meeting the academic requirements for any degree as outlined in the catalog at the time of admission. In addition, a later catalog may be selected provided the requirements are met not later than six years from the effective date of the selected catalog. Students are responsible for knowledge of the detailed requirements of the degree plan, including any special requirements of the major and/or minor department. Students may change degree/major/minor through their academic advisor. Some academic departments may require approval of the change of major.

Please, visit the Sam Center (http://www.shsu.edu/centers/sam-center)for information regarding location or you may call: (936) 294-4444; Toll free: (866) 364-5211; Houston area: (281) 657-6432, or via email: samcenter@shsu.edu. Students majoring in Criminal Justice should contact the Criminal Justice Advisement Center located on the second floor of the George J. Beto Criminal Justice Center at 816 17th Street, Huntsville, TX 77340. Telephone: (936) 294-1702.

Second Degree

Any student with a completed baccalaureate degree from Sam Houston State University or any other regionally accredited institution may earn a second baccalaureate degree differing in basic academic subject area and concentration from the first degree earned by completing the following requirements:

- A minimum of an additional 30 semester credit hours in residence above the total hours required for the first degree, of which 24 must be advanced hours
- Any additional requirements of the department and college approving the respective degree plan
- All other University requirements for the degree sought
- Completing two majors under the same baccalaureate program in the same term, does not constitute a second degree
- With academic chair and dean approval, a student might be permitted to pursue a second degree with a major in the same discipline as a previously awarded minor.

University Academic Policy Manual and Student Guidelines

Sam Houston State University's *Academic Policy Manual* and *Student Guidelines* provide specific information pertaining to the educational procedures of the University and student conduct. Copies of these publications may be viewed at the Reference Desk in the Newton Gresham Library or online.

Core Curriculum

The Core Curriculum at Sam Houston State University contains 42 semester credit hours, encompassing nine component areas. Each component area has a minimum credit hour requirement and a set of specific courses that may be used to satisfy the requirement. The chart below details the Sam Houston State University courses and their Texas Common Course Number (TCCN) equivalents that comprise SHSU's core curriculum.

Core Curriculum

Component Area I: Communications

Course Number	TCCN (if applicable)
Component Area I: Communications	**6 Hours Required**
ENGL 1301	ENGL 1301
ENGL 1302	ENGL 1302

Component Area II: Mathematics

Course Number	TCCN (if applicable)
Component Area II: Mathematics	**3 Hours Required**
MATH 1314	MATH 2312
MATH 1316	MATH 1316
MATH 1324	MATH 1324
MATH 1332	MATH 1332
MATH 1369 (New Fall 2018)	MATH 1342
MATH 1384	MATH 1350
MATH 1410	
MATH 1420	MATH 2413
PHIL 2352 [1]	
STAT 1369 (New Fall 2018)	MATH 1342

[1] Students with a documented learning disability and Department of Mathematics approval may use PHIL 2352 (Introduction to Contemporary Logic) to satisfy Component Area II: Mathematics.

Component Area III: Life and Physical Science

Course Number	TCCN (if applicable)
Component Area III: Life and Physical Science	**8 Hours Required**
BIOL 1401	
BIOL 1408	
BIOL 1411	
BIOL 1413	
BIOL 1436	
BIOL 2401	BIOL 2401
BIOL 2403 (New FAll 2018)	BIOL 2401
BIOL 2404 (New Fall 2018)	BIOL 2401
CHEM 1406	CHEM 1406
CHEM 1407	CHEM 1407
CHEM 1411	CHEM 1411
CHEM 1412	CHEM 1412
GEOG 1401	
GEOL 1403	
GEOL 1404	
GEOL 1405	
GEOL 1436	
ISCI 1436	
PHYS 1403	
PHYS 1404	

Component Area IV: Language, Philosophy, and Culture

Course Number	TCCN (if applicable)
Component Area IV: Language, Philosophy, and Culture	**3 Hours Required**
ARAB 2311	ARAB 2311
ARAB 2312	ARAB 2312
ENGL 2332	ENGL 2332
ENGL 2333	
FOLG 2311	ARAB 2311/ARAB 2312, FREN 2311/FREN 2312, GERM 2311/GERM 2312, SGNL 2311/SGNL 2312, SPAN 2311/SPAN 2312
FOLG 2312	ARAB 2312, FREN 2312, GERM 2312, SGNL 2312, SPAN 2312
FREN 2311	FREN 2311
FREN 2312	FREN 2312
GEOG 2355	GEOG 1303
GEOG 2356	GEOG 1303
GERM 2311	GERM 2311
GERM 2312	GERM 2312
HIST 2311	HIST 2311
HIST 2312	HIST 2312
MCOM 1330	
MUSI 1379	
PHIL 1301	PHIL 1301
PHIL 2306	PHIL 2306
SGNL 2312	SGNL 2312
SOCI 2319	SOCI 2319
SPAN 2311	SPAN 2311
SPAN 2312	SPAN 2312

Component V: Creative Arts

Course Number	TCCN (if applicable)
Component Area V: Creative Arts	**3 Hours Required**
ARTS 1301	ARTS 1301
ARTS 1302	
ARTS 1303	ARTS 1303
DANC 1372 (NEW Fall 2016/Number change Fall 2018)*	*Can only be used for degrees using 2016-2017 and forward.
FAMC 2301	
MCOM 2366 (NEW Fall 2016)*	*Can only be used for degrees using 2016-2017 and forrward.
MUSI 1306	MUSI 1306
MUSI 2348	MUSI 1308
MUSI 2364	MUSI 1310
PLSC 2399	ARTS 1301

Component Area VI: U.S. History

Course Number	TCCN (if applicable)
Component Area VI: U.S. History	**6 Hours Required**
HIST 1301	HIST 1301
HIST 1302	HIST 1302

Component Area VII: Political Science/Government

Course Number	TCCN (if applicable)
Component Area VII: Political Science / Government	**6 Hours Required**
POLS 2305	
POLS 2306	GOVT 2306

Component Area VIII: Social and Behavioral Sciences

Course Number	TCCN (if applicable)
Component Area VIII: Social and Behavioral Sciences	**3 Hours Required**
ANSC 2360	
BESL 2301	
COMS 2386	SPCH 1318
CRIJ 2361	CRIJ 1301
ECON 2300	ECON 1301
ECON 2301	ECON 2301
ECON 2302	ECON 2302
GEOG 1300 (Number change Fall 2018)	
HLTH 2383	
PHIL 2303	PHIL 2303
PSYC 1301	
SOCI 1301	
SOCI 1306	SOCI 1306

Component Area IX: Component Area Option

Course Number	TCCN (if applicable)
Component Area IX: Component Area Option	**4 Hours Required**
3 Hours Required:	
One additional course in component area 4 OR:	
BUAD 2321	
COMS 1361	
COMS 2382	
MCOM 1371	
1 Hour Required:	
ECON 1100	
KINE 2115	PHED 1164
MCOM 1130 (NEW Fall 2016)*	*Can only be used for degrees using 2016-2017 and 2017-2018 Catalogs.
NGLI 1101	
The 4th credit hour of MATH 1410	
The 4th credit hour of MATH 1420	

Revised Fall 2000
Revised July 24th, 2001
Revised May 16, 2002
Revised March 3, 2004
Revised August 2014
Revised March 2016
Revised March 2018

Scholastic Requirements

- Grades and Grade Points
- Determining Grade Point Average (GPA)
- Class Attendance
- Student Absences on Religious Holy Days
- Final Examinations
- Dean's List of Academic Honors
- President's Honor Roll

Grades and Grade Points

Sam Houston State University's grade system consists of five grades:

Grade	Description	Grade Points Per Semester Hours
A	Excellent	4
B	Above average	3
C	Average	2
D	Passing (not necessarily satisfying degree requirements)	1
F	Failure	0

Note: All of the above grades will be used in grade point average (GPA) calculations.

The following marks are assigned but are **not** used in the grade point average calculations:

X (Incomplete)

The mark X indicates that the student has not been able to complete the course because of emergency circumstances beyond the student's control. These circumstances usually prevail over other drop dates and opportunities to withdraw from the course. When the student is given the X mark, it is assumed that the student will be able to finish the course without further instruction or tutoring from the faculty member in charge of the course. Permission to award the mark of X is granted only by the chair of the academic department involved with the recommendation of the instructor. If the student meets the prescribed requirements of the course before the end of the next long semester (fall or spring; the summer term is not considered a long semester for X grade submissions) after the X is given, the student will receive the grade earned; otherwise, **the mark X will be automatically changed to the grade of F.**

IP (In Progress)

Assigned to thesis and other selected courses designed to require additional time to complete course requirements.

CR (Credit)

Designates that academic credit was earned for the course. Hours earned with the mark of CR are counted in determining classification but are not used to calculate GPA.

NC (Non-Credit)

Assigned for failure to complete satisfactorily the requirements for selected courses.

Q (Q-drop)

Assigned to courses dropped on or after the 13th class day (5th class day for summer sessions) and prior to the first day for which a letter grade must be assigned.

Students are allowed no more than 5 Q-drops. Students are encouraged to visit their advisor prior to dropping a course.

W (Withdraw)

Students who resign after the twelfth class day of a fall/spring term receive a mark of W (withdrew) for each course for which they were enrolled. If a student has received a grade in any course for that term, they are ineligible to resign.

*** (Developmental Course Designation)**

Assigned to developmental courses which are assigned a letter grade with the asterisk (*) symbol.

Note: Class days are University class days (Monday through Friday), not the number of days an individual class meets. Class days are to be counted from the first class meeting of on-campus daytime courses as indicated in the Academic Calendar.

Determining Grade Point Average (GPA)

The grade point average is calculated by dividing the **quality points earned** by the **total GPA hours attempted toward the degree**. The total GPA hours attempted toward the degree excludes hours in developmental courses and courses assigned a CR (credit) or NC (non-credit) mark. The grade point average is carried out two decimals (2.00) and is not rounded. Courses receiving the marks of IP or X are not used in the hours calculating the term GPA until such time that the marks are reported with letter grades of A, B, C, D, F. Developmental courses will be assigned grades of A*, B*, C*, D*, F* and are not used in the calculation of grade point average.

Quality points earned are determined by multiplying the number of hours assigned to the course by the number assigned to the grade for that course. For example, the number of quality points for a three-hour course for which a B is earned is nine, i.e. 3 x 3 = 9. If there are any questions about how grade point averages are determined, please consult with an academic advisor.

Quality points are computed for a given term on the basis of term hours attempted. A course attempted, for grade point average purposes, is defined as one in which the student receives a grade of A, B, C, D, or F, excluding developmental courses.

For grade point average purposes, the number of GPA hours attempted increases each time a student is assigned a letter grade (A, B, C, D, F) for a course with the following exception: Courses marked with “E” indicate "exclude" and are not calculated into the grade point average.

A student receiving a grade believed to be in error after the grade is reported should request a review of this grade upon receipt. The review of the grade should be made with the instructor involved. Please refer to Academic Grievance Procedures for Students located in *Student Guidelines.*

Class Attendance

1. Regular and punctual class attendance is expected of each student at Sam Houston State University.
2. Each faculty member will keep a record of student attendance.
3. Each faculty member will announce the policies for accepting late work or providing makeup examinations. Students are expected to show appropriate cause for missing or delaying major assignments or examinations.
4. A student shall not be penalized for three or fewer hours of absences when examinations or other assigned class work has not been missed; however, at the discretion of the instructor, a student may be penalized for more than three hours of absences.
5. Each instructor is obligated to clarify in writing to each student enrolled in class at the beginning of the term the instructor’s classroom policy regarding absences.
6. Class absences will be recorded and counted only from the actual day of enrollment for the individual student in that specific class.

Student Absences on Religious Holy Days

Section 51.911(b) of the Texas Education Code requires that an institution of higher education excuse a student from attending classes or other required activities, including examinations, for the observance of a religious holy day, including travel for that purpose. A student who is excused under this subsection may not be penalized for that absence and shall be allowed to take an examination or complete an assignment from which the student is excused within a reasonable time after the absence.

Final Examinations

Final examinations are not given before the designated time in the official examination schedule. A student is not permitted to take a final examination before all other work for the course is completed. A student who is compelled to be absent from a final examination may petition the instructor involved to permit a mark of X in the course. This permission is granted only by the academic department chair with the recommendation of the instructor concerned.

Dean’s List of Academic Honors

Those outstanding undergraduate students who attain a grade point average of 3.5 or higher, with no grade of F, for all courses attempted while earning not less than twelve semester credit hours of academic coursework during the fall or spring term are included on the Dean’s List of Academic Honors. The Dean’s List is released at the close of each long semester. In order to provide the recognition these students have earned, the Dean’s List is distributed throughout the University community as well as by the News Bureau to various other media. (The twelve semester credit hours of academic course work **may not** include developmental hours. Developmental hours completed above the twelve academic hours will require the grade of A or B in order to have a student qualify for Dean’s list.) The Dean's List is not provided for summer terms.

The requirements to be listed on the Dean's List of Academic Honors are:

- 3.5 GPA for the term inclusive of all courses attempted in the term regardless of repeated courses;
- Minimum of 12 completed academic hours (developmental hours will not count toward the 12 academic hours completed);
- Developmental Courses must earn grade of either A* or B* (Students earning grade lower than B* in any developmental courses taken within the term will not qualify for the Dean’s List);
- Students who have the following grades assigned to any of the courses within the term will not qualify for the President’s List: IP or X.

What can prevent a student from being listed on the published online Dean’s List?

- Grades of X or IP within the term
- Invoking the Buckley Amendment
- Incomplete grades or grade changes processed after the Dean's List is published
- Graduate students are not eligible for the Dean's List of Academic Honors

As of Fall 2011, The Dean's List is designated on the official transcript for undergraduate students.

President's Honor Roll

Those undergraduate students who achieve a grade point average of 4.0 in all coursework attempted while earning not less than twelve semester credit hours of academic coursework during the fall or spring term attain the distinction of being included on the President's Honor Roll. The names of those students achieving the highest attainable grades denoting academic excellence comprise the President's Honor Roll and are released at the conclusion of each long term. (The twelve semester credit hours of academic course work may not include developmental hours. Developmental hours completed above the twelve academic hours will require the grade of A in order to have a student qualify for President's list.)

The requirements to be listed on the President's Honor Roll are:

- 4.0 GPA for the term inclusive of all courses attempted in the term regardless of repeated courses;
- All course grades recorded within the term must have earned the grade of A;
- Minimum of 12 completed academic hours (developmental hours will not count toward the 12 academic hours completed);
- Grade of A* must be earned in any developmental courses taken within the term;
- Students who have the following grades assigned to any of the courses within the term will not qualify for the President's List: IP or X.

What can prevent a student from being listed on the published online President's List?

- Grades of X or IP within the semester
- Invoking the Buckley Amendment
- Incomplete grades or grade changes processed after the President's List is published
- Graduate students are not eligible for the President's Honor Roll.

As of Fall 2011, The President's List is designated on the official transcript for undergraduate students.

Academic Standing

- Academic Good Standing for Undergraduate Students
- Academic Probation or Suspension for Undergraduate Students
- Release of Academic Probation
- Readmission to Undergraduate Studies after Suspension
- Academic Grievance Procedures for Students

Academic Good Standing for Undergraduate Students

Students in academic good standing have an SHSU grade point average of at least 2.0.

Academic Probation or Suspension for Undergraduate Students

An undergraduate student who falls below a 2.0 overall grade point average at the close of any term during which one or more semester hours are attempted will be placed on probation. Summer school (two sessions) is considered to be a unit equivalent to one term. Students previously placed on probation may be eligible to register provided the student is re-advised.

If an enrolled student on probation fails to achieve a minimum of a 2.0 overall grade point average, the student will be suspended. Students previously suspended may be eligible to register provided an academic standing override has been approved by their academic dean.

International students placed on academic suspension should report to the International Student Advisor in the Office of International Programs.

Academic actions are based on the total Sam Houston State University record and are implemented at the close of the fall, spring, summer term. The appropriate academic dean may place on probation, retain on probation, or suspend any student without regard to the regulations previously stated.

Release of Academic Probation

The student will be released from probation at the close of the term in which the overall SHSU grade point average meets or exceeds 2.0.

Readmission to Undergraduate Studies after Suspension

The period of academic suspension and the subsequent readmission of a student on academic probation are based on the entire Sam Houston State University academic record. Readmission from suspension must be approved by the academic dean of the college in which the student was majoring at the time of his/her suspension. The petition for readmission must be made in writing. When a student has not been enrolled for an academic year, he or she must also seek readmission through the Office of Undergraduate Admissions.

Students who are subject to suspension under the stated terms of the Academic Probation, Suspension, and Termination policy and register for enrollment at the University do so at their own risk and monies paid for fees and tuition are subject to the refund regulations as stated in the current catalog.

Academic Grievance Procedures for Students

Academic grievances include disputes over academic standards, course grades, unauthorized class absences or tardiness, suspension from the University for Academic Deficiency, and/or alleged unprofessional conduct by a course instructor. A copy of Academic Policy Statement 900823, (http://www.shsu.edu/dept/academic-affairs/aps/aps-students.html) Academic Grievance Procedures for Students, can be obtained from the office of the student's academic dean, departmental chair, or the Newton Gresham Library.

Graduation

- Application for Graduation
- Graduation Application Deadlines
- Graduation Application Fee
- Transferring Courses in Term of Graduation
- Application for Tuition Rebate for Undergraduates
- Graduation with Special Recognition
- Graduation with Academic Distinction
- Pursuit of Graduate Studies

Application for Graduation

All students must submit a formal application to the Registrar's Office for the term of degree completion. Students who apply to graduate and are enrolled in all coursework required to complete the degree and are not short more than 9 grade points in major, minor, overall, or in their SH GPA will be permitted to participate in the graduation ceremony. The Application for Graduation is required for a degree to be awarded within a term and must be submitted to the Registrar's Office by the pre-set Graduation Application Deadlines from the Academic Calendar. (See Graduation Application Deadlines section below.)

Graduation Application Deadlines

- Students graduating in either a fall or spring term must submit the Application for Graduation prior to the 12th class day of their graduating semester.
- Students graduating in summer must submit the Application for Graduation prior to the 4th class day of the first summer session. The exact deadline dates for Applications for Graduation will be available in the Academic Calendar.

Graduation Application Fee

The graduation application fee must be paid at the time of application. A student filing a graduation application after the published deadline will be assessed an additional late fee.

- The fee for students who apply by the published deadline is $40.00.
- The fee for students who apply after the published deadline is $60.00.

Applications for Graduation must be received prior to the commencement ceremony in order to have a degree posted within that term. The application fee does not roll forward to future terms, re-application and payment of fee will be required again for students who do not meet degree requirements in the term of application.

Transferring Courses in Term of Graduation

Completing final degree required courses at a transfer institution in the term of graduation is highly discouraged. Sam Houston's final grade deadline may not align with other institutions. **Regardless, the Sam Houston final grade deadline must be adhered to in order to have a degree awarded and no exceptions will be made. The Registrar's Office requires a Notification of Transfer Course form to be submitted at the time of application for degree.** Contact the Registrar's Office (registrar@shsu.edu) to complete the required form. A student completing transferring courses must provide the Undergraduate Admissions Office with an official transcript of this coursework by the grade deadline date for Sam Houston State University as published in the Academic Calendar.
Transfer grades not arriving by the final grade deadline date for a degree candidate will result in no degree awarded and student will be required to re-apply for graduation and pay the application fee for the next term. Degrees are not posted for students who do not submit an application for graduation within a term.

Application for Tuition Rebate for Undergraduates

A tuition rebate program was created by Senate Bill 1907, 75th Texas Legislature, and is authorized by the Texas Education Code.

The purpose of this program is to provide tuition rebates that will provide a financial incentive for students to prepare for university studies while completing their high school work, avail themselves of academic counseling, make early career decisions, and complete their baccalaureate studies with as few extraneous courses as possible. Minimizing the number of courses taken by students results in financial savings to students, parents, and the state.

Students are required to apply for the rebate during the semester in which the student plans to graduate. Applications (http://www.shsu.edu/~reg_www/graduation/documents/tuitionrebate.pdf) are available online.

Graduation with Special Recognition

Special recognition at graduation is provided to undergraduate students who compile outstanding academic records. Those graduates who have achieved undergraduate academic excellence at the University receive a gold cord at graduation to reflect this achievement. The gold cord indicates one of the following academic achievements: Summa Cum Laude, Magna Cum Laude, Cum Laude, with Academic Distinction, or with Honors (Honors College).

Degrees conferred Cum Laude, Magna Cum Laude, and Summa Cum Laude reflect an outstanding grade point average with a minimum of 30 semester hours earned in residence at Sam Houston State University, with not fewer than 24 hours being advanced course work. To qualify for these honors, students must meet the GPA requirements in both the SHSU **and** overall (transfer and SHSU combined) GPA. The distinction and corresponding grade point averages are:

- Cum Laude—3.50 to 3.66;
- Magna Cum Laude—3.67 to 3.85;
- Summa Cum Laude—3.86 to 4.00.

The department Academic Distinction Program is an individualized learning experience available to outstanding students at Sam Houston State University. An Academic Distinction Program project provides qualified students with a comprehensive introduction to meaningful research under the guidance of a designated faculty advisor. (See Academic Distinction Program)

Participation in the Honors Program at Sam Houston State University is based on a competitive selection process, and provides outstanding academic opportunities, and distinct undergraduate college experiences. Upon successful completion of the Honors Program (twenty-four semester hours of Honors courses including two special seminars) the student's academic transcript will indicate graduation "With Honors" and the student may wear an Honors medallion provided by the Honors College with academic regalia. To be designated as having graduated "With Highest Honors" the student must also successfully complete a special senior project involving original research and/or an effort of creative expression.

Graduation with Academic Distinction

An enriched program is offered to superior students at Sam Houston State University, culminating in the student receiving a diploma designating that the degree is being conferred "With Academic Distinction" in a field of specialization. The program consists of six hours of individual work on a project under the guidance of a designated faculty member. To qualify for Academic Distinction, the student must enroll for six (6) semester hours of credit in a department Academic Distinction program, and the student must have the following qualifications:

1. be of junior standing (60 semester hours or more) or written approval of the chair of the major department or the discipline in which academic distinction is sought,
2. have a Sam Houston State University grade point average of not less than 3.25,
3. have a grade point average of at least 3.5 on all courses taken in the major field, and
4. have the written approval of the department chair, the Director of the Honors Program, and the Academic Dean.

The six additional semester credit hours of department Academic Distinction Program coursework will be completed **in addition** to the standard requirements within the major field and may **not** be taken **in lieu** of any requirements in the major field.

Pursuit of Graduate Studies

The graduate programs at Sam Houston State University offer advanced and specialized study to those who aspire to become intellectual leaders in the professions and in various fields of teaching and research. The University provides graduate students the opportunity to pursue individual educational programs through carefully directed intellectual activity. Above all, Sam Houston State University offers graduate education that is both professional and personal. Masters and doctoral degree programs are available at Sam Houston State University. A list of graduate degree programs is located in the "Degrees Offered" section of this catalog or may be accessed at www.shsu.edu/graduate (http://www.shsu.edu/graduate). Students should contact the appropriate department or college housing the degree program for more information on availability of scholarships and graduate assistantships.

TRANSFER OF CREDIT

The following guidelines and definitions pertain to the *Transfer Curricula and Resolution of Transfer Disputes for Lower-Division Courses* (http://texreg.sos.state.tx.us/public/readtac$ext.ViewTAC?tac_view=5&ti=19&pt=1&ch=4&sch=B&rl=Y) established by the Texas Higher Education Coordinating Board.

The definitions listed below were established by the Coordinating Board and will serve as criteria to resolve disputes. The publications *Transfer of Credit Policies and Curricula of the Texas Higher Education Coordinating Board* and *Community College General Academic Course Guide Manual: A Manual of Approved General Academic Transfer Courses for State Appropriations to Texas Public Community Colleges* are the references for this issue: **The following criteria for lower-division and upper-division course credit were adopted by the Task Force to Update the *Academic Course Guide Manual*.**

1. **Criteria for Lower-Division Course Credit**
   Lower-Division (Baccalaureate/Associate Degree) Courses
   Courses offered in the first two years of college study are generally those which:
   a. Are identified by a majority of public 4-year undergraduate institutions in the state as courses intended to comprise the first two years of collegiate study.
   b. Stress development of disciplinary knowledge and skill at an introductory level.
   c. Include basic principles and verbal, mathematical, and scientific concepts associated with an academic discipline.
2. **Criteria for Upper-Division Course Credit**
   Upper-Division (Baccalaureate) Courses
   Courses offered only in the third or fourth years of a baccalaureate program are those which:
   a. Are identified by a majority of public 4-year undergraduate institutions in the state as courses intended to comprise the third and fourth years of post-secondary study.
   b. Involve theoretical or analytical specialization beyond the introductory level.
   c. Require knowledge and skills provided by previous courses for successful performance by students.
3. **Free Transferability**
   Lower-division courses included in the *Academic Course Guide Manual* and specified in the definition of "Lower-Division Course Credit" shall be freely transferable to and accepted as comparable degree credit by any Texas public institution of higher education where the equivalent course is available for fulfilling baccalaureate degree requirements. It is understood that each Texas institution of higher education may have limitations that invalidate courses after a specific length of time.
   For Texas community colleges, these freely transferable courses are identified in the latest revised edition of Coordinating Board publication *Lower Division Academic Course Guide Manua* (http://www.thecb.state.tx.us/AAR/UndergraduateEd/WorkforceEd/acgm.htm)*l,* (revised 2014). Specifically excluded are courses designated as vocational, English as a Second Language, ESL/ESOL, technical, developmental or remedial, and courses listed as "basic skills."
   For senior four-year institutions, lower-division courses that have the same course content and CIP codes as approved by the Coordinating Board shall bear equivalent credit. Specifically excluded are courses designated as ESL/ESOL, technical and developmental/remedial courses.
   Within the spirit of the law it is realized that differences in interpretation of "same course content" may generate disputes.
   WECM Courses are designated by the Texas Higher Education Coordinating Board as workforce education (technical) courses offered for credit and CEUs (Continuing Education Units). While these courses are designed to transfer among state community colleges, they are not designed to automatically transfer to public four year colleges and universities. For more information, visit http://www.thecb.state.tx.us/aar/undergraduateed/workforceed/.
4. **Field of Study Curriculum**
   The Field of Study Curriculum is a set of courses that generally apply toward the lower-division requirements for a baccalaureate degree in a specific academic area at a general academic teaching institution.
5. **Core Curriculum**
   The curriculum in liberal arts, humanities, sciences, and political, social, and cultural history that all undergraduate students of an institution of higher education are required to complete before receiving an academic undergraduate degree.
6. **Disputes**
   Transfer disputes may arise when a lower-division course is not accepted for credit by a Texas institution of higher education. To qualify as a dispute the course(s) in question must be offered by the institution denying the credit (receiving institution), or in the case of upper-level institutions, must be published as a lower-division course accepted for fulfilling lower-level requirements. For community colleges, the course(s) must be listed in the *Lower Division Academic Course Guide Manual*, and be offered at the receiving institution. Additionally, the sending institution may challenge the receiving institution's denial of credit.
   Students at Sam Houston State University who require additional information/clarification regarding Transfer Dispute Resolution Guidelines should contact Undergraduate Admissions, telephone (936) 294-1828.
   The University reserves the right to refuse to accept transfer credit when the instructor of record does not meet the requisite academic credentials. Courses taken at community colleges do not satisfy the advanced hours required at Sam Houston State University.

The Texas Common Course Numbering System was developed in part to assist students in identifying which courses at one college will meet specific course requirements at another college. In other words, the common course numbering system promotes the successful transfer of course work among colleges and universities in Texas, making the transfer process easy for students.

The common course number has a standardized four-letter prefix followed by a four-digit number —example, ENGL 1301. The four-letter prefix identifies the subject area. Each digit in the four-digit sequence gives additional information about the course. The first digit identifies the course as either freshman level (1) or sophomore level (2). The second digit identifies the number of credit hours a student will earn upon completion of the course. Most often this digit will be a 1, 2, 3, or 4. The final two digits serve to establish the sequence in which courses are generally taken.

The following is a website listing the Sam Houston State University equivalents for common course numbers. http://www.tccns.org.

FINANCIAL INFORMATION

- Tuition and Fees Information
- Tuition and Fees Schedule
- Explanation of Fees
- Tuition for Excessive Undergraduate Hours
- Residence Classification for Tuition Purposes

- Payment Information
- Financial Responsibility
- Payments
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- Dropping Courses
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- Student Financial Aid Office
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Tuitions & Fees

- Tuition and Fees Information
- Tuition and Fees Schedule
- Explanation of Fees
- Tuition for Excessive Undergraduate Hours
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Tuition and Fees Information

Tuition and Fees Schedule 2018-2019 Academic Year

All tuition and fees are correct as of the date of print but are subject to change by action of the State Legislature or the Board of Regents of The Texas State University System. Nonresident tuition (out-of-state and international) is calculated each year by the Texas Higher Education Coordinating Board.

Guaranteed Price Plan Information

In addition to the traditional price plan, a **Guaranteed Tuition Price Plan** (GPP) is available. (Comparison of rates (http://www.shsu.edu/dept/bursar/fy2015/spring-2016-tuition-fees.html) are available on the current tuition and fee schedules available on the Bursar's Office website). Only Texas residents entering SHSU for the first time are eligible to select the GPP as a price plan option. The GPP is a fixed cost tuition payment program that is valid for 12 consecutive terms including Summer terms. Before making this selection, we encourage you to review the FAQ information document as the GPP may not benefit certain students.

Example: A student whose first term of enrollment was Fall 2018 would have a Summer 2022 term GPP expiration date.

The GPP is only available for enrollment the first term of attendance at the university if all other requirements are met. Deadlines apply for selecting the GPP. After the deadline has passed, you may not remove yourself from the plan until it expires (12 consecutive terms) and refunds are not provided for any differences in plan cost. See Guaranteed Price Plan (GPP) Frequently Asked Questions (http://www.shsu.edu/dept/bursar/faqs-GPP.html) for more information.

If you are qualified to select a Guaranteed Price Plan, you may make your selection through MySam. Go to http://mysam.shsu.edu, select Campus Resources tab, then Banner Self Service> Student> Guaranteed Price Plan

Tuition and Fees Per Semester

Fall 2018 - Spring 2019

See below; subject to additional fees.[1]

Texas Resident		Nonresident	
Semester Hours	**Amount**	**Semester Hours**	**Amount**
1	688.50	1	1103.50
2	1003.00	2	1833.00
3	1317.50	3	2562.50
4	1632.00	4	3292.00
5	1946.50	5	4021.50
6	2261.00	6	4751.00
7	2575.50	7	5480.50
8	2890.00	8	6210.00
9	3204.50	9	6939.50
10	3519.00	10	7669.00
11	3833.50	11	8398.50
12	4148.00	12	9128.00
13	4462.50	13	9857.50
14	4777.00	14	10587.00
15	5091.50	15	11316.50
16	5400.00	16	12040.00
17	5698.50	17	12753.50
18	5997.00	18	13467.00
19	6295.50	19	14180.50
20	6594.00	20	14894.00

21	6892.50	21	15607.50
22	7191.00	22	16321.00
23	7489.50	23	17034.50
24	7788.00	24	17748.00

Tuition and Fees Per Summer Session

Summer 2019

See below; subject to additional fees.[1]

Texas Resident		Nonresident	
Semester Hours	**Amount**	**Semester Hours**	**Amount**
1	670.50	1	1085.50
2	967.00	2	1797.00
3	1263.50	3	2508.50
4	1560.00	4	3220.00
5	1856.50	5	3931.50
6	2153.00	6	4643.00
7	2449.50	7	5354.50
8	2746.00	8	6066.00
9	3042.50	9	6777.50
10	3339.00	10	7489.00
11	3635.50	11	8200.50
12	3932.00	12	8912.00

[1] Included in the amounts above are Tuition, Designated Tuition, Student Service Fee, Student Center Fee, Technology Fee, Library Fee, Recreational Sports Fee, International Education Fee, Advisement Center Fee, Medical Fee, OneCard Service Fee, Records Fee, and Intercollegiate Athletic Fee.

Course-related or program-related fees are examples of fees not included in the above estimates. Please review Explanation of Fees in this catalog.

Tuition and Fees Schedule 2019-2020 Academic Year

All tuition and fees are correct as of the date of print but are subject to change by action of the State Legislature or the Board of Regents of The Texas State University System. Nonresident tuition (out-of-state and international) is calculated each year by the Texas Higher Education Coordinating Board.

Tuition and Fees Per Semester

Fall 2019 - Spring 2020

See below; subject to additional fees.[1]

Texas Resident		Nonresident	
Semester Hours	**Amount**	**Semester Hours**	**Amount**
1	698.50	1	1113.50
2	1023.00	2	1853.00
3	1347.50	3	2592.50
4	1672.00	4	3332.00
5	1996.50	5	4071.50
6	2321.00	6	4811.00
7	2645.00	7	5550.50
8	2970.00	8	6290.00
9	3294.50	9	7029.50
10	3619.00	10	7769.00
11	3943.50	11	8508.50
12	4268.00	12	9248.00
13	4592.50	13	9987.50
14	4917.00	14	10727.00

15	5241.50	15	10466.50
16	5560.00	16	12200.00
17	5868.50	17	12923.50
18	6177.00	18	13647.00
19	6485.50	19	14370.50
20	6794.00	20	15094.00
21	7102.50	21	15817.50
22	7411.00	22	16541.00
23	7719.50	23	17264.50
24	8028.00	24	17988.00

Tuition and Fees Per Summer Session

Summer 2020

See below; subject to additional fees.[1]

Texas Resident		Nonresident	
Semester Hours	**Amount**	**Semester Hours**	**Amount**
1	680.50	1	1095.50
2	987.00	2	1817.00
3	1293.50	3	2538.50
4	1600.00	4	3260.00
5	1906.50	5	3981.50
6	2213.00	6	4703.00
7	2519.50	7	5424.50
8	2826.00	8	6146.00
9	3132.50	9	6867.50
10	3439.00	10	7589.00
11	3745.50	11	8310.50
12	4052.00	12	9032.00

[1] Included in the amounts above are Tuition, Designated Tuition, Student Service Fee, Student Center Fee, Technology Fee, Library Fee, Recreational Sports Fee, International Education Fee, Advisement Center Fee, Medical Fee, OneCard Service Fee, Records Fee, and Intercollegiate Athletic Fee.

Course-related or program-related fees are examples of fees not included in the above estimates. Please review Explanation of Fees in this catalog.

Explanation of Fees

The following information is not intended to be comprehensive and is subject to change. Tuition, fees, and charges are subject to change by action of the State Legislature or by action of the Board of Regents of The Texas State University System. The following tuition, fees, and charges information should be used only as a guideline for estimating costs. For clarification of any matter relating to payment or refund of tuition, fees, charges, and deposits, contact the office or administrative unit from which the charge or refund originated.

Tuition and Designated Tuition: Resident students pay $50 tuition per semester credit hour during academic year 2018-19 and $50 tuition per semester credit hour during academic year 2019-20. Nonresident students (out-of-state and international) pay $465 tuition per semester credit hour during academic year 2018-19 and $465 per semester credit hour during academic year 2019-20. The Texas Higher Education Coordinating Board calculates each year the nonresident tuition. Students enrolled in the same course for the third or more time will be charged the non-resident tuition rate for the hours associated with the course even if the student normally qualifies for in-state tuition. Resident students who reach the “excessive hour limit” will be charged a set rate per hour (see Tuition for Excessive Undergraduate Hours within this chapter for further details).

In addition, designated tuition is charged at the rate of $184 per semester credit hour for academic year 2018-19 and $194 per credit hour for academic year 2019-20.

Student Service Fee: The student service fee is $16 per semester credit hour for fall and spring ($8 per summer semester) for academic year 2018-19 and academic year 2019-20 (not exceeding $250 per semester and $125 per summer session). The fee supports the Intramural Program, the Student Life Support Programs, and the Extramural Programs. The fee provides admission to athletic events at Sam Houston State under the auspices of the Department of Athletics.

Student Center Fee: The student center fee is required at the rate of $100 per semester ($100 per summer session) for academic year 2018-19 and academic year 2019-20 and is used to fund the Lowman Student Center programs and activities.

Technology Fee (Formerly Computer Use Fee): This fee is charged at a rate of $34 per semester credit hour for academic year 2018-19 and for academic year 2019-20. It is used for the training of students, faculty and staff, and for providing support services for operation, maintenance, and replacement of computer hardware and software.

Recreational Sports Fee: Legislative action authorizes a recreational sports fee not to exceed $100 per semester for academic year 2018-19 and academic year 2019-20. It may be used to purchase equipment for and/or construct, operate, maintain recreational sports facilities and programs.

International Education Fee: A fee of $2 a semester is charged for academic years 2018-19 and 2019-20. The International Education Fee is used only to assist students participating in international student exchange or study programs.

Library Fee: Board action authorizes a library fee of $10.50 per semester credit hour for academic years 2018-19 and 2019-20. The library fee directly benefits students by supporting their classroom and research needs. The Newton Gresham Library uses this fund to purchase books, add electronic databases, and new journal subscriptions.

Medical Fee: A fee of $75 per semester is charged for academic year 2018-19 and academic year 2019-20. This fee covers services at the University Health Center.

Advisement Fee: A fee of $66 per semester is charged for academic year 2018-19 and and 2019-20. This fee will be charged to fund advising, mentoring, and academic support services for students.

Records Fee: The records fee is $12 per semester for academic year 2018-19 and academic year 2019-20.This fee provides funding for positions, software maintenance, and other miscellaneous expenses incurred by the Office of the Registrar.

OneCard Service Fee: The OneCard Service Fee is $19 per semester for academic year 2018-19 and 2019-20. The OneCard fee funds the existing university ID and disbursement program and the Student Financial Center.

Intercollegiate Athletic Fee: A fee of $20 per semester credit hour ($10 per summer semester credit hour) for academic year 2018-19 and academic year 2019-20. This fee will be used to support Intercollegiate Athletic programs.

Special Fees:

Fee	Amount
Audit Fee (per course)	$50
Distance Learning (per credit hour, in addition to tuition and fees)	$101
Laboratory Course Fee (per course)	$8
Music Fee for Individual Instruction (per course with suffix of “x”):	
1 semester credit hour course	$30
2 semester credit hours course	$60
3 semester credit hours course	$75
4 semester credit hours course	$75

The Woodland Center Fee: Classes provided at The Woodlands Center have an additional fee of $75 per semester credit hour for academic year 2018-19 and for academic year 2019-20.

(MITC) Multi-institution teaching center fee: Students enrolled in courses taught at a MITC in which SHSU is a member will be charged an additional fee of $ 75 per semester credit hour.

Tuition for Excessive Undergraduate Hours

The Texas Education Code states that an institution of higher education, under specific conditions, **may charge** a resident undergraduate student a higher tuition rate than the rate charged to other resident undergraduate students. The higher tuition rate may not exceed the rate charged to nonresident undergraduate students.

- For students who enrolled for the first time in a Texas public institution of higher education from the 1999 fall semester through the 2006 summer semester:

The higher tuition rate may be charged to an undergraduate student who is classified as a Texas resident for tuition purposes and who before the semester or other academic session begins has **previously attempted** at least **45 semester credit hours** above the number of semester credit hours required for completion of the degree program in which the student is enrolled.

- For students who enrolled for the first time in a Texas public institution of higher education beginning with the 2006 fall semester and thereafter:

The higher tuition rate may be charged to an undergraduate student who is classified as a Texas resident for tuition purposes and who before the semester or other academic session begins has **previously attempted** at least **30 semester credit hours** above the number of semester credit hours required for completion of the degree program in which the student is enrolled.

The following **are not** counted for purposes of determining whether the student exceeds the 45/30 semester credit hour limit:

1. semester credit hours earned by the student before receiving a baccalaureate degree that has been previously awarded to the student;
2. semester credit hours earned by the student by examination or any other procedure by which credit is earned for which tuition was not charged;
3. hours from remedial and developmental courses, workforce education courses, or other courses that would not generate academic credit that could be applied to a degree at the institution if the course work is within the 27-hour limit at two-year colleges and the 18-hour limit at general academic institutions; and
4. semester credit hours earned at a private institution or out-of-state institution.

Residence Classification for Tuition Purposes

The Texas Legislature and the Texas Higher Education Coordinating Board establish the rules and regulations for determining residence classification. Texas residency for tuition purposes is generally obtained by residing and being gainfully employed in Texas for 12 consecutive months immediately prior to enrollment in any college or university or by being a dependent of a Texas resident (an individual who is claimed as a dependent for federal income tax purposes by the individual's parent or legal guardian by the census day--usually the 12th class day--of the semester in which the student is registering and for the tax year preceding that same semester).

A nonresident student may qualify to pay in-state tuition by meeting the requirements of a tuition waiver. Current tuition waiver options include but are not limited to

1. the student or his/her spouse or parent is a member of the U.S. Armed Forces and their home of record is Texas;
2. the student or his/her spouse or parent is employed at least half-time by an institution of higher education in Texas as a teacher or professor;
3. the student or his/her spouse or parent has a teaching or research assistantship at any Texas institution of higher education on at least a half-time basis;
4. the student holds a competitive scholarship awarded by Sam Houston State University of at least $1,000 for the academic year or summer; or
5. the student or student's family has been transferred to Texas by a company in keeping with the state's Economic Development and Diversification Program.

By state law, the student has the responsibility of registering under the proper residence classification. If a student has knowledge of an error in his/her residence classification for tuition purposes, it is the student's responsibility to notify the Residence Classification Officer immediately. For more information concerning the rules and regulations for determining Texas residence classification, please contact:

Residence Classification Officer
Sam Houston State University
Box 2418
Huntsville, Texas 77341-2478
or call (936) 294-1059

- Payment Information
- Financial Responsibility
- Payments
- Installment Payment Plan
- Nonpayment of Tuition and Fees
- Collections for Nonpayment
- Returned Check Policy

Payment Information

Financial Responsibility

Students are expected to meet financial obligations to the University within the designated time allowed. Registration fees are payable at registration, except for that portion of the registration fee that may be temporarily deferred, but payable later in scheduled payments as part of an installment payment agreement. Students are not entitled to enter classes or laboratories until their appropriate fees and deposits have been paid. Other charges are due at registration or within ten days after a bill is rendered by the University, or according to special payment instructions that may be listed on the bill or agreement.

Payments

Payments made for registration purposes may be made by cash, cashier's check, personal check, money order, or pin debit in the Bursar's Office. All payment items are accepted subject to final payment. Online payment options include E-Check, debit, Visa, MasterCard, American Express, Diner's Club, China Union, JCB, or Discover.

Installment Payment Plan

The Texas Legislature has authorized collection of tuition and fees during a fall or spring semester by one of two methods: payment in full in advance of the beginning of the semester or payment in installments under an installment payment plan option (http://www.shsu.edu/dept/bursar/InstallmentPolicySemesterOption.html). There is a non-refundable processing fee of $30 for enrolling in an installment payment plan. Failure to make a timely payment for the first installment may result in loss of class schedule (first installment payment due before beginning of term). Failure to make timely payment on any remaining installment will cause accrual of late charges ($25 per late installment).

Any financial aid, tuition waivers, grants or deferments will be used to reduce the amount owed by the student, with the remaining balance eligible for the installment payment plan. During a summer session, the tuition and fees are collectible in full. The Texas Legislature has reserved the right to discontinue the installment payment plan.

Students will not be allowed to attend classes until their tuition and fees, excluding that portion of the registration fee that may be temporarily deferred, but payable later in scheduled payments as part of an installment payment agreement, are paid.

STATUTORY WARNING: A STUDENT WHO FAILS TO MAKE FULL PAYMENT OF TUITION AND MANDATORY FEES, INCLUDING ANY INCIDENTAL FEES, BY THE DUE DATE MAY BE PROHIBITED FROM REGISTERING FOR CLASSES UNTIL FULL PAYMENT IS MADE. A STUDENT WHO FAILS TO MAKE PAYMENT PRIOR TO THE END OF THE SEMESTER OR TERM MAY BE DENIED CREDIT FOR WORK DONE THAT SEMESTER OR TERM.

Nonpayment of Tuition and Fees

Failure to pay the amount owed in full, including appropriate penalty and late fee charges, prior to registration for a future semester or prior to the last class day for the current semester or summer session can result in any or all of the following sanctions:

1. withholding of future registration privileges,
2. withholding award of degree,
3. withholding of an official transcript, and
4. loss of class schedule for future enrolled semester(s).

Students who pay fees with a returned item may suffer the above sanctions as well as those detailed in the following section.

Collections for Nonpayment

Nonpayment by the end of the semester may result in transfer of the student's account to a contracted collection agency and assessment of a collection fee of at least 30 percent of the outstanding balance. The University may also choose to litigate an account on advice of University legal counsel. Should an account be litigated, the student will be responsible for all litigation expenses including attorney's fees and court costs. Accounts that are referred to a contracted collection agency may also be reported to credit bureaus

Returned Item Policy

A returned item is defined as a payment tender returned to the University rightfully unpaid due to no fault of the bank or the University. The item may be paid by the student or the item may be paid on the student's behalf by a spouse, guardian, friend or sponsor.

The University reserves the right to refuse credit card and personal checks, including E-Checks and pinless debit, from any student who had any of the for mentioned items returned.

Each returned item is subject to a $25 processing fee. Students have 10 days from the date on which notice is sent from the Bursar's Office in which to pay the returned item and the resulting processing fee or inform the Bursar's Office of their intent. Thereafter, the student **may be resigned** from the University. (The student should not assume that he/she will be resigned. If the student discontinues going to class without officially resigning from school, he/she will be subject to the grade of F.) Students who have been resigned are eligible for reinstatement upon redemption of such item(s), plus the resulting processing fee(s) and the payment of a reinstatement charge of $50. A student who fails to make payment prior to the first day of final exams will not receive credit for the work done that semester and will not be allowed to register for future semesters until the delinquent amount is paid. The student may also loose their class schedule for future enrolled semesters. In addition, the items may be referred to the District Attorney of Walker County for prosecution and collection. Past due accounts are referred to a credit reporting company.

Students will be given the opportunity to be heard regarding any special circumstances. Such circumstances will be given full and fair consideration, and exceptions to the returned check policy may be granted by the Director of the Bursar's Office or by a delegated employee, based on the evidence presented.

Refund Information

- Tuition and Fees Refund Policy

- Dropping Courses
- Resignations/Withdrawals
- Tuition Rebates for Certain Undergraduate Students

Tuition and Fees Refund Policy

A student enrolled at Sam Houston State University may receive a refund of tuition and fees as a result of dropping courses or resigning from the University as indicated in the following schedules.

Refunds and credits from one department will be applied to any other outstanding balances in other departments. Any remaining refund will be sent to Bank Mobile and credited to the Bearkat OneCard or other selected refund preference. The University may refund tuition and fees paid by a sponsor, donor or scholarship to the source rather than directly to the student who has withdrawn if the funds were made available to the University.

Refund policies were established by Senate Bill No. 604 of the 65th Legislature and adopted by the Board of Regents, Texas State University System, in August of 1977 and by the applicable federal regulations dealing with first semester financial aid students.

Dropping Courses

A student who submits a request to drop one or more courses in any given term or summer session but remains enrolled in at least one course may be eligible for refunds. The refund schedule for dropping courses follows.

Fall and Spring Terms

Date	Refund %
First 12 class days	100%
After 12th class day	None

Summer Sessions

Date	Refund %
First 4 class days	100%
After 4th class day	None

NOTE: Class days are university class days, not the number of days an individual class meets. Class days are to be counted from the first class meeting of on-campus daytime courses as indicated in the Academic Calendar.

Resignations/Withdrawals

A student who officially withdraws from all courses at Sam Houston State University within a term may be eligible for a refund of tuition and the specified fees, based upon the courses in which the student is enrolled on the official date of withdrawal. Refunds are made in accordance with the following schedules.

State Statutory Refund Schedule of Tuition and Fees

Refund Schedule For Terms Greater Than 10 Weeks

Date	Refund
Before the 1st class day	100% (Less $15 Matriculation Fee)
1st class day through 5th class day	80%
6th class day through 10th class day	70%
11th class day through 15th class day	50%
16th class day through 20th class day	25%
Thereafter	No refund

Refund Schedule For Terms Less Than 10 Weeks But Greater Than 5 Weeks

Date	Refund
Before the 1st class day	100% (Less $15 Matriculation Fee)
1st class day through 3rd class day	80%
4th class day through 6th class day	50%
Thereafter	No refund

Refund Schedule For Terms Up To 5 Weeks

Date	Refund
Before the 1st class day	100% (Less $15 Matriculation Fee)
1st class day	80%
2nd class day	50%
3rd class day and thereafter	No refund

NOTE: Class days are University class days, not the number of days an individual class meets. Class days are to be counted from the first class meeting of on-campus daytime courses as indicated in the Academic Calendar.

The above refund schedules assume all fees have been paid in full. A different schedule applies to the installment payment plan participants, the primary difference in the schedule being the requirement for the University to compute the refund based on the assumption that the full amount of tuition and fees has been collected. Therefore, it is possible and probable, that a student in the installment plan could owe **more** in tuition and fees than already collected by the University. These extra amounts, if any, would be due and payable before the student would be allowed to resign from the University.

Students who receive Title IV aid and resign on or before completing 60% of the semester will be required to repay the percentage of unearned financial aid according to the federal “Return to Title IV Aid” formula derived from the 1998 Reauthorization of the Higher Education Act.

Repayments are to be returned to lenders and/or program accounts in the following statutorily specified order provided the student has received funds through the program:

1. Unsubsidized Federal Stafford Loan
2. Subsidized Federal Stafford Loan
3. Federal Perkins Loans
4. Federal PLUS Loans
5. Other federal, state, private or institutional sources of aid
6. The student

More details regarding the “Return to Title IV Aid” policy may be obtained through the Financial Aid website or from the Financial Aid Office.

Tuition Rebates for Certain Undergraduate Students

A tuition rebate program was created by Senate Bill 1907, 75th Texas Legislature, and is authorized by Section 54.0065 of the Texas Education Code.

The purpose of this program is to provide tuition rebates that will provide a financial incentive for students to prepare for university studies while completing their high school work, avail themselves of academic counseling, make early career decisions, and complete their baccalaureate studies with as few extraneous courses as possible. Minimizing the number of courses taken by students results in financial savings to students, parents, and the state.

Students are required to apply for the rebate prior to receiving their baccalaureate degrees. Applications are available online through the Registrar’s homepage. For further details regarding eligibility, please visit www.shsu.edu/~reg_www/ (http://www.shsu.edu/%7Ereg_www).

Financial Aid & Scholarships Office

- Financial Aid and Scholarships Office
- Semester Loans
- Resignations/Withdrawals
- Satisfactory Academic Progress
- Veteran's Benefits Assistance
- American Opportunity Tax Credit and Lifetime Learning Tax Credit

Financial Aid and Scholarships Office

The Financial Aid and Scholarships Office at Sam Houston State University is available to assist students in achieving educational goals even when their personal or family finances are limited. While the student and/or his or her immediate family are primarily responsible for financing an education, the University recognizes its role in making a maximum effort to acquire additional funds for qualified students through a variety of aid programs. Specific financial aid programs the University administers are listed below.

Information on programs, application requirements, Satisfactory Academic Progress (SAP), student budgets, deadlines and the method of aid processing is available online at www.shsu.edu/fao (http://www.shsu.edu/fao). Links to the Free Application for Federal Student Aid (FAFSA) and all forms necessary to complete the application process are available at www.shsu.edu/fao (http://www.shsu.edu/fao).

Grants

- Federal Pell Grant
- Federal Supplemental Educational Opportunity Grant (SEOG)
- Texas Public Educational Grant (TPEG)
- **T**oward **EX**cellence, **A**ccess and **S**uccess Grant (TEXAS grant)
- Teacher Education Assistance for College and Higher Education Grant (TEACH)
- Bearkat Grant

Employment

Employment opportunities can be accessed online through Jobs for Kats (https://www.myinterfase.com/shsu/Account/LogOn?ReturnUrl=/shsu/student) on the Career Services (http://www.shsu.edu/dept/career-services) website.

- Federal College Work-Study Program
- Texas College Work-Study Program

Loans

- College Access Loan
- Federal Direct Loan Program
- Parent Loan for Undergraduate Students (PLUS)

Employment opportunities can be accessed online through Jobs for Kats (https://www.myinterfase.com/shsu/Account/LogOn?ReturnUrl=/shsu/student) on the Career Services (http://www.shsu.edu/dept/career-services) website.

Semester Loans

- Emergency Tuition and Fees Loan
- Short-term Loan for Books

Applications for Semester Loans may be completed on-line through the Financial Aid menu option on SamWeb (https://login.shsu.edu/sghe-cas/login?service=http%3A%2F%2Fsamweb.shsu.edu%2F). Semester loans are short term loans with a maximum loan period of 90 days.

Scholarships

Sam Houston State University offers scholarships for students who excel in academic achievement and leadership. Using a competitive process, awards are based on either merit or financial need. Some awards are competitively selected on the basis of both merit and financial need.

To review a more comprehensive list, please visit the Financial Aid (http://www.shsu.edu/dept/financial-aid) and Scholarships Office (http://www.shsu.edu/dept/financial-aid) website and highlight “Scholarships.”

Most academic scholarships offered by SHSU can be applied for using a single application. which can be found on the Scholarships website: Scholarships4Kats (http://www.shsu.edu/dept/financial-aid/scholarships). The application period begins early September for each upcoming academic year. Students must be admitted to Sam Houston State University and have an active computer services account.

Resignations/Withdrawals

Students who receive Title IV financial aid and withdraw or drop all courses during the semester must be aware of the impact on their financial aid. Federal Title IV aid includes Pell Grant, Supplemental Educational Opportunity Grant, and Subsidized/Unsubsidized Stafford Loans. It is recommended that students visit with their Financial Aid Counselor prior to withdrawing or dropping courses.

Title IV aid recipients must be continuously enrolled for at least 60% of the semester for which aid is disbursed to retain all of the financial assistance issued for that semester. After the 60% point, students are considered to have earned 100% of the Title IV funds disbursed. Any student who resigns prior to completing 60% of a semester must repay any unearned portion of their federal financial aid.

The amount of the repayment depends on the number of days attended during the semester, the type and amount of financial aid received and the total amount of institutional charges.

Earned federal financial aid is prorated according to the percentage of the semester completed. The earned aid is determined by the amount of total aid received minus the amount of unearned aid.

- Direct Unsubsidized Loan
- Direct Subsidized Loan
- Direct PLUS Loan (Parent Loan for Dependent Students)
- Direct GRAD PLUS Loan (Graduate Student)
- Pell Grant
- Federal Supplemental Educational Opportunity Grant (FSEOG)
- TEACH Grant

Satisfactory Academic Progress (SAP)

Different requirements apply to maintain Satisfactory Academic Progress (SAP).

Minimum requirements for undergraduate students are:

- A minimum SHSU grade point average (GPA) of 2.0
- Complete 67% of all attempted hours at SHSU and other institutions (transfer hours)
- Degree seeking
- No more than 180 attempted hours

Minimum requirements for post-graduate students seeking a second bachelor's degree, enrolled in a certification program, or taking preparatory course work are:

- A minimum SHSU grade point average (GPA) of 2.0
- Complete 67% of attempted hours in new coursework.
- Completion of second bachelor's degree or certification program within 60 hours
- Completion of preparatory course work within twelve consecutive months

Minimum requirements for graduate and professional students are:

- A minimum SHSU grade point average (GPA) of 3.0.
- Complete 67% of attempted hours in course work
- No more than 150% of degree requirements (Ex: 54 hours for a 36 hour degree)

If minimum requirements are not met student will not be eligible for financial aid. For more information on how to regain eligibility view the complete SAP Policy online at http://www.shsu.edu/fao.

Veteran's Benefits Assistance

For information relating to Veteran's Benefits Assistance, visit with the VA representative in the Veteran's Resource Center, located in the Estill Building, Room 104. Assistance is available for those seeking to use the following:

- Montgomery GI Bill (MGIB)
- Chapter 30 - Veteran status
- Chapter 31 - Vocational Rehabilitation
- Chapter 33 — Post 9/11 GI Bill
- Chapter 35 - Dependent
- Chapter 1606 — Reservist

- Chapter 1607 Activated Reservist
- Hazelwood Act

American Opportunity Tax Credit and Lifetime Learning Tax Credit

Tax payers may be eligible to claim the American Opportunity Tax Credit against their federal income taxes. Depending on the family and student financial situation, the credit that may be claimed varies. It may be as much as $2,500 (100% of first $2,000 and 25% of second $2,000 of qualified tuition and related expenses such as tuition, fees and course materials).

In addition, the Lifetime Learning Credit may be available for up to $2,000 per family for qualified tuition and related expenses. Congress has established that the Lifetime Learning Tax Credit begins for payments made after July 1, 1998.

These tax credits may reduce the amount of federal income tax one is required to pay. These tax credits are reviewed by the federal government periodically, therefore, annual referral to the IRS website is recommended.

SUPPORT SERVICES

- Academic Success Center
- Advising (Student Advising and Mentoring Center)
- English Language Institute
- Institutional Effectiveness
- IT@SAM
- Library, Newton Gresham
- Mathematics Tutoring Center
- Reading Center
- SHSU Online
- Testing Center

- Alumni Relations and Development
- Athletics
- Bearkat OneCard Services
- Career Services
- Continuing Education
- Counseling Center
- Dean of Students' Office
- Health Center
- International Programs
- James and Nancy Gaertner Performing Arts Center
- Lowman Student Center
- Museum, Sam Houston Memorial
- Press & Copy Center, Sam Houston
- Public Safety Services, University Police, and Parking & Transportation Office
- Recreational Sports
- Residence Life
- Services for Students with Disabili
- Students' Legal & Mediation Services
- Student Money Management Center
- Student Services, Division of
- Veterans Resource Center
- Visitor Services

Student Support Services

- Alumni Relations and Development
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- Student Money Management Center
- Students' Legal & Mediation Services
- Student Services, Division of
- Veterans Resource Center
- Visitor Services

Alumni Relations and Development

The SHSU Alumni Association exists to support and promote the University and represent the interest of over 130,000 alumni and friends. The alumni program is an important part of an integrated advancement effort to communicate with graduates and former students and engage them with the university.

Located in the John R. Ragsdale Visitor & Alumni Center, the role of Alumni Relations has expanded significantly, becoming an integral part of the University campus community while serving as a bridge to both local and national communities. The Alumni Association's programs and activities are developed and planned in consultation with an alumni board of directors.

The Association sponsors Distinguished Alumni, Young Alumni and Service Awards, the Life Member Celebration, Founders Day, Homecoming, tailgate parties, regional alumni clubs and gatherings, newsletters, scholarships, student programs, and the official university class ring program. It provides opportunities for alumni to participate in community service projects, raising scholarship funds, legislative advocacy, and joining with other graduates in alumni activities across the country.

The University must increasingly rely on private giving from its alumni, friends, corporations, and foundations to close the gap between what tuition, fees and state support provide and what is essential to offer programs of quality. The Annual Fund is an ongoing program to secure recurring contributions from alumni and friends. More than 11,000 alumni and other friends contribute to the University's scholarships, colleges, departments, and other programs.

Donors may make a gift using a credit card by going online to http://www.shsu.edu/dept/university-advancement/giving.html. Alumni Association membership is open to all graduates, former students, parents, faculty, staff, and friends of Sam Houston State. For additional information, please call (936) 294-1841 or visit Alumni Association (http://www.shsu.edu/dept/university-advancement). For information about providing support for the University through an annual, major, or planned gift, please contact

University Advancement
Box 2537
Huntsville, TX 77341-2537
(936) 294-3625

Athletics

Competing at a high level in 17 NCAA Division I sports, Sam Houston State University brings the fun and excitement of intercollegiate athletics to the Huntsville campus.

The Bearkats have become a fixture on national television sports networks including ESPN, ESPN2, ESPN3, CBS Fox Sports and Comcast.

Sam Houston competes as a member of the Southland Conference. The Bearkats have won 46 league championships since joining the league in 1988. The Kats have represented the league in NCAA Division I post-season play 28 times. Recent successes have included five consecutive appearances in the NCAA Division I Football Championship semifinals. Sam Houston played in the football championship finals in 2011 and 2012.

The Bearkat women's bowling team brought Sam Houston its first NCAA Division I national championship with a victory over Nebraska in 2014. The baseball team has earned NCAA regional playoff berths three of the last four years.

With 32 Southland Conference championships since 2000, Sam Houston stands as the only team in league history to win SLC Commissioner's Cup trophies three years in a row and is the only current member to earn the league's all-sports title five times. The trophy is awarded annually to the overall athletic program ranked as the best in the league.

The Bearkats play a nationally competitive schedule in all sports with games against top teams from the Big 12 and SEC including Texas A&M, Baylor, Texas, LSU and Arkansas.

Each of the past six seasons, Sam Houston and Stephen F. Austin have played their annual "Battle of the Piney Woods" rivalry game at NRG Stadium in Houston, putting more than 25,000 fans in the seats at the NFL Texans' venue annually.

Men's intercollegiate sports at Sam Houston include baseball, basketball, cross country, football, golf, indoor track and field and outdoor track and field. Women's sports are basketball, bowling, cross country, golf, indoor track and field, outdoor track and field, soccer, softball, tennis and volleyball.

Sam Houston student-athletes are just as successful in the class room as on the playing field. The overall grade point average for the more than 400 Bearkat student-athletes annually is a mark higher than the general student population at the university. Seven of the last eight semesters, the department's GPA has been 3.0 or higher including a record 3.22 GPA in the fall semester of 2015.

Bearkats have been recognized as the outstanding student-athlete in their individual sports by receiving the Southland "Student-Athlete of the Year" award 23 times in the past nine years.

Sam Houston boasts one of the finest athletic complexes in the Southwest. Home athletic events are held at Elliott T. Bowers Stadium (football), Bernard G. Johnson Coliseum (basketball, volleyball), Don Sanders Stadium (baseball), Bearkat Softball Complex (softball), Meredith and Miriam York Track and Field Center (track and field), McAdams Tennis Center (tennis), Joseph Pritchett Field (soccer) and the Ron Randleman Strength and Fitness Center.

Recent additions to the athletic facilities include state-of-the-art video/scoreboards at football, basketball, volleyball, baseball and softball games. Each of the athletic venues is located on campus within walking distance of any of the residence halls.

Sam Houston students are admitted to all home regular season athletic events on presentation of a current and valid Bearkat OneCard. Simply swipe your Bearkat OneCard at the designated student gates the day of the event for admission. Bearkat OneCards must be active and you must be currently enrolled.

News, schedules, ticket information and opportunities to watch live video of Bearkat sports events are available at SHSU Athletic (http://www.gobearkats.com.).

Bearkat OneCard Services

The Bearkat OneCard is the official ID card of Sam Houston State University. The OneCard is an all-in-one student ID which has been designed to be an efficient, multi-purpose card. It provides students easy access to University facilities and services. To ensure campus security, it is required that all students obtain and activate a Bearkat OneCard for campus identification.

The Bearkat OneCard is required for:

- Meal Plans
- Bearkat Bucks (on-campus dining dollars)
- Assigned Residence Hall
- Entrance to Athletic Events
- University Sponsored Functions
- Recreational Sports Facility
- Kat Klub
- Newton Gresham Library Services
- Managing Refund Preferences
- Managing Student Payroll Preferences
- Raven's Nest Golf Course
- University Health Center Services

- Bursar's Office
- Financial Aid Office
- SAM Center (Student Advising)
- Career Services
- Campus Departmental Identification

To obtain a Bearkat OneCard students MUST:

- Have a photo taken in the Bearkat OneCard Office or request your OneCard online at www.shsu.edu/onecard (http://www.shsu.edu/onecard). It is mandatory to present a valid state or government issued photo ID in order to request a Bearkat OneCard.
- Have a valid and current address on file with the University.
- Be currently registered for classes.

Once these steps have been completed, the Bearkat OneCard will be mailed to the current address on file with the University. Upon receipt, the OneCard must be activated at www.BearkatOne.com (http://www.bearkatone.com) for on-campus usage. Students will also select a refund and payroll preference when activating their OneCard online. Students have the following options for receiving refunds and payroll:

- Electronic deposit to an existing checking or savings account
- Electronic deposit to the VibeAccount

Note – Refund and Payroll preferences may be different.

The VibeAccount is an optional, non-interest bearing, internet-only, FDIC-insured checking account linked to the Bearkat OneCard. The VibeAccount has no minimum balance requirements and no monthly fee for students. The Bearkat OneCard can be used as a DEBIT Mastercard if the VibeAccount is opened and funds are deposited into the account. Students may choose to open the VibeAccount when activating their OneCard; however, students are not required to open this optional account.

The Bearkat OneCard Services staff provides assistance in taking ID photos, activating cards, and providing information related to student refund and payroll disbursements. The Bearkat OneCard office also provides passport photos to all faculty, staff, and students free of charge. For more information, please visit our office in the Estill Building, Suite 230, contact us by phone at (936) 294-2273, or visit Bearkat OneCard Services.

Career Services

The Career Services staff assists students and graduates of Sam Houston State University in their search for employment appropriate to their interests, skills, academic preparation, and personal aspirations. Opportunities and resources are provided to assist students in learning and implementing the life-long process of career exploration, career choice and ultimately, obtaining rewarding employment.

Specific services include:

- Career Assessments
- Career Counseling
- JOBS for KATS (Student Employment Opportunities, Internship, Part-time and Full-time Job Postings, Resume Referrals, Resume Creator and InterviewStream®)
- Resume and Cover Letter Writing Assistance
- Mock Interviews
- Career/Employer Information Resources and Computer Lab
- Career-Related Workshops
- Employer Networking and Information Sessions/Panels
- Campus Interviews with Company Recruiters
- Career Fairs

The Career Services office sponsors special events such as the annual Junior/Senior Etiquette Dinner and numerous job fairs such as the Career and Internship Fair held each fall semester, the Teacher Career Fair (fall and spring semesters), the Summer Camp Job Fair, the Agricultural Sciences and Engineering Technology Career Fair, and the Criminal Justice Career Fair. As a member school in the Houston Area Consortium of Career Centers, SHSU Career Services also participates in the Texas Job Fair which attracts a large number of Houston-area employers each spring.

The Career Services department provides free career-related resources such as career magazines, brochures, literature from employers, and informational hand-outs. Career Services is open from 8:00 a.m. to 5:00 p.m., Monday through Friday and is located in the AB4 Building, Suite 210. Career Services has an office at The Woodlands Center in the Student Services Center to assist students with their career-related needs at that location. We also provide a full array of services to alumni and to SHSU Online students. Further information may be obtained by calling (936) 294-1713, emailing careerservices@shsu.edu, or by visiting Career Services (http://www.shsu.edu/dept/career-services).

Student Employment

On-campus Work Study and Non-Work Study jobs are posted on Career Services' JOBS for KATS (https://www.myinterfase.com/shsu/Account/LogOn?ReturnUrl=/shsu/student). Additional information about student employment opportunities may be obtained by visiting Career Services (http://www.shsu.edu/dept/career-services), located in the AB4 Building, Suite 210, emailing careerservices@shsu.edu, or by calling (936) 294-1713. Career Services is open from 8:00 a.m. to 5:00 p.m., Monday through Friday.

Continuing Education

Counseling Center

Counseling Services

The Counseling Center provides a variety of services to enhance student learning and assists students in achieving their academic goals. The Center is staffed by psychologists, post-doctoral residents, and graduate trainees who provide a confidential setting where students can freely discuss their concerns. The typical range of services provided includes individual counseling, group counseling, couples counseling, consultation, and outreach/preventive education presentations. Staff members are available to assist students in crisis situations on short notice. Common issues that bring students to the Counseling Center include adjustment problems, anxiety, depression, relationship difficulties, self-esteem, stress management, and many others. Services are also available for international students who may request assistance in adjusting to life at an American university. In addition to individual counseling, the Counseling Center offers a number of therapy and support groups including Understanding Self and Others, Mindfulness, LGBT Support Group, Guy's Group, Sister to Sister, Survivors of Sexual Assault Support Group, and Coping Skills. All of the services the Counseling Center provides are free and confidential.

The Counseling Center is located on the second floor of the Powell Student Health and Counseling Center, conveniently located next to Old Main Market. To make an appointment, visit or call (936) 294-1720. The Counseling Center is open Monday through Friday between 8:00 a.m. and 5:00 p.m., with additional evening hours during the Fall and Spring semesters. For more information, visit the Counseling Center's wesite (http://www.shsu.edu/dept/counseling).

Dean of Students' Office

Through leadership, programs, and policy development, the Dean of Students' Office contributes to the overall intellectual, social, and personal development of the students. The Dean of Students' Office represents student needs to the University administration, faculty, and departments and also transmits needs of these groups to the students. This Office assists students who have questions about any phase of campus life. In an effort to promote individual group development of students, the office co-sponsors educational programs and leadership development workshops.

The professional staff is responsible for the administration of a number of policies and procedures found in Student Guidelines, the student handbook. These include student conduct and judicial processes and certain provisions of the Family Rights and Privacy Act.

In addition, the Office is responsible for Who's Who Among Students in American Universities and Colleges; the Freshman Leadership Program; Orange Keys Program; The Raven's Call; University Parking Appeals; Alpha Lambda Delta, a freshman Honor society; The Parent Relations Office; advising the Parents' Association; Bearkat Family Weekend; advising the Student Government Association; the Students of Concern Team; The University Crisis Team; The Online Mentoring and Guidance (OMG) Program; and Greek Life.

The Dean of Students' Office (http://www.shsu.edu/dept/dean-of-students) is located in the Lowman Student Center Suite #215, telephone (936) 294-1785. Office hours are 8:00 a.m. to 5:00 p.m., Monday through Friday. Other times may be scheduled by appointment.

General Conduct And Campus Regulations

It is expected that all Sam Houston State University students are on campus for serious educational pursuits and that they will conduct themselves so as to preserve an appropriate atmosphere of learning. It is also expected that all students who enroll at Sam Houston State University agree to assume the responsibilities of citizenship in the campus community. While enrolled, students are subject to University authority, which includes the prerogative of dismissing those whose conduct, is not within the aims and policies of the University. Students are responsible for abiding by all published University rules and regulations as printed in this catalog; in the student handbook, The Student Guidelines; and in other official University publications. Failure to read these publications will not excuse the student from the requirements and regulations described therein. In addition, students should be familiar with House Bill 141 of the 61st Legislature on Disruptive Activities and Senate Bill 24 of the 70th Legislature on Hazing, extracts of which can be found in Student Guidelines.

Student Government Association

The Student Government Association exists for the sole purpose of serving the student community. It is the political voice and liaison for the student body. The University recognizes the need and worthwhile contribution of student input in all facets of the University decision-making processes. The Student Government Association has long been active in this regard and has worked for the betterment of student life and academic quality. The student body participates in the development and management of a well-rounded program of student activities by electing the Student Government Association officers and Student Senators.

Open meetings are conducted each Tuesday night. Students are encouraged to participate in their student government. Copies of the Student Government Association constitution and other information may be obtained from the Student Government Association Office (http://www.shsu.edu/~org_sga), which is located in the Lowman Student Center Suite #326. Please call (936) 294-1978

Health Center

The Student Health Center, located at the corner of Avenue J and Bearkat Boulevard, provides comprehensive routine health services and education to currently enrolled students. The Health Center is open 8:00 a.m. to 6:00 p.m., Monday through Thursday, and 8:00 a.m. to 5:00 p.m. on Fridays during the fall and spring semesters. The Center is open 8:00 a.m. to 5:00 p.m., Monday through Friday, during the summer. The Health Center sees patients by appointment.

The Health Center is equipped with an in-house dental clinic, travel and immunization nursing clinic, women's health center, pharmacy, and laboratory providing convenient and affordable access to routine healthcare services.

The cost of office visits are covered by the Medical Service Fee paid at the time of registration. Fees are charged for laboratory tests, prescription drugs, and certain procedures. These charges are placed on the student's bursar account and are expected to be paid once posted. However, these charges are at discount rates that are often below the market rate.

In addition to medical services, the Health Center offers health education, prevention programs, and general health information. Students with questions about any health issue are encouraged to contact the Health Center.

The Health Center prides itself in its accreditation by the Accreditation Association for Ambulatory Health Care (AAAHC). Accreditation means that the department's operations meet or exceed rigorous standards of quality.

In the case of on-campus medical emergencies, Emergency Medical Services (EMS) should be called. Persons experiencing a serious or potentially life threatening medical condition should seek medical attention at Huntsville Memorial Hospital.

Information regarding student health insurance is available through the Health Center. The student policy is mandatory for international students. Please visit the Health Center (http://www.shsu.edu/dept/student-health-center) or call (936) 294-1805 to set up an appointment. For dental clinic inquiries, contact (936) 207-8472.

International Programs

The Office of International Programs (OIP) promotes and coordinates international activities at Sam Houston State University, including the recruitment and retention of international students and study and travel abroad of SHSU faculty and students. OIP is the primary contact for international students at the University, and the staff provides assistance and information to international visitors.

Active in the recruitment of international students and scholars to the University, the OIP staff assists with immigration rules and regulations for international students and scholars. This office also provides various support services for international students such as initial airport pick-up, cultural events, and activities-both on campus and off campus. SHSU has a large and active International Student Organization with both international and domestic student members.

Sam Houston State University offers opportunities for study on exchange programs and faculty-led programs in numerous countries across the globe. In addition, the university is affiliated with 6 of the country's top Study Abroad providers, allowing students to participate in a wide variety of study abroad programs while utilizing their financial aid. Scholarships are available for those who qualify.

Visit or call the Office of International Programs (http://www.shsu.edu/dept/international-programs) in Farrington Building, Room 116, telephone (936) 294-4737.

Mail address:
International Programs
1908 Avenue J (SHSU Box 2150)
Sam Houston State University
Huntsville, TX 77341-2150

James and Nancy Gaertner Performing Arts Center

Opened in fall 2010, the Gaertner Performing Arts Center is a showcase for artistic talent and creative works, serving the community and the region. It serves as a world-class academic facility for students in The College of Fine Arts & Mass Communication.

James and Nancy Gaertner Performing Arts Center Features

- 800-seat concert hall
- 175-seat Recital hall
- 150-seat dance theatre
- Outdoor performance space

- Dance studios
- Practice rooms
- Dressing rooms
- Audition areas
- Scene shop for set construction
- Costume shop
- More than 90,000 square feet of total space

Public Art in the James and Nancy Gaertner Performing Arts Center

The central lobby of the Gaertner Performing Arts Center showcases original public art by internationally known artists and sculptors. Seven installations were commissioned for the building by Joe Akers, Kathleen Ash, Rebecca Finley, Jason Lawson, Jesús Morales and Tim Prentice and Charles Pebworth.

Events in the James and Nancy Gaertner Performing Arts Center

The extensive events calendar for this spectacular performance space and for the College of Fine Arts & Mass Communication in general can be accessed at College of Fine Arts & Mass Communication (http://www.shsu.edu/academics/fine-arts-and-mass-communication).

Mailing Address:
College of Fine Arts and Mass Communication
Sam Houston State University
PO Box 2209
Huntsville, TX 77341

Physical Address:
James and Nancy Gaertner Performing Arts Center
College of Fine Arts and Mass Communication
1900 Avenue I; Suite 200
Huntsville, TX 77340

Lowman Student Center

Lowman Student Center

The Lowman Student Center (LSC) proudly serves as your "Living Room on Campus." Students, faculty, staff, administrators, alumni, and guests frequent the LSC daily. The LSC is committed to providing the university with services, conveniences, and amenities in an engaging and innovative environment.

Contact Information

LSC Office Main Number: 936.294.1759

LSC Information Center: 936.294.4902

LSC KatKlub Game Room: 936.294.3462

LSC Twitter: @LSC_SHSU

LSC Facebook: @SHSULSC

LSC Office email: lsc_www@shsu.edu (lsc_www@shsu.edu)

LSC operational hours may be found on the Lowman Student Center (http://www.shsu.edu/dept/lowman-student-center/hours.html) website.

Services

The LSC is home to the KatKlub Game Room, University Bookstore, and Paw Print Food Court. Access to ATMs are available on the first and second floors. Current LSC information can be found by visiting the Information Center on the second floor.

The LSC houses many departments and offices such as the Vice President for Student Affairs and the Dean of Students. For a complete list, please visit the LSC Offices and Services (http://www.shsu.edu/dept/lowman-student-center/services/offices.html) website.

Spaces

The LSC is a 125,000 sq. ft. facility, supported by state-of-the-art theatrical lighting and audio/video systems, that hosts events in the following spaces:

- **Ballroom** (8000 sq. ft.) suitable for banquets, dances, concerts, conferences, and other large event gatherings.
- **Theater** space providing seating for 360 (plus 6 ADA) and is ideal for lectures, video presentations, seminars, educational, and entertainment programs.
- **Conference Rooms** of varying sizes that can accommodate groups ranging from 12 to 200 people.
- **Student Art Gallery**, the only one of its kind on campus, offers SHSU students a 20' x 46' space to exhibit their work; including photographs, graphics, paintings, sculpture, ceramics, animations and mixed media.
- **KatKlub Game Room** offers billiards, table tennis, video games, and several TV screens in a fun, friendly environment where students, faculty, staff, and guests can gather. Join us in the KatKlub for relaxing, lounging, and gaming with friends!
- **Mother's Room** which features lockers for individual use, comfortable seating, hot and cold water, a baby changing station, cleaning supplies, dimmable lights, electrical outlets, a mini refrigerator for milk storage, wall decorations, and a secure, lockable door.

Museum, Sam Houston Memorial

The Sam Houston Memorial Museum, established in 1936 as a Texas centennial project, is an integral part of Sam Houston State University and is dedicated to preserving the memory of General Sam Houston (1793-1863). A soldier, statesman and politician, the only man to serve as governor of two states and president of an independent republic, Sam Houston led the fight for Texas' independence and then served Texas as President, U.S. Senator, and Governor. Located on fifteen acres, the museum complex preserves three fully furnished original Houston buildings - Woodland Home, Steamboat House, and Law Office - as well as a kitchen, blacksmith shop, and Guerrant, Roberts-Farris and Bear Bend log cabins.

The Memorial Museum Building houses the major collection of Houston memorabilia and exhibits. The Katy & E. Don Walker, Sr. Education Center is named for a distinguished alumnus of Sam Houston State University and his wife, and provides auditorium, classroom, and meeting spaces, including the W. S. Gibbs Conference Hall, as well as a gallery for traveling exhibits. The 'Wigwam Neosho,' the museum store and gift shop, is housed in a large log building on the Museum grounds. The museum offers many educational opportunities for Sam Houston State University students. These include semester- and year-long internships, with both undergraduate and graduate exploring a variety of museum study options. We also provide several part-time student jobs, tours, and research and writing programs using archives, manuscripts, and artifacts. Numerous lectures, symposia, and workshops are offered throughout the year, many carrying academic credit. Classes as diverse as history, biology, political science, and art use the Museum and grounds as a laboratory, studio and classroom.

The Sam Houston Memorial Museum is accredited by the American Alliance of Museums. Accreditation certifies that a museum operates according to standards set forth by the museum profession, manages its collections responsibly and provides quality services of museum visitors.

The museum complex is located at the corner of Sam Houston Avenue and 19th Street and can be reached by calling (936) 294-1832 or by visiting Sam Houston Memorial Museum (http://samhoustonmemorialmuseum.com).

Press & Copy Center, Sam Houston

Sam Houston Press & Copy Center is the University's in-house printing and copying facility. Copying, binding, faxing, and printing services are offered to students, student organizations, faculty, and departments at Sam Houston State University.

Sam Houston Press & Copy Center (http://www.shsu.edu/dept/press) is located at 1831 University Ave, on the first floor of the Thomason Building. The facility is open from 8:00 a.m. to 5:00 p.m., Monday through Friday. For information or to arrange an appointment for placing an order, please, call (936) 294-1856.

Public Safety Services, University Police, and Parking & Transportation Office

University Police Officers

University Police Officers are licensed peace officers as defined under the laws of the State of Texas and thereby have the authority of peace officers. Their primary jurisdiction, under H.B. 391, includes all counties in which property is owned, leased, rented, or otherwise under the control of Sam Houston State University.

The University Police Officers subscribe to the Law Enforcement Code of Ethics, a portion of which reads, "As a law enforcement officer, my fundamental duty is to serve mankind; to safeguard lives and property; to protect the innocent against deception, the weak against oppression or intimidation, and the peaceful against violence or disorder; and to respect the Constitutional rights of all citizens to liberty, equality, and justice." In this endeavor, the University Police earnestly solicit the support of the faculty/staff and students. Many officers are students thus providing a balance within Public Safety Services from a student's perspective.

In addition to University regulations, all the general and criminal laws of the State and the United States are declared to be in full force and effect within the properties of Sam Houston State University. All persons are responsible for compliance with these laws.

All thefts, vehicle accidents, or other offenses that occur on campus should be reported immediately to the University Police. The Charles W. Tackett University Police Building is located at 2424 Sam Houston Avenue (Sam South Complex) —Telephone Number (936) 294-1800. Police Officers are on duty 24 hours every day. The business office hours are 7:30 a.m. until 4:30 p.m., Monday - Friday.

Campus Safety. Sam Houston State University offers a variety of services to promote a safe campus environment. The campus is equipped with emergency call boxes stationed at strategic locations throughout the campus to include parking lots, walkways, and residence halls. Additionally, the University Police provide staff to escort students not wishing to walk alone at night to and from campus buildings and parking lots. Students wishing to learn more about personal safety and self defense may take advantage of programs offered by the University Police Department. For more information, call (936) 294-1800 (Emergency 936-294-1000).

Emergency Management

The campus Emergency Management disseminates critical emergency response information that includes text messages, voice calls, emails, desktop alerts, social media messaging, and loudspeaker announcements. For preparedness, the campus maintains an emergency preparedness website and a cell phone/tablet application with essential training information in checklist form and situational videos for the campus community to include access for visitors on campus. This information is available at KatSafe.

Parking & Transportation

Parking. Students, full - or part-time, who operate or expect to operate a motor vehicle, motor cycle, or motor-assisted cycle on University property, regularly or occasionally, are REQUIRED to register the vehicle with the Department of Public Safety Services and obtain an electronic parking permission assigning a designated area of parking. The University reserves the right to require proof of ownership of the vehicle being registered. Parking and Traffic Regulations and Information governing the operation of motor vehicles is issued via internet hyperlink at the time of the electronic parking permission purchase and is available for download or view from www.shsu.edu/parking (http://www.shsu.edu/parking) . Failure to read the regulations is not an excuse for failure to comply with the university parking rules and regulations. Vehicles found in violation are subject to applicable fines as well as tow and impound.

Recreational Sports

The Mission of the Department of Recreational Sports is to advance and enrich the collegiate experience. The friendships, leadership, and well-being skills established through involvement in sport and recreation can be some of the most valuable parts of the college experience. Studies have even shown that students who participate in campus recreation often have better grades.

Facilities

Facilities managed by the Department of Recreational Sports include:

- Recreational Sports Center (RSC) (http://www.shsu.edu/dept/recreational-sports/facilities/facilities.html)
- Health and Kinesiology Center (HKC) (http://www.shsu.edu/dept/recreational-sports/facilities/facilities.html)
- Johnson Coliseum (http://www.shsu.edu/dept/recreational-sports/facilities/bernard-g.-johnson-coliseum.html)
- McAdams Tennis Complex (http://www.shsu.edu/dept/recreational-sports/facilities/facilities.html)
- Pritchett Field Sports Complex (http://www.shsu.edu/dept/recreational-sports/facilities/facilities.html)
- Holleman Field Sports Complex (http://www.shsu.edu/dept/recreational-sports/facilities/facilities.html)
- Intramural Sports Fields (http://www.shsu.edu/dept/recreational-sports/facilities/facilities.html)
- Sand Volleyball Courts (http://www.shsu.edu/dept/recreational-sports/facilities/facilities.html)
- University Camp. (http://www.shsu.edu/dept/recreational-sports/facilities/university-camp/camp-facilities.html)

The RSC houses a 34' climbing wall with bouldering area, a 10,000 square-foot weight room with a cardio area, several multipurpose and fitness rooms, as well as an outdoor heated swimming pool. The HKC is shared with the Health and Kinesiology academic program and offers four basketball courts, two multi-purpose rooms, an 1/8-mile indoor running track, nine racquetball courts, functional training area, and a supplemental weight room. Adjacent to the RSC/HKC are the three Intramural Sports Fields and Sand Volleyball courts. These are utilized for Intramurals, Informal Recreation, and Special Events. Just up the road is the McAdams Tennis Complex, an outdoor tennis venue with eight tennis courts. Johnson Coliseum, located directly across from the RSC and HKC, seats over 6,000 people and hosts many large-scale events each year. Sammypalooza, the SHSU Kat Comedy Showcase, SHSU Varsity Basketball and SHSU Volleyball are just some of the events you can attend there. The Pritchett Field Sports Complex, home to our Recreational Sports Clubs, includes two athletic fields (one grass and one turf) and an outdoor running track.

The University Camp (http://www.shsu.edu/dept/recreational-sports/facilities/university-camp/camp-facilities.html) is a one-of-a-kind recreation and retreat facility located 15 minutes northeast of campus. Booked through reservation only, members of the SHSU community can spend a day canoeing on the water, fishing, hiking, biking, challenging themselves on the low or high-ropes courses, hosting a gathering in the dining hall, or just enjoying a picnic by the lake.

Programming

As a student, you will enjoy the Informal Recreation (http://www.shsu.edu/dept/recreational-sports) program by participating in self-directed activities such as drop-in basketball, weight-lifting, cardio, racquetball, or swimming. The Aquatics & Safety (http://www.shsu.edu/dept/recreational-sports/programs/aquatics-and-safety/aquatics-and-safety.html) program offers lifeguard and CPR classes, coached lap swim programs, and other events. The seasonally heated pool has four 25-yard lap lanes and a leisure area which can be used for water sports or merely relaxing in the sun. The Fitness Program (http://www.shsu.edu/dept/recreational-sports/programs/fitness/fitness.html) offers comprehensive wellness programming for the

Bearkat community. Programs include group fitness classes, yoga, personal training, nutrition and meal planning consultations, and more. Instructor Training and development is also available. The Intramural Sports (http://www.shsu.edu/dept/recreational-sports/programs/intramural-sports/intramural-sports.html) program offers a variety of team, dual, and individual activities with both competitive and recreational divisions. The Club Sports (http://www.shsu.edu/dept/recreational-sports/programs/club-sports/club-sports.html) program consists of recognized student organizations established to promote and develop common sport- and/or recreation-related interests. Each of our 18 active clubs are organized, managed, and currently maintained by volunteer student leaders. Outdoor Recreation (http://www.shsu.edu/dept/recreational-sports/programs/outdoor-recreation/outdoor-recreation.html) is a multifaceted program consisting of six primary components; Trips, Workshops, the Climbing Center and bouldering area, equipment rental (tents, sleeping bags, kayaks, etc.), Bearkat Camp (http://www.shsu.edu/dept/recreational-sports/programs/bearkat-camp/bearkat-camp.html) (a four day, three night experience for incoming freshmen), and the 345-acre University Camp and retreat center. Special Events are hosted by Recreational Sports throughout the year. Past activities have included Sammypalooza (http://www.sammypalooza.com), a musical festival with multiple acts, RecFest, a fun atmosphere where you can learn all about Recreational Sports, as well as Demo Days, Sweat the Stress week, and Earth Day activities. The department also provides numerous employment opportunities for students who are interested in part-time work. Over 200 student positions (http://www.shsu.edu/dept/recreational-sports/documents/student_app.pdf) are filled annually in the areas of intramural officiating, facility supervision, aquatics, marketing, and fitness. Please refer to the Jobs for Kats (https://www.myinterfase.com/shsu/Account/LogOn?ReturnUrl=/shsu/student) website for current and complete list of student work opportunities. For more information about any of these Recreational Sports activities, please stop by the administrative offices located on the first floor of the Recreation Complex, call (936) 294-1985, or visit recsports.shsu.edu (http://www.shsu.edu/dept/recreational-sports).

Residence Life

The Department of Residence Life operates about twenty-five residence halls, including an apartment complex for upperclassmen. Upon acceptance to the University, all students who are required to live on-campus their first year will be mailed a housing brochure. This brochure provides many details of the residence life program at Sam Houston State University, including information regarding specific residence halls, applicable rates, and some policies. Students can also visit Residence Life (http://www.shsu.edu/%7Ehou_www) or call (936) 294-1812.

A person may not live in University housing unless enrolled in classes at SHSU for each particular semester.

Application for housing may be made via the website once the student has been accepted to SHSU. A deposit of $200 is required with the application for housing. Assignments are made on a space-available basis according to the date of deposit. The housing contract will be in effect and must be adhered to for the full academic year.

Should a student become unable to fulfill a reservation, a refund may be made under certain conditions. Please refer to the Housing Application/Contract Terms and Conditions for specific details regarding refunds which are determined by the date the cancellation is received. Students may pay for housing in full at registration or in an installment arrangement, in accordance with the policies set forth by the University Bursar.

University residence halls are closed during the academic breaks between semesters. Students who have a future reservation with SHSU may stay in the residence hall during these periods for an additional fee.

Bearkat Village Apartments

The University maintains two-bedroom, fully furnished apartments for upperclassmen. The apartments are located on Montgomery Road across from Bowers Stadium. All residents must be enrolled in the University.

First-year Students Required Housing And Meal Plan Policy

All students who have graduated from high school within the current or previous calendar year are required to reside in University housing and to purchase a meal plan for their first year, which will normally include the fall and spring semesters. For example, a May or June 2018 graduate will be required to reside on-campus Fall 2018 and Spring 2019 semesters. Anyone signing an academic year housing/meal plan contract will be required to fulfill the terms of that contract. Exceptions to the First-Year Required Housing and Meal Plan Policy may be made by the Department of Residence Life if:

1. residence in University housing will impose a significant hardship, financial or otherwise; or
2. the student is married and living with his/her spouse; or
3. the student commutes from the home of his/her parents, grandparents, or a brother or sister within a 60 mile radius from the SHSU campus; or
4. the student is a veteran of military service.

The student must provide documented evidence to warrant consideration for a waiver of this requirement. A denial of this request may be appealed to the Director for Residence Life Business Operations. Charges for both services will be added to the student's account until approval for the waiver is obtained. Any student who does not comply with the above policy will be subject to disciplinary action as specified by the Code of Student Conduct as published in *Student Guidelines*.

Dining Service for Residential Students

All students (regardless of classification) who reside in the residence halls will be required to purchase a University Resident Meal Plan (All Access, 20 Meals per Week, or 15 Meals per Week). All of these meal plans include "Bearkat Bucks," which can be used in lieu of cash at any food related

establishment on campus. Meal plan contracts are valid for the entire academic year. Rates and additional information are available from the Department of Residence Life. Students who reside in Bearkat Village Apartments will not be required to purchase a Resident meal plan.

Dining Service for Non-Residential Students

Students who do not reside on campus have the option to purchase any meal plan available (All Access, 20 Meals per Week, or 15 Meals per Week, 90 Meals per Semester, 60 Meals per Semester, or 30 Meals per Semester). All of these meal plans include "Bearkat Bucks," which can be used in lieu of cash at any food related establishment on campus. Meal plan contracts are valid for the entire academic year. Rates and additional information are available from the Department of Residence Life.

Bearkat Bucks

Bearkat Bucks, welcome at any ARAMARK managed campus dining facility, is a declining balance account in which a minimum of $25 is deposited, and the cash price of food purchases are deducted from the balance. Money deposited in a students' Bearkat Bucks can be used in lieu of cash at any food related establishment on campus. All purchases are non-refundable and any unused Bearkat Bucks will be lost at the completion of the 2nd summer session.

Summer Housing

The buildings that are open for summer school housing vary from year to year because of renovation and maintenance schedules. Assignments are made according to date of deposit.

Services for Students with Disabilities

Services for Students with Disabilities (SSD) provides academic adjustments and auxiliary aids and services for students with documented mental or physical impairments that substantially limit one or more major life activities. To apply for services, students must register with SSD, participate in a disability intake, and submit current documentation from a qualified professional indicating the presence of a substantially limiting impairment. Accommodation decisions are made on a case-by-case basis, as supported by the student's documentation and educational needs. For additional information on the SSD documentation guidelines, procedures for requesting services, and adaptive technologies available on the SHSU campus, students are encouraged to visit Services for Students with Disabilities (http://www.shsu.edu/dept/disability) or to contact the SSD Office at telephone (936) 294-3512, TDD (936) 294-3786, or email disability@shsu.edu.

Student Money Management Center

The Student Money Management Center (SMMC) is a financial outreach and educational program administered by the Sam Houston State University Division of Student Services.

The mission of the Student Money Management Center is to empower students to achieve financial independence.

The goals of the Student Money Management Center outreach program are for students to:

- Learn how to identify and track expenses during and after college;
- Create a financial survival plan for college;
- Graduate with a plan for repaying student loans and personal debt;
- Locate external financial education resources;
- Talk to trained professionals about personal financial decisions and issues in a confidential and comfortable environment;
- Create a personalized budget for the upcoming semester or year at SHSU;
- Learn how to obtain, interpret and understand a personal credit report; and
- Understand employee benefit packages and retirement plans prior to accepting a career opportunity.

The Student Money Management Center offers financial literacy outreach to students in the form of seminars and workshops on a number of financial literacy topics, including but not limited to:

- Budgeting
- Good Credit vs. Bad Credit
- How to be a Smart Shopper
- Preventing Identity Theft
- Saving Money
- Setting Financial Goals

Personal Coaching

The Student Money Management Center also offers private, individualized financial coaching and planning sessions from certified professionals and peers. Through this financial literacy resource, SHSU students can learn how to gain and maintain financial independence. Coaching sessions with

full-time staff members are by appointment only. Peer coaching walk-in hours are available daily and vary by semester. Please check the website for up-to-date walk-in availability hours as well as a variety of online resources.

For more information, visit the Student Money Management Center (http://www.shsu.edu/dept/smmc) or contact 936-294-2600.

Students' Legal & Mediation Services

Mission

We serve SHSU students by providing them with high-quality legal advice and equipping them with techniques to resolve disputes so they can focus on their educational goals.

Legal Services

Our attorneys (http://www.shsu.edu/dept/student-affairs/legal/slms-staff) advise and counsel students on legal issues that they face. Meetings between a student and an attorney are confidential, as allowed by law. While our attorneys do not represent students in court, they help the students better understand their legal issues, rights and responsibilities, guide students through the legal procedures that they may face, and assist students to productively and proactively deal with their legal situation.

Types of Legal Issues

Student Legal & Mediation Services can assist students with many types of legal issues, including, but not limited to:

- Rental Agreements and Issues with Landlords
- Contract Drafting and Review
- Business Formation
- Traffic Tickets
- Wills and Powers of Attorney
- Divorces and Name Changes
- Real Estate
- Demand Letters
- Consumer Protection
- Expunctions and Orders of Nondisclosure
- Copyright and Intellectual Property
- Debt Collection Practices
- Employment-related issues

Mediation & Conflict Resolution Training

Student Legal & Mediation Services also provides mediation services and conflict resolution training. When people are in a dispute, a neutral person —the mediator—can help the parties understand the cause of the dispute and help them develop creative solutions to resolve the dispute. Student Legal & Mediation Services has a trained mediator who helps students resolve their conflicts constructively, timely, and confidentially. We've helped students in roommate disputes, family conflicts, and disputes between groups.

Cost

Because Student Legal & Mediation Services is supported by student fees, there is no cost for a consultation with the attorney or the mediator.

Location & Making Appointments

Student Legal & Mediation Services is located in the Lowman Student Center (http://www.shsu.edu/dept/lowman-student-center), Suite 330. Consultations are by appointment. Students may make an appointment by calling (936) 294-1717 or online at Student Legal & Mediation Services (http://www.shsu.edu/dept/student-affairs/legal).

Speaker for Student Groups

Student Legal & Mediation Services is also available to speak to student groups and organizations on legal and conflict resolution topics. Please call (936) 294-1717 to learn more about having us speak to your group.

Conflicts of Interest

Because of conflicts of interests, Student Legal & Mediation Services is unable to offer legal advice in disputes between Sam Houston State University students or disputes between a student and the University, but our office can refer you to a private attorney.

Student Services, Division of

The role of the Division of Student Affairs is to complement the total educational mission of the University by providing opportunities for students to develop and grow in an academic environment. This is accomplished by offering quality programs and emphasizing the holistic approach in co-curriculum involvement. Studies indicate that learning occurs in an environment conducive to social, recreational, educational, and intellectual interaction. A variety of student service programs are designed to foster such interaction with students, faculty, staff, and the University community. The goal of the division is to contribute to the learning experiences of SHSU students, helping them to become educated, enlightened, and empowered in ways that they can achieve and contribute as productive citizens in their college, community, and country.

The Office of the Vice President for Student Affairs provides administrative leadership, supervision, and coordination for the Division of Student Affairs. The division includes the following departments: Bearkat OneCard Services; Student Money Management Center; Counseling and Services for Students with Disabilities (SSD); Dean of Students' Office; Health Services; Lowman Student Center; Student Activities; Recreational Sports and Activities, Leadership Initiatives, Residence Life and Students' Legal and Mediation Services and Title IX Administration. For more information, visit the website at www.shsu.edu/vpss (http://www.shsu.edu/vpss).

Veterans Resource Center

The Veterans Resource Center (VRC) is available to assist students with Veterans Affairs (VA) educational and Hazlewood benefits. Our office is located in Academic Building III, Suite 116.

Types of VA Educational Benefits:

Chapter 30 - Montgomery

Chapter 31 - Vocational Rehabilitation

Chapter 33 - Post 9/11 GI Bill

Fry Scholarship

Chapter 35 - Dependent Educational Assistance

Chapter 1606 – Reservist

Chapter 1607 – Activated Reservist

Hazlewood Act

The Hazlewood Act is a State of Texas benefit that provides qualified Veterans, spouses, and dependent children with an education benefit of up to 150 hours of tuition exemption, including most fee charges, at public institutions of higher education in Texas. This does not include living expenses, books, or supply fees.

If you would like to apply for one of the VA benefits or Hazlewood Act please contact us at
(936) 294-1046, or by email at veterans@shsu.edu

VetSuccess Counselor

SHSU houses one VA VetSuccess Counselor on its campus. If you are a veteran, active duty military or an eligible family member who attends or plans to attend SHSU, please call or come by to meet with our VetSuccess on Campus Counselor.

SHSU VetSuccess on Campus counselor can help you:

- Manage your education benefits
- Explore vocations and select a suitable major/career
- Elect your healthcare benefits with Veterans Healthcare Administration
- Access, understand and apply for VA benefits (e.g., Disability Compensation, Life Insurance, Education, Home Loan Guaranty, and Vocational Rehabilitation)
- Get referrals for medical and mental health care
- Get referrals for readjustment counseling services for eligible veterans and their families
- Coordinate with school faculty/staff to provide veteran-specific services (e.g., VA Certifying Official, Career Center, Student Disabilities Services, Counseling Center)
- Find job placement assistance and coordinate with Local Veterans' Employment Representatives (LVER) and Disabled Veterans' Outreach Programs (DVOP)
- Locate community and other resources

Your VetSuccess on Campus Counselor

Roberta Ardoin, MHS, CRC

936-294-2263
roberta.ardoin@va.gov
ABIII Suite 116

Visitor Services

Located in the John R. Ragsdale Visitor & Alumni Center, the Sam Houston State University Visitor Services Department is the welcoming point of the University. Visitors are encouraged to register at the Center upon arrival to campus to ensure the maximum benefit of their visit. Please contact the Center to:

- Schedule a tour of the campus
- Obtain departmental brochures to assist in educational planning
- Register for Saturdays@Sam Campus Preview Day

Visitor Services, located at the Bowers Boulevard entrance to campus, is housed with the Office of Alumni Relations. Visitors can enjoy showcased SHSU alumni success stories, university history, and view the university's "story" on video in the state-of-the-art theater.

Saturdays@Sam campus preview days are held in the fall and spring of each year for prospective students, parents, and guests. For more information, please visit Visitor Services (http://www.shsu.edu/dept/visitors) or contact us at (936) 294-1844.

COLLEGES & ACADEMIC DEPARTMENTS

First Year Experience
Honors College
McNair Scholars Program
Military Science, Department of

- College of Business Administration
  - Department of Accounting
  - Department of Economics & International Business
  - Department of General Business and Finance
  - Department of Management, Marketing, and Information Systems
- College of Criminal Justice
  - Department of Criminal Justice & Criminology
  - Department of Forensic Science
  - Department of Security Studies
- College of Education
  - Department of Counselor Education
  - Department of Curriculum and Instruction
  - Department of Educational Leadership
  - Department of Language, Literacy, & Special Populations
  - Department of Library Science
- College of Fine Arts & Mass Communication
  - Department of Art
  - Department of Dance
  - Department of Mass Communication
  - Department of Theatre & Musical Theatre
  - School of Music
- College of Health Sciences
  - Department of Family & Consumer Sciences
  - Department of Kinesiology
  - Department of Population Health
  - School of Nursing
- College of Humanities and Social Sciences
  - Bachelor of General Studies in Liberal Studies
  - Department of Communication Studies
  - Department of English
  - Department of History
  - Department of Political Science
  - Department of Psychology & Philosophy
  - Department of Sociology
  - Department of World Languages and Cultures
  - Minor in Applied Ethics and Critical Thinking
- College of Science and Engineering Technology
  - Bachelor of Science, Major in Composite Science
  - Bachelor of Science, Major in Environmental Science (Pollution Abatement)
  - Bachelor of Science, Major in Environmental Science (Sustainability)
  - Department of Agricultural Sciences
  - Department of Biological Sciences
  - Department of Chemistry
  - Department of Computer Science

- Department of Engineering Technology
- Department of Geography & Geology
- Department of Mathematics & Statistics
- Department of Physics

COLLEGE OF BUSINESS ADMINISTRATION

Administrative Officers

Title/Department	Officer
Dean	Mitchell J. Muehsam, Ph.D. mmuehsam@shsu.edu; (936) 294-1254
Associate Dean	Kurt Jesswein, Ph.D. jesswein@shsu.edu; (936) 294-4582
Associate Dean	Valerie P. Muehsam, Ph.D. pepper@shsu.edu; (936) 294-3712
Department of Accounting	Philip W. Morris, Ph.D., CPA, Chair morris@shsu.edu; (936) 294-1258
Department of Economics and International Business	Mark Frank, Ph.D., Chair markfrank@shsu.edu; (936) 294-1265
Department of General Business and Finance	Joey Robertson, J.D., Chair joey_robertson@shsu.edu; (936) 294-1278
Department of Management, Marketing, and Information Systems	Gerald Kohers, Ph.D., Chair kohers@shsu.edu; (936) 294-1256

Vision

Sam Houston State University's College of Business Administration aspires to be among the best regional colleges of business administration in the nation.

Mission

The mission of the College of Business Administration (COBA) is to prepare students for careers through a quality education. COBA provides a student-focused learning environment that actively engages students, faculty, and the business community in the promotion of knowledge and skills relevant for professional success. The educational environment is complemented by encouraging quality faculty scholarship in applied, pedagogical, and discipline-based research.

Core Values

The faculty and staff of the College of Business Administration embrace the following **core values** in pursuit of the mission.

Quality - COBA faculty and staff will provide a quality educational environment, maintaining a relevant curriculum and teaching pedagogy that nurtures intellectual development.

Responsibility - COBA faculty and staff will be responsible and dependable, take personal initiative and accept accountability.

Respect - COBA faculty and staff will engage in a spirit of cooperation and collegiality that promotes trust, collaboration and respect of others.

Individuality - COBA faculty and staff, recognizing the value of diversity, will respect individual goals and objectives, and celebrate faculty, staff and student success.

Honesty - COBA faculty and staff will be ethical in their behavior, will act with integrity and will be honest, open and fair with all stakeholders.

Highlights

The College of Business Administration is accredited by the Association to Advance Collegiate Schools of Business International (AACSB International) and has a nationally recognized chapter of Beta Gamma Sigma. In the United States only one in three business schools have earned this accreditation and worldwide approximately six percent of business programs/schools have earned this prestigious accreditation.

Sam Houston State University was accredited in 2005 as the 17th Professional Golfers' Association of America PGA Golf Management university in the country and the first in the state of Texas. The Professional Golfers' Association of America PGA Golf Management program at Sam Houston State University is designed to produce members of the PGA of America. Successful completion of the four and one-half year program will reward the student with a Bachelor of Business Administration (BBA) degree in General Business Administration with a concentration in PGA Golf Management, resulting in Class "A" membership within the PGA of America.

The College of Business Administration offers BBA degrees in accounting, banking and financial institutions, finance, general business administration, management, and marketing, as well as the MBA at The Woodlands Center (TWC) in The Woodlands, Texas.

The College is a member of the SAP University Alliance and offers students the opportunity to earn an SAP Certificate of Completion.

The College is home to the Sower Business Technology Lab providing students hands on experience in 3D printing, RFID technology and robotics. The College also hosts the Center for Innovation and Technology.

The College hosts the Texas Bankers Hall of Fame.

Each year the College of Business Administration conducts a career fair that offers students the opportunity to interact with over 50 employers from all types of business and not-for-profit organizations.

The College offers an Executive MBA in Banking and Financial Institutions. The EMBA program is a two-year cohort program involving both online and residence coursework.

Academic Programs

Departments	Programs
Accounting	B.B.A.
Banking and Financial Institutions	B.B.A.
Economics	B.B.A.
Entrepreneurship	B.B.A.
Finance	B.B.A.
General Business Administration	B.B.A.
Human Resource Management	B.B.A.
International Business	B.B.A.
Management	B.B.A.
Management Information Systems	B.B.A.
Marketing	B.B.A.

Note: This listing of undergraduate degree programs is correct as of December 2017.

Business Minors

The College of Business Administration offers eleven minors: Accounting, Banking, Business Communication, Economics, Entrepreneurship, Finance, General Business Administration, International Business, Management, Management Information Systems, and Marketing. With two exceptions, the minors are open to all students majoring in areas that allow minors. Students majoring in programs within the College of Business Administration may not minor in General Business Administration. The minor in Banking is open only to students seeking a BBA degree or those students pursuing a major in Agricultural Business. Please, see the appropriate departmental section for the specific course requirements for that program's minor(s).

Graduate Programs in the College of Business Administration

- Master of Science in Accounting
- Master of Business Administration
- Executive Master of Business Administration in Banking and Financial Institutions
- Master of Science in Project Management (http://catalog.shsu.edu/graduate/college-departments/business-administration/management-marketing/project-management-ms/#descriptiontext)

Student Organizations and Activities

- Alpha Kappa Psi
- APICS - Association of Operations Management
- Association of Certified Fraud Examiners
- Association of Information Technology Professionals
- Banking and Finance Club
- Beta Alpha Psi
- Beta Gamma Sigma
- COBA Ambassadors
- Collegiate Entrepreneurs' Organization
- Investment Club
- MBA Student Association
- National Association of Black Accountants
- Omicron Delta Epsilon

- Phi Chi Theta
- Society for Human Resource Management

Additional student organizations exist within specific majors and/or departments. Please see the appropriate major/department for more details.

Internships and Study Abroad

A student may earn a maximum of six hours in approved, supervised educational work experience in internships. Internship applications are available from the sponsoring academic department. In order to receive academic credit, a student must meet the eligibility conditions, obtain prior approval from the Department Chair of his/her major, and meet the guidelines established by the College of Business Administration for monitoring the quality of the learning experience.

Sam Houston State University offers the unique opportunity for students to earn college credit in other countries including China, Japan, and Dubai. These classes are taught by COBA and other SHSU faculty members, and students have many opportunities to interact with the local community. Field trips to major businesses, museums, and archeological sites are often included. A limited number of scholarships are available to partially cover the cost. Interested students may contact the Dean's Office or the Office of International Programs for additional information.

Scholarships

Sam Houston State University offers academic scholarship opportunities for **beginning freshmen** who excel in areas of academic achievement and leadership. There are additional competitive scholarship opportunities for **current SHSU and transfer undergraduate students**. Students are encouraged to apply for scholarships using the **Scholarship4Kats** program at Financial Aid (http://www.shsu.edu/dept/financial-aid). The Scholarship4Kats program is a single application that will allow the student to apply for most scholarships available on campus whether at the departmental, college, or university-level.

The College of Business Administration administers the Smith-Hutson Scholarship Program at Sam Houston State University. The Smith-Hutson Scholarship targets entering freshmen with demonstrated financial need and academic potential who are pursuing a baccalaureate degree from SHSU. Additionally, Smith-Hutson Scholarships are available to transfer students from a Texas community college who are pursuing a baccalaureate degree from SHSU. More information about the program can be found at the Smith-Hutson Scholarship Program website (http://smith-hutson.shsu.edu).

Numerous scholarships are available on a competitive basis for currently enrolled students in the College of Business Administration. Applications are typically accepted through **Scholarship4Kats** between October 1 and February 15 for incoming students and between January 2 and February 15 for returning students. Deadlines may change so students are encouraged to check the website for current information. Scholarship recipients are announced in April for the following academic year.

Scholarships vary from year to year and typically include:

- Beta Gamma Sigma Scholarship
- Billy and Kathy Smith COBA Scholarship
- Carol Shaw Alpha Chi Omega Scholarship
- Charles R. Carlow Endowed Scholarship
- Charles W. Jones Endowed Scholarship
- Clay and Margaret Smith Scholarship
- Douglas C. Fletcher, Sr. Scholarship
- Dr. Elliot T. Bowers Assistance Scholarships
- Ed and Genevieve Sandhop Endowed Scholarship
- Ed G. Sandhop Scholarship
- Edward James Crawford Scholarship
- Farm Credit Bank Scholarship
- Gibson D. Lewis Scholarship
- G. Scott and Mary S. McCarley Endowed Scholarship
- James E. Gilmore Endowed Scholarship
- James Gilmore COBA Excellence Scholarship
- Jean D. Neal Scholarship
- Jessica Lee Hays Memorial Scholarship
- J. N. and Vennie Crawford Business Administration Scholarship
- Joe M. “Butch” MacKenzie Scholarship
- John Patrick Singleton (Class of 1965) Memorial Scholarship
- Johnson-Brown-Perkins Scholarship

- J. Roy Wells Scholarship
- Kailas and Becky Rao Scholarship in Honor of Dr. Bobby K. Marks
- Leroy Ashorn Memorial Scholarship
- Neva and Wesley West Scholarship
- Nicholas C. Beaty Memorial Scholarship
- Rayford Lacey Hardy and Margie Crawford Hardy Endowed Scholarship
- Ray Gordon Dollar Sr. Scholarship
- Ron Mafrige Endowment for COBA Scholarship in Honor of R. Dean Lewis
- Tommy Metcalf Scholarship
- Wesley L. Oakes Scholarship
- Wood-Yager Scholarship

University-Specific Requirements

All students are required to complete the University general education requirements (common core) as described in Degree Requirements and Academic Guidelines section in this catalog. Additionally, **all students** are required to complete Component Area I – Communications (ENGL 1301 and ENGL 1302), Component Area II – Mathematics (MATH 1324), and four hours from Component Area III (Life and Physical Science) before being allowed to register for upper-division (3000- and 4000- level) courses.

Curriculum

College-Specific Requirements

General Requirements

The following courses are required of all students seeking a BBA degree. Students completing the courses below will have completed the University Core Curriculum as well as the degree-specific computer literacy requirement.

Code	Title	Hours
General requirements for all majors pursuing the Bachelor of Business Administration degree		
Component Area I		6
ENGL 1301	Composition I (satisfies Component Area I)	
ENGL 1302	Composition II (satisfies Component Area I)	
Component Area II		3
MATH 1324	Mth For Mngl Decision Making (satisfies Component Area II)	
Component Area III		8
See approved list		
Component Area IV		3
Component Area V		3
HIST 1301	United States History To 1876 (satisfies Component Area VI)	3
HIST 1302	United States History Sn 1876 (satisfies Component Area VI)	3
POLS 2305	American Government (satisfies Component Area VII)	3
POLS 2306	Texas Government (satisfies Component Area VII)	3
ECON 2302	Principles Of Microeconomics (satisfies Component Area VIII)	3
BUAD 1305	Electronic Communications Tech	3
or CSTE 1330	Introduction To Computers	
Select one of the following (satisfies Component Area IX):		3
BUAD 2321	Dsgn/Presentation Bus.Projects	
COMS 2382	Comm. for Bus. & Professions	
Select one of the following (satisfies remaining one hour in Component Area IX):		1
ECON 1100	Economics of Social Problems	
KINE 2115	Lifetime Health and Wellness	
MCOM 1130	Media Literacy	
NGLI 1101	Research in the Digital Age	
Total Hours		45

Business Core

Each program of study pursuant to the Bachelor of Business Administration degree includes the following courses for the Business Core. Additional course requirements are outlined by specific departments. There are fifteen courses in the business core (45 hours). The table below states the total as 42 hours as three hours in the business core apply to the 42 hours in the University Core Curriculum.

Code	Title	Hours
Business Core		
ACCT 2301	Principles Of Financial Acc	3
ACCT 2302	Principles Of Managerial Acc	3
BANA 2372	Business Analysis	3
BANA 3363	Inter Business Analysis	3
BUAD 2301	Business Legal Environment	3
BUAD 3335	Business Communication	3
ECON 2301	Principles Of Macroeconomics	3
ECON 2302	Principles Of Microeconomics (satisfies a University core requirement)	3
ECON 3000-4000 level (specific ECON course depends on the major)		3
FINC 3320	Business Finance	3
MGIS 3310	Principles of MIS	3
MGMT 3310	Principles Of Management	3
MGMT 3370	Operations Management	3
MGMT 4390	Strategic Management & Policy	3
MKTG 3310	Principles Of Marketing	3
Total Hours		42

Minimum GPA Requirements to Earn a BBA Degree

Students must achieve a 2.0 GPA in the following:

- SHSU GPA
- Cumulative GPA (SHSU and transfer)
- SHSU business courses
- Cumulative business courses (SHSU and transfer)
- Minor GPA (if a minor is pursued)

Some majors require a higher GPA and/or have specific grade requirements for courses within the major. Please see the respective departmental section for more details.

Fifty Percent Requirement

At least 50 percent of the required business curriculum for the B.B.A. degree must be taken in residence at Sam Houston State University, which may include courses taken at The Woodlands Center (TWC) campus or through SHSUOnline.

Entry to Upper Division Courses

Admission to undergraduate upper division courses, i.e., 3000- and 4000-level, in the College of Business Administration, is limited to students who have completed at least 50 semester hours with a GPA of at least 2.0.

Graduate Studies

The College of Business Administration is authorized to offer the Master of Business Administration, Executive MBA in Banking and Financial Institutions (http://catalog.shsu.edu/graduate/college-departments/business-administration/emba), Master of Science in Accounting, and Master of Science in Project Management degrees. The Graduate Catalog provides additional information regarding graduate studies in the College of Business Administration.

Department of Accounting

Chair: Philip W. Morris (morris@shsu.edu) (936) 294-1258 accounting@shsu.edu

Website: Department of Accounting (http://www.shsu.edu/academics/accounting)

Vision

To be a leading professional accounting department among Texas universities providing a relevant curriculum delivered by professional faculty dedicated to teaching, research, and service.

Mission

Our mission is to prepare our students to enter the accounting profession in the public, industry, and not-for-profit sectors through excellent teaching and pedagogy and through the creation of a sound learning environment. In support of this mission our faculty will produce intellectual contributions that contribute to the professional practice of accounting, to accounting pedagogy, and to discipline based research. We will also maintain a level of interaction with the accounting profession that ensures the continued relevance of our program and viability of our graduates.

Highlights

The Department of Accounting works closely with outside stakeholders in CPA firms, industry, and government in order to ensure that the accounting curriculum provides students with the necessary skill sets and knowledge to successfully function as professional accountants upon graduation. Evidence of the success of this process is provided in part by the continued recruitment of SHSU accounting graduates by numerous, diverse employers. Accounting majors participate in the annual Meet the Firms career fair held in the Fall semester. This function, which first began in 1997 and is organized by the SHSU Chapter of Beta Alpha Psi, the honor organization for financial information students and professionals, is attended by employers that are specifically and many times solely interested in accounting majors and, in some cases, finance majors. Accounting majors, minors, MIS majors, and finance majors from all levels attend this event to begin or to continue their participation in the recruitment and hiring process.

Generally, each week during the Fall and Spring semesters, representatives from large and small CPA firms, representatives from local and global public companies from diverse industries, and representatives from governmental agencies come to the SHSU campus to make presentations to and meet accounting majors. These presentations, sponsored by the campus chapter of Beta Alpha Psi, provide real world perspectives and information to the students that attend. All accounting and other majors are welcome at these presentations. In the social activities that usually follow these presentations, students have the opportunity to meet face to face with the representatives from these off campus organizations, most of which recruit students from the Accounting program at SHSU.

Representatives from a wide variety of business and governmental entities make presentations on a weekly basis during the Fall and Spring semesters at the National Association of Black Accountants chapter meetings on campus. Because the membership of this organization is not limited to accounting, finance, or MIS majors, these presentations address a broad range of business and professional topics. Social events held after many of these presentations present the opportunity for students to interact one on one with the representatives from a wide range of business and professional entities.

Career Opportunities

- Public accountant
- Tax accountant
- Cost accountant
- Government accountant
- Budget accountant
- Auditor
- Appraiser
- Budget analyst
- Credit analyst
- Financial examiner
- Tax examiner
- Revenue agent
- Educator

Suggested Minors

No minor is required for students seeking a BBA in Accounting. Students are welcome to select a minor following consultation with the Department Chair, but should be aware that a minor will add hours to the length of the degree program.

The Department of Accounting offers a minor in accounting for students pursuing a major that requires a minor.

Uniform CPA Examination Information

Due to the rigorous requirements of the Texas State Board of Public Accountancy, completion of the BBA in Accounting will not qualify one to take the CPA examination. The Department of Accounting offers a Master of Science in Accounting whereby a student may satisfy the educational requirements to sit for the Uniform CPA examination in the state of Texas. Students seeking additional information on the Uniform CPA Examination should check the Texas State Board of Public Accountancy homepage (http://www.tsbpa.state.tx.us).

Program-Specific Requirements

Minimum GPA Requirement for a BBA in Accounting

A cumulative (SHSU and transfer) minimum GPA of 2.5 is required for students to graduate with a BBA in Accounting.

Minimum Grades in Accounting Courses

Accounting majors must make a minimum grade of "C" or better in all accounting (ACCT) courses taken to graduate with a BBA in Accounting.

- Bachelor of Business Administration - Major in Accounting
- Minor in Accounting

Student Organizations and Activities

- Association of Certified Fraud Examiners
- Beta Alpha Psi
- National Association of Black Accountants
- Student membership in the American Institute of Certified Public Accountants (AICPA)
- Student membership in the Institute of Management Accountants (IMA)

Internships

The Department of Accounting has an active internship program and students are encouraged to participate. Selection requirements are rigorous and involve meeting both minimum standards set by the Department of Accounting and selection by the hiring firm or business following an interview process.These internships must meet guidelines as established by the Texas State Board of Public Accountancy and involve specific, direct accounting training and activity beyond routine clerical and office activities. Students generally participate in internships in the Spring semester of their senior year. The selection process for these internship positions occurs generally during the early Spring semester of the Junior year. In some cases internships are available during Summer terms. Interested students should contact the Accounting Internship Program Director through the Department of Accounting office for departmental selection criteria and application requirements.

Scholarships

Scholarships are available on a competitive basis for accounting majors. Students are encouraged to apply for scholarships using Scholarships4Kats at Financial Aid (http://www.shsu.edu/dept/financial-aid). The Scholarship4Kats program is a single application that will allow the student to apply for most scholarships available on campus whether at the departmental, college, or university-level. The deadline for applying for Department of Accounting scholarships is February 15. Department of Accounting scholarship recipients are announced in April for the following academic year. The specific scholarships that are available through the Department of Accounting vary from year to year.

Chair: **Philip W Morris**

Ouadie Akaaboune, PHD (oxa021@shsu.edu), *Assistant Professor of Accounting*, *Department of Accounting*, PHD, Southern Illinois U-Carbondale; MACC, Southern Illinois U-Carbondale; BA, Univ of Hawaii At Manoa

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Oscar J Harvin, PHD (ojh002@shsu.edu), *Assistant Professor of Accounting*, *Department of Accounting*, PHD, Florida-Atlantic U; MBA, Univ of N Florida; BS, Bethune-Cookman University

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Taylor S Klett, JD (klett@shsu.edu), *Associate Professor of Accounting*, *Department of Accounting*, JD, Univ of Houston-Main; BBA, Univ of Texas At Austin

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Philip W Morris, PHD (aac_pwm@shsu.edu), *Professor and Chair of Accounting*, *Department of Accounting*, PHD, Texas Tech University; MS, Univ of Houston-Clear Lake; MBA, Sam Houston State University; BBA, Sam Houston State University

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Shani Nicole Robinson, PHD (snr001@shsu.edu), *Assistant Professor of Accounting*, *Department of Accounting*, PHD, Univ of North Texas; MBA, Sam Houston State University; BBA, Sam Houston State University

Jeffery W Strawser, PHD (aac_jws@shsu.edu), *Associate Professor of Accounting*, *Department of Accounting*, PHD, Texas AM University; MS, Texas AM University; BBA, Texas AM University

Interim Faculty

Diane Green, MS (aac_djg@shsu.edu), *Assistant Professor of Accounting*, *Department of Accounting*, MS, LSU AM College; BS, LSU AM College

Linda Serres Sweeney, MBA (aac_lss@shsu.edu), *Lecturer of Accounting*, *Department of Accounting*, MBA, Sam Houston State University; BBA, Sam Houston State University

Jacqueline Jarosz Wukich, MID (jacqui.wukich@shsu.edu), *Lecturer of Accounting*, *Department of Accounting*, MID, University of Pittsburgh; MBA, John Carroll University; BSBA, John Carroll University

Bachelor of Business Administration - Major in Accounting

Each BBA degree consists of:

- the University Core Curriculum
- the Business Core [1]
- courses required for the major
- a speech communications course (BUAD 2321 or COMS 2382) that also satisfies a University core requirement
- a computer literacy course (BUAD 1305 or CSTE 1330)
- elective(s)

Note: Transfer students must take at least 50% of the required business curriculum for the BBA in residence at Sam Houston State University, which may include courses taken at The Woodlands Center campus or through SHSU Online.

[1] The Business Core is made up of the following courses:

Code	Title	Hours
ACCT 2301	Principles Of Financial Acc	3
ACCT 2302	Principles Of Managerial Acc	3
BANA 2372	Business Analysis	3
BANA 3363	Inter Business Analysis	3
BUAD 2301	Business Legal Environment	3
BUAD 3335	Business Communication	3
ECON 2301	Principles Of Macroeconomics	3
ECON 2302	Principles Of Microeconomics [1]	3
ECON 3000-4000 level [2]		
FINC 3320	Business Finance	3
MGIS 3310	Principles of MIS	3
MGMT 3310	Principles Of Management	3
MGMT 3370	Operations Management	3
MGMT 4390	Strategic Management & Policy	3
MKTG 3310	Principles Of Marketing	3

[1] Satisfies a University core requirement

[2] Specific course may be specified by the major.

Program-Specific Requirements

Minimum GPA Requirement for a BBA in Accounting

A cumulative (SHSU and transfer) minimum GPA of 2.5 is required for students to graduate with a BBA in Accounting.

Minimum Grades in Accounting Courses

Accounting majors must make a minimum grade of "C" or better in all accounting (ACCT) courses taken to graduate with a BBA in Accounting.

Major Requirements

Code	Title	Hours
Core Curriculum		
Component Area I (Communication)		6
Component Area II (Mathematics)		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4

First Year

Fall	Hours	Spring	Hours
Component Area III	4	Component Area III	4
ECON 1100, KINE 2115, NGLI 1101, or MCOM 1130[1]	1	Component Area V	3
ENGL 1301[2]	3	BUAD 1305 or CSTE 1330	3
HIST 1301[3]	3	ENGL 1302[2]	3
MATH 1324[4]	3	HIST 1302[3]	3
	14		16

Second Year

Fall	Hours	Spring	Hours
Component Area IV	3	ACCT 2302	3
ACCT 2301	3	BANA 2372	3
BUAD 2321 or COMS 2382[1]	3	BUAD 2301	3
ECON 2301[5]	3	ECON 2302	3
POLS 2305[6]	3	POLS 2306[6]	3
	15		15

Third Year

Fall	Hours	Spring	Hours
ACCT 3313	3	ACCT 3314	3
ACCT 3324	3	ACCT 3347	3
BANA 3363	3	ACCT 3353	3
MGIS 3310	3	FINC 3320	3
MGMT 3310	3	MKTG 3310	3
	15		15

Fourth Year

Fall	Hours	Spring	Hours
ACCT 4315	3	ACCT 4316	3
BUAD 3335	3	ACCT 4372	3
BUAD 3355	3	Electives	6
ECON 4357	3	MGMT 4390	3
MGMT 3370	3		
	15		15

Total Hours: 120

1 Satisfies requirement for Core Curriculum Component Area IX (Component Area Option).
2 Satisfies requirement for Core Curriculum Component Area I (Communication).
3 Satisfies requirement for Core Curriculum Component Area VI (U.S. History).
4 Satisfies requirement for Core Curriculum Component Area II (Mathematics).
5 Satisfies requirement for Core Curriculum Component Area VIII (Social and Behavioral Sciences).
6 Satisfies requirement for Core Curriculum Component Area VII (Political Science/Government).

Minor in Accounting

A minor in Accounting (18 hours) is available to all bachelor degree programs that permit a minor. The minor in Accounting requires the following courses with a minimum grade point average of 2.0 for all courses attempted at SHSU, as well as a minimum grade point average of 2.0 for all courses attempted in the minor, including both in residence and transfer hours.

Code	Title	Hours
Minor in Accounting		
ACCT 2301	Principles Of Financial Acc	3
ACCT 2302	Principles Of Managerial Acc	3
ACCT 3313	Intermediate Accounting I	3

9 additional advanced hours (3000-level or above) hours in Accounting, excluding ACCT 3304	9
Total Hours	18

Furthermore, degree candidates for a minor in Accounting must achieve a minimum 2.0 grade point average for all hours attempted in accounting courses, residence and transfer hours combined.

Department of Economics & International Business

Chair: Mark W. Frank (936) 294-1265

Website: Department of Economics & International Business (http://www.shsu.edu/academics/economics-and-international-business)

Vision

To develop outstanding Economics, International Business, and Business Analysis programs with faculty that is recognized for excellence in instruction, research, and service.

Mission

The mission of the Department of Economics and International Business is to support the mission of the University and the College of Business Administration by providing students with an academic foundation to become productive citizens, to develop successful careers, and to provide interested students with the background to pursue graduate or professional studies. The Department will provide curricula that promote critical thinking skills and enhance decision making abilities, which help students become productive and informed citizens. Faculty will engage in research to create and disseminate new knowledge, develop quality-teaching skills, maintain high professional standards, and actively serve the University Community.

Academic Programs

The Economics program is intended for students seeking a logical, ordered way of looking at business problems. The principles, approaches, and conclusions derived from the study of economics form the basis for developing sound policies in business, government, and personal life decisions.

The International Business program is designed for students preparing for positions with business, government, or international agencies dealing with international trade and foreign investments. As a result of the growing importance of international trade in the world economy, domestic and multinational corporations face a growing need for employees with specialized training in matters relating to international trade.

Career Opportunities

The study of economics is an effective way to prepare for several types of careers, including:

- Economic Consulting
- Legal Profession
- Government Sector
- Market Research
- Corporations and Financial Institutions
- Graduate education in law, business, public administration, urban studies, and economics.

The study of international business is an effective way to prepare for several types of careers, including:

- International Corporations
- Federal and International Agencies, both public and private
- Graduate education in law, international business, public administration, and economics.

Suggested Minors

- Accounting
- A Foreign Language
- Banking
- Economics (for International Business majors)
- Finance
- Management
- Marketing
- Math
- Political Science

The Department of Economics and International Business offers a minor in economics and a minor in international business for students pursuing a major that requires or encourages a minor.

- Bachelor of Business Administration, Major in Economics
- Bachelor of Business Administration, Major in International Economics

- Minor in Economics
- Minor in International Business

Student Organizations

- Economics and International Business Club
- Omicron Delta Epsilon

Study Abroad

Students may earn academic credit toward their Economics and/or International Business degree by participating in one of the several faculty-led study abroad programs held each summer. For additional information, contact the Department Chair, the SHSU Office of International Programs, or visit the webpage: Study Abroad Information (http://www.shsu.edu/academics/economics-and-international-business/study-abroad-information.html). Current study abroad programs include:

- Tokyo, Japan
- Aachen, Germany
- Beijing, China

Internships

A student may earn a maximum of six hours in approved, supervised educational work experience in internships. Internship applications are available in the Departmental office. It is the responsibility of the student to identify the internship opportunity. In order to receive academic credit, a student must meet the eligibility conditions, obtain prior approval from the Department Chair, and meet the guidelines established by the College of Business Administration for monitoring the quality of the learning experience.

Scholarships

Scholarships are available on a competitive basis for economics and international business majors. Students are encouraged to apply for scholarships using Scholarships4Kats (https://shsu.academicworks.com) at Financial Aid (http://www.shsu.edu/dept/financial-aid). The Scholarships4Kats (https://shsu.academicworks.com) program is a single application that will allow the student to apply for most scholarships available on campus whether at the departmental, college, or university-level. The deadline for applying for Department of Economics and International Business scholarships is February 15. Department of Economics and International Business scholarship recipients are announced in April for the following academic year. The specific scholarships that are available through the department vary from year to year and may include:

- Armstrong Foundation Endowed Scholarship in Economics
- Armstrong Foundation Endowed Scholarship in International Business
- Assam Scholarship in Monetary Economics
- Faculty Scholarship in Economics
- Faculty Scholarship in International Business
- William B. Green Scholarship in International Business

Chair: **Mark W. Frank**

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Interim Faculty

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Bachelor of Business Administration, Major In Economics

Each BBA degree consists of:

- the University Core Curriculum
- the Business Core [1]
- courses required for the major
- a speech communications course (BUAD 2321 or COMS 2382) that also satisfies a University core requirement
- a computer literacy course (BUAD 1305 or CSTE 1330)
- elective(s)

Note: Transfer students must take at least 50% of the required business curriculum for the BBA in residence at Sam Houston State University, which may include courses taken at The Woodlands Center campus or through SHSU Online.

[1] The Business Core is made up of the following courses:

Code	Title	Hours
ACCT 2301	Principles Of Financial Acc	3
ACCT 2302	Principles Of Managerial Acc	3
BANA 2372	Business Analysis	3
BANA 3363	Inter Business Analysis	3
BUAD 2301	Business Legal Environment	3
BUAD 3335	Business Communication	3
ECON 2301	Principles Of Macroeconomics	3
ECON 2302	Principles Of Microeconomics [1]	3
.ECON 3000-4000 level [2]		
FINC 3320	Business Finance	3
MGIS 3310	Principles of MIS	3
MGMT 3310	Principles Of Management	3
MGMT 3370	Operations Management	3
MGMT 4390	Strategic Management & Policy	3
MKTG 3310	Principles Of Marketing	3

[1] Satisfies a University core requirement

[2] Specific course may be specified by the major.

Degree Plan

Code	Title	Hours
Bachelor of Business Administration, Major In Economics		
Core Curriculum		
Component Area I (Communication)		6
Component Area II (Mathematics)		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4

First Year

Fall	Hours	Spring	Hours
Component Area III	4	Component Area III	4
ECON 1100, KINE 2115, NGLI 1101, or MCOM 1130[1]	1	Component Area V	3
ENGL 1301[2]	3	BUAD 1305 or CSTE 1330	3
HIST 1301[3]	3	ENGL 1302[2]	3

MATH 1324[4]	3 HIST 1302[3]	3
	14	16

Second Year

Fall	Hours	Spring	Hours
Component Area IV	3	ACCT 2302	3
ACCT 2301	3	BANA 2372	3
BUAD 2301	3	BUAD 2321 or COMS 2382[1]	3
ECON 2302	3	ECON 2301[6]	3
POLS 2305[5]	3	POLS 2306[5]	3
	15		15

Third Year

Fall	Hours	Spring	Hours
BANA 3363	3	ACCT 3304	3
ECON 3357	3	BUAD 3335	3
FINC 3320	3	ECON 4373, 4365, or 4357 (choose one)	3
MGMT 3310	3	ECON 3372	3
MKTG 3310	3	MGIS 3310	3
	15		15

Fourth Year

Fall	Hours	Spring	Hours
ECON 3351, 4353, or 3352 (choose one)[7]	3	ECON 3373, 3374, or 3370 (choose one)[7]	3
ECON 4362	3	ECON Elective (3000 or 4000 level)	3
ECON 3341, 3344, 4340, or 4348 (choose two)[7]	6	Electives	6
MGMT 3370	3	MGMT 4390	3
	15		15

Total Hours: 120

1 Satisfies requirement for Core Curriculum Component Area IX (Component Area Option).

2 Satisfies requirement for Core Curriculum Component Area I (Communication).

3 Satisfies requirement for Core Curriculum Component Area VI (U.S. History).

4 Satisfies requirement for Core Curriculum Component Area II (Mathematics).

5 Satisfies requirement for Core Curriculum Component Area VII (Political Science/Government).

6 Satisfies requirement for Core Curriculum Component Area VIII (Social and Behavioral Sciences)

7 Course may be substituted for credit from courses offered in a summer Study Abroad Program (http://www.shsu.edu/academics/economics-and-international-business/study-abroad-information.html) (ECON 4085 or ECON 4360). See Department Chair for approval.

Bachelor of Business Administration, Major in International Business

Each BBA degree consists of:

- the University Core Curriculum
- the Business Core [1]
- courses required for the major
- a speech communications course (BUAD 2321 or COMS 2382) that also satisfies a University core requirement
- a computer literacy course (BUAD 1305 or CSTE 1330)
- elective(s)

Note: Transfer students must take at least 50% of the required business curriculum for the BBA in residence at Sam Houston State University, which may include courses taken at The Woodlands Center campus or through SHSU Online.

[1] The Business Core is made up of the following courses:

Code	Title	Hours
ACCT 2301	Principles Of Financial Acc	3
ACCT 2302	Principles Of Managerial Acc	3

BANA 2372	Business Analysis	3
BANA 3363	Inter Business Analysis	3
BUAD 2301	Business Legal Environment	3
BUAD 3335	Business Communication	3
ECON 2301	Principles Of Macroeconomics	3
ECON 2302	Principles Of Microeconomics [1]	3
ECON 3000-4000 level [2]		3
FINC 3320	Business Finance	3
MGIS 3310	Principles of MIS	3
MGMT 3310	Principles Of Management	3
MGMT 3370	Operations Management	3
MGMT 4390	Strategic Management & Policy	3
MKTG 3310	Principles Of Marketing	3

1 Satisfies a University core requirement

2 Specific course may be specified by the major.

Students majoring in International Business will automatically satisfy the requirements to earn a minor in Economics. There are enough electives (12 credit hours) in the International Business program to allow a student to earn a second minor offered through the College of Business Administration without adding additional hours to the program, if the student so desires. Please consult with an academic adviser for requirements for a specific minor.

Degree Plan

Code	Title	Hours
Bachelor of Business Administration, Major in International Business		
Core Curriculum		
Component Area I (Communication)		6
Component Area II (Mathematics)		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4

First Year

Fall	Hours	Spring	Hours
Component Area III	4	Component Area III	4
ECON 1100, KINE 2115, NGLI 1101, or MCOM 1130[1]	1	Component Area V	3
ENGL 1301[2]	3	BUAD 1305 or CSTE 1330	3
HIST 1301[3]	3	ENGL 1302[2]	3
MATH 1324[4]	3	HIST 1302[3]	3
	14		16

Second Year

Fall	Hours	Spring	Hours
Component Area IV	3	ACCT 2302	3
ACCT 2301	3	BANA 2372	3
BUAD 2301	3	BUAD 2321 or COMS 2382[1]	3
ECON 2302	3	ECON 2301[6]	3
POLS 2305[5]	3	POLS 2306[5]	3
	15		15

Third Year

Fall	Hours	Spring	Hours
BANA 3363	3	ACCT 3304	3
ECON 3357 or 3372 (choose one)	3	BUAD 3335	3
FINC 3320	3	ECON 3341, 3344, 4348, or BUAD 4340 (choose two)[7]	6
MGMT 3310	3	MGIS 3310	3
MKTG 3310	3		
	15		15

Fourth Year

Fall	Hours	Spring	Hours
ECON 4373[7]	3	Electives	9
ECON 4340[7]	3	MGMT 4340[8]	3
Elective	3	MGMT 4390	3
FINC 4340[8]	3		
MGMT 3370	3		
	15		15

Total Hours: 120

1 Satisfies requirement for Core Curriculum Component Area IX (Component Area Option).

2 Satisfies requirement for Core Curriculum Component Area I (Communication).

3 Satisfies requirement for Core Curriculum Component Area VI (U.S. History).

4 Satisfies requirement for Core Curriculum Component Area II (Mathematics).

5 Satisfies requirement for Core Curriculum Component Area VII (Political Science/Government).

6 Satisfies requirement for Core Curriculum Component Area VIII (Social and Behavioral Sciences).

7 Course may be substituted for credit from courses offered in a summer Study Abroad Program (http://www.shsu.edu/academics/economics-and-international-business/study-abroad-information.html) (ECON 4085 or ECON 4360). See Department Chair for approval.

8 FINC 4340 is typically offered only in the fall semester. MGMT 4340 is typically offered only in the fall semester. See academic advisor for further information.

NOTE:

A minor in a supporting business field or a foreign language is strongly recommended. A minor in most supporting business fields can be accomplished by using the available elective hours. Employment opportunities in International Business are likely to be enhanced with foreign language skills. Students who have high school credits in a foreign language or who have otherwise developed a foreign language proficiency are encouraged to participate in the College Level Examination Program (CLEP). Acceptable scores on the CLEP examinations will allow students to earn up to 14 hours of foreign language credits in French, German, or Spanish.

Minor in Economics

A minor in Economics (18 hours) is available to all bachelor degree programs that permit a minor. The minor in Economics requires the following courses with a minimum grade point average of 2.0 for all courses attempted at SHSU, as well as a minimum grade point average of 2.0 for all courses attempted in the minor, including both in residence and transfer hours.

Code	Title	Hours
Minor in Economics		
ECON 2301	Principles Of Macroeconomics	3
ECON 2302	Principles Of Microeconomics	3
ECON 3357	Intermediate Microeconomics	3
or ECON 3372	Intermediate Macroeconomics	
9 advanced hours in ECON		9
Total Hours		18

Furthermore, degree candidates for a minor in Economics must achieve a minimum 2.0 grade point average for all hours attempted in economics courses, residence and transfer hours combined.

Minor in International Business

A minor in International Business (30 or 33 hours) is available to all bachelor degree programs that permit a minor. The minor in International Business requires the following courses with a minimum grade point average of 2.0 for all courses attempted at SHSU, as well as a minimum grade point average of 2.0 for all courses attempted in the minor, including both in residence and transfer hours.

Code	Title	Hours
Minor in International Business		
ACCT 2301	Principles Of Financial Acc	3
ACCT 2302	Principles Of Managerial Acc	3
ECON 2300	Introduction To Economics	3-6
or ECON 2301 & ECON 2302	Principles Of Macroeconomics and Principles Of Microeconomics	
ECON 4340	International Economics	3
FINC 3320	Business Finance	3
MGMT 3310	Principles Of Management	3
MKTG 3310	Principles Of Marketing	3
Select two of the following:		6
BUAD 4340	International Business Law	
FINC 4340	International Finance	
MGMT 4340	Internat'l Managmnt & Marketng	
or MKTG 4340	Internat'l Managmnt & Marketng	
Select one of the following:		3
ECON 3341	Comparative Economics Systems	
ECON 3344	Cont International Issues Eco	
ECON 4373	Monetary Economics	
ECON 4348	Economic Development	
Total Hours		30-33

Furthermore, degree candidates for a minor in International Business must achieve a minimum 2.0 grade point average for all hours attempted in business courses, including in residence and transfer hours whether required for the International Business minor or not.

Department of General Business and Finance

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Website: Department of General Business and Finance (http://www.shsu.edu/academics/general-business-and-finance)

Vision

To deliver outstanding Banking, Finance, Entrepreneurship, and General Business Administration programs with faculty that is recognized for excellence in instruction, research, and service.

Mission

The mission of the Department of General Business and Finance is to assist in fulfilling the mission of the University and the College of Business Administration by providing students with an academic foundation to become productive citizens, to develop successful careers, and to provide interested students with the background to pursue graduate or professional studies. The academic foundation leading to a Bachelor of Business Administration degree in Banking and Financial Institutions, Entrepreneurship, Finance, or General Business Administration is designed to arouse intellectual curiosity, develop analytical reasoning, and provide historical and current information relative to the global environment.

Academic Programs

The **Banking and Financial Institutions** degree program prepares students for officer-level positions in banks, regulatory agencies, and other financial institutions. The **Entrepreneurship** degree program prepares students to serve as chief executive officers of start-up and growth-oriented businesses and to apply entrepreneurial principles in positions of responsibility in larger business enterprises and not-for-profit organizations. The **Finance** degree program provides students with the knowledge of the problems and opportunities that confront entities in the field of finance. The **General Business Administration** degree program provides a solid foundation in business and sufficient electives to customize a degree plan for directed career paths.

Highlights

The Department of General Business and Finance, through the Smith-Hutson Chair of Banking, provides the leadership for the Executive MBA in Banking. In addition, the College of Business Administration participates in the certified Professional Golf Association of America's Professional Golf Management program with participating students receiving the BBA degree in General Business Administration with a concentration in PGA Professional Golf Management.

Suggested Minors

Both the Banking and the Finance degree majors have limited electives available; therefore, no minor is required. Students in these two areas may elect to declare a minor; however, the additional courses will add to the length of their programs.

An entrepreneurship minor would be very beneficial to students anticipating starting or running their own businesses.

General Business Administration majors should consider a minor in one of the approved business minors to provide depth of knowledge in at least one business field.

- Accounting
- Banking
- Business Communication
- Economics
- Entrepreneurship
- Finance
- International Business
- Management
- Management Information Systems
- Marketing

Career Opportunities

The Banking and Financial Institutions, Finance, General Business Administration, and Entrepreneurship degree programs are designed to prepare students for careers in business, government, or not-for-profit entities; to include the core business courses required for admission to master's or other professional programs; or to be combined with a sequence of professional education courses and other requirements by the College of Education to earn a certificate to teach in secondary schools.

- Bachelor of Business Administration, Major in Banking and Financial Institutions
- Bachelor of Business Administration, Major in Entrepreneurship

- Bachelor of Business Administration, Major in Finance
- Bachelor of Business Administration, Major in General Business Administration
- Bachelor of Business Administration, Major in General Business Administration with PGM Concentration
- Minor in Banking
- Minor in Business Communication
- Minor in Business Education
- Minor in Entrepreneurship
- Minor in Finance
- Minor in General Business Administration

Student Organizations

- Banking and Finance Club
- Beta Alpha Psi
- Collegiate Entrepreneurs' Organization
- The Investment Club

Internships

The department has historically been very successful in offering internships in the financial institutions area. This program has been expanded to include internship opportunities specifically designed to meet the PGA Professional Golf Management program requirement. Internships for students interested in other business environments are also becoming increasingly available.

Scholarships

Scholarships are available on a competitive basis for Banking, Finance, General Business Administration, and Entrepreneurship majors. Students are encouraged to apply for scholarships using the Scholarship4Kats (http://www.shsu.edu/dept/financial-aid/scholarships) program at Financial Aid (http://www.shsu.edu/dept/financial-aid). The **Scholarships4Kats** program is a single application that will allow the student to apply for most scholarships available on campus whether at the departmental, college, or university-level. The deadline for applying for Department of General Business and Finance scholarships is February 15. Department of General Business and Finance scholarship recipients are announced in April for the following academic year. The specific scholarships that are available through the department vary from year-to-year and may include:

- Bala and Santhi Maniam Finance Scholarship
- Chance & Katherine Brown Scholarship for Entrepreneurial Studies
- Charles W. Jones III Endowed Scholarship
- Citizens National Bank Endowed Scholarship
- Davis-Holden Entrepreneurship Scholarship
- Department of General Business and Finance Faculty Scholarship
- Financial Executives International (FEI) Scholarship
- Frank and Mary McAdams Payne Banking Scholarship
- Gene P. Heinrich Endowment Fund
- International Association of Administrative Professional-Houston Chapter/Dr. Rita B, Huff and Dr. Ronald D. Johnson Endowed Scholarship
- James B. and Elsie M. Bexley Scholarship
- John Klein/Amegy Bank Scholarships
- Laurence L. Corley Scholarship
- Lillian Loyce Adams Business Education Scholarship
- Lozano Family Scholarship
- Prosperity Bank Scholarship
- RMA Texas Chapter Scholarship
- Randy Wallace Business Plan Scholarship
- Texas Dow Employees Credit Union Scholarship
- Wells Fargo Bank Scholarship

Chair: **Tommy J Robertson**

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BBA, Major in General Business Administration with PGA Golf Management Concentration

Each BBA degree consists of:

- the University Core Curriculum
- the Business Core [1]
- courses required for the major
- a speech communications course (BUAD 2321 or COMS 2382) that also satisfies a University core requirement
- a computer literacy course (BUAD 1305 or CSTE 1330)
- elective(s)

Note: Transfer students must take at least 50% of the required business curriculum for the BBA in residence at Sam Houston State University, which may include courses taken at The Woodlands Center campus or through SHSU Online.

[1] The Business Core is made up of the following courses:

Code	Title	Hours
ACCT 2301	Principles Of Financial Acc	3
ACCT 2302	Principles Of Managerial Acc	3
BANA 2372	Business Analysis	3
BANA 3363	Inter Business Analysis	3
BUAD 2301	Business Legal Environment	3
BUAD 3335	Business Communication	3
ECON 2301	Principles Of Macroeconomics	3
ECON 2302	Principles Of Microeconomics [1]	3
ECON 3000-4000 level [2]		3
FINC 3320	Business Finance	3
MGIS 3310	Principles of MIS	3
MGMT 3310	Principles Of Management	3
MGMT 3370	Operations Management	3
MGMT 4390	Strategic Management & Policy	3
MKTG 3310	Principles Of Marketing	3

[1] Satisfies a University core requirement

[2] Specific course may be specified by the major.

Degree Plan

Code	Title	Hours
Bachelor of Business Administration, Major in General Business Administration with PGA Golf Management Concentration		
Core Curriculum		
Component Area I (Communication)		6
Component Area II (Mathematics)		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4

First Year

Fall	Hours	Spring	Hours	Summer	Hours
BUAD 1305 or CSTE 1330	3	Component Area III	4	BUAD 2189	1

BUAD 1011 (A: PGA Orientation)[1]	2	Component Area V	3		
ECON 1100, KINE 2115, NGLI 1101, or MCOM 1130[2]	1	BUAD 1011 (B: Professional Development)[6]	2		
ENGL 1301[3]	3	ENGL 1302[3]	3		
HIST 1301[4]	3	HIST 1302[4]	3		
MATH 1324[5]	3				
	15		15		1

Second Year

Fall	Hours	Spring	Hours	Summer	Hours
Component Area IV	3	ACCT 2302	3	BUAD 2189 (Level 1 Complete)	1
ACCT 2301	3	BANA 2372	3		
BUAD 1011 (C: Professional Development)[7]	2	BUAD 1011 (D: Professional Development)[10]	2		
BUAD 2301	3	BUAD 2321 or COMS 2382[2]	3		
ECON 2302[8]	3	ECON 2301	3		
POLS 2305[9]	3				
	17		14		1

Third Year

Fall	Hours	Spring	Hours	Summer	Hours
Component Area III	4	ACCT Elective (select any 3000- or 4000-level)	3	BUAD 3189 (Level 2 Complete)	1
POLS 2306[9]	3	BUAD 3335	3		
BUAD 3069 (A: Professional Development)[11]	2	BUAD 3069 (B: Professional Development)[12]	2		
MGMT 3310	3	BUAD 3345	3		
MKTG 3310	3	MKTG 3335	3		
	15		14		1

Fourth Year

Fall	Hours	Spring	Hours	Summer	Hours
BANA 3363	3	Economics Elective (Select any 3000- or 4000-level)		BUAD 4289 (Level 3 Complete)	2
BUAD 3355	3	FINC 3310	3		
BUAD 3069 (C: Professional Development)[13]	2	MGMT 3370	3		
FINC 3320	3	MGMT 4390	3		
MGIS 3310	3				
	14		9		2

Fifth Year

Fall	Hours
BUAD 4289[14 & 15]	2
	0

Total Hours: 118

1 BUAD 1011 (A: PGA Orientation Qualifying Level)

2 Satisfies requirement for Core Curriculum Component Area IX (Component Area Option).

3 Satisfies requirement for Core Curriculum Component Area I (Communication).

4 Satisfies requirement of Core Curriculum Component Area VI (U.S. History).
5 Satisfies requirement for Core Curriculum Component Area III (Mathematics).
6 BUAD 1011 (B: Facility Management 1)
7 BUAD 1011 (C: Introduction to Teaching and Player Development)
8 Satisfies requirement for Core Curriculum Component Area VIII (Social and Behavioral Sciences).
9 Satisfies requirement for Core Curriculum Component Area VII (Political Science/Government).
10 BUAD 1011 (D: Facility Management 2)
11 BUAD 3069 (A: Intermediate Teaching & Player Development)
12 BUAD 3069 (B: Facility Management 3)
13 BUAD 3069 (C: Advanced Teaching and Player Development)
14 BUAD 4289 (Continuation of 7-month internship)
15 The PGA's Playing Ability Test must be passed prior to graduation with the PGM Concentration.

Bachelor of Business Administration, Major in Banking and Financial Institutions

Each BBA degree consists of:

- the University Core Curriculum
- the Business Core [1]
- courses required for the major
- a speech communications course (BUAD 2321 or COMS 2382) that also satisfies a University core requirement
- a computer literacy course (BUAD 1305 or CSTE 1330)
- elective(s)

Note: Transfer students must take at least 50% of the required business curriculum for the BBA in residence at Sam Houston State University, which may include courses taken at The Woodlands Center campus or through SHSU Online.

[1] The Business Core is made up of the following courses:

Code	Title	Hours
ACCT 2301	Principles Of Financial Acc	3
ACCT 2302	Principles Of Managerial Acc	3
BANA 2372	Business Analysis	3
BANA 3363	Inter Business Analysis	3
BUAD 2301	Business Legal Environment	3
BUAD 3335	Business Communication	3
ECON 2301	Principles Of Macroeconomics	3
ECON 2302	Principles Of Microeconomics [1]	3
ECON 3000-4000 level [2]		
FINC 3320	Business Finance	3
MGIS 3310	Principles of MIS	3
MGMT 3310	Principles Of Management	3
MGMT 3370	Operations Management	3
MGMT 4390	Strategic Management & Policy	3
MKTG 3310	Principles Of Marketing	3

1 Satisfies a University core requirement
2 Specific course may be specified by the major.

Program-Specific Requirements

Banking and Financial Institutions majors must make a minimum grade of "C" or better in all FINC courses taken to graduate with a BBA in Banking and Financial Institutions.

Degree Plan

Code	Title	Hours
Bachelor of Business Administration, Major in Banking and Financial Institutions		
Core Curriculum		
Component Area I (Communication)		6
Component Area II (Mathematics)		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4

First Year

Fall	Hours	Spring	Hours
Component Area III	4	Component Area III	4
ECON 1100, KINE 2115, NGLI 1101, or MCOM 1130[1]	1	Component Area V	3
ENGL 1301[2]	3	BUAD 1305 or CSTE 1330	3
HIST 1301[3]	3	ENGL 1302[2]	3
MATH 1324[4]	3	HIST 1302[3]	3
	14		16

Second Year

Fall	Hours	Spring	Hours
ACCT 2301	3	ACCT 2302	3
Component Area IV	3	BANA 2372	3
BUAD 2301	3	BUAD 2321 or COMS 2382[1]	3
ECON 2302	3	ECON 2301[6]	3
POLS 2305[5]	3	POLS 2306[5]	3
	15		15

Third Year

Fall	Hours	Spring	Hours
BANA 3363	3	ACCT 3313	3
FINC 3320	3	BUAD 3335	3
FINC 4325	3	BUAD 3355 or 3357	3
MGMT 3310	3	FINC 3310	3
MKTG 3310	3	MGIS 3310	3
	15		15

Fourth Year

Fall	Hours	Spring	Hours
ECON 4373, 4362, or 4357	3	Elective	3
FINC 4320	3	FINC 4330	3
FINC 4345	3	FINC 4335	3
FINC Elective (select from list below)	3	FINC Elective (Select from list below)	3
MGMT 3370	3	MGMT 4390	3
	15		15

Total Hours: 120

1 Satisfies requirement for Core Curriculum Component Area IX (Component Area Option).

2 Satisfies requirement for Core Curriculum Component Area I (Communication).

3 Satisfies requirement for Core Curriculum Component Area VI (U.S. History).

4 Satisfies requirement for Core Curriculum Component Area II (Mathematics).

5 Satisfies requirement for Core Curriculum Component Area VII (Political Science/Government).

[6] Satisfies requirement for Core Curriculum Component Area VIII (Social and Behavioral Sciences).

Code	Title	Hours
Finance Electives		
Select two of the following:		6
FINC 3330	Financial Spreadsheet Modeling	
FINC 4080	Independent Study	
FINC 4085	Special Topic	
FINC 4315	Entrepreneurial/Small Firm Fin [1]	
FINC 4340	International Finance	
FINC 4355	Security Analy & Portfolio Mgt [1]	
FINC 4365	Sem in Financial Derivatives [2]	
FINC 4389	Undergrad Internship in Fin	
FINC 4390	Managerial Finance	
Total Hours		6

[1] Typically offered only in the spring semester.

[2] Typically offered only in the fall semester.

Bachelor of Business Administration, Major in Entrepreneurship

Each BBA degree consists of:

- the University Core Curriculum
- the Business Core [1]
- courses required for the major
- a speech communications course (BUAD 2321 or COMS 2382) that also satisfies a University core requirement
- a computer literacy course (BUAD 1305 or CSTE 1330)
- elective(s)

Note: Transfer students must take at least 50% of the required business curriculum for the BBA in residence at Sam Houston State University, which may include courses taken at The Woodlands Center campus or through SHSU Online.

[1] The Business Core is made up of the following courses:

Code	Title	Hours
ACCT 2301	Principles Of Financial Acc	3
ACCT 2302	Principles Of Managerial Acc	3
BANA 2372	Business Analysis	3
BANA 3363	Inter Business Analysis	3
BUAD 2301	Business Legal Environment	3
BUAD 3335	Business Communication	3
ECON 2301	Principles Of Macroeconomics	3
ECON 2302	Principles Of Microeconomics [1]	3
ECON 3000-4000 level [2]		
FINC 3320	Business Finance	3
MGIS 3310	Principles of MIS	3
MGMT 3310	Principles Of Management	3
MGMT 3370	Operations Management	3
MGMT 4390	Strategic Management & Policy	3
MKTG 3310	Principles Of Marketing	3

[1] Satisfies a University core requirement

[2] Specific course may be specified by the major.

Degree Plan

Code	Title	Hours
Bachelor of Business Administration, Major in Entrepreneurship		
Core Curriculum		
Component Area I (Communication)		6
Component Area II (Mathematics)		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4

First Year

Fall	Hours	Spring	Hours
Component Area III	4	Component Area III	4
ECON 1100, KINE 2115, NGLI 1101, or MCOM 1130[1]	1	Component Area V	3
ENGL 1301[2]	3	BUAD 1305 or CSTE 1330	3
HIST 1301[3]	3	ENGL 1302[2]	3
MATH 1324[4]	3	HIST 1302[3]	3
	14		16

Second Year

Fall	Hours	Spring	Hours
Component Area IV	3	ACCT 2302	3
ACCT 2301	3	BANA 2372	3
BUAD 2301	3	BUAD 2321 or COMS 2382[1]	3
ECON 2302	3	ECON 2301[6]	3
POLS 2305[5]	3	POLS 2306[5]	3
	15		15

Third Year

Fall	Hours	Spring	Hours
Business Elective (select from list below)	3	ACCT 3304	3
BANA 3363	3	BUAD 3335	3
FINC 3320	3	BUAD 3345	3
MGMT 3310	3	BUAD 3355	3
MKTG 3310	3	MGIS 3310	3
	15		15

Fourth Year

Fall	Hours	Spring	Hours
BUAD 4345	3	BUAD 4348	3
Business Elective (select from list below)	3	Business Elective (select from list below)	3
ECON Elective (select any 3000- or 4000-level)	3	Elective	3
FINC 4315	3	MGMT 3348	3
MGMT 3370	3	MGMT 4390	3
	15		15

Total Hours: 120

1 Satisfies requirement for Core Curriculum Component Area IX (Component Area Option).

2 Satisfies requirement for Core Curriculum Component Area I (Communication).

3 Satisfies requirement for Core Curriculum Component Area VI (U.S. History).

4 Satisfies requirement for Core Curriculum Component Area II (Mathematics).

5 Satisfies requirement for Core Curriculum Component Area VII (Political Science/Government)

[6] Satisfies requirement for Core Curriculum Component Area VIII (Social and Behavioral Science).

Code	Title	Hours
Business Electives		
Select three of the following:		9
ACCT 3313	Intermediate Accounting I	
ACCT 3314	Intermediate Accounting II	
ACCT 3324	Prn Accounting Systems Design	
ACCT 3347	Cost Accounting	
ACCT 3353	Income Tax Accounting	
BUAD 3360	Human Resources Mgt Law	
BUAD 3365	Real Estate Law	
BUAD 4325	Negotiation in Business	
FINC 3310	Financial Inst & Mkts	
FINC 3330	Financial Spreadsheet Modeling	
FINC 4345	Investments	
FINC 4390	Managerial Finance	
MGIS 2320	Business System Implementation	
MGIS 3320	E-Commerce Implementation	
MGIS 3330	Business Database Management	
MGMT 3325	New Product Commercialization	
MGMT 3327	Mgt of Innovation & Technology	
MGMT 3330	Human Resource Management	
MGMT 4325	Family Business Management	
MGMT 4327	Corporate Entrepreneurship	
MGMT 4335	Mgt & Labor Relations	
MGMT 4345	Social Respon Of Management	
MGMT 4355	Human Resource Development	
MGMT 4360	Supply Chain Management	
MKTG 3320	Consumer Behavior	
MKTG 3335	Retailing	
MKTG 3360	Supply Chain Management	
MKTG 3370	Mkt Comm Promotional Strategy	
MKTG 4330	Sales Management	
MKTG 4350	Marketing Research	
Total Hours		9

Bachelor of Business Administration, Major in Finance

Each BBA degree consists of:

- the University Core Curriculum
- the Business Core [1]
- courses required for the major
- a speech communications course (BUAD 2321 or COMS 2382) that also satisfies a University core requirement
- a computer literacy course (BUAD 1305 or CSTE 1330)
- elective(s)

Note: Transfer students must take at least 50% of the required business curriculum for the BBA in residence at Sam Houston State University, which may include courses taken at The Woodlands Center campus or through SHSU Online.

[1] The Business Core is made up of the following courses:

Code	Title	Hours
ACCT 2301	Principles Of Financial Acc	3

ACCT 2302	Principles Of Managerial Acc	3
BANA 2372	Business Analysis	3
BANA 3363	Inter Business Analysis	3
BUAD 2301	Business Legal Environment	3
BUAD 3335	Business Communication	3
ECON 2301	Principles Of Macroeconomics	3
ECON 2302	Principles Of Microeconomics [1]	3
ECON 3000-4000 level [2]		
FINC 3320	Business Finance	3
MGIS 3310	Principles of MIS	3
MGMT 3310	Principles Of Management	3
MGMT 3370	Operations Management	3
MGMT 4390	Strategic Management & Policy	3
MKTG 3310	Principles Of Marketing	3

1 Satisfies a University core requirement

2 Specific course may be specified by the major.

Program-Specific Requirements

Finance majors must make a minimum grade of "C" or better in all FINC courses taken to graduate with a BBA in Finance.

Degree Plan

Code	Title	Hours
Bachelor of Business Administration, Major in Finance		
Core Curriculum		
Component Area I (Communication)		6
Component Area II (Mathematics)		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4

First Year

Fall	Hours	Spring	Hours
Component Area III	4	Component Area III	4
ECON 1100, KINE 2115, NGLI 1101, or MCOM 1130[1]	1	Component Area V	3
ENGL 1301[2]	3	BUAD 1305 or CSTE 1330	3
HIST 1301[3]	3	ENGL 1302[2]	3
MATH 1324[4]	3	HIST 1302[3]	3
	14		16

Second Year

Fall	Hours	Spring	Hours
Component Area IV	3	ACCT 2302	3
ACCT 2301	3	BANA 2372	3
BUAD 2301	3	BUAD 2321 or COMS 2382[1]	3
ECON 2302	3	ECON 2301[6]	3
POLS 2305[5]	3	POLS 2306[5]	3
	15		15

Third Year

Fall	Hours	Spring	Hours
BANA 3363	3	ACCT 3313	3
FINC 3310	3	BUAD 3335	3
FINC 3320	3	BUAD 3355 or 3357	3
MGMT 3310	3	Finance Elective (select from list below)	3
MKTG 3310	3	MGIS 3310	3
	15		15

Fourth Year

Fall	Hours	Spring	Hours
ACCT 3314 or 3347[7]	3	Elective	3
ECON 4373, 4362, or 4357	3	FINC 4335	3
FINC 4320	3	FINC 4390	3
FINC 4345	3	Finance Elective (select from list below)	3
MGMT 3370	3	MGMT 4390	3
	15		15

Total Hours: 120

1 Satisfies requirement for Core Curriculum Component Area IX (Component Area Option).
2 Satisfies requirement for Core Curriculum Component Area I (Communication).
3 Satisfies requirement for Core Curriculum Component Area VI (U.S. History).
4 Satisfies requirement for Core Curriculum Component Area II (Mathematics).
5 Satisfies requirement for Core Curriculum Component Area VII (Political Science/Government).
6 Satisfies requirement for Core Curriculum Component Area VIII (Social and Behavioral Sciences).
7 ACCT 3314 is strongly recommended.

Code	Title	Hours
Finance Electives		
Select two of the following:		6
FINC 3330	Financial Spreadsheet Modeling [2]	
FINC 4080	Independent Study	
FINC 4085	Special Topic	
FINC 4315	Entrepreneurial/Small Firm Fin [3]	
FINC 4325	Selling Financial Services [4]	
FINC 4330	Commercial Bank Lending	
FINC 4340	International Finance	
FINC 4355	Security Analy & Portfolio Mgt [3]	
FINC 4365	Sem in Financial Derivatives [4]	
FINC 4389	Undergrad Internship in Fin	
Total Hours		6

2 FINC 3330 is strongly recommended.
3 Typically offered only in the spring semester.
4 Typically offered only in the fall semester.

Bachelor of Business Administration, Major in General Business Administration

Each BBA degree consists of:

- the University Core Curriculum
- the Business Core [1]
- courses required for the major
- a speech communications course (BUAD 2321 or COMS 2382) that also satisfies a University core requirement

- a computer literacy course (BUAD 1305 or CSTE 1330)
- elective(s)

Note: Transfer students must take at least 50% of the required business curriculum for the BBA in residence at Sam Houston State University, which may include courses taken at The Woodlands Center campus or through SHSU Online.

[1] The Business Core is made up of the following courses:

Code	Title	Hours
ACCT 2301	Principles Of Financial Acc	3
ACCT 2302	Principles Of Managerial Acc	3
BANA 2372	Business Analysis	3
BANA 3363	Inter Business Analysis	3
BUAD 2301	Business Legal Environment	3
BUAD 3335	Business Communication	3
ECON 2301	Principles Of Macroeconomics	3
ECON 2302	Principles Of Microeconomics [1]	3
ECON 3000-4000 level [2]		3
FINC 3320	Business Finance	3
MGIS 3310	Principles of MIS	3
MGMT 3310	Principles Of Management	3
MGMT 3370	Operations Management	3
MGMT 4390	Strategic Management & Policy	3
MKTG 3310	Principles Of Marketing	3

[1] Satisfies a University core requirement

[2] Specific course may be specified by the major.

Degree Plan

Code	Title	Hours
Bachelor of Business Administration, Major in General Business Administration		
Core Curriculum		
Component Area I (Communication)		6
Component Area II (Mathematics)		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4

First Year

Fall	Hours	Spring	Hours
Component Area III	4	Component Area III	4
ECON 1100, KINE 2115, NGLI 1101, or MCOM 1130[1]	1	Component Area V	3
ENGL 1301[2]	3	BUAD 1305 or CSTE 1330	3
HIST 1301[3]	3	ENGL 1302[2]	3
MATH 1324[4]	3	HIST 1302[3]	3
	14		16

Second Year

Fall	Hours	Spring	Hours
Component Area IV	3	ACCT 2302	3
ACCT 2301	3	BANA 2372	3
BUAD 2301	3	BUAD 2321 or COMS 2382[1]	3

ECON 2302	3 ECON 2301[6]	3
POLS 2305[5]	3 POLS 2306[5]	3
	15	15

Third Year

Fall	Hours	Spring	Hours
BANA 3363	3	BUAD 3335	3
FINC 3310	3	BUAD 3355	3
FINC 3320	3	Business Elective (Select any business course)[7]	3
MGMT 3310	3	MGIS 3310	3
MKTG 3310	3	MGMT 3370	3
	15		15

Fourth Year

Fall	Hours	Spring	Hours
ACCT Elective (3000- or 4000-level)	3	Business Electives (3000- or 4000- level)[7]	6
Business Electives (3000- or 4000- level)[7]	6	Elective	3
ECON Elective (3000- or 4000- level)	3	Management/Marketing Elective (3000- 4000-Level)[8]	3
Management/Marketing Elective (3000- or 4000- level)[8]	3	MGMT 4390	3
	15		15

Total Hours: 120

1 Satisfies requirement for Core Curriculum Component Area IX (Component Area Option).
2 Satisfies requirement for Core Curriculum Component Area I (Communication).
3 Satisfies requirement for Core Curriculum Component Area VI (U.S. History).
4 Satisfies requirement for Core Curriculum Component Area II (Mathematics).
5 Satisfies requirement for Core Curriculum Component Area VII (Political Science/Government).
6 Satisfies requirement for Core Curriculum Component Area VIII (Social and Behavioral Sciences).
7 Business courses include any course with a ACCT, BANA, BUAD, ECON, FINC, MGIS, MGMT, or MKTG prefix
8 Select from BUAD 3345 or MGMT or MKTG elective (3000- or 4000- level).

Minor in Banking

A minor in Banking (18 hours) is available to all bachelor degree programs in the College of Business Administration. The minor in Banking requires the following courses with a minimum grade point average of 2.0 for all courses attempted at SHSU, as well as a minimum grade point average of 2.0 for all courses attempted in the minor, including both in residence and transfer hours.

Code	Title	Hours
Minor in Banking		
FINC 3310	Financial Inst & Mkts	3
FINC 4320	Commercial Banking	3
FINC 4330	Commercial Bank Lending	3
FINC 4335	Financial Statmnt/Credit Analy	3
Select two of the following:		6
FINC 3330	Financial Spreadsheet Modeling	
FINC 4315	Entrepreneurial/Small Firm Fin	
FINC 4325	Selling Financial Services	
FINC 4340	International Finance	
FINC 4345	Investments	
FINC 4389	Undergrad Internship in Fin (no more than 3 semester hours per semester with a maximum of 6 hours)	
FINC 4390	Managerial Finance	
Total Hours		18

The minor in Banking is also available to Agricultural Business majors. In addition to the courses listed here for COBA majors, the following additional courses may be required for Agricultural Business majors to obtain the banking minor:

Code	Title	Hours
ACCT 2301	Principles Of Financial Acc	3
ACCT 2302	Principles Of Managerial Acc	3
FINC 3320	Business Finance	3
Total Hours		9

Furthermore, degree candidates for a minor in Banking must achieve a minimum 2.0 grade point average for all hours attempted in finance courses, residence and transfer hours combined.

Minor in Business Communication

A minor in Business Communication (21 hours) is available to all bachelor degree programs that permit a minor. The minor in Business Communication requires the following courses with a minimum grade point average of 2.0. for all courses attempted at SHSU, as well as a minimum grade point average of 2.0 for all courses attempted in the minor, including both in residence and transfer hours.

Code	Title	Hours
Minor in Business Communication		
BUAD 2321	Dsgn/Presentation Bus.Projects	3
BUAD 3336	Successful Workplace Relations	3
BUAD 3335	Business Communication	3
BUAD 4325	Negotiation in Business	3
BUAD 4335	Intercultural Business Comm	3
Select two of the following:		6
BUAD 3360	Human Resources Mgt Law	
BUAD 4080	Independent Study	
BUAD 4389	Internship	
COMS 4365	Nonverbal Communication	
ENGL 3330	Intro To Technical Writing	
MGMT 3320	Organizational Behavior	
Total Hours		21

Minor in Business Education

A minor in Business Education (24 hours) is available to all non-business bachelor degree programs that permit a minor. This minor is designed to meet the requirements for a teaching certification in Texas and specifically for someone wishing to use business as a second teaching field in Texas high schools. The minor in Business Education requires the following courses with a minimum grade point average of 2.0. for all courses attempted at SHSU, as well as a minimum grade point average of 2.0 for all courses attempted in the minor, including both in residence and transfer hours.

Code	Title	Hours
Minor in Business Education		
ACCT 2301	Principles Of Financial Acc	3
ACCT 2302	Principles Of Managerial Acc	3
BUAD 3335	Business Communication	3
BUAD 3355	Business Law	3
ECON 2301	Principles Of Macroeconomics	3
ECON 2302	Principles Of Microeconomics	3
FINC 1307	Personal Finance	3
MGMT 3310	Principles Of Management	3
Total Hours		24

Minor in Entrepreneurship

A minor in Entrepreneurship (18 hours) is available to all bachelor degree programs that permit a minor. The minor in Entrepreneurship requires the following courses with a minimum grade point average of 2.0 for all courses attempted at SHSU, as well as a minimum grade point average of 2.0 for all courses attempted in the minor, including both in residence and transfer hours.

Code	Title	Hours
Minor in Entrepreneurship		
BUAD 3345	Entreprenuership I- Startup	3
BUAD 3355	Business Law	3
BUAD 4345	Entrepreneurship II - Growth [1]	3
or BUAD 4348	Entrepreneurship III - Cases	
FINC 3310	Financial Inst & Mkts	3
Select two of the following:		6
BUAD 4345	Entrepreneurship II - Growth [1]	
or BUAD 4348	Entrepreneurship III - Cases	
FINC 4315	Entrepreneurial/Small Firm Fin	
MGMT 3348	Small Business Management	
MKTG 3310	Principles Of Marketing	
Total Hours		18

[1] Students may select both BUAD 4345 and BUAD 4348 among the 18 hours of courses required for the minor.

Minor in Finance

A minor in Finance (24 hours) is available to all bachelor degree programs that permit a minor. The minor in Finance requires the following courses with a minimum grade point average of 2.0 for all courses attempted at SHSU, as well as a minimum grade point average of 2.0 for all courses attempted in the minor, including both in residence and transfer hours.

Code	Title	Hours
Minor in Finance		
ACCT 2301	Principles Of Financial Acc	3
ACCT 2302	Principles Of Managerial Acc	3
FINC 3310	Financial Inst & Mkts	3
FINC 3320	Business Finance	3
FINC 4345	Investments	3
Advanced Finance Electives (Select two from list below)		6
Finance Elective (Select from list below or FINC 1307)		3
Total Hours		24

Code	Title	Hours
Finance Electives		
Select two of the following:		6
FINC 3330	Financial Spreadsheet Modeling	
FINC 4080	Independent Study	
FINC 4085	Special Topic	
FINC 4315	Entrepreneurial/Small Firm Fin [1]	
FINC 4320	Commercial Banking	
FINC 4325	Selling Financial Services [2]	
FINC 4330	Commercial Bank Lending	
FINC 4340	International Finance	
FINC 4355	Security Analy & Portfolio Mgt [1]	
FINC 4365	Sem in Financial Derivatives [2]	
FINC 4389	Undergrad Internship in Fin	
FINC 4390	Managerial Finance	
Total Hours		6

[1] Typically offered only in the spring semester.

[2] Typically offered only in the fall semester.

Furthermore, degree candidates for a minor in Finance must achieve a minimum 2.0 grade point average for all hours attempted in finance courses, residence and transfer hours combined.

Minor in General Business Administration

A minor in General Business Administration (21 hours) is available to all non-business bachelor degree programs that permit a minor. The minor in General Business Administration requires the following courses with a minimum grade point average of 2.0 for all courses attempted at SHSU, as well as a minimum grade point average of 2.0 for all courses attempted in the minor, including both in residence and transfer hours.

Code	Title	Hours
Minor in General Business Administration		
ACCT 2301	Principles Of Financial Acc	3
ACCT 2302	Principles Of Managerial Acc	3
Select one of the following:		3
ECON 2300	Introduction To Economics	
ECON 2301	Principles Of Macroeconomics	
ECON 2302	Principles Of Microeconomics	
FINC 3310	Financial Inst & Mkts	3
or FINC 3320	Business Finance	
MGMT 3310	Principles Of Management	3
MKTG 3310	Principles Of Marketing	3
Business elective at any level		3
Total Hours		21

Furthermore, degree candidates for a minor in General Business Administration must achieve a minimum 2.0 grade point average for all hours attempted in business courses, including in residence and transfer hours whether required for the General Business Administration minor or not.

Department of Management, Marketing, and Information Systems

Chair: Gerald Kohers (kohers@shsu.edu) (936) 294-1256

Website: Department of Management, Marketing, and Information Systems (http://www.shsu.edu/academics/management-and-marketing)

Vision

The Department of Management, Marketing, and Information Systems aspires to develop professionals to be leaders by offering a high quality education in the major degree programs of Management, Human Resource Management, Marketing, and Management Information Systems.

Mission

The Management, Marketing, and Information Systems Department's mission is to equip students with the requisite knowledge and skills in management, human resource management, marketing, management information systems, and related careers. The department is committed to excellence in teaching, intellectual contributions, and service.

Academic Programs

The **Management degree program (MGMT)** is designed to prepare students for positions and careers requiring leadership and managerial skills with management emphases enabling students to focus on general management, operations management/supply chain management, and entrepreneurship.

The **Human Resource Management degree program (HRM)** is intended to prepare students to manage an organization's human resources. In particular, the core HRM practices of recruitment & selection, training & development, compensation & benefits, and performance management are examined to promote efficiency and effectiveness, and to maximize the value of human capital in an organization.

The **Marketing degree program (MKTG)** prepares students to make managerial decisions that involve the process of creating; promoting; pricing,;and delivering goods, services, and ideas that provide value. Graduates with a BBA in Marketing will possess the knowledge and skills in the areas of written communication, decision making, presentation, persuasion and negotiation, data and financial analysis, ethical behavior, team work, and other business-related functions in a dynamic global environment.

The **Management Information Systems degree program (MIS)** is designed to provide students with the business and technical knowledge and skills necessary to function in areas such as database management, software development, information technology (IT) infrastructure management, and IT project management. The MIS program also incorporates SAP and Microsoft certification exams in those areas.

- Bachelor of Business Administration, Major in Management
- Bachelor of Business Administration, Major in Management (Supply Chain Management Concentration)
- Bachelor of Business Administration, Major in Human Resource Management
- Bachelor of Business Administration, Major in Management Information Systems
- Bachelor of Business Administration, Major in Marketing
- Minor in Management
- Minor in Management Information Systems
- Minor in Marketing

Student Organizations

- Association of Information Technology Professionals (AITP)
- American Production and Inventory Control Society (APICS)
- Beta Alpha Psi (BAP)
- Society for Human Resource Management (SHRM)

Scholarships

Scholarships are available on a competitive basis. Students are encouraged to apply for scholarships using the Scholarships4Kats (https://shsu.academicworks.com) program on the Financial Aid (http://www.shsu.edu/dept/financial-aid) website. The Scholarships4Kats program is a single application that will allow the student to apply for most scholarships available on campus whether at the departmental, college, or university-level. The deadline for applying for College of Business Administration scholarships is February 15. The specific scholarships available in the Department of Management and Marketing vary from year-to-year and may include:

- Ed and Daphne Sower Memorial Scholarship (available to freshmen majoring in Management with aspirations in the area of Operations Management).
- Victor E. and Judith Sower Scholarship
- Helen Cochran Gilliland Human Resource Management Scholarship
- K.K Lovell, Jr. Scholarships
- Dr. Paul R. and Emily J. Reed Human Resource Management Scholarship
- Robert A. Barragan Management Scholarship
- Project Management Institute Houston (PMIH) Scholarships

Please see the College of Business Administration section for information on college and university-level scholarships.

Chair: **Gerald Kohers**

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Bachelor of Business Administration, Major in Human Resource Management

Each BBA degree consists of:

- the University Core Curriculum
- the Business Core [1]
- courses required for the major
- a speech communications course (BUAD 2321 or COMS 2382) that also satisfies a University core requirement
- a computer literacy course (BUAD 1305 or CSTE 1330)
- elective(s)

Transfer students must take at least 50% of the required business curriculum for the BBA in residence at Sam Houston State University, which may include courses taken at The Woodlands Center campus or through SHSU Online.

[1] The Business Core is made up of the following courses:

Code	Title	Hours
ACCT 2301	Principles Of Financial Acc	3
ACCT 2302	Principles Of Managerial Acc	3
BANA 2372	Business Analysis	3
BANA 3363	Inter Business Analysis	3
BUAD 2301	Business Legal Environment	3
BUAD 3335	Business Communication	3
ECON 2301	Principles Of Macroeconomics	3
ECON 2302	Principles Of Microeconomics [1]	3
ECON 3000-4000 [2]		
FINC 3320	Business Finance	3
MGIS 3310	Principles of MIS	3
MGMT 3310	Principles Of Management	3
MGMT 3370	Operations Management	3
MGMT 4390	Strategic Management & Policy	3
MKTG 3310	Principles Of Marketing	3

[1] Satisfies a University core requirement

[2] Specific course may be specified by the major.

Major-Specific Requirements

A minimum grade of "C" is required in all Management courses taken for the Human Resource Management major. Also, a minimum grade of "C" is required for BUAD 3360 - HR Law.

Degree Plan

Code	Title	Hours
Bachelor of Business Administration, Major in Human Resource Management		
Core Curriculum		
Component Area I (Communication)		6
Component Area II (Mathematics)		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4

First Year

Fall	Hours	Spring	Hours
Component Area III	4	Component Area III	4
ECON 1100, KINE 2115, NGLI 1101, or MCOM 1130[1]	1	Component Area V	3
ENGL 1301[2]	3	BUAD 1305 or CSTE 1330	3
HIST 1301[3]	3	ENGL 1302[2]	3
MATH 1324[4]	3	HIST 1302[3]	3
	14		16

Second Year

Fall	Hours	Spring	Hours
Component Area IV	3	ACCT 2302	3
ACCT 2301	3	BUAD 2301	3
BANA 2372	3	BUAD 2321 or COMS 2382[1]	3
ECON 2302	3	ECON 2301[6]	3
POLS 2305[5]	3	POLS 2306[5]	3
	15		15

Third Year

Fall	Hours	Spring	Hours
BANA 3363	3	ECON 3351	3
FINC 3320	3	MGIS 3310	3
MGMT 3310	3	MGMT 3320	3
MKTG 3310	3	MGMT 3330	3
PSYC 1301 or SOCI 1301	3	MGMT 3370	3
	15		15

Fourth Year

Fall	Hours	Spring	Hours
ACCT 3304	3	Business Elective (3000- or 4000-level)[7]	3
BUAD 3335	3	Elective(s)	3
BUAD 3360	3	MGMT 4335	3
MGMT 4330	3	MGMT 4355	3
MGMT 4345	3	MGMT 4390	3
	15		15

Total Hours: 120

1 Satisfies requirement for Core Curriculum Component Area IX (Component Area Option).
2 Satisfies requirement for Core Curriculum Component Area I (Communication).
3 Satisfies requirement for Core Curriculum Component Area VI (U.S. History).
4 Satisfies requirement for Core Curriculum Component Area II (Mathematics).
5 Satisfies requirement for Core Curriculum Component Area VII (Political Science/Government).
6 Satisfies requirement for Core Curriculum Component Area VIII (Social and Behavioral Sciences).
7 Business courses include any course with a ACCT, BANA, BUAD, ECON, FINC, MGMT, MKTG, or MGIS prefix.

Bachelor of Business Administration, Major in Management

Each BBA degree consists of:

- the University Core Curriculum
- the Business Core [1]
- courses required for the major
- a speech communications course (BUAD 2321 or COMS 2382) that also satisfies a University core requirement
- a computer literacy course (BUAD 1305 or CSTE 1330)
- elective(s)

Transfer students must take at least 50% of the required business curriculum for the BBA in residence at Sam Houston State University, which may include courses taken at The Woodlands Center (http://www.shsu.edu/academics/woodlands-center) campus or through SHSU Online (http://distance.shsu.edu).

[1] The Business Core is made up of the following courses:

Code	Title	Hours
ACCT 2301	Principles Of Financial Acc	3
ACCT 2302	Principles Of Managerial Acc	3
BANA 2372	Business Analysis	3
BANA 3363	Inter Business Analysis	3
BUAD 2301	Business Legal Environment	3
BUAD 3335	Business Communication	3
ECON 2301	Principles Of Macroeconomics	3
ECON 2302	Principles Of Microeconomics [1]	3
ECON 3000-4000 level [2]		3
FINC 3320	Business Finance	3
MGIS 3310	Principles of MIS	3
MGMT 3310	Principles Of Management	3
MGMT 3370	Operations Management	3
MGMT 4390	Strategic Management & Policy	3
MKTG 3310	Principles Of Marketing	3

1 Satisfies a University core requirement

2 Specific course may be specified by the major.

Major-Specific Requirements

A minimum grade of "C" is required in all Management courses taken for the Management major.

Degree Plan

Code	Title	Hours
Bachelor of Business Administration, Major in Management		
Core Curriculum		
Component Area I (Communication)		6
Component Area II (Mathematics)		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4

First Year

Fall	Hours	Spring	Hours
Component Area III	4	Component Area III	4
ECON 1100, KINE 2115, NGLI 1101, or MCOM 1130[1]	1	Component Area V	3
ENGL 1301[2]	3	ENGL 1302[1]	3
HIST 1301[3]	3	HIST 1302[2]	3
MATH 1324[4]	3	BUAD 1305 or CSTE 1330	3
	14		16

Second Year

Fall	Hours	Spring	Hours
Component Area IV	3	ACCT 2302	3
ACCT 2301	3	BUAD 2301	3

BANA 2372	3 BUAD 2321 or COMS 2382[4]	3
ECON 2302	3 ECON 2301[6]	3
POLS 2305[5]	3 POLS 2306[5]	3
	15	15

Third Year

Fall	Hours	Spring	Hours
BANA 3363	3	ECON 3357, 4357, or 4365	3
FINC 3320	3	MGIS 3310	3
MGMT 3310	3	MGMT 3320	3
MKTG 3310	3	MGMT 3330	3
PSYC 1301 or SOCI 1301	3	MGMT 3370	3
	15		15

Fourth Year

Fall	Hours	Spring	Hours
ACCT 3304	3	Elective	3
BUAD 3335	3	MGMT 4345	3
MGMT Elective[7]	3	MGMT 4390	3
MGMT Elective[7]	3	MGMT Elective[7]	3
MKTG 4340	3	MGMT Elective[7]	3
	15		15

Total Hours: 120

1 Satisfies requirement for Core Curriculum Component Area IX (Component Area Option).

2 Satisfies requirement for Core Curriculum Component Area I (Communication).

3 Satisfies requirement for Core Curriculum Component Area VI (U.S. History).

4 Satisfies requirement for Core Curriculum Component Area II (Mathematics).

5 Satisfies requirement for Core Curriculum Component Area VII (Political Science/Government).

6 Satisfies requirement for Core Curriculum Component Area VIII (Social and Behavioral Sciences).

7 Management Electives, choose from the following (4 total):

Code	Title	Hours
MGMT 3325	New Product Commercialization	3
MGMT 3327	Mgt of Innovation & Technology	3
MGMT 3348	Small Business Management	3
MGMT 4325	Family Business Management	3
MGMT 4327	Corporate Entrepreneurship	3
MGMT 4330	Compensation	3
MGMT 4335	Mgt & Labor Relations	3
MGMT 4350	Project Management	3
MGMT 4355	Human Resource Development	3
MGMT 4360	Supply Chain Management	3
MGMT 4375	Quality Management	3
MKTG 3350	Services Marketing Management	3
MGIS 3330	Business Database Management	3

Supply Chain Management Concentration

Management majors can choose to concentrate in Supply Chain Management by taking the following courses.

Code	Title	Hours
MGMT 4360	Supply Chain Management	3

Management Electives, choose from the following (3 total):

Code	Title	Hours
MGMT 3325	New Product Commercialization	3

MGMT 3327	Mgt of Innovation & Technology	3
MGMT 4350	Project Management	3
MGMT 4365	Service Operations Management	3
MGMT 4375	Quality Management	3
MGIS 3330	Business Database Management	3
BANA 3364	Operations Research	3
ECON 4365	Intro To Bus Forecasting& Econ [1]	3

[1] If ECON 4365 is taken as a Supply Chain Management Elective, then either ECON 3357 or ECON 4357 must be taken as an upper level ECON class.

Bachelor of Business Administration, Major in Management (Supply Chain Management)

First Year

Fall	Hours	Spring	Hours
Component Area III	4	Component Area III	4
ECON 1100, KINE 2115, or NGLI 1101[1]	1	Component Area V	3
ENGL 1301[2]	3	BUAD 1305 or CSTE 1330	3
HIST 1301[3]	3	ENGL 1302[2]	3
MATH 1324[4]	3	HIST 1302[3]	3
	14		16

Second Year

Fall	Hours	Spring	Hours
Component IV	3	ACCT 2302	3
ACCT 2301	3	BUAD 2301	3
BANA 2372	3	BUAD 2321 or COMS 2382	3
ECON 2302	3	ECON 2301[6]	3
POLS 2305[5]	3	POLS 2306[5]	3
	15		15

Third Year

Fall	Hours	Spring	Hours
BANA 3363	3	ECON 3357, 4357, or 4365	3
FINC 3320	3	MGIS 3310	3
MGMT 3310	3	MGMT 3320	3
MKTG 3310	3	MGMT 3330	3
PSYC 1301 or SOCI 1301	3	MGMT 3370	3
	15		15

Fourth Year

Fall	Hours	Spring	Hours
ACCT 3304	3	General Electives	3
BUAD 3335	3	MGMT 4345	3
MGMT 4360	3	MGMT 4390	3
MKTG 4340	3	Technical Electives[7]	3
Technical Electives[7]	3	Technical Electives[7]	3
	15		15

Total Hours: 120

1 Satisfies requirement for Core Curriculum Component Area IX (Component Area Option).

2 Satisfies requirement for Core Curriculum Component Area I (Communication).

3 Satisfies requirement for Core Curriculum Component Area VI (U.S. History).

4 Satisfies requirement for Core Curriculum Component Area II (Mathematics).

5 Satisfies requirement for Core Curriculum Component Area VII (Political Science/Government).

6 Satisfies requirement for Core Curriculum Component Area VIII (Social and Behavioral Sciences).

[7] Technical Electives, choose **3 courses** from the following list:

Code	Title	Hours
BANA 3364	Operations Research	3
ECON 4365	Intro To Bus Forecasting& Econ [1]	3
MGMT 3325	New Product Commercialization	3
MGMT 3327	Mgt of Innovation & Technology	3
MGMT 4350	Project Management	3
MGMT 4365	Service Operations Management	3
MGMT 4375	Quality Management	3
MGIS 3330	Business Database Management	3

[1] ECON 4365 will not be counted twice.

Bachelor of Business Administration, Major in Management Information Systems

Each BBA degree consists of:

- the University Core Curriculum
- the Business Core [1]
- courses required for the major
- a speech communications course (BUAD 2321 or COMS 2382) that also satisfies a University core requirement
- a computer literacy course (BUAD 1305 or CSTE 1330)
- elective(s)

Transfer students must take at least 50% of the required business curriculum for the BBA in residence at Sam Houston State University, which may include courses taken at The Woodlands Center campus or through SHSU Online.

[1] The Business Core is made up of the following courses:

Code	Title	Hours
ACCT 2301	Principles Of Financial Acc	3
ACCT 2302	Principles Of Managerial Acc	3
BANA 2372	Business Analysis	3
BANA 3363	Inter Business Analysis	3
BUAD 2301	Business Legal Environment	3
BUAD 3335	Business Communication	3
ECON 2301	Principles Of Macroeconomics	3
ECON 2302	Principles Of Microeconomics [1]	3
ECON 3000-40000 level [2]		3
FINC 3320	Business Finance	3
MGIS 3310	Principles of MIS	3
MGMT 3310	Principles Of Management	3
MGMT 3370	Operations Management	3
MGMT 4390	Strategic Management & Policy	3
MKTG 3310	Principles Of Marketing	3

[1] Satisfies a University core requirement

[2] Specific course may be specified by the major.

Degree Plan

Code	Title	Hours
Bachelor of Business Administration, Major in Management Information Systems		
Core Curriculum		
Component Area I (Communication)		6

Component Area II (Mathematics)	3
Component Area III (Life and Physical Science)	8
Component Area IV (Language, Philosophy, and Culture)	3
Component Area V (Creative Arts)	3
Component Area VI (U.S. History)	6
Component Area VII (Political Science/Government)	6
Component Area VIII (Social and Behavioral Sciences)	3
Component Area IX (Component Area Option)	4

First Year

Fall	Hours	Spring	Hours
Component Area III	4	Component Area III	4
ECON 1100, KINE 2115, NGLI 1101, or MCOM 1130[1]	1	Component Area V	3
ENGL 1301[2]	3	BUAD 1305 or CSTE 1330	3
HIST 1301[3]	3	ENGL 1302[2]	3
MATH 1324[4]	3	HIST 1302[3]	3
	14		16

Second Year

Fall	Hours	Spring	Hours
Component Area IV	3	ACCT 2302	3
ACCT 2301	3	BUAD 2321 or COMS 2382[1]	3
BANA 2372	3	BUAD 2301	3
ECON 2302[5]	3	ECON 2301[5]	3
POLS 2305[6]	3	POLS 2306[6]	3
	15		15

Third Year

Fall	Hours	Spring	Hours
BANA 3363	3	ECON 3357, 4357, or 4365	3
FINC 3320	3	MGIS 3330	3
MGIS 2320	3	MGMT 3370	3
MGIS 3310	3	MIS Technical Electives[7]	3
MGMT 3310	3	MKTG 3310	3
	15		15

Fourth Year

Fall	Hours	Spring	Hours
BUAD 3335	3	General Electives	3
MGIS 4330	3	MGIS 3320	3
MIS Technical Electives[7]	3	MGIS 4340	3
MIS Technical Electives[7]	3	MGMT 4390	3
MGIS 4350	3	MIS Technical Electives[7]	3
	15		15

Total Hours: 120

1 Satisfies requirement for Core Curriculum Component Area IX (Component Area Option).

2 Satisfies requirement for Core Curriculum Component Area I (Communication).

3 Satisfies requirement for Core Curriculum Component Area VI (U.S. History).

4 Satisfies requirement for Core Curriculum Component Area II (Mathematics).

5 Satisfies requirement for Core Curriculum Component Area VIII (Social and Behavioral Sciences).

6 Satisfies requirement for Core Curriculum Component Area VII (Political Science/Government).

7 MIS Technical Electives, choose **4 total** from the following list.

Code	Title	Hours
MGIS 4360	Design & Implementation Of Erp	3

MGIS 4085	Special Topic	1-3
MGMT 4350	Project Management	3
ACCT 3324	Prn Accounting Systems Design	3
GEOG 2464	Intro to Geographic Info Sys	4
DFSC 1316	DF and IA Fundamentals I	3
COSC 1436	Programming Fundamentals I	4
COSC 1437	Programming Fundamentals II	4
COSC 2327	Intro to Computer Networks	3
COSC 2347	Special Topics/Programming	3

Bachelor of Business Administration, Major in Marketing

Each BBA degree consists of

- the University Core Curriculum
- the Business Core [1]
- courses required for the major
- a speech communications course (BUAD 2321 or COMS 2382) that also satisfies a University core requirement
- a computer literacy course (BUAD 1305 or CSTE 1330)
- elective(s)

Transfer students must take at least 50% of the required business curriculum for the BBA in residence at Sam Houston State University, which may include courses taken at The Woodlands Center (http://www.shsu.edu/academics/woodlands-center) campus or through SHSU Online (http://distance.shsu.edu).

[1] The Business Core is made up of the following courses:

Code	Title	Hours
ACCT 2301	Principles Of Financial Acc	3
ACCT 2302	Principles Of Managerial Acc	3
BANA 2372	Business Analysis	3
BANA 3363	Inter Business Analysis	3
BUAD 2301	Business Legal Environment	3
BUAD 3335	Business Communication	3
ECON 2301	Principles Of Macroeconomics	3
ECON 2302	Principles Of Microeconomics [1]	3
ECON 3000-4000 level [2]		3
FINC 3320	Business Finance	3
MGIS 3310	Principles of MIS	3
MGMT 3310	Principles Of Management	3
MGMT 3370	Operations Management	3
MGMT 4390	Strategic Management & Policy	3
MKTG 3310	Principles Of Marketing	3

[1] Satisfies a University core requirement

[2] Specific course may be specified by the major.

Major-Specific Requirements

Marketing majors must make a minimum grade of “C” or better in all Marketing (MKTG) courses taken to graduate with a BBA in Marketing.

Degree Plan

Code	Title	Hours
Bachelor of Business Administration, Major in Marketing		
Core Curriculum		
Component Area I (Communication)		6
Component Area II (Mathematics)		3

Component Area III (Life and Physical Science)	8
Component Area IV (Language, Philosophy, and Culture)	3
Component Area V (Creative Arts)	3
Component Area VI (U.S. History)	6
Component Area VII (Political Science/Government)	6
Component Area VIII (Social and Behavioral Sciences)	3
Component Area IX (Component Area Option)	4

First Year

Fall	Hours	Spring	Hours
Component Area III	4	Component Area III	4
ECON 1100, KINE 2115, NGLI 1101, or MCOM 1130[1]	1	Component Area V	3
ENGL 1301[2]	3	BUAD 1305 or CSTE 1330	3
HIST 1301[3]	3	ENGL 1302[2]	3
MATH 1324[4]	3	HIST 1302[3]	3
	14		16

Second Year

Fall	Hours	Spring	Hours
ACCT 2301	3	ACCT 2302	3
Component Area IV	3	BUAD 2321 or COMS 2382[1]	3
BANA 2372	3	BUAD 2301	3
ECON 2302	3	ECON 2301[6]	3
POLS 2305[5]	3	POLS 2306[5]	3
	15		15

Third Year

Fall	Hours	Spring	Hours
BANA 3363	3	ECON 3357, 4357, or 4365	3
FINC 3320	3	MGIS 3310	3
MGMT 3310	3	MGMT 3370	3
MKTG 3310	3	MKTG 3320	3
PSYC 1301 or SOCI 1301	3	MKTG Electives[7]	3
	15		15

Fourth Year

Fall	Hours	Spring	Hours
ACCT 3304	3	General Electives	3
BUAD 3335	3	MGMT 4390	3
MKTG 3328	3	MKTG 4340	3
MKTG 4350	3	MKTG 4390	3
MKTG Electives[7]	3	MKTG Electives[7]	3
	15		15

Total Hours: 120

1 Satisfies requirement for Core Curriculum Component Area IX (Component Area Option).

2 Satisfies requirement for Core Curriculum Component Area I (Communication).

3 Satisfies requirement for Core Curriculum Component Area VI (U.S. History).

4 Satisfies requirement for Core Curriculum Component Area II (Mathematics).

5 Satisfies requirement for Core Curriculum Component Area VII (Political Science/Government).

6 Satisfies requirement for Core Curriculum Component Area VIII (Social and Behavioral Sciences).

7 Marketing Technical Electives, choose **3 total** from the following list:

Code	Title	Hours
MKTG 3335	Retailing	3
MKTG 3350	Services Marketing Management	3

MKTG 3370	Mkt Comm Promotional Strategy	3
MKTG 4330	Sales Management	3
MGMT 4360	Supply Chain Management	3

Minor in Management

A minor in Management (18 hours) is available to all bachelor degree programs that permit a minor. The minor in Management requires the following courses with a minimum grade point average of 2.0 for all courses attempted at SHSU, as well as a minimum grade point average of 2.0 for all courses attempted in the minor, including both in residence and transfer hours.

Code	Title	Hours
Minor in Management		
MGMT 3310	Principles Of Management	3
MGMT 3320	Organizational Behavior	3
12 additional advanced hours in MGMT courses		12
Total Hours		18

Furthermore, degree candidates for a minor in Management must achieve a minimum 2.0 grade point average for all hours attempted in management courses, residence and transfer hours combined.

Minor in Management Information Systems

A minor in Management Information Systems (18 hours) is available to all bachelor degree programs that permit a minor. The minor in Management Information Systems requires the following courses with a minimum grade point average of 2.0 for all courses attempted at SHSU, as well as a minimum grade point average of 2.0 for all courses attempted in the minor, including both in residence and transfer hours.

Code	Title	Hours
Minor in Management Information Systems		
MGIS 2320	Business System Implementation	3
MGIS 3310	Principles of MIS	3
MGIS 3320	E-Commerce Implementation	3
MGIS 3330	Business Database Management	3
MGIS 4340	Systems Analysis & Design	3
MGIS 4350	Business Network Management	3
Total Hours		18

Furthermore, degree candidates for a minor in Management Information Systems must achieve a minimum 2.0 grade point average for all hours attempted in management information systems courses, residence and transfer hours combined.

Minor in Marketing

A minor in Marketing (18 hours) is available to all bachelor degree programs that permit a minor. The minor in Marketing requires the following courses with a minimum grade point average of 2.0 for all courses attempted at SHSU, as well as a minimum grade point average of 2.0 for all courses attempted in the minor, including both in residence and transfer hours.

Code	Title	Hours
Minor in Marketing		
MKTG 3310	Principles Of Marketing	3
15 additional advanced hours in Marketing		15
Total Hours		18

Furthermore, degree candidates for a minor in Marketing must achieve a minimum 2.0 grade point average for all hours attempted in business courses, including in residence and transfer hours whether required for the Marketing minor or not.

COLLEGE OF CRIMINAL JUSTICE

Administrative Officers

Title/Department	Officer
Dean	Phillip Lyons, J.D., Ph.D. plyons@shsu.edu; (936) 294-1635
Associate Dean for Academic Programs	Holly A. Miller, Ph.D. hmiller@shsu.edu; (936) 294-1686
Associate Dean for Research and Program Development	William King, Ph.D. wrk003@shsu.edu; (936) 294-1645
Department of Criminal Justice and Criminology	William Wells, Ph.D., Chair wmw005@shsu.edu; (936) 294-4817
Department of Forensic Science	Sarah Kerrigan, Ph.D., Chair sxk003@shsu.edu; (936) 294-4286
Department of Security Studies	Nadav Morag, Ph.D., Chair nxm040@shsu.edu; (936) 294-4128
Criminal Justice Graduate Programs	Danielle Boisvert, Ph.D., Director dxb014@shsu.edu; (936) 294-1644;
Criminal Justice Undergraduate Programs	Lisa Muftic, Ph.D. lrm028@shsu.edu; (936) 294-3871

Mission

The College of Criminal Justice is committed to providing students with a quality liberal arts education that develops critical thinking with a particular emphasis on the scientific method. Furthermore, students will gain an appreciation of their role as criminal justice professionals and as contributing members of society. As a part of a public university, the College also is committed to producing high quality research and public service.

The University baccalaureate core curriculum will provide the foundation for talents necessary to succeed in the criminal justice profession and in society. These talents include:

- an ability to communicate effectively, both orally and in writing.
- an ability to use numbers and symbols in the representation of reality and to engage in logical thinking.
- an appreciation of the scientific method and the contribution of the sciences.
- an appreciation of culture through the visual and performing arts.
- an appreciation of human diversity and the imperative of human values in the preservation of a free society.
- an understanding of the political nature of society and its role in the Union of the United States.
- an understanding of the role of the individual as part of the family, groups, organization, and society.
- an appreciation of moral and ethical judgment.
- an appreciation of self through physical, social, and psychological development.

Criminal Justice: Criminal justice is a discipline that encompasses the preservation and protection of social order in a free society. It includes such principles as democracy, rule of law, constitutionalism, civil liberties, and safeguarding people against intimidation and oppression. The Criminal Justice curriculum, which is based on the University's liberal arts core, is designed to prepare students for higher education or entering careers in criminal justice. Graduates are expected to continue their personal and professional development in a variety of practical settings. To achieve this mission, four dimensions of development serve as a basis for the curriculum.

Knowledge, Reasoning, Judgment: The Criminal Justice curriculum provides students with the opportunity and assistance to acquire knowledge of the roles of policing, courts, laws, victim studies, and corrections as they contribute to social order. Students will gain knowledge of the history, concepts, and critical issues in these areas through criminal justice required courses. The curriculum further provides a theoretical foundation of the discipline, combined with a thorough understanding of the scientific method as it applies to criminal justice. This combination is expected to sharpen the students' talents of reasoning and judgment — qualities imperative to rational functioning in the discipline.

Ability, Skills, Integration: The Criminal Justice curriculum provides students with the ability to achieve the professional goals of criminal justice. Students will learn how to integrate knowledge and practice in criminal justice. Furthermore, the curriculum provides students with an opportunity to develop the individual and group skills necessary to meet various role expectations.

Conduct, Professionalism, Ethics: The Criminal Justice curriculum provides students with an appreciation for the complexity and dilemmas associated with the criminal justice profession. Criminal Justice students will be exposed to the moral and ethical dimensions of the various careers within the discipline and will be charged with the essential aptitudes necessary for their professional conduct.

Vision, Change, Adaptation: The Criminal Justice curriculum provides students with an understanding of the discipline as it currently exists and as it is envisioned to be in the future. The Criminal Justice student will be able to apply vision in the face of change and to respond to the evolving nature of criminal justice and society. Furthermore, students will be equipped with the tools of adaptation for making these changes.

The Criminal Justice program at Sam Houston State University was established by the Texas Legislature in 1965 under House Resolution 469, which directed the University to establish a program of excellence in criminal justice with four objectives:

- Provide training for undergraduate and graduate students preparing for careers in criminal justice;
- Provide a program of continuing education for professionals already employed in the field;
- Provide technical assistance and consultation services to criminal justice agencies; and
- Promote research on problems in crime and the administration of criminal justice.

The College of Criminal Justice has developed a regional and national reputation for excellence. The academic programs include a major in criminal justice at the bachelor's level and graduate degrees at the masters and doctoral levels. The program leading to the Doctor of Philosophy in Criminal Justice is available only to students already holding an advanced degree.

Highlights

- The Criminal Justice Center is a 130,000 square foot facility which houses a courtroom, auditorium, conference facilities, hotel and café.
- The Criminal Justice Center encompasses the Bill Blackwood Law Enforcement Institute of Texas, the Correctional Management Institute of Texas, and the Crime Victims' Institute.
- The Criminal Justice program boasts one of the largest and most productive faculties in the United States with experts in the field of law, law enforcement, police administration, criminology, corrections, history, psychology, security studies, terrorism, victim studies, forensic anthropology, and forensic science.
- Recruiters from various agencies around the world visit the center on a regular basis and the College offers its own Career Fair each March.
- Students receive real world experience by participating in agency tours, internships, and regional/national conferences.

Academic Programs

Major	Degree(s)
Criminal Justice	B.A., B.S.
Victim Studies	B.A., B.S.

Suggested Minors

- Accounting
- Biology
- Chemistry
- Communication Studies
- Computer Science
- Forensic Anthropology
- Forensic Science
- Foreign Language
- General Business
- Homeland Security Studies
- Information Assurance
- Psychology
- Sociology

Career Opportunities

- Police Agencies - Federal, State, County, Municipal
- Security Management
- Immigration/Customs Enforcement
- Border Patrol
- Drug Enforcement

- Private Investigation
- Probation
- Parole
- Family/Child Services
- Correctional Advisor/Counselor
- Game Warden
- Military Police
- Military Intelligence
- Victim Services Specialist

Student Organizations and Activities

- Alpha Phi Sigma National Criminal Justice Honor Society
- Crime Victims Service Alliance
- Lambda Alpha Epsilon Criminal Justice Association
- National Association of Blacks in Criminal Justice
- National Associate of Hispanics in Criminal Justice
- Phi Alpha Delta Pre-Law Society
- Society of Forensic Science

The College of Criminal Justice hosts a variety of events for students including special guest lecturers at Real Talk with CJ, College of Criminal Justice Career Fair, College of Criminal Justice Undergraduate Conference, victimology fairs, and mock courtroom trials.

Internships/Study Abroad

The College of Criminal Justice has the largest internship program in the country. Through the Internship Program, many criminal justice agencies in the United States have had an opportunity to recruit dedicated and well-educated men and women for careers in law enforcement, corrections, victim services, law, forensic science and a variety of social service agencies that work with the offender. Students interested in serving as interns must have maintained a cumulative grade point average of at least 2.50 in all coursework and be classified as seniors. Field placements range from local to international agencies with emphases on law enforcement, corrections, courts/legal services, victim services and support/social services. The following is a list of some of the agencies used as field placements:

- Bureau of Alcohol, Tobacco, and Firearms
- Drug Enforcement Administration
- Federal Bureau of Investigations
- Federal Law Enforcement Training Center
- INTERPOL
- Pinkerton Investigative Services
- Texas Attorney General
- Texas Department of Public Safety
- Texas Parks and Wildlife
- United Nations
- United States Custom Service
- United States Department of State
- United States Marshal Service
- United States Secret Service
- White House Security, Washington D.C.

The College of Criminal Justice offers a variety of study abroad opportunities to contrasting locales, including Turkey, Poland, Italy, Korea, Spain, and China. Traveling with SHSU turns an ordinary trip into an unforgettable experience. Students may receive 3 hours of academic credit for study abroad. Classes include study of justice administration in the study country, including: victimology, human rights issues, police training, crime patterns and trends, correctional systems and criminal and procedural law. For more information, visit (http://www.shsu.edu/academics/criminal-justice/services/forms.html)Criminal Justice Study Abroad (http://www.shsu.edu/academics/criminal-justice/services/forms.html)

Scholarships

Scholarships are available to criminal justice majors and awarded in the spring of each year at the College of Criminal Justice Honors Convocation for the following academic year. With the exception of incoming freshmen scholarships, a student must have completed at least one long semester at Sam Houston State University. For more information, visit CJ scholarship. (http://www.shsu.edu/academics/criminal-justice/services/scholar.html)

Sam Houston State University is authorized by the Texas Higher Education Coordinating Board to offer a Bachelor of Arts degree and a Bachelor of Science degree with a major in Criminal Justice or Victim Studies. Coursework for these degrees is offered by the College of Criminal Justice. The prefix designation for registration purposes is "CRIJ"

Information on Programs and Grants

For additional information regarding admission requirements, degree programs, description of courses, and scholarships available to students, please refer to appropriate sections of the Undergraduate Catalog or the Graduate Catalog of Sam Houston State University. Brochures and information regarding the College of Criminal Justice baccalaureate, master's, and doctoral programs may be obtained by visiting our website www.cjcenter.org (http://www.cjcenter.org) or by writing:

Dean and Director
College of Criminal Justice
Sam Houston State University
Huntsville, Texas 77341-2296

Requests for information concerning loans, grants, and other financial aid to undergraduate students should be addressed to the:

Student Financial Aid Office
Sam Houston State University
Huntsville, Texas 77341-2328.

Department of Criminal Justice & Criminology

Chair
William Wells (WMW005@shsu.edu)
Contact the Department of Criminal Justice and Criminology (cjadvising@shsu.edu)
(936) 294-4128
Website
Department of Criminal Justice and Criminology (http://www.shsu.edu/academics/criminal-justice-old/departments/criminal-justice-and-criminology)

About

Be a part of one of the highest ranked Criminal Justice and Criminology programs in the nation!

Our faculty, recently recognized as the most productive researchers in the country, provide foundational courses you need for careers in criminal justice, victim studies, and the many related fields. Students can focus on a career in law enforcement, corrections, or meeting the needs of crime victims at both the undergraduate and graduate levels of education. In 2015 and 2016, the U.S. News & World Report rated our on-line Master's degree programs #1 in the United States for Criminal Justice. Students can continue their education as a criminal justice researcher by exploring one of our Master's or Ph.D. programs. Sam Houston State University's Department of Criminal Justice and Criminology is one of the largest and most prestigious criminal justice programs in the nation.

You have a bright future at SHSU! The opportunities in our Department are endless, with flexible course offerings to fit your schedule:

- Recruiters from criminal justice agencies and organizations visit the center on a regular basis.
- Students receive real world experience by participating in agency tours, internships, and regional/national conferences.
- Courses are offered on-line, daytime, and in the evening.

Mission

The Department of Criminal Justice and Criminology is committed to conducting high quality research that will enhance the knowledge base among our student population, criminal justice agencies throughout the country and abroad, as well as the broader discipline. Student competencies are guided by an increased understanding of the role of criminal justice professionals, and research that underlies effective policy and practice. The Department is strongly committed to the provision of public service through applied research and related efforts with criminal justice agencies and community organizations.

Contact Information

Questions on Department of CJC Undergraduate Programs (cjadvising@shsu.edu)
Questions on Department of CJC Graduate Programs (pratt@shsu.edu)

Suggested Minors

- Communication Studies
- Computer Science
- Foreign Language
- Forensic Anthropology
- Forensic Science
- General Business
- Information Assurance
- Psychology
- Sociology
- Security Studies (new in Fall 2017)

Career Opportunities

- Police Agencies - Federal, State, County, Municipal
- Correctional Agencies - Jails, Prisons
- Crime Analyst
- Victim Advocacy
- Immigration/Customs Enforcement
- Border Patrol
- Drug Enforcement
- Probation

- Parole
- Family/Child Protective Services Services
- Correctional Advisor/Counselor
- Game Warden
- Military Police and Intelligence
- Victim Services Specialist
- Higher Education (Professor)

Curriculum

Sam Houston State University is authorized by the Texas Higher Education Coordinating Board to offer a Bachelor of Arts degree and a Bachelor of Science degree with a major in Criminal Justice or Victim Studies. Coursework for these degrees is offered in the Department of Criminal Justice and Criminology. The prefix designation for registration purposes is "CRIJ".

Program Specific Requirements

Please see the individual degree plans for degree specific requirements.

Code	Title	Hours
Criminal Justice Core		
CRIJ 2361	Intro To The Crim Justice Sys	3
CRIJ 2362	Criminology	3
CRIJ 2364	Fundamentals Of Criminal Law	3
CRIJ 2365	Correctional Sys & Practice	3
CRIJ 2367	Police Systems & Practices	3
CRIJ 3378	Intro To Methods Of Research	3
CRIJ 4385	Criminl Justc & Social Divrsty	3
CRIJ 3350	Victimology	3
Total Hours		24

Code	Title	Hours
Major (no Minor)		
Core Courses		24
Criminal Justice Advanced Electives		21
Total Hours		45

Code	Title	Hours
Major (With Approved Minor in Another Field)		
Core Courses		24
Criminal Justice Electives		12-15
Minor		18
Total Hours		54-57

- Bachelor of Arts, Major in Criminal Justice
- Bachelor of Science, Major in Criminal Justice
- Bachelor of Arts, Major in Victim Studies
- Bachelor of Science, Major in Victim Studies
- Minor in Criminal Justice

Student Organizations and Activities

- Alpha Phi Sigma National Criminal Justice Honor Society
- Crime Victims Service Alliance
- Lambda Alpha Epsilon Criminal Justice Association
- National Association of Blacks in Criminal Justice
- National Organization of Hispanics in Criminal Justice
- Phi Alpha Delta Pre-Law Society

- Kats for CASA

Attend some of the many events for students including special guest lecturers at Real Talk with CJ, a career fair, an undergraduate conference, and mock courtroom trials.

Internships

An integral part of all degree offerings is the opportunity for field placement experience. The College of Criminal Justice Internship Program (http://www.shsu.edu/academics/criminal-justice/services/intern.html) is designed to provide students valuable work experience, on-the-job training, and an opportunity to develop a professional networking base for the future. Students in this program are offered unparalleled opportunities to participate in one of the nation's leading internship programs in the field of criminal justice.

Scholarships

Scholarships are available to criminal justice majors and awarded in the spring of each year at the College of Criminal Justice Honors Convocation for the following academic year. With the exception of incoming freshmen scholarships, a student must have completed at least one long semester at Sam Houston State University. Information on specific scholarships available in the College of Criminal Justice are available through Cutty Gilbert (cutty@shsu.edu) at (936) 294-3755.

Chair: **William M Wells**

Brandy L Blasko, PHD (bblasko@shsu.edu), *Assistant Professor of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, PHD, Temple University; MA, John Jay College of C J; BS, University of Pittsburgh

Danielle Lynne Boisvert, PHD (dxb014@shsu.edu), *Associate Professor of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, PHD, Univ of Cincinnati; MFS, George Washington University; BS, University of Western Ontario

Jeffrey A Bouffard, PHD, *Professor of Criminal Justice and Criminology*, *Department of Criminal Justice & Criminology*, PHD, Univ of Maryland-College Park; MA, Saint Michael'S Coll; BA, Suffolk University; BA, Suffolk University

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Bachelor of Arts, Major in Criminal Justice

Code	Title	Hours
Bachelor of Arts, Major in Criminal Justice		
Core Curriculum		
Component Area I (Communication)		6
Component Area II (Mathematics)		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4
Degree Specific Requirements		
ENGL 3330	Intro To Technical Writing (Must be taken in Residence)	3
Select one of the following:		3-4
MATH 3379	Statistical Mthods In Practice	
PSYC 3402	Psychological Statistics	
SOCI 3443	Social Statistics	
STAT 3379	Statistical Methds In Practice	
Foreign Language [1]		14
Criminal Justice Major Core		
CRIJ 2361	Intro To The Crim Justice Sys [2]	3
CRIJ 2362	Criminology [3]	3
CRIJ 2364	Fundamentals Of Criminal Law [4]	3
CRIJ 2365	Correctional Sys & Practice [4]	3
CRIJ 2367	Police Systems & Practices [4]	3
CRIJ 3350	Victimology [5]	3
CRIJ 3378	Intro To Methods Of Research [6]	3
CRIJ 4385	Criminl Justc & Social Divrsty (Must be taken after CRIJ 3378) [5]	3
Criminal Justice Major Electives		
CRIJ Advanced Electives		21
General Electives		19
General Electives (Advanced)		3
Minor (if required)		
Total Hours		120-121

1. FOLG 2311 and FOLG 2312 satisfy the requirement for Component Area IV (Language, Philosophy, and Culture) as well as three hours of Component Area IX (Component Area Option).
2. CRIJ 2361 satisfies the Core Curriculum requirement for Component Area VIII (Social and Behavioral Science).
3. May be completed either Fall or Spring semester of Year 1.
4. May be completed either Fall or Spring semester of Year 2.
5. May be completed either Fall or Spring semester of Year 4.
6. May be completed either Fall or Spring semester of Year 3.

Notes:

Forty-two semester hours of advanced coursework (3000 or 4000 level) are the absolute minimum. Minimum number of semester hours in residence: 30 semester hours of which 24 must be advanced.

Use general electives to satisfy the 42 advanced hour requirement.

First Year

Fall	Hours	Spring	Hours
Component Area IX	1	Component Area II [5]	3
CRIJ 2361[1]	3	CRIJ 2362[6]	3
ENGL 1301[2]	3	ENGL 1302[2]	3
HIST 1301[3]	3	HIST 1302[3]	3
POLS 2305[4]	3	POLS 2306[4]	3
	13		15

Second Year

Fall	Hours	Spring	Hours
Component Area III	4	Component Area III	4
CRIJ 2364[7]	3	Component Area V	3
CRIJ 2365[7]	3	CRIJ 2367[7]	3
FOLG 1411[8]	4	FOLG 1412[8]	4
General Electives (3000/4000)	3		
	17		14

Third Year

Fall	Hours	Spring	Hours
CRIJ Electives (3000/4000)	6	CRIJ Electives (3000/4000)	6
CRIJ 3378[9]	3	FOLG 2312[8]	3
ENGL 3330[10]	3	General Electives	3
FOLG 2311[8]	3	General Electives (3000/4000)	3
	15		15

Fourth Year

Fall	Hours	Spring	Hours
CRIJ 4385[11]	3	CRIJ 3350[11]	3
CRIJ Electives (3000/4000)	6	CRIJ Electives (3000/4000)	3
General Electives	5	General Electives	5
STAT 3379, MATH 3379, PSYC 3402, or SOCI 3443	3-4	General Electives (3000/4000)	3
	17-18		14

Total Hours: 120-121

1 Satisfies Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).

2 Satisfies Core Curriculum requirement for Component Area I(Communication).

3 Satisfies Core Curriculum requirement for Component Area VI (U.S. History).

4 Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).

5 Recommend MATH 1314 or MATH 1332.

6 May be completed either Fall or Spring semester of Year 1.

7 May be completed either Fall or Spring semester of Year 2.

8 Satisfies the requirement for Component Area IV Language, Philosophy, and Culture).

9 May be completed either Fall or Spring semester of Year 3.

10 Must be taken in residence.

11 May be completed either Fall or Spring semester of Year 4.

Notes:

Forty-two semester hours of advanced coursework (3000 or 4000 level) are the absolute minimum. Minimum number of semester hours in residence: 30 semester hours of which 24 must be advanced.

Use general electives to satisfy the 42 advanced hour requirement.

Bachelor of Science, Major in Criminal Justice

Code	Title	Hours
Bachelor of Science, Major in Criminal Justice		
Core Curriculum		
Component Area I (Communication)		6
Component Area II (Mathematics)		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4
Degree Specific Requirements		
ENGL 3330	Intro To Technical Writing (Must be taken in Residence)	3
STAT/MATH 3379	Statistical Methds In Practice	3-4
or PSYC 3402	Psychological Statistics	
or SOCI 3443	Social Statistics	
Select five of the following:		15
COMS 3370	Intercultural Communication	
COMS 3371	Conflict, Negotiatn & Resolutn	
ECON 2300	Introduction To Economics	
PHIL 2303	Critical Thinking	
PHIL 3365	Modern Philosophy	
POLS 2306	Texas Government	
POLS 3393	Social Policy	
PSYC 1301	Introduction To Psychology	
PSYC 3331	Abnormal Psychology	
PSYC 3383	Psychology And The Law	
SOCI 1301	Principles Of Sociology	
SOCI 3324	Social Inequality	
Criminal Justice Major Core		
CRIJ 2361	Intro To The Crim Justice Sys [1]	3
CRIJ 2362	Criminology [2]	3
CRIJ 2364	Fundamentals Of Criminal Law [2]	3
CRIJ 2365	Correctional Sys & Practice [3]	3
CRIJ 2367	Police Systems & Practices [3]	3
CRIJ 3350	Victimology [4]	3
CRIJ 3378	Intro To Methods Of Research [4]	3
CRIJ 4385	Criminl Justc & Social Divrsty (Must be taken after CRIJ 3378)	3
Criminal Justice Major Electives		
CJ Advanced Electives		21
General Electives		9
General Electives (Advanced)		6
Minor (if required)		
Total Hours		120-121

1 Satisfies Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).

2 May be completed during Fall or Spring semester of Year 1.

3 May be completed during Fall or Spring semester of Year 2

4 May be completed during Fall or Spring semester of Year 3.

Notes

Forty-two semester hours of advanced coursework (3000 or 4000 level) are the absolute minimum. Minimum number of semester hours in residence: 30 semester hours of which 24 must be advanced.

Use general electives to satisfy the 42 advanced hour requirement.

First Year

Fall	Hours	Spring	Hours
Component Area IX	1	Component Area II (Recommend MATH 1314 or 1332)	3
CRIJ 2361[1]	3	Component Area V	3
CRIJ 2364[1]	3	CRIJ 2362[1]	3
ENGL 1301[2]	3	ENGL 1302[2]	3
HIST 1301[3]	3	HIST 1302[3]	3
	13		15

Second Year

Fall	Hours	Spring	Hours
Component Area III	4	Component Area III	4
Component Area IV	3	Component Area IX	3
CRIJ 2365[4]	3	CRIJ 2367[4]	3
Degree Specific Courses[5]	3	Degree Specific Courses[5]	3
POLS 2305[6]	3	POLS 2306[6]	3
	16		16

Third Year

Fall	Hours	Spring	Hours
Degree Specific Courses[5]	3	CRIJ 3350[7]	3
CRIJ 3378[7]	3	CRIJ Electives (3000/4000)	6
CRIJ Electives (3000/4000)	6	Degree Specific Courses[5]	6
ENGL 3330	3		
	15		15

Fourth Year

Fall	Hours	Spring	Hours
CRIJ 4385[8]	3	Advanced Electives (3000/4000)	6
CRIJ Electives (3000/4000)	6	CRIJ Electives (3000/4000)	3
General Electives	3	General Electives	6
STAT 3379, MATH 3379, PSYC 3402, or SOCI 3443	3-4		
	15-16		15

Total Hours: 120-121

1 May be completed during Fall or Spring semester of Year 1.

2 Satisfies Core Curriculum requirement for Component Area I (Communication).

3 Satisfies Core Curriculum requirement for Component Area VI (U.S. History).

4 May be completed during Fall or Spring semester of Year 2.

5 Degree Specific Courses include COMS 3370, COMS 3371, ECON 2300, PHIL 2303, POLS 2306, POLS 3393, PSYC 1301, PSYC 3331, SOCI 1301, and SOCI 3324.

6 Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government.

7 May be completed during Fall or Spring semester of Year 3.

8 May be completed during Fall or Spring semester of Year 4.

Bachelor of Arts, Major in Victim Studies

Code	Title	Hours
Bachelor of Arts, Major in Victim Studies		
Core Curriculum		
Component Area I (Communication)		6

Component Area II (Mathematics)		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4
Degree Specific Requirements		
MATH 3379	Statistical Mthods In Practice	3-4
or PSYC 3402	Psychological Statistics	
or SOCI 3443	Social Statistics	
or STAT 3379	Statistical Methds In Practice	
Foreign Language [1]		14
Victims Studies Major Core		
CRIJ 2361	Intro To The Crim Justice Sys [2]	3
CRIJ 2362	Criminology [3]	3
CRIJ 3350	Victimology [4]	3
CRIJ 3378	Intro To Methods Of Research [4]	3
CRIJ 4398	Prblm Analysis in Vict Studies	3
Victim Specific Courses		
Select two of the following:		6
CRIJ 3341	Aging, Crime and Victimization	
CRIJ 4338	Child Abuse And Neglect	
CRIJ 4383	Family Violence	
CRIJ 4390	Violence Against Women	
Victims Service Courses		
Select two of the following:		6
CRIJ 3351	Victim Service Delivery	
CRIJ 4351	Trauma and Crisis Intervention	
CRIJ 4370	Interviewing & Counseling	
POLS 3338	Victims Rights Politics & Plcy	
Social Justice Courses		
Select two of the following:		6
CRIJ 3340	Gender and Crime	
CRIJ 4385	Criminl Justc & Social Divrsty	
SOCI 3324	Social Inequality	
SOCI 3354	Age And Inequality	
Additional Electives		
Select three of the following:		9
CRIJ 2364	Fundamentals Of Criminal Law	
CRIJ 3368	Understanding Sexual Offending	
CRIJ 4362	Substance Use And Abuse	
CRIJ 4373	Ungr Intern Criminal Justice	
COUN 3321	Intro To Helping Relationship	
PHIL 4371	Death And Dying	
POLS 3393	Social Policy	
PSYC 2305	Professional Psychology	
PSYC 3331	Abnormal Psychology	
PSYC 2315	Psychology Of Adjustment	
SOCI 3341	Marriage And The Family	
General Elective		16

General Electives (Advanced)	12
Total Hours	120-121

1 FOLG 2311 satisfies the Core Curriculum requirement for Component Area IV, and FOLG 2312 satisfies three hours of the Core Curriculum requirement for Component Area IX.

2 CRIJ 2361 satisfies Core Curriculum requirement for Component Area VIII (Social and Behavioral Science).

3 May be completed during either Fall or Spring semester of Year 1.

4 May be completed during either Fall or Spring semester of Year 2.

Notes:

- Forty-two semester hours of advanced coursework (3000 or 4000 level) are the absolute minimum. Minimum number of semester hours in residence: 30 semester hours of which 24 must be advanced.
- Use general electives to satisfy the 42 advanced hour requirement.

First Year

Fall	Hours	Spring	Hours
Component Area II (Recommend MATH 1332 or 1314)	3	Component Area III	4
Component Area III	4	Component Area V	3
CRIJ 2361[1, 2]	3	CRIJ 2362[1]	3
ENGL 1301[3]	3	ENGL 1302[3]	3
HIST 1301[4]	3	HIST 1302[4]	3
	16		16

Second Year

Fall	Hours	Spring	Hours
Component Area IX	1	CRIJ 3350[5]	3
CRIJ 3378[5]	3	FOLG 1412	4
FOLG 1411	4	General Electives	3
General Electives	3	MATH 3379, STAT 3379, PSYC 3402, or SOCI 3443	3-4
POLS 2305[6]	3	POLS 2306[6]	3
	14		16-17

Third Year

Fall	Hours	Spring	Hours
Advanced Electives (3000/4000)	3	Advanced Electives (3000/4000)	3
FOLG 2311[7]	3	FOLG 2312[10]	3
General Electives	3	General Electives	3
Victim Services Courses[8]	3	Victim Services Courses[8]	3
Victim Specific Courses[9]	3	Victim Specific Courses[9]	3
	15		15

Fourth Year

Fall	Hours	Spring	Hours
Advanced Electives (3000/4000)	6	General Electives	4
CRIJ 4398	3	Social Justice Electives[11]	3
Social Justice Electives[11]	3	VCMS Additional Electives[12]	6
VCMS Additional Electives[12]	3		
	15		13

Total Hours: 120-121

1 May be completed during either Fall or Spring semester of Year 1.

2 Satisfies Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).

3 Satisfies Core Curriculum requirement for Component Area I (Communication).

4 Satisfies Core Curriculum requirement for Component Area VI (U.S. History).

5 May be completed during either Fall or Spring semester of Year 2.

6 Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).

7 Satisfies Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture)7

8 Victim Services Courses include CRIJ 4351, CRIJ 4370, or POLS 3338.

9 Victim Specific Courses include CRIJ 3341, CRIJ 4338, CRIJ 4383, or CRIJ 4390.

10 Satisfies three hours of the Core Curriculum requirement for Component Area IX (Component Area Option).

11 Social Justice Electives include CRIJ 3340, CRIJ 4385, SOCI 3324, SOCI 3325, or SOCI 3354.

12 Additional VCMS Electives include CRIJ 2364, CRIJ 3368, CRIJ 4362, CRIJ 4373, COUN 3321, PHIL 4371, POLS 3393, PSYC 2315, PSYC 3331, or SOCI 3341.

Notes:

- Forty-two semester hours of advanced coursework (3000 or 4000 level) are the absolute minimum. Minimum number of semester hours in residence: 30 semester hours of which 24 must be advanced.
- Use general electives to satisfy the 42 advanced hour requirement.

Bachelor of Science, Major in Victim Studies

Code	Title	Hours
Bachelor of Science, Major in Victim Studies		
Core Curriculum		
Component Area I (Communication)		6
Component Area II (Mathematics)		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4
Degree Specific Requirements		
MATH 3379	Statistical Mthods In Practice	3-4
or STAT 3379	Statistical Methds In Practice	
or PSYC 3402	Psychological Statistics	
or SOCI 3443	Social Statistics	
Select five of the following:		15
COMS 3370	Intercultural Communication	
COMS 3371	Conflict, Negotiatn & Resolutn	
ECON 2300	Introduction To Economics	
PHIL 2303	Critical Thinking	
PHIL 3365	Modern Philosophy	
POLS 3393	Social Policy	
PSYC 1301	Introduction To Psychology	
PSYC 3331	Abnormal Psychology	
PSYC 3383	Psychology And The Law	
SOCI 1301	Principles Of Sociology	
SOCI 3324	Social Inequality	
Victims Studies Major Core		
CRIJ 2361	Intro To The Crim Justice Sys [1 & 2]	3
CRIJ 2362	Criminology [1]	3
CRIJ 3378	Intro To Methods Of Research [3]	3
CRIJ 3350	Victimology	3
CRIJ 4398	Prblm Analysis in Vict Studies	3
Victim Specific Courses		
Select two of:		6
CRIJ 4338	Child Abuse And Neglect	

CRIJ 4383	Family Violence	
CRIJ 4390	Violence Against Women	
CRIJ 3341	Aging, Crime and Victimization	
Victims Service Courses		
Select two of the following:		6
POLS 3338	Victims Rights Politics & Plcy	
CRIJ 3351	Victim Service Delivery	
CRIJ 4351	Trauma and Crisis Intervention	
CRIJ 4370	Interviewing & Counseling	
Social Justice Courses		
Select two of the following:		6
CRIJ 4385	Criminl Justc & Social Divrsty	
CRIJ 3340	Gender and Crime	
SOCI 3324	Social Inequality	
SOCI 3354	Age And Inequality	
Additional VCMS Electives		
Select three of the following:		9
CRIJ 2364	Fundamentals Of Criminal Law	
CRIJ 3368	Understanding Sexual Offending	
CRIJ 4362	Substance Use And Abuse	
PHIL 4371	Death And Dying	
POLS 3393	Social Policy	
PSYC 2305	Professional Psychology	
PSYC 3331	Abnormal Psychology	
PSYC 2315	Psychology Of Adjustment	
SOCI 3341	Marriage And The Family	
COUN 3321	Intro To Helping Relationship	
CRIJ 4373	Ungr Intern Criminal Justice	
General Electives		18
Total Hours		120-121

1 May be completed during either Fall or Spring semester of Year 1.

2 Satisfies Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).

3 May be completed during either Fall or Spring semester of Year 2.

Notes

Forty-two semester hours of advanced coursework (3000 or 4000 level) are the absolute minimum. Minimum number of semester hours in residence: 30 semester hours of which 24 must be advanced.

Use general electives to satisfy the 42 advanced hour requirement.

First Year

Fall	Hours	Spring	Hours
Component Area II (recommend MATH 1332 or 1314)	3	Component Area III	4
Component Area III	4	Component Area V	3
CRIJ 2361[1, 2]	3	CRIJ 2362[1]	3
ENGL 1301[3]	3	ENGL 1302[3]	3
HIST 1301[4]	3	HIST 1302[4]	3
	16		16

Second Year

Fall	Hours	Spring	Hours
Component Area IV	3	Component Area IX	3
Component Area IX	1	CRIJ 3350[2]	3
CRIJ 3378[5]	3	Degree Specific Courses[6]	3

Degree Specific Courses[6]	3 POLS 2306[7]	3
POLS 2305[7]	3 MATH 3379, STAT 3379, PSYC 3402, or SOCI 3443	3-4
	13	15-16

Third Year

Fall	Hours	Spring	Hours
Degree Specific Courses[6]	3	Degree Specific Courses[6]	3
General Electives	6	General Electives	6
Victim Services Courses[8]	3	Victim Services Courses[8]	3
Victim Specific Courses[9]	3	Victim Specific Courses[9]	3
	15		15

Fourth Year

Fall	Hours	Spring	Hours
CRIJ 4398	3	General Electives	6
Degree Specific Courses[6]	3	Social Justice Electives[10]	3
General Electives	3	VCMS Additional Electives[11]	6
Social Justice Electives[10]	3		
VCMS Additional Electives[11]	3		
	15		15

Total Hours: 120-121

1 May be completed during either Fall or Spring semester of Year 1.

2 Satisfies Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).

3 Satisfies Core Curriculum requirement for Component Area I (Communications).

4 Satisfies Core Curriculum requirement for Component Area VI (U.S. History).

5 May be completed during either Fall or Spring semester of Year 2.

6 Degree Specific Courses include COMS 3370, COMS 3371, ECON 2300, PHIL 2303, PHIL 3365, POLS 3393, PSYC 1301, PSYC 3331, PSYC 3383, SOCI 1301, or SOCI 3324.

7 Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).

8 Victim Services Courses include CRIJ 4351, CRIJ 4370 or POLS 3338.

9 Victim Specific Courses include CRIJ 3341, CRIJ 4338 CRIJ 4383 orCRIJ 4390

10 Social Justice Electives include: CRIJ 3340, CRIJ 4385, SOCI 3324,SOCI 3325, or SOCI 3354

11 Additional VCMS Electives include: CRIJ 2364 CRIJ 3368 CRIJ 4362, CRIJ 4373, COUN 3321 PHIL 4371 POLS 3393, PSYC 2305, PSYC 2315, PSYC 3331, or SOCI 3341

Minor in Criminal Justice

Code	Title	Hours
Minor in Criminal Justice		
CRIJ 2361	Intro To The Crim Justice Sys	3
CRIJ 2362	Criminology	3
CRIJ 2364	Fundamentals Of Criminal Law	3
CRIJ 4385	Criminl Justc & Social Divrsty	3
CRIJ Advanced Elective		6
Total Hours		18

Department of Forensic Science

About

Chair
Sarah Kerrigan, PhD (Sarah.kerrigan@shsu.edu)

Mission

Our mission is to continuously improve and enhance the practice of forensic science through innovative teaching, research and service.

Vision

The Department of Forensic Science at SHSU envisions a future where institutes of higher education and forensic science service providers work in partnership to improve and strengthen forensic science and the criminal justice system as a whole.

Contact Information
Kelsie Bryand, MS. (kelsie@shsu.edu)
(936) 294-4370

Academic Programs

The Department of Forensic Science offers two minors, a master's degree, and a doctoral degree. For a listing of the programs offered within the Department of Forensic Science, please, reference the Programs tab on this page.

Highlights

The Master of Science in Forensic Science is accredited by the Forensic Science Education Programs Accreditation Commission (FEPAC (http://fepac-edu.org)). The program itself was established in 2001 and was the very first accredited program in Texas. The program gives students the flexibility to tailor a degree toward their individual interests and professional goals while working in a state-of-the art facility. We have been preparing students for careers in forensic science for over a decade, with proven success.

Sam Houston State University offers a PhD in Forensic Science for those seeking leadership positions or intending to pursue careers in research or education. The doctoral program at SHSU is an interdisciplinary science degree that can be completed in four to five years of full-time study.

The minor in Forensic Science is tailored towards criminal justice majors interested in pursuing investigative or non-laboratory based careers in forensic science (i.e., crime scene investigators) and science majors who may have an interest in traditional (laboratory-based) careers in forensic science. The minor in Forensic Anthropology provides hands-on training with state-of-the-art technology at the Southeast Texas Applied Forensic Science (STAFS) facility.

Career Opportunities

The forensic science program is designed to prepare graduates for successful careers in forensic science. Students not only develop scientific understanding essential to forensic science, but also acquire the practical skills, knowledge and problem solving abilities that will help them advance into leadership positions. Through extensive hands-on and laboratory instruction, students acquire the practical skills that are sought after by potential employers.

- Minor in Forensic Anthropology
- Minor in Forensic Science

Student Organizations and Activities

- Society of Forensic Science
- Graduate Student Organization (Criminal Justice)

Scholarships

Scholarship opportunities, assistantships, and financial assistance are available. Student assistantships and scholarships are awarded on a competitive basis based upon academic performance, GRE scores, letters of recommendation and previous laboratory experience.

Financial awards are available, including out-of-state tuition waivers. University policy requires all students to pay in-state tuition.

Information on graduate assistantships are available by contacting Kelsie Bryand (kelsie@shsu.edu) in the Department of Forensic Science at (936) 294-4370.

Information on specific scholarships available in the College of Criminal Justice are available through Cutty Gilbert (cutty@shsu.edu) at (936) 294-3755.

Please see the College of Criminal Justice section for information on college and university level scholarships.

Chair: **Sarah Kerrigan**

Patrick Buzzini, PHD (patrick.buzzini@shsu.edu), *Associate Professor of Forensic Science*, *Department of Forensic Science*, PHD, University of Lausanne; MS, University of Lausanne

Joan A Bytheway, PHD (jab039@shsu.edu), *Associate Professor of Forensic Science*, *Department of Forensic Science*, PHD, University of Pittsburgh; BA, University of Pittsburgh

David A Gangitano, PHD (dag006@shsu.edu), *Associate Professor of Forensic Science*, *Department of Forensic Science*, PHD, University of Buenos Aires; BS, University of Buenos Aires

Sheree Robyn Hughes-Stamm, PHD (sxh039@shsu.edu), *Assistant Professor of Forensic Science*, *Department of Forensic Science*, PHD, Bond University; BS, University of Queensland (The)

Sarah Kerrigan, PHD (sxk003@shsu.edu), *Professor and Chair of Forensic Science*, *Department of Forensic Science*, PHD, University of British Columbia; BSC, University of Hull

Bobby Lee LaRue, PHD (bll036@shsu.edu), *Associate Professor of Forensic Science*, *Department of Forensic Science*, PHD, Univ of North Texas; BS, Univ of North Texas

Madeline Jean Swortwood, PHD (mjs079@shsu.edu), *Assistant Professor of Forensic Science*, *Department of Forensic Science*, PHD, Florida Int'L Univ; BA, Duquesne University

Chi Chung Yu, PHD (ccy002@shsu.edu), *Associate Professor of Forensic Science*, *Department of Forensic Science*, PHD, Carleton University; MS, Central Police University; BS, Central Police University

Interim Faculty

Kelsie Dawn Bryand, MS (kds001@shsu.edu), *Adjunct Faculty*, *Department of Forensic Science*, MS, Sam Houston State University; BA, Texas AM University

Minor in Forensic Anthropology

The minor in Forensic Anthropology requires the completion of 17 credit hours (listed below). This minor is most suitably paired with Criminal Justice, Biology, or Nursing, however, is not limited to these majors.

Code	Title	Hours
Minor in Forensic Anthropology		
FORS 3331	Foundations of Applied Anthro	3
FORS 3366	Forensic Science	3
FORS 3420	Hum Osteol Analys of Hum Bone	4
FORS 4442	Intro to Forensic Anthropology	4
FORS 4343	Advanced Techniques in Forensic Anthropology	3
Total Hours		17

Minor in Forensic Science

A minor in Forensic Science requires the completion of 18 credit hours from the following list of courses, of which at least six credits must be 4000-level courses. This minor is most suitably paired with Criminal Justice, Biology, Chemistry, Computing Science, Nursing, or Psychology, however, is not limited to these majors.

Code	Title	Hours
Minor in Forensic Science		
Select six of the following:		18
CRIJ 2362	Criminology	
CRIJ 2364	Fundamentals Of Criminal Law	
CRIJ 2368	Criminal Investigation	
CRIJ 2394	Courts And Criminal Procedure	
FORS 3366	Forensic Science	
FORS 3380	Intro to Forensic Chemistry	
FORS 4310	Physical Evidence Techniques	
FORS 4320	Fundamentals of Forensic Bio	
FORS 4330	Fingerprint Examination	
FORS 4364	Crime Scene Invstg Techniques	
FORS 4380	Ethics & Prof Practice	
Total Hours		18

Department of Security Studies

About

Chair
Nadav Morag (nxm040@shsu.edu)

Contact Information
(936) 294-1646; Vivian Carlson (vxc003@shsu.edu)

Website
Department of Security Studies (http://www.shsu.edu/academics/criminal-justice/departments/security-studies)

Mission

The Master of Science in Homeland Security Studies is designed to help students meet the needs of the homeland security enterprise at all levels of government as well as the private sector. It provides a comprehensive understanding of the homeland security enterprise to students desiring to advance their knowledge, skills, and qualifications within this field.

The broad educational objective is to develop thinkers, analysts, managers and leaders who possess expertise in both conceptual and practical dimensions of homeland security. Graduates will gain factual knowledge in the field as well as develop their strategic thinking, analytical, and policy framing skills.

For greater convenience and ease of access, the program is housed at Sam Houston State University – the Woodlands Center, and students can choose face-to-face classes or online classes.

Academic Programs

The Department of Security Studies currently offers only an undergraduate minor. The Department also offers graduate degree and certificate programs. See the current graduate catalog for more details.

- Minor in Homeland Security Studies

Student Organizations and Activities

- Order of the Sword & Shield National Honor Society

The College of Criminal Justice hosts a variety of events for students, including special guest lecturers at Real Talk with CJ, a career fair, an undergraduate conference, and mock courtroom trials.

Chair: **Nadav Morag**

Natalie Danielle Baker, MS (natalie.baker@shsu.edu), *Assistant Professor of Security Studies*, *Department of Security Studies*, MS, Tulane University; MSPH, Tulane University; BS, Univ of Central Florida

Magdalena A Denham, EDD (mxm002@shsu.edu), *Assistant Professor of Security Studies*, *Department of Security Studies*, EDD, Sam Houston State University; MA, San Diego St Univ; BA, Univ of San Diego

Nathan P Jones, PHD (nxj008@shsu.edu), *Assistant Professor of Security Studies*, *Department of Security Studies*, PHD, Univ of Calif-Irvine; MA, Univ of Calif-Irvine; BA, Univ of Calif-Berkeley

Russell P Lundberg, PHD (rxl027@shsu.edu), *Assistant Professor of Security Studies*, *Department of Security Studies*, PHD, Pardee Rand Graduate School; MPHIL, Pardee Rand Graduate School; MPP, Univ of Maryland-College Park; BA, Hope College

Nadav Morag, PHD (nxm040@shsu.edu), *Associate Professor and Chair of Security Studies*, *Department of Security Studies*, PHD, Tel Aviv University; MA, Univ of Calif-Los Angeles; BA, Univ of Calif-Los Angeles

Interim Faculty

Laurie L Christensen, MS (llc022@shsu.edu), *Lecturer of Security Studies*, *Department of Security Studies*, MS, Sam Houston State University; BS, Univ of Houston-Main

D C Dozier, PHD (icc_dcd@shsu.edu), *Clinical Professor of Security Studies*, *Department of Security Studies*, PHD, Univ of Tx Health Science Cntr; JD, South Texas College of Law; MED, Univ of Houston-Main; BS, Sam Houston State University

Minor in Homeland Security Studies

At the undergraduate level, the Department of Security Studies offers a Minor in Homeland Security Studies. Required courses include the following courses:

Code	Title	Hours
Minor in Homeland Security Studies		
Required Courses		
SCST 2363	Intro to Homeland Security	3
SCST 3394	Global Terrorism & Homeland Security	3
SCST 4362	U.S. Security Post 9/11	3
Restricted Electives		
Choose two of the following:		6
SCST 4363	Homeland Sec Intelligence	
SCST 4364	Homeland Sec & Emergency Mgmt	
SCST 4365	Border Security	
SCST 4366	Drug Policy and Security	
SCST 4367	Critical Infrastructure Security	
Free Elective		
Choose any of the following:		3
Any upper division undergraduate course offered in SCST not already used for one of the above requirements.		
Any upper division course offered by another department related to Homeland Security Studies, with approval by the department chair.		
Total Hours		18

COLLEGE OF EDUCATION

Administrative Officers

Title/Department	Officer
Dean	Stacey Edmonson, Ed.D. sedmonson@shsu.edu; (936) 294-1101
Associate Dean of Research and Graduate Studies	Debra Price, Ph.D. edu_dpp@shsu.edu; 936) 294-1125
Associate Dean of Teacher Education	Sandra Stewart, Ed.D. sks050@shsu.edu; (936) 294-1103
Associate Dean of Planning and Assessment	Jannah Nerren,Ph.D. jannahnerren@shsu.edu; (936) 294-2539
Department of Curriculum and Instruction	Deborah Morowski, Ed.D., Chair dlm0098@shsu.edu; (936) 294-1213
Department of Educational Leadership	Julie Combs, Ed.D., Chair jpc002@shsu.edu; (936) 294-4659
Department of Counselor Education	Mary Nichter, Ph.D., Chair edu_msn@shsu.edu; (936) 294-3858
Department of Language, Literacy, and Special Populations	Salim Sehlaoui, Ed.D., Chair ass032@shsu.edu; (936) 294-3969
Department of Library Science	Holly Weimar, Ed.D., Chair haw001@shsu.edu; (936) 294-1150

About the College

The College of Education is comprised of five academic units:

1. Curriculum and Instruction;
2. Educational Leadership;
3. Counseling;
4. Language, Literacy, and Special Populations; and
5. Library Science.

Teacher Certification is also under the administrative purview of the College of Education.

Website: http://www.shsu.edu/academics/education/

Vision Statement

Preparing leaders to impact a diverse and evolving world.

Belief Statements

- What we all do matters.
- Innovation fosters creativity, critical thinking, and passion.
- Relevant experiences promote growth and inspires change.
- Strength is found in valuing diversity.
- Positive relationships influence success.

Academic Programs

Departments	Programs
Majors	
Bachelor of Arts in Interdisciplinary Studies	
Bachelor of Science in Interdisciplinary Studies	
Minors	
Early Childhood Education (not for certification)	Language, Literacy and Special Populations
Human Services	Counselor Education

Special Education (not for certification)	Language, Literacy, and Special Populations

Note: There is not an undergraduate major in Secondary Education. The primary teaching field will be listed as the major for students seeking certification in Grades 7-12.

Teacher Preparation Programs at Sam Houston State University

Levels of Certification

Level	Title
EC-6	Early Childhood 6th Grade
4-8	Middle Grades 4th-8th
6-12	Grades 6th-12th
7-12	Secondary 7th-12th
EC-12	All-level: Early Childhood-12th

College/Department Housing Major

Abbreviation	Title
COS	College of Sciences
COBA	College of Business Administration
COE	College of Education
CFAMC	College of Fine Arts and Mass Communication
CHS	College of Health Sciences
CHSS	College of Humanities and Social Sciences
C&I	Department of Curriculum and Instruction
LLSP	Department of Language, Literacy and Special Populations

Content Area	Level of Certification	Major College/Department
Agricultural Science and Technology	6-12	COS: Agriculture
Art	EC-12	CFAMC: Art
Generalist	EC-6	COE: Curriculum and Instruction
Generalist with Bilingual Spanish	EC-6	COE: Curriculum and Instruction
Generalist with Special Education	EC-6, EC-12 (SPED)	COE: Curriculum and Instruction
Business Education	6-12	COBA: General Business
Computer Science	8-12	COS: Computer Science
Dance	8-12	CFAMC: Theatre & Dance
English, Language Arts and Reading	7-12	CHSS: English
English, Language Arts, and Reading/Social Studies	4-8	CHSS: English
Family & Consumer Sciences	6-12	CHS: Family & Consumer Sciences
Languages Other than English-French	EC-12	CHSS: Foreign Languages
Languages Other than English-German	EC-12	CHSS: Foreign Languages
Health	EC-12	CHS: Health Services and Promotion
History	7-12	CHSS: History
Journalism	7-12	CHSS: Mass Communication
Languages Other than English-Spanish	EC-12	CHSS: Foreign Languages
Life Science	7-12	COS: Biology
Mathematics	4-8	COE: C&I
Mathematics	7-12	CHSS: Mathematics
Mathematics/Science	4-8	COE: C&I
Music	EC-12	CFAMC: Music
Physical Education	EC-12	CHS: Health Services and Promotion
Physical Sciences	6-12	COS: Physics
Social Studies	7-12	CHSS: Polical Science, History
Speech	7-12	CFAMC: Mass Communication
Technology Applications	EC-12	COS: Computer Science

Technology Education	6-12	COS: Agriculture
Theatre or Theatre Arts	EC-12	COS: Theatre & Dance
Trade and Industrial Education	6-12	COS: Agriculture

Graduate Study

Graduate degrees offered through the College of Education are:

- Master of Arts,
- Master of Education,
- Master of Library Science,
- Master of Science,
- Doctor of Education, and
- Doctor of Philosophy.

The Graduate Catalog provides detailed information.

Internships

Internships in public schools are permitted only for candidates who already have a baccalaureate degree. The Student Teaching experience provides intensive, extended activity in the field for undergraduate teaching candidates.

Scholarships

Several academic scholarships are available for undergraduate teaching candidates through the academic departments in the College of Education; other scholarships are also available through the University. Information about departmental scholarships and application forms may be obtained at the College of Education Website. Information on University scholarships may be obtained by calling (936) 294-1672.

Required Field Experiences

Undergraduate and post-baccalaureate candidates are required to participate in field experiences in the public schools. Requirements for these activities vary by course and are coordinated by the Director of Educator Preparation Services. The Educator Preparation Services office facilitates a review of the criminal history background of each candidate to assure the safety of the public school children who interact with SHSU teaching candidates. This review is required by state law.

Admission to the Educator Preparation Program Admission Standards

In the first education class, candidates seeking initial Teacher Certification apply online for admission to the program. A one-time application fee is charged upon application. In addition, candidates for admission must obtain an online account in the College of Education data management system. Admission to the Educator Preparation program requires meeting each of the criteria listed below and will be pending until each requirement is satisfied. **Teaching candidates will not be permitted to participate in the Literacy Methods Block, Content Methods Block, or Student Teaching without full admission and continued academic good standing in the Educator Preparation Program.** The requirements are: **Demonstration of successful college performance:**

- 2.75 overall GPA (includes transfer hours and SHSU hours)
- 2.75 GPA in content area or teaching field
- "C" or above in all courses in the teaching field
- Video Interview
- Basic Skills Requirements found at Educator Preparation Services (http://www.shsu.edu/academics/education/educator-preparation-services)

Regular admission to the Educator Preparation program is required prior to placement in the Literacy Methods Block and/or Content Methods Block coursework. The requirements for admission to blocks are:

- Clear criminal history background check;
- Full admission and continued academic good standing in the Educator Preparation Program;
- Satisfactory demonstration of oral communication skills;
- 2.75 GPA in the teaching field or area of specialization; and
- No grade below "C" in courses required for the teaching field or certification.

Full Admission and continued academic good standing in the program are also required for placement in Student Teaching.

Teacher Certification

The preparation of teachers for the public schools in Texas is the responsibility of the entire Sam Houston State University community and the public school districts that participate Sam Houston's Innovative Partnerships with Schools (SHIPS). Students seeking certification in grades EC-6 or 4-8 will follow the degree plan for Interdisciplinary Studies. Students who wish to teach a content subject in grades 7-12 or 8-12 will major in a teaching field area (i.e. Mathematics, English, History) with a minor in Secondary Education (SED). Some specialized areas of teaching require certification for a wider range of grades, usually 6-12 or EC-12. The Certification Officer, located in the Steele Center for Professional Practice, will provide certification and grade level assignment information upon request.

All teaching certificates are issued by the State Board for Educator Certification (SBEC) under the supervision of the Texas Education Agency, upon recommendation of the University, and are subject to change. This recommendation includes verified completion of an approved program in educator preparation and a statement affirming the academic, moral, and physical fitness of the individual for service as a teacher. Sam Houston State University regards this recommendation process as a serious responsibility and has high standards for admission to candidacy in the SHSU Educator Preparation program, checkpoints throughout the program, and exit requirements.

Initial certification requires completion of a state-approved educator preparation program (programs are described below).

Individuals who already hold a bachelor's degree in a state approved certification area may apply for admission to the post-baccalaureate alternate route to certification which includes admission to candidacy in the SHSU Educator Preparation Program. Information on this program may be obtained through the College of Education Graduate Studies Office at (936) 294-1105.

State of Texas Certification Tests

Candidates must successfully complete state-mandated certification examinations in order to be recommended for a standard certification by Sam Houston State University. Candidates take certification tests in the teaching field/s and in professional and pedagogical knowledge. Guidelines and procedures for taking state mandated certification tests are available on the website for TExES (http://www.texes.ets.org) or at Educator Preparation Services (http://www.shsu.edu/academics/education/educator-preparation-services) or in the Garrett Teacher Education Center, Room 217. It is the responsibility of the student to be familiar with the Texas standards for their area to become familiar with the testing guidelines and procedures, to be aware of test registration deadlines, and to complete registration forms correctly.

Application for State Teaching Certification

After the undergraduate has successfully completed the program requirements for graduation and certification and passed the appropriate certification exams, application should be made online to the State Board of Educator Certification for the standard teaching certificate. The University makes a recommendation for certification after the online application and fingerprinting process has been completed and the degree has been posted on the student's transcript. After the post-baccalaureate candidate has successfully completed the program requirements for certification and passed the appropriate certification exams, the candidate applies online to the State Board of Educator Certification for his/her standard certificate using the same process. For further information, contact the SHSU Certification Officer at (936) 294-1045.

Candidates with a baccalaureate degree who wish to seek teacher certification as a post-baccalaureate student should contact the COE Graduate Studies Office at (936) 294-1105 for a transcript analysis.

Interdisciplinary Studies Leading to Certification in Early Childhood Through 6th Grade (EC-6) or 4th Grade Through 8th Grade (4-8)

For teaching in grades EC-6, the major is Interdisciplinary Studies with three choices for certification: The primary purpose of the Interdisciplinary Studies program is to prepare candidates to become exemplary teachers in Early Childhood through 6th grade (EC-6) classrooms and 4th grade through 8th grade (4-8) classrooms. The Interdisciplinary Studies program consists of at least 125 semester credit hours, including student teaching. In addition to meeting Texas Standards for EC-6 or 4-8 Teachers, these degree plan programs also prepare candidates to secure a supplemental certificate in English as a Second Language teaching, preferred by many school districts in Texas. The ESL supplemental certificate does not require proficiency in a second language, but prepares certification candidates for effective teaching of English language learners. **Candidates registered for nine hours during the student teaching semester are considered to be full-time students by SHSU.** Candidates majoring in Interdisciplinary Studies have the following choices of teaching certification:

- Generalist (EC-6 Generalist), or
- Generalist (EC-6 Generalist with Bilingual Education Supplement), or
- Generalist (EC-6 Generalis with EC-12 Special Education).

For teaching in grades 4-8, the major is Interdisciplinary Studies with three choices of a minor:

- English Language Arts and Reading/ Social Studies composite (4-8 ELAR/SS),
- Mathematics (4-8 Mathematics), or
- Mathematics/Science composite (4-8 Math/ Science).

While the Interdisciplinary Studies major is assigned to the Department of Curriculum and Instruction, interdisciplinary content courses in Reading, English as a Second Language, Special Education, Early Childhood and Bilingual Education are offered by the faculty in the Department of Language,

Literacy and Special Populations. For Interdisciplinary Studies majors, the current Texas Teaching Certificates awarded upon completion of all program requirements and successful performance on the related certification examinations are:

- EC-6 Generalist
- EC-6 Generalist with Bilingual Education Supplement
- EC-6 Generalist, with EC-12 Special Education
- 4-8 English Language Arts/Social Studies and ESL supplement
- 4-8 Mathematics and ESL supplement
- 4-8 Mathematics/Science ESL Supplement (all Interdisciplinary Studies candidates for this additional certificate)

Candidates majoring in Interdisciplinary Studies may also choose to minor in Early Childhood. That route DOES NOT lead to teaching certification. A teaching certificate for Early Childhood teachers is not offered by the State Board for Educator Certification. All of the above programs have a 42-hour common core of Foundation Courses and a common set of Professional Education Courses that does not exceed 24 semester credit hours. Each major has a unique set of Interdisciplinary Studies courses which vary in the number of hours depending on choice of certification. The Interdisciplinary Studies major component has a minimum of 48 hours. Degree plans which include dual certification fields will require additional semester hours of course credits. Students choosing one of these majors/minors should contact the education advisor in the SAM Center as soon as possible to learn the exact courses required for the selected minor and for advising to assist in a smooth progress through the program. All Interdisciplinary Studies majors are assessed at multiple benchmarks throughout their program and must be recommended at each checkpoint to progress through the program. Thus, they are:

1. required to apply for admission to Educator Preparation (see Admission to the Educator Preparation Programs, Admission Standards),
2. required to apply for placement in Literacy Block,
3. required to apply for placement in Methods Block, and
4. required to apply for Student Teaching.

Department of Counselor Education

Chair: Dr. Mary Nichter

The Department of Counselor Education currently offers a minor in Human Services at the undergraduate level. The department offers graduate degrees in School Counseling and Clinical Mental Health Counseling. See the current graduate catalog for more details.

- Human Services Minor

Chair: **Mary S. Nichter**

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Minor in Human Services

The Human Services minor field of study is offered by the Counseling Department. The counseling program is located in the Counselor Education Center, adjacent to the Teacher Education Center.

The Human Services minor is designed for students working toward a bachelor's degree who are interested in developing skills necessary to work with people in a variety of professional and personal settings. The goals for the 18 semester-hour minor are:

- introduce undergraduates to the helping professions, especially counseling in its many applications;
- involve undergraduates in courses that are highly experiential and that involve service learning opportunities;
- offer two sophomore level classes which can be useful electives for a wide range of majors, i.e. COUN 3321, and COUN 3322. COUN 3322 provides critical support for all undergraduate students as they prepare for the world of work; and
- expand student awareness of the Counseling profession through the upper division courses that explore a variety of approaches to counseling, observation of client-centered play sessions structured to facilitate child development, and Adlerian approaches to parent education and marriage enhancement (in COUN 4088).

Courses to be included in the 18 semester-hour undergraduate minor in Human Services are as follows:

Code	Title	Hours
Minor in Human Services		
Required Courses		
COUN 3321	Intro To Helping Relationship	3
Select three or four courses from the following:		9
COUN 3322	Career Development	
COUN 3331	Intro To Principles Of Counsln	
COUN 3332	Therapeutic Play Skills	
COUN 4379	Wellness Counseling	
Additional Courses		
Select one or two courses from the following:		6
FACS 3369	Family Relationships	
COMS 4386	Family Communication	
PSYC 3365	Close Relationships	
SOCI 3341	Marriage And The Family	
Total Hours		18

Department of Curriculum and Instruction

Chair: Dr. Deborah Morowski (edu_dxe@shsu.edu); (dlm098) (936) 294-1213

Assistant Chair:

Coordinators

Program	Coordinator	Email	Phone Number
Academic Studies/Interdisciplinary Studies	Dr. Karla Eidson	kwe002@shsu.edu	(936)294-4066
Middle Level Education	Dr. Victoria Hollas	torihollas@shsu.edu	(936)294-3225
Secondary Education	Dr. Lisa Brown	lob002@shsu.edu	(936) 294-1137
Post Baccalaureate	Dr. Jaime Coyne	jaime.berry@shsu.edu	(936)294-1137

Highlights

- Prepare elementary, middle, and secondary teachers
- Field based teacher preparation
- Research based curriculum
- Residency Opportunities

Program Specific Requirements

Required Field Experiences

Candidates for any teaching certificate participate in extensive field experiences in the public schools. Requirements for these activities vary by course and are coordinated by the Field Experience office.

Admission to the Educator Preparation Program

Students seeking initial Teacher Certification will apply for admission to the Educator Preparation Program in their first Education class. Subsequent program specific requirements are explained below.

Admission to the Methods Block

Candidates for certification at EC-6 and 4-8 levels must participate in a one-semester methods block which occurs prior to the student teaching semester. Candidates for certification in EC-12 and 7-12 levels must participate in two semesters of methods block which occur in the two semesters prior to student teaching. Students must apply to be accepted into the methods block specific to their major. The Department of Curriculum and Instruction determines the eligibility based on criteria, which includes unconditional admission to the Educator Preparation Program, 1000, 2000, 3000 level coursework completed, and dispositions. Students should consult their advisor to determine the process for application and admission.

Admission to Student Teaching

Student teaching is intended to be the culminating experiences in a candidate's preparation to become a teacher. The candidate should enroll in student teaching the final semester of their preparation program (see edu_ofe@shsu.edu for student teaching information). **Candidates registered for the companion course(s) and the six hours of student teaching during the student teaching semester are considered to be full-time students.**

Career Opportunities

- Classroom Teachers

Internships

Internships in public schools are permitted only for candidates who already have a baccalaureate degree and are enrolled in the Post-Baccalaureate Initial Certification Program. Post-Baccalaureate students may elect to take the undergraduate student teaching as an option when they do not secure the required teaching position which is required for the internship. Undergraduate teaching candidates can only participate in the student teaching block as the capstone of their professional program sequence

Academic Studies/Interdisciplinary Studies Program

The primary purpose of the Interdisciplinary Studies Program is to prepare candidates to become exemplary teachers in elementary and middle schools. The Interdisciplinary Studies Program* provides the course work necessary for candidates to receive certification for teaching grades EC-6 and 4-8.

Certification Areas

- EC-6 Core (Generalist)
- EC-6 Bilingual Core (Generalist)
- EC-6 Core (Generalist) with EC-12 Special Education
- 4-8 Core (Generalist)
- 4-8 English-Language Arts
- 4-8 Social Studies
- 4-8 Science
- 4-8 Mathematics

- Bachelor of Science, Major in Interdisciplinary Studies, EC-6 Core
- Bachelor of Science, Major in Interdisciplinary Studies, EC-6 Bilingual Core
- Bachelor of Science, Major in Interdisciplinary Studies, EC-6 Special Education Core
- Bachelor of Science, Major in Interdisciplinary Studies Certificate: 4-8 Core
- Bachelor of Science, Major in Interdisciplinary Studies Certificate: 4-8 ELAR
- Bachelor of Science, Major in Interdisciplinary Studies Certificate: 4-8 Mathematics
- Bachelor of Science, Major in Interdisciplinary Studies Certificate: 4-8 Science
- Bachelor of Science, Major in Interdisciplinary Studies Certificate, 4-8 Social Studies
- Bachelor of Science, Major in Interdisciplinary Studies, Early Childhood Education (Does not lead to Texas Teacher Certification)
- Minor in Secondary Education

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Bachelor of Science, Major in Interdisciplinary Studies Certificate, 4-8 Core

Code	Title	Hours
Bachelor of Science, Major in Interdisciplinary Studies, 4-8 Core		
Core Curriculum		
Component Area I (Communication)		6
Component Area II (Mathematics)		3
Component Area III (Life and Physical Science) [1]		8
Component Area IV (Language, Philosphy, and Culture)		3
Component Area V (Creative Arts) [1]		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and behavioral Sciences) [1]		3
Component Area IX (Component Area Option) [1]		4
Degree Specific Requirements		
BIOL 1436	Foundations Of Science [2]	4
ECON 1100	Economics of Social Problems [3]	1
ENGL 2332	Wrld Lit I: Before 17 Century [4]	4
or ENGL 2333	World Lit II: 17th C & After	
MATH 1384	Intro To Foundations Of Math I [5]	3
Major Core		
BESL 3301	Second Language Acquistion [6]	3
CIME 2313	Teaching as a Profession	3
CIME 3327	Integ Tech in Middle Grades [7]	3
CIME 3374	Human Growth & Learning [8]	3
CIME 3375	The Middle Level Child	3
CIME 3385	The Middle Grades Classroom	3
EDUC 1101	Educator Preparation	1
MATH 1385	Intro Foundations Of Math II	3
SPED 2301	Introduction to Exceptionality [9]	3
Major		
CHEM 1305 & CHEM 1105	Applying Chemistry to Society and Chemistry in Context Lab	4
HIST 3398	Texas And The Southwest	3
MATH 2384	Functions And Graphs	3
MATH 3386	Fundmtls Probability/Stats	3
PHYS 1305 & PHYS 1105	Classical Physics & Thermdynmc and Class Phy & Thermodynamics Lab	4
Field Experience I		
READ 3373	Content Area Rdg In Mid Grades	3
READ 3374	Voc & Word Stdy In Mid Grades	3
Field Experience II		
READ 3388	Read Methods/Assess-Mid Lev	3
READ 3389	Lang Arts/Assessment - Mid Lev	3
TESL 3303	Litr Strat for Eng Lng Lrners	3
SPED 3301	Learn and Instruc Child W/Disa	3
Field Experience III		
CIME 3376	Curriculum & Assmt For Mid Grd	3
CIME 4334	Teaching Math in Middle Grades	3
CIME 4335	Teaching Science in the Middle Grades	3
CIME 4336	Teaching Social Studies in the Middle Grades	3
TESL 4303	Teaching Eng As A Second Lang	3
Student Teaching		

CIME 4391	Student Teaching in the Middle Grades	3
CIME 4392	Student Teaching in the Middle Grades	3
EDUC 4301	Teacher Education Capstone	3
Total Hours		126

1 Component Area III: BIOL 1408 suggested; Component Area V: FAMC 2301 suggested; Component Area VIII: GEOG 1300, or BESL 2301 suggested.

2 BIOL 1436 satisfies the requirement for Component Area III (Life and Physical Science) and the major.

3 ECON 1100 satisfies the requirement for Component Area IX (Component Area Option) and the major.

4 ENGL 2332 OR ENGL 2333 satisfies the Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture) as well as the major.

5 MATH 1384 satisfies the requirement for Component Area II (Mathematics) and the major.

6 BESL 3301 prerequisite for TESL 3303.

7 CIME 3327 prerequisite for CIME Block.

8 CIME 3374 prerequisite for CIME 3327.

9 SPED 2301 prerequisite for SPED 3301.

First Year

Fall	Hours	Spring	Hours
Component Area I	3	Component Area I	3
Component Area VI	3	Component Area VI	3
Component Area V[1]	3	Component Area VII	3
BIOL 1436[2]	4	Component Area VIII[5]	3
ECON 1100[3]	1	COMS 2382	3
MATH 1384[4]	3	MATH 1385	3
	17		18

Second Year

Fall	Hours	Spring	Hours
Component Area VII	3	BESL 3301[7]	3
Component Area III[6]	4	CHEM 1305 & CHEM 1105	4
CIME 2313	3	CIME 3374[8]	3
EDUC 1101	1	MATH 3386	3
ENGL 2332 or 2333	3	SPED 2301[9]	3
MATH 2384	3		
	17		16

Third Year

Fall	Hours	Spring	Hours
CIME 3375	3	CIME 3327[10]	3
HIST 3398	3	CIME 3385	3
PHYS 1305 & PHYS 1105	4	READ 3388	3
READ 3373	3	READ 3389	3
READ 3374	3	SPED 3301	3
		TESL 3303	3
	16		18

Fourth Year

Fall	Hours	Spring	Hours
CIME 3376	3	CIME 4391	3
CIME 4334	3	CIME 4392	3
CIME 4335	3	EDUC 4301	3
CIME 4336	3		

TESL 4303	3	
	15	9

Total Hours: 126

1 Component Area V: FAMC 2301 suggested.
2 BIOL 1436 satisfies the requirement for Component Area III (Life and Physical Science) and the major.
3 ECON 1100 satisfies the requirement for Component Area IX (Component Area Option) and the major.
4 MATH 1384MATH 1384 satisfies the requirement for Component Area II (Mathematics) and the major.
5 GEOG 1300 OR BESL 2301 suggested.
6 BIOL 1408 satisfies the requirement for Component Area III (Life and Physical Science) and the major.
7 BESL 3301 prerequisite for TESL 3303
8 CIME 3374 prerequisite for CIME 3327.
9 SPED 2301 prerequisite for SPED 3301 .
10 CIME 3327 prerequisite for CIME Block

BS, Interdisciplinary Studies, 4-8 Social Studies

Code	Title	Hours
Bachelor of Science, major in Interdisciplinary Studies, 4-8 Social Studies		
Core Curriculum		
Component Area I (Communication)		6
Component Area II (Mathematics)		3
Component Area III (Life and Physical Science) [1]		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts) [1]		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option) [1]		4
Degree Specific Requirements		
BIOL 1408	Contemporary Biology [2]	4
ECON 1100	Economics of Social Problems [3]	1
ENGL 2332	Wrld Lit I: Before 17 Century [4]	3
or ENGL 2333	World Lit II: 17th C & After	
GEOG 1300	People, Place and the Envrnmt	3
MATH 1384	Intro To Foundations Of Math I [6]	3
Major Core		
Major		
BESL 3301	Second Language Acquistion [7]	3
ECON 2301	Principles Of Macroeconomics	3
CHEM 1305 & CHEM 1105	Applying Chemistry to Society and Chemistry in Context Lab	4
CIME 2313	Teaching as a Profession	3
CIME 3327	Integ Tech in Middle Grades [8]	3
CIME 3374	Human Growth & Learning [9]	3
CIME 3375	The Middle Level Child	3
CIME 3385	The Middle Grades Classroom	3
EDUC 1101	Educator Preparation	1
HIST 2311	World History to 1500	3
HIST 2312	World History since 1500	3
MATH 1385	Intro Foundations Of Math II	3
MATH 3381	Intro - Foundation Of Math III	3
SPED 2301	Introduction to Exceptionality [10]	3

HIST 3398	Texas And The Southwest	3
GEOG 3359	Regional Geography:Us & Canada	3
GEOG 4358	Geography Of Texas	3
Field Experience I		
READ 3373	Content Area Rdg In Mid Grades	3
READ 3374	Voc & Word Stdy In Mid Grades	3
Field Experience II		
TESL 3303	Litr Strat for Eng Lng Lrners	3
SPED 3301	Learn and Instruc Child W/Disa	3
Field Experience III		
CIME 3376	Curriculum & Assmt For Mid Grd	3
CIME 4336	Teaching Social Studies in the Middle Grades	3
READ 4310	Rdg & Lang Arts In Mid Grades	3
TESL 4303	Teaching Eng As A Second Lang	3
Student Teaching		
CIME 4391	Student Teaching in the Middle Grades	3
CIME 4392	Student Teaching in the Middle Grades	3
EDUC 4301	Teacher Education Capstone	3
Total Hours		128

1 Component Area III: BIOL 1436 suggested; Componenet Area IV: COMS 2382 suggested; Component Area V: FAMC 2301 suggested.

2 BIOL 1408 satisfies the requirement for Component Area III (Life and Physical Science) and the major.

3 ECON 1100 satisfies the requirement for Component Area IX (Component Area Option) and the major.

4 ENGL 2332 or ENGL 2333 satisfies the requirement for Component Area IV (Language, Philosophy, and Culture) and the major.

5 GEOG 1300 satisfies the requirement for Component Area VII (Social and Behavioral Science) and the major.

6 MATH 1384 satisfies the requirement for Component Area II (Mathematics) and the major

7 BESL 3301 prerequisite for TESL 3303

8 CIME 3327 prerequisite for CIME Block

9 CIME 3374 prerequisite for CIME 3327

10 SPED 2301 prerequisite for SPED 3301.

First Year

Fall	Hours	Spring	Hours
Component Area I	3	Component Area I	3
Component Area III[1]	4	Component Area IV[5]	3
Component Area V[2]	3	Component Area VI	3
Component Area VI	3	Component Area VII	3
ECON 1100[3]	1	GEOG 1300[6]	3
MATH 1384[4]	3	MATH 1385	3
	17		18

Second Year

Fall	Hours	Spring	Hours
BIOL 1408[6]	4	CHEM 1305 & CHEM 1105	4
CIME 2313	3	CIME 3374[9]	3
EDUC 1101	1	ECON 2301	3
ENGL 2332 or 2333[8]	3	HIST 2312	3
HIST 2311	3	MATH 3381	3
POLS 2306	3	SPED 2301[10]	3
	17		19

Third Year

Fall	Hours	Spring	Hours
BESL 3301[11]	3	CIME 3327[12]	3

CIME 3385	3 GEOG 3359	3
HIST 3398	3 GEOG 4358	3
READ 3373	3 SPED 3301	3
READ 3374	3 TESL 3303	3
	15	15

Fourth Year

Fall	Hours	Spring	Hours
CIME 3375	3	CIME 4391	3
CIME 3376	3	CIME 4392	3
CIME 4336	3	EDUC 4301	3
READ 4310	3		
TESL 4303	3		
	15		9

Total Hours: 125

1 Component Area III: BIOL 1436 suggested.
2 Component Area V: FAMC 2301 suggested.
3 ECON 1100 satisfies the requirement for Component Area IX (Component Area Option) and the major.
4 MATH 1384 satisfies the requirement for Component Area II (Mathematics) and the major.
5 Component Area IV: COMS 2382 suggested.
6 GEOG 1300 satisfies the requirement for Component Area VIII (Social and Behavioral Sciences) and the major.
7 BIOL 1408 satisfies the requirement for Component Area III (Life and Physical Science) and the major.
8 ENGL 2332 or ENGL 2333 satisfies the requirement for Component Area IV (Language, Philosophy, and Culture) and the major.
9 CIME 3374 prerequisite for CIME 3327
10 SPED 2301 prerequisite for SPED 3301.
11 BESL 3301 prerequisite for TESL 3303
12 CIME 3327 prerequisite for CIME Block.

BS, Major in Interdisciplinary Studies Certificate: 4-8 ELAR

Code	Title	Hours
Bachelor of Science, Major in Interdisciplinary Studies Certificate: 4-8 ELAR		
Core Curriculum		
Component Area I (Communication)		6
Component Area II (Mathematics)		3
Component Area III (Life and Physical Science) [1]		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts) [1]		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences) [1]		3
Component Area IX (Component Area Option) [1]		4
Degree Specific Requirements		
ENGL 2332	Wrld Lit I: Before 17 Century [2]	3
or ENGL 2333	World Lit II: 17th C & After	
MATH 1384	Intro To Foundations Of Math I [3]	3
Major Core		
BESL 3301	Second Language Acquistion [4]	3
CIME 2313	Teaching as a Profession	3
CIME 3374	Human Growth & Learning [5]	3
CIME 3385	The Middle Grades Classroom	3
EDUC 4301	Teacher Education Capstone	3
MATH 1385	Intro Foundations Of Math II	3

MATH 3381	Intro - Foundation Of Math III	3
READ 3380	Emergent & Beginning Literacy	3
SPED 2301	Introduction to Exceptionality [6]	3
Field Experience I		
READ 3373	Content Area Rdg In Mid Grades	3
READ 3374	Voc & Word Stdy In Mid Grades	3
Field Experience II		
CIME 3327	Integ Tech in Middle Grades [7]	3
READ 3388	Read Methods/Assess-Mid Lev	3
READ 3389	Lang Arts/Assessment - Mid Lev	3
SPED 3301	Learn and Instruc Child W/Disa	3
TESL 3303	Litr Strat for Eng Lng Lrners	3
Field Experience III		
CIME 3375	The Middle Level Child	3
CIME 3376	Curriculum & Assmt For Mid Grd	3
READ 4310	Rdg & Lang Arts In Mid Grades	3
READ 4325	Integration of Multiliteracies	3
TESL 4303	Teaching Eng As A Second Lang	3
Student Teaching Block		
CIME 4391	Student Teaching in the Middle Grades	3
CIME 4392	Student Teaching in the Middle Grades	3
EDUC 1101	Educator Preparation	1
Major		
ENGL 3338	Studies In Multicultural Lit	3
ENGL 3363	Mythology	3
ENGL 3372	Introduction to Linguistics	3
Total Hours		121

1 Component Area III: BIOL 1408 and 1436 suggested; Component Area V: FAMC 2301 suggested; Component Area VIII: GEOG 1321 or BESL 2301 suggested; Component Area IX: ECON 1100 and COMS 2382 suggested.

2 ENGL 2332 or ENGL 2333 satisfies the requirement for Component Area IV (Language, Philosophy, and Culture) and the major.

3 MATH 1385 satisfies the requirement for Component Area II (Mathematics) and the major.

4 BESL 3301 prerequisite for TESL 3303.

5 CIME 3374 prerequisite for CIME 3327

6 SPED 2301 prerequisite for SPED 3301

7 CIME 3327 prerequisite for CIME Block.

Notes

- Student Teaching Block is considered a FULL LOAD at SHSU. Please check prerequisites for Literacy Methods Block, Content Methods Block and Student Teaching.
- Field Experience in public schools is required for many CIEE, ECHE, CIME, READ, and SPED classes.
- Full admission to the Educator Preparation program is required prior to enrollment in Literacy or Content Methods and Student Teaching.

First Year

Fall	Hours	Spring	Hours
Component Area III[1]	4	Component Area VIII[1]	3
Componrnt Area V[1]	3	Component Area IX[1]	3
Component Area IX[1]	1	ENGL 1302[2]	3
ENGL 1301[2]	3	HIST 1302[3]	3
HIST 1301[3]	3	MATH 1385	3
MATH 1384[4]	3	POLS 2305[5]	3
	17		18

Second Year

Fall	Hours	Spring	Hours
Componenet Area III	4	CIME 3374[7]	3
ENGL 2332 or 2333[6]	3	ENGL 3338	3
CIME 2313	3	ENGL 3372	3
EDUC 1101	1	READ 3380	3
MATH 3381	3	SPED 2301[8]	3
POLS 2306[5]	3		
	17		15

Third Year

Fall	Hours	Spring	Hours
BESL 3301[9]	3	CIME 3327[10]	3
CIME 3385	3	READ 3388	3
ENGL 3363	3	READ 3389	3
READ 3373	3	SPED 3301	3
READ 3374	3	TESL 3303	3
	15		15

Fourth Year

Fall	Hours	Spring	Hours
CIME 3375	3	CIME 4391	3
CIME 3376	3	CIME 4392	3
READ 4310	3	EDUC 4301	3
READ 4325	3		
TESL 4303	3		
	15		9

Total Hours: 121

1 Component Area III: BIOL 1408 and 1436 suggested; Component Area V: FAMC 2301 suggested; Component Area VIII: GEOG 1321 or BESL 2301 suggested; Component Area IX: ECON 1100 and COMS 2382 suggested

2 Satisfies Core Curriculum requirement for Component Area I (Communication).

3 Satisfies Core Curriculum requirement for Component Area VI (U.S. History).

4 MATH 1384 satisfies the requirement for Component Area II (Mathematics) and the major.

5 Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).

6 ENGL 2332 and ENGL 2333 satisfies the requirement for Component Area IV (Language, Philosophy, and Culture) and the major.

7 CIME 3374 prerequisite for CIME 3327.

8 SPED 2301 prerequisite for SPED 3301.

9 BESL 3301 prerequisite for TESL 3303.

10 CIME 3327 prerequisite for CIME Block.

Note:

- Student Teaching Block is considered a FULL LOAD at SHSU. Please check prerequisites for Literacy Methods Block, Content Methods Block and Student Teaching.
- Field Experience in public schools is required for many CIEE, ECHE, CIME, READ, and SPED classes.
- Full admission to the Educator Preparation program is required prior to enrollment in Literacy or Content Methods and Student Teaching.

BS, Major in Interdisciplinary Studies, EC-6 Core

Code	Title	Hours
Bachelor of Science, Major in Interdisciplinary Studies, EC-6 Core		
Core Curriculum		
Component Area I (Communication)		6
Component Area II (Mathematics)		3
Component Area III (Life and Physical Science) [1]		8

Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts) [1]		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences) [1]		3
Component Area IX (Component Area Option)		4
Major		
Degree Specific Requirements		
BIOL 1408	Contemporary Biology [2]	4
PHYS 1305 & PHYS 1105	Classical Physics & Thermdynmc and Class Phy & Thermodynamics Lab	4
BIOL 1436	Foundations Of Science [2]	4
ENGL 2332	Wrld Lit I: Before 17 Century [3]	3
or ENGL 2333	World Lit II: 17th C & After	
MATH 1384	Intro To Foundations Of Math I [4]	3
MATH 1385	Intro Foundations Of Math II	3
Major Core		
BESL 3301	Second Language Acquistion [5]	3
CIEE 2333	Becoming A Teacher	3
CIEE 3343	Curriculum and Assessment	3
CIEE 3374	Human Growth & Learning	3
CIEE 3385	Creatng Env For Learng In Elem	3
CIEE 4377	Early Adolescent Learners	3
ECHE 3325	Creative Arts for Educators	3
ECHE 4350	Preschool Child Wellness	3
EDUC 1101	Educator Preparation	1
HIST 3398	Texas And The Southwest	3
MATH 3381	Intro - Foundation Of Math III	3
READ 3315	Teaching Multiple Literacies [6]	3
READ 3380	Emergent & Beginning Literacy [7]	3
SPED 2301	Introduction to Exceptionality [8]	3
Field Experience I		
CIEE 3334	Mth Instruction In Elem Grades	3
CIEE 3335	Sci Instruction In Elem Grades	3
Field Experience II		
CIEE 3336	Soc Stdy Instrctn In Elem Grds	3
READ 3383	Read Methods/Assessment - Elem	3
READ 3384	Lang Arts/Assessment - Elem	3
TESL 3313	ESL Methodology I	3
Field Experience III		
ECHE 4343	Curriculum for Early Childhood	3
SPED 4314	Literacy-Students with Exceptionalities	3
TESL 4314	ESL Methodology II	3
Clinical Teaching Block		
CIEE 4391	Std Tch Elementary School	3
CIEE 4392	Std Tch Elementary School	3
EDUC 4301	Teacher Education Capstone	3
Total Hours		125

1 Component Area IX COMS 2382 suggested; Component Area V: FAMC 2301 suggested; Component Area VIII:GEOG 1300 or BESL 2301 suggested

2 BIOL 1408 and BIOL 1436 satisfies the Core Curriculum requirement for Component Area III (Life and Physical Science) and the major.

3 ENGL 2332 or ENGL 2333 satisfies the Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture) and the major.

4 MATH 1384 satisfies the Core Curriculum requirement for Component Area II (Mathematics) and the major

5 BESL 3301 prerequisite for TESL 3313.

6 READ 3315 prerequisite for READ blocks.

7 READ 3380 prerequisite for READ blocks.

8 SPED 2301 prerequisite for SPED 3301

Notes

- Student Teaching Block is considered a FULL LOAD at SHSU. Please check prerequisites for Literacy Methods Block, Content Methods Block and Student Teaching.
- Field Experience in public schools is required for many CIEE, ECHE, CIME, READ, and SPED classes.
- Full admission to the Educator Preparation program is required prior to enrollment in Literacy or Content Methods and Student Teaching.

First Year

Fall	Hours	Spring	Hours
Compnenet Area V[1]	3	Component Area VIII[1]	3
BIOL 1408[2]	4	ENGL 1302[3]	3
ENGL 1301[3]	3	HIST 1302[4]	3
HIST 1301[4]	3	MATH 1385	3
MATH 1384[5]	3	POLS 2305[6]	3
	16		15

Second Year

Fall	Hours	Spring	Hours
Component Area IX[1]	4	BIOL 1436[8]	4
CIEE 2333	3	CIEE 3374	3
EDUC 1101	1	MATH 3381	3
ENGL 2332 or 2333[7]	3	READ 3315[9]	3
PHYS 1305 & PHYS 1105	4	READ 3380[10]	3
POLS 2306[6]	3	SPED 2301[11]	3
	18		19

Third Year

Fall	Hours	Spring	Hours
BESL 3301[12]	3	CIEE 3336	3
CIEE 3334	3	HIST 3398	3
CIEE 3335	3	READ 3383	3
CIEE 3343	3	READ 3384	3
CIEE 3385	3	TESL 3313	3
ECHE 3325	3		
	18		15

Fourth Year

Fall	Hours	Spring	Hours
CIEE 4377	3	CIEE 4391	3
ECHE 4343	3	CIEE 4392	3
ECHE 4350	3	EDUC 4301	3
SPED 4314	3		
TESL 4314	3		
	15		9

Total Hours: 125

1 Component Area IX: COMS 2382 suggested; Component Area V: FAMC 2301 suggested; Component Area VIII: GEOG 1300 or BESL 2301 suggested.

2 BIOL 1408atisfies the requirement for Component Area III (Life and Physical Science) and the major

[3] Satisfies Core Curriculum requirement for Component Area I (Communication).
[4] Satisfies Core Curriculum requirement for Component Area VI (U.S. History)
[5] MATH 1384 satisfies the requirement for Component Area II (Mathematics) and the major.
[6] Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).
[7] ENGL 2332 or ENGL 2333 satisfies the requirement for Component Area IV (Language, Philosophy, and Culture) and the major.
[8] BIOL 1436atisfies the requirement for Component Area III (Life and Physical Science) and the major.
[9] READ 3315 prerequisite for READ blocks.
[10] READ 3380 prerequisite for READ blocks.
[11] SPED 2301 prerequisite for SPED 3301 .
[12] BESL 3301 prerequisite for TESL 3313

Notes

- Student Teaching Block is considered a FULL LOAD at SHSU. Please check prerequisites for Literacy Methods Block, Content Methods Block and Student Teaching.
- Field Experience in public schools is required for many CIEE, ECHE, CIME, READ, and SPED classes.
- Full admission to the Educator Preparation program is required prior to enrollment in Literacy or Content Methods and Student Teaching.

BS, Major in Interdisciplinary Studies, EC-6 Bilingual Core

Code	Title	Hours
Bachelor of Science, Major in Interdisciplinary Studies, EC-6 Bilingual Core		
Core Curriculum		
Component Area I (Communication)		6
Component Area II (Mathematics)		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences) [1]		3
Component Area IX (Component Area Option)		4
Degree Specific Requirements		
BIOL 1408	Contemporary Biology [2]	4
ENGL 2332	Wrld Lit I: Before 17 Century [3]	3
or ENGL 2333	World Lit II: 17th C & After	
FAMC 2301	Creative Arts Seminar [4]	3
MATH 1384	Intro To Foundations Of Math I [5]	3
MATH 1385	Intro Foundations Of Math II	3
PHYS 1305 & PHYS 1105	Classical Physics & Thermdynmc and Class Phy & Thermodynamics Lab	4
Major Core		
BESL 3301	Second Language Acquistion [6]	3
BESL 4301	Spanish Fluency In Classroom	3
BESL 4305	Acad Lang in Dual Lang Prog	3
BIOL 1436	Foundations Of Science [2]	4
CIEE 2333	Becoming A Teacher	3
CIEE 3343	Curriculum and Assessment	3
CIEE 3374	Human Growth & Learning	3
CIEE 3385	Creatng Env For Learng In Elem	3
CIEE 4377	Early Adolescent Learners	3
ECHE 4350	Preschool Child Wellness	3
EDUC 1101	Educator Preparation	1
HIST 3398	Texas And The Southwest	3
MATH 3381	Intro - Foundation Of Math III	3

READ 3380	Emergent & Beginning Literacy	3
READ 3315	Teaching Multiple Literacies	3
SPAN 3361	Spanish Grammar & Composition	3
SPED 2301	Introduction to Exceptionality	3
Major		
Field Experience I		
CIEE 3334	Mth Instruction In Elem Grades	3
CIEE 3335	Sci Instruction In Elem Grades	3
Field Experience II		
CIEE 3336	Soc Stdy Instrctn In Elem Grds	3
READ 3383	Read Methods/Assessment - Elem	3
READ 3384	Lang Arts/Assessment - Elem	3
TESL 4303	Teaching Eng As A Second Lang	3
Field Experience III		
BESL 4303	Cur In Bilgl & Sec Lang Progs	3
BESL 4304	Lang Lrn Lit Dev In Mltlngl St	3
ECHE 4343	Curriculum for Early Childhood	3
Field Experience IV		
BESL 4320	Stu Tchg In Bilngl/Esl Classrm	3
CIEE 4391	Std Tch Elementary School	3
EDUC 4301	Teacher Education Capstone	3
Total Hours		131

1 Component Area VIII: GEOG 1321 or BESL 2301 suggested.

2 BIOL 1408 and BIOL 1436 satisfies the requirement for Component Area III (Life and Physical Science) and the major.

3 ENGL 2332 or ENGL 2333 satisfy the Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture) as well as the major.

4 FAMC 2301 satisfies the requirement for Component Area V (Creative Arts) as well as the major.

5 MATH 1384 satisfies the requirement for Component Area II (Mathematics) as well as the major.

SPAN 1411, 1412, 2311, 2312 are prerequisites for SPAN 3361

6 BESL 3301 prerequisite for TESL 4303

Notes

- Student Teaching Block is considered a FULL LOAD at SHSU. Please check prerequisites for Literacy Methods Block, Content Methods Block and Student Teaching.
- Field Experience in public schools is required for many CIEE, ECHE, CIME, READ, and SPED classes.
- Full admission to the Educator Preparation program is required prior to enrollment in Literacy or Content Methods and Student Teaching.

First Year

Fall	Hours	Spring	Hours
Component Area I	3	Component Area I	3
Component Area VI	3	Component Area VI	3
BIOL 1408[1]	4	Component Area VII	3
FAMC 2301[2]	3	Component Area VIII[2]	3
MATH 1384[3]	3	Component Area IX	3
		MATH 1385	3
	16		18

Second Year

Fall	Hours	Spring	Hours
Component Area VII	3	BESL 3301[6]	3
Component Area IX	1	CIEE 3374	3
CIEE 2333	3	MATH 3381	3
ENGL 2332 or 2333[5]	3	READ 3315	3
EDUC 1101	1	READ 3380	3

PHYS 1305 & PHYS 1105	4	SPAN 3361	3
SPED 2301	3		
	18		18

Third Year

Fall	Hours	Spring	Hours
BIOL 1436[1]	4	BESL 4301	3
CIEE 3334	3	CIEE 3336	3
CIEE 3335	3	HIST 3398	3
CIEE 3343	3	READ 3383	3
CIEE 3385	3	READ 3384	3
		TESL 4303	3
	16		18

Fourth Year

Fall	Hours	Spring	Hours
BESL 4303	3	BESL 4320	3
BESL 4304	3	CIEE 4391	3
BESL 4305	3	EDUC 4301	3
CIEE 4377	3		
ECHE 4343	3		
ECHE 4350	3		
	18		9

Total Hours: 131

1 BIOL 1408 satisfies the requirement for Component Area III (Life and Physical Science) and the major.

2 FAMC 2301 satisfies the requirement for Component Area V (Creative Arts) as well as the major.

3 MATH 1384 satisfies the requirement for Component Area II (Mathematics) as well as the major

4 Component Area VIII: GEOG 1321 or BESL 2301 suggested.

5 ENGL 2332 or ENGL 2333 satisfies the requirement for Component Area IV (Language, Philosophy, and Culture) and the major.

6 BESL 3301 is a prerequisite for TESL 4303

New Footnote SPAN 1411, 1412, 2311, 2312 are prerequisites for SPAN 3361

Notes:

- Student Teaching Block is considered a FULL LOAD at SHSU. Please check prerequisites for Literacy Methods Block, Content Methods Block and Student Teaching.
- Field Experience in public schools is required for many CIED, ECHE, CIME, READ, and SPED classes.
- Full admission to the Educator Preparation program is required prior to enrollment in Literacy or Content Methods and Student Teaching.

BS, Major in Interdisciplinary Studies, EC-6 Special Education Core

Code	Title	Hours
Bachelor of Science, Major in Interdisciplinary Studies, EC-6 Speical Education Core		
Core Curriculum		
Component Area I (Communication)		6
Component Area II (Mathematics)		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences) [1]		3
Component Area IX (Component Area Option) [1]		4
Degree Specific Requirements		

BIOL 1408	Contemporary Biology [2]	4
ENGL 2332	Wrld Lit I: Before 17 Century [3]	3
or ENGL 2333	World Lit II: 17th C & After	
FAMC 2301	Creative Arts Seminar [4]	3
MATH 1384	Intro To Foundations Of Math I [5]	3
Major Core		
BESL 3301	Second Language Acquistion [6]	3
BIOL 1436	Foundations Of Science [2]	4
CIEE 2333	Becoming A Teacher	3
CIEE 3343	Curriculum and Assessment	3
CIEE 3374	Human Growth & Learning	3
CIEE 3385	Creatng Env For Learng In Elem	3
ECHE 3325	Creative Arts for Educators	3
EDUC 1101	Educator Preparation	1
MATH 3381	Intro - Foundation Of Math III	3
READ 3315	Teaching Multiple Literacies	3
SPED 2301	Introduction to Exceptionality	3
SPED 3303	Supporting Social Success	3
SPED 3305	Assessment Practices in SPED	3
SPED 3312	Family & Dvrsty Issues in SPED	3
Field Experience I		
CIEE 3334	Mth Instruction In Elem Grades	3
CIEE 3335	Sci Instruction In Elem Grades	3
Field Experience II		
CIEE 3336	Soc Stdy Instrctn In Elem Grds	3
READ 3383	Read Methods/Assessment - Elem	3
READ 3384	Lang Arts/Assessment - Elem	3
SPED 4314	Literacy-Students with Exceptionalities	3
TESL 3313	ESL Methodology I	3
Field Experience III		
ECHE 4343	Curriculum for Early Childhood	3
SPED 4304	Transition Planning in SPED	3
SPED 4311	Content Learning in SPED	3
TESL 4314	ESL Methodology II	3
Clinical Teaching		
EDUC 4301	Teacher Education Capstone	3
CIEE 4391 & SPED 4305	Std Tch Elementary School and Student Teaching In Spec Ed	6
Major		
HIST 3398	Texas And The Southwest	3
MATH 1385	Intro Foundations Of Math II	3
PHYS 1305 & PHYS 1105	Classical Physics & Thermdynmc and Class Phy & Thermodynamics Lab	4
Total Hours		131

1 GEOG 1300 or BESL 2301 suggested for Component Area VIII (Social and Behavioral Science and COMS 2381 suggested for Component Area IX (Component Area Option).

2 BIOL 1408 and BIOL 1436 satisfy the requirement for Component Area III (Life and Physical Science) as well as the major.

3 ENGL 2332 orENGL 2333 satisfies the Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture as well as the major.

4 FAMC 2301 satisfies the Core Curriculum requirement for Component Area V (Creative Arts) as well as the major.

5 MATH 1384 satisfies the Core Curriculum requirement for Component Area II (Mathematics) as well as the major.

6 BESL 3301 prerequisite for TESL 3313

First Year

Fall	Hours	Spring	Hours
Component Area I	3	Component Area I	3
Component Area VI	3	Component Area VI	3
BIOL 1408[1]	4	Component Area VII	3
FAMC 2301[2]	3	Component Area VIII[4]	3
MATH 1384[3]	3	Component Area IX	1
		MATH 1385	3
	16		16

Second Year

Fall	Hours	Spring	Hours
Component Area IX	3	Component Area VII	3
CIEE 2333	3	CIEE 3374	3
EDUC 1101	1	MATH 3381	3
ENGL 2332 or 2333[5]	3	READ 3315	3
PHYS 1305 & PHYS 1105	4	SPED 3303	3
SPED 2301	3	SPED 3312	3
	17		18

Third Year

Fall	Hours	Spring	Hours
BIOL 1436[1]	4	CIEE 3336	3
BESL 3301[6]	3	HIST 3398	3
CIEE 3334	3	READ 3383	3
CIEE 3335	3	READ 3384	3
CIEE 3343	3	SPED 4314	3
CIEE 3385	3	TESL 3313	3
	19		18

Fourth Year

Fall	Hours	Spring	Hours
SPED 3305	3	CIEE 4391 & SPED 4305	6
ECHE 3325	3	EDUC 4301	3
ECHE 4343	3		
SPED 4304	3		
SPED 4311	3		
TESL 4314	3		
	18		9

Total Hours: 131

1 BIOL 1408 and BIOL 1436 satisfy the requirement for Component Area III (Life and Physical Science) and the major

2 FAMC 2301 satisfies the Core Curriculum requirement for Component Area V (Creative Arts) as well as the major.

3 MATH 1384 satisfies the Core Curriculum requirement for Component Area II (Mathematics) as well as the major

4 GEOG 1300 or BESL 2301 suggested for Component Area VIII (Social and Behavioral Science and COMS 2381 suggested for Component Area IX (Component Area Option).

5 ENGL 2332 or ENGL 2333 satisfies the Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture and the major

6 BESL 3301 prerequisite for TESL 3313

BS, Major in Interdisciplinary Studies Certificate: 4-8 Mathematics

Code	Title	Hours
Bachelor of Science, Major in Interdisciplinary Studies Certificate: 4-8 Mathematics		

Core Curriculum		
Component Area I (Communication)		6
Component Area II (Mathematics)		3
Component Area III (Life and Physical Science) [1]		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts) [1]		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences) [1]		3
Component Area IX (Component Area Option) [1]		4
Degree Specific Requirements		
ENGL 2332	Wrld Lit I: Before 17 Century [2]	3
or ENGL 2333	World Lit II: 17th C & After	
MATH 1384	Intro To Foundations Of Math I [3]	3
Major Core		1
EDUC 1101	Educator Preparation	1
BESL 3301	Second Language Acquistion	3
CIME 3374	Human Growth & Learning	3
CIME 3385	The Middle Grades Classroom	3
MATH 1385	Intro Foundations Of Math II	3
MATH 2384	Functions And Graphs	3
MATH 2385	Fundamentals Of Calculus	3
MATH 3380	Historical Perspec of Math	3
MATH 3383	Geometric Meas./Transformation	3
MATH 3384	Foundations Of Mathematics	3
MATH 3386	Fundmtls Probability/Stats	3
MATH 3387	Problem Solving-Middle Sch Mth	3
SPED 3301	Learn and Instruc Child W/Disa	3
Major		
TESL 3303	Litr Strat for Eng Lng Lrners	3
SPED 2301	Introduction to Exceptionality	3
CIME 2313	Teaching as a Profession	3
CIME 3327	Integ Tech in Middle Grades	3
CIME 3375	The Middle Level Child	3
Literacy Methods Block:		
READ 3373	Content Area Rdg In Mid Grades	3
READ 3374	Voc & Word Stdy In Mid Grades	3
Content Methods Block:		
CIME 3376	Curriculum & Assmt For Mid Grd	3
CIME 4334	Teaching Math in Middle Grades	3
CIME 4335	Teaching Science in the Middle Grades	3
TESL 4303	Teaching Eng As A Second Lang	3
Student Teaching Block:		
CIME 4391	Student Teaching in the Middle Grades	3
CIME 4392	Student Teaching in the Middle Grades	3
EDUC 4301	Teacher Education Capstone	3
Total Hours		122

1 Component III: Suggested BIOL 1408, BIOL 1436 CHEM 1305/CHEM 1105; Component V: Suggested FAMC 2301; Component VIII: Suggested BESL 2301 or GEOG 1300, Component IX COMS 2382.

2 ENGL 2332 or ENGL 2333 satisfies the requirement for Component Area IV (Language, Philosophy, and Culture) and the major

3 MATH 1384 satisfies the requirement for Component Area II (Mathematics) and the major.

Notes

- Student Teaching Block is considered a FULL LOAD at SHSU. Please check prerequisites for Literacy Methods Block, Content Methods Block and Student Teaching.
- Field Experience in public schools is required for many CIME, READ, and SPED classes.
- Full admission to the Educator Preparation program is required prior to enrollment in Literacy or Content Methods and Student Teaching.

First Year

Fall	Hours	Spring	Hours
Component Area III[1]	4	Component Area VIII[1]	3
Component Area V[1]	3	Component Area IX[1]	1
ENGL 1301[2]	3	ENGL 1302[2]	3
HIST 1301[3]	3	HIST 1302[3]	3
MATH 1384[4]	3	MATH 1385	3
		POLS 2305[5]	3
	16		16

Second Year

Fall	Hours	Spring	Hours
Component Area III[1]	4	CHEM 1305	3
CIME 2313	3	CHEM 1105	1
EDUC 1101	1	CIME 3374	3
ENGL 2332 or 2333[6]	3	MATH 2385	3
MATH 2384	3	MATH 3380	3
POLS 2306[5]	3	SPED 2301	3
	17		16

Third Year

Fall	Hours	Spring	Hours
BESL 3301[7]	3	CIME 3327	3
CIME 3385	3	MATH 3386	3
MATH 3383	3	MATH 3387	3
MATH 3384	3	SPED 3301	3
READ 3373	3	TESL 3303	3
READ 3374	3		
	18		15

Fourth Year

Fall	Hours	Spring	Hours
CIME 3375	3	CIME 4391	3
CIME 3376	3	CIME 4392	3
CIME 4334	3	EDUC 4301	3
CIME 4335	3		
TESL 4303	3		
	15		9

Total Hours: 122

1 Component III: Suggested BIOL 1408, BIOL 1436 CHEM 1305/CHEM 1105; Component V: Suggested FAMC 2301; Component VIII: Suggested BESL 2301 or GEOG 1300; Component IX COMS 2382

2 Satisfies Core Curriculum requirement for Component Area I (Communication).

3 Satisfies Core Curriculum requirement for Component Area VI (U.S. History).

4 MATH 1384 satisfies the requirement for Component Area II (Mathematics) and the major.

5 Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).

6 ENGL 2332 or ENGL 2333 satisfies the requirement for Component Area IV (Language, Philosophy, and Culture) and the major.

7 BESL 3301 prerequisite for TESL 3303

Note:

- Student Teaching Block is considered a FULL LOAD at SHSU. Please check prerequisites for Literacy Methods Block, Content Methods Block and Student Teaching.
- Field Experience in public schools is required for many CIME, READ, and SPED classes.
- Full admission to the Educator Preparation program is required prior to enrollment in Literacy or Content Methods and Student Teaching.

BS, Major in Interdisciplinary Studies Certificate: 4-8 Science

Code	Title	Hours
Bachelor of Science, Major in Interdisciplinary Studies Certificate: 4-8 Science		
Core Curriculum		
Component Area I (Communication)		6
Component Area II (Mathematics)		3
Component Area III (Life and Physical Science) [1]		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts) [1]		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences) [1]		3
Component Area IX (Component Area Option) [1]		4
Degree Specific Requirements		
ENGL 2332	Wrld Lit I: Before 17 Century [2]	3
or ENGL 2333	World Lit II: 17th C & After	
MATH 1384	Intro To Foundations Of Math I [3]	3
Major Core		
BESL 3301	Second Language Acquistion [4]	3
CIME 2313	Teaching as a Profession	3
CIME 3327	Integ Tech in Middle Grades [5]	3
CIME 3374	Human Growth & Learning [6]	3
CIME 3375	The Middle Level Child	3
CIME 3385	The Middle Grades Classroom	3
EDUC 1101	Educator Preparation	1
MATH 1385	Intro Foundations Of Math II	3
MATH 2384	Functions And Graphs	3
SPED 2301	Introduction to Exceptionality [7]	3
Field Experience I		
READ 3373	Content Area Rdg In Mid Grades	3
READ 3374	Voc & Word Stdy In Mid Grades	3
Field Experience II		
SPED 3301	Learn and Instruc Child W/Disa	3
TESL 3303	Litr Strat for Eng Lng Lrners	3
Field Experience III		
CIME 3376	Curriculum & Assmt For Mid Grd	3
CIME 4335	Teaching Science in the Middle Grades	3
TESL 4303	Teaching Eng As A Second Lang	3
Student Teaching		
CIME 4391	Student Teaching in the Middle Grades	3
CIME 4392	Student Teaching in the Middle Grades	3
EDUC 4301	Teacher Education Capstone	3
Major		
CHEM 1305 & CHEM 1105	Applying Chemistry to Society and Chemistry in Context Lab	4
GEOG 1401	Weather and Climate	4
GEOL 1403	Physical Geology	4

GEOL 1404	Historical Geology	4
Choose one of the following:		4
ASTR 3303	Life in the Universe	
ASTR 3383	Cosmic Catastrophes	
BIOL 1411	General Botany	
BIOL 1413	General Zoology	
BIOL 2401	Human Anatomy [8]	
GEOL 3330	Oceanography	
GEOL 3326	Environmental Geology	
PHYS 1305 & PHYS 1105	Classical Physics & Thermdynmc and Class Phy & Thermodynamics Lab	4
PHYS 1403	Stars & Galaxies	4
Total Hours		128

1 Component Area III: BIOL 1408 and 1436 suggested; Component Area V: FAMC 2301 suggested; Component Area VIII: GEOG 1321 or BESL 2301 suggested; Component Area IX: ECON 1100 and COMS 2382 suggested.

2 ENGL 2332 or ENGL 2333 satisfy the Core Curriculum requirement for Component Area IV Language, Philosophy, and Culture) as well as the major.

3 MATH 1384 satisfies the Core Curriculum requirement for Component Area II (Mathematics) as well as the major.

4 BESL 3301 prerequisite for TESL 3303.

5 CIME 3327 prerequisite for CIME Block.

6 CIME 3374 prerequisite for CIME 3327.

7 SPED 2301 prerequisite for SPED 3301.

8 BIOL 2401 recommended.

Notes

- Student Teaching Block is considered a FULL LOAD at SHSU. Please check prerequisites for Literacy Methods Block, Content Methods Block and Student Teaching.
- Field Experience in public schools is required for many CIEE, ECHE, CIME, READ classes.
- Full admission to the Educator Preparation program is required prior to enrollment in Literacy or Content Methods and Student Teaching.

First Year

Fall	Hours	Spring	Hours
Component Area III[1]	4	Component Area III[1]	4
Component Area V[1]	3	Component Area VIII[1]	3
Compoenent Area IX[1]	1	ENGL 1302[2]	3
ENGL 1301[2]	3	HIST 1302[3]	3
HIST 1301[3]	3	MATH 1385	3
MATH 1384[4]	3	POLS 2305[5]	3
	17		19

Second Year

Fall	Hours	Spring	Hours
Component Area IX[1]	3	CIME 3374[7]	3
CIME 2313	3	GEOL 1403	4
EDUC 1101	1	MATH 2384	3
ENGL 2332[6]	3	PHYS 1403	4
PHYS 1305 & PHYS 1105	4	SPED 2301[8]	3
POLS 2306[5]	3		
	17		17

Third Year

Fall	Hours	Spring	Hours
BESL 3301[9]	3	BIOL 2401[10]	4

CHEM 1305 & CHEM 1105	4 CIME 3327[11]	3
GEOG 1401	4 GEOL 1404	4
READ 3373	3 SPED 3301	3
READ 3374	3 TESL 3303	3
	17	17

Fourth Year

Fall	Hours	Spring	Hours
CIME 3375	3	CIME 4391	3
CIME 3376	3	CIME 4392	3
CIME 3385	3	EDUC 4301	3
CIME 4335	3		
TESL 4303	3		
	15		9

Total Hours: 128

1 Component Area III: BIOL 1408 and 1436 suggested; Component Area V: FAMC 2301 suggested; Component Area VIII: GEOG 1321 or BESL 2301 suggested; Component Area IX: ECON 1100 and COMS 2382 suggested.

2 Satisfies Core Curriculum requirement for Component Area I (Communication).

3 Satisfies Core Curriculum requirement for Component Area VI (U.S. History).

4 Satisfies Core Curriculum requirement for Component Area II (Mathematics) and major.

5 Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).

6 Satisfies Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture).

7 CIME 3374 prerequisite for CIME 3327.

8 SPED 2301 prerequisite for SPED 3301.

9 BESL 3301 prerequisite for TESL 3303

10 BIOL 2401 recommended.

11 CIME 3327 prerequisite for CIME Block.

Notes

- Student Teaching Block is considered a FULL LOAD at SHSU. Please check prerequisites for Literacy Methods Block, Content Methods Block and Student Teaching.
- Field Experience in public schools is required for many CIEE, ECHE, CIME, READ classes.
- Full admission to the Educator Preparation program is required prior to enrollment in Literacy or Content Methods and Student Teaching.

BS, Major in Interdisciplinary Studies, Early Childhood Education

Code	Title	Hours
Bachelor of Science, Major in Interdisciplinary Studies, Early Childhood Education		
Core Curriculum		
Component Area I (Communication)		6
Component Area II (Mathematics)		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4
Degree Specific Requirements		
BESL 2301	Multicultural Infl On Learning	3
BESL 3301	Second Language Acquistion	3
BIOL or CHEM or GEOL		4
CIEE 2333	Becoming A Teacher	3

CIEE 3374	Human Growth & Learning	3
COUN 3321	Intro To Helping Relationship	3
KINE 2330	First Aid & CPR - Am Red Cross	3
MATH		3
PHYS		4
READ 3380	Emergent & Beginning Literacy	3
SPED 2301	Introduction to Exceptionality	3
SPED 3301	Learn and Instruc Child W/Disa	3
SPED 3306	Behavioral Principles	3
ECHE electives		12
ECHE 4088	Spc Topics in Early Childhd Ed	3
ECHE 4349	Lang/Lit Development	3
Elective		1
Minor		
ECHE 3128	Field Exp - Early Childhood Ed (Taken for two semesters.)	2
ECHE 3229	Guidance Of Young Children	2
ECHE 3243	Curriculum For Early Childhood	2
ECHE 3313	Early Childhood Cognition	3
ECHE 3315	Developmentally Appropriate Creative Expression	3
ECHE 3363	Wrkng /W Families-Diverse Comm	3
ECHE 4333	Dev Appr Prog For Yng Children	3
Total Hours		120

First Year

Fall	Hours	Spring	Hours
Component Area II	3	Component Area III	4
Component Area VIII	3	Component Area V	3
Compoenent Area IX	1	ENGL 1302[1]	3
BIOL or CHEM or GEOL	4	HIST 1302[2]	3
ENGL 1301[1]	3	MATH	3
HIST 1301[2]	3		
	17		16

Second Year

Fall	Hours	Spring	Hours
Component Area IV	3	BESL 2301	3
Component Area III	4	ECHE or TECA Elective	3
Component Area IX	3	PHYS	4
CIEE 2333	3	POLS 2306[3]	3
POLS 2305[3]	3	SPED 2301	3
	16		16

Third Year

Fall	Hours	Spring	Hours
BESL 3301	3	COUN 3321	3
CIEE 3374	3	ECHE 3313 (Minor)	3
ECHE Elective	3	ECHE 3315 (Minor)	3
KINE 2330	3	ECHE 3363 (Minor)	3
SPED 3301	3	ECHE or TECA Elective	3
	15		15

Fourth Year

Fall	Hours	Spring	Hours
ECHE 3128 (Minor)[4]	1	ECHE 3128 (Minor)[4]	1
ECHE 3229 (Minor)	2	ECHE 4088	3

ECHE 3243 (Minor)	2 ECHE 4333 (Minor)	3
ECHE Elective	3 ECHE 4349	3
READ 3380	3 Elective	1
SPED 3306	3	
	14	11

Total Hours: 120

1 Satisfies Core Curriculum requirement for Component Area I (Communication).

2 Satisfies Core Curriculum requirement for Component Area VI (U.S. History)

3 Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).

4 Taken for two semesters.

Minor in Secondary Education

Teaching Field Major/Education Minor

Leading to Certification in the Secondary Grades

Candidates for teaching certificates in grades 7-12 will major in the teaching field of their choice. The certification advisor, usually a professor in the major department, will provide guidance regarding the degree plan and other requirements. Within the College of Education, the Department of Curriculum and Instruction will provide guidance regarding securing certification and professional education coursework. Students may contact the Department of Curriculum and Instruction at (936) 294-1146. Courses and requirements for secondary certification are shown below:

Code	Title	Hours
Professional Education Courses		
CISE 3384	The Teaching Profession	3
CISE 4380	Respon Of Pro Educator	3
CISE 4378	Content Literacy	3
CISE 4364	Mth Tch Secondary Schools	3
CISE 4379	Differentiated Pedagogy	3
CISE 4394	Creatng Env For Lrng-Secondary	3
CISE 4396	Std Tch Secondary Classroom	3
CISE 4397	Std Tch Secondary Classroom	3

Additional Degree Requirements for Secondary Certification Candidates

- English (ENGL 1301, ENGL 1302 and ENGL Literature [2000 level or higher]) (Core Curriculum Component Areas 1 and 4)
- Math (Core Curriculum Component Area 2)
- Science (Core Curriculum Component Area 3)
- Fine Arts (Core Curriculum Component Area 4)
- History and Political Science (Core Curriculum Component Area 5)
- Kinesiology or accepted substitutes (Core Curriculum Component Area 6)

All secondary certification minors are:

- required to meet the admission requirement for the Educator Preparation Program, and to maintain good standing while attending SHSU (see Admission to the Educator Preparation Programs- Admission Standards);
- required to apply for the secondary methods block (CISE 4364, and CISE 4379)
- required to apply for student teaching (contact edu_ofe@shsu.edu for student teaching information).

Note: The above requirements represent a sequence of mandatory checkpoints. Candidates must be recommended at each checkpoint to progress through the program.

Department of Educational Leadership

About

Chair:

Dr. Julie Combs (jpc002@shsu,edu)

Contact Information

Phone: (936) 294-1147

Website: Department of Educational Leadership (http://www.shsu.edu/academics/educational-leadership)

Mission

The Department of Educational Leadership prepares culturally responsive educational leaders and professional counselors who promote meaningful societal change.

Belief Statements:

- We believe that faculty members lead by example.
- We believe that faculty members should develop and promote best practices in teaching, research, and service.
- We believe that the quality and competitiveness of the department's programs are a primary responsibility of all faculty members.
- We believe that faculty members should display culturally responsive and respectful behavior.
- We believe in preparing educational leaders to be consumers and producers of research in order to function effectively in a dynamic and ever-changing world.
- We believe in collaboration among disciplines and between our department and the communities we serve.
- We believe excellent teaching is guided by quality scholarship.
- We believe the integrity and efficacy of faculty are developed and enhanced through academic freedom and shared governance.
- We believe that high quality programs are achieved through faculty expectations that instill academic rigor, specific measurable outcomes, student accountability, and deliberate evaluation and feedback

Academic Programs

The Department of Educational Leadership currently offers only graduate degree and certificate programs. See the current graduate catalog for more details.

Chair: **Julie P Combs**

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Veronica Vijil, EDD (vgv001@shsu.edu), *Lecturer of Educational Leadership*, *Department of Educational Leadership*, EDD, Sam Houston State University; MED, Indiana Wesleyan Univesity; BS, Univ of Texas-El Paso

Department of Language, Literacy, & Special Populations

Interim Chair: Abdelilah Salim Sehlaoui (asehlaoui@shsu.edu) (936) 294-3969

Assistant Chair: Helen Berg (hberg@shsu.edu)

Website: Department of Language, Literacy, & Special Populations (http://www.shsu.edu/academics/language-literacy-and-special-populations)

Highlights

- Close working relationship with faculty
- Wide offering of field-based classes
- Field experience in a variety of diverse settings
- High pass rate on the Texas Examination of Educator Standards (TExES)
- Courses taught on-campus and, at the University Center and online

Suggested Minors

- Special Education can be designated as a minor for other degree programs

Code	Title	Hours
Special Education Minor Requirements		
SPED 2301	Introduction to Exceptionality	3
SPED 3301	Learn and Instruc Child W/Disa	3
SPED 3302	Emotional/Behavioral Disorders	3
or SPED 3312	Family & Dvrsty Issues in SPED	
SPED 3303	Supporting Social Success	3
SPED 3304	Stdy Lrng/Lrng Disabilities	3
or SPED 3306	Behavioral Principles	
SPED 3305	Assessment Practices in SPED	3
Total Hours		18

- Early Childhood Education can be designated as a minor for other degree programs. This minor may be of interest to individuals who plan to work in various early childhood settings. This minor does not lead toward Texas Teacher Certification.

Code	Title	Hours
Early Childhood Education Minor Requirements		
ECHE 3128	Field Exp - Early Childhood Ed (taken twice, separate semesters, different placements)	1
ECHE 3128	Field Exp - Early Childhood Ed (taken twice, separate semesters, different placements)	1
ECHE 3229	Guidance Of Young Children	2
ECHE 3243	Curriculum For Early Childhood	2
ECHE 3313	Early Childhood Cognition	3
ECHE 3315	Developmentally Appropriate Creative Expression	3
ECHE 3363	Wrkng /W Families-Diverse Comm	3
ECHE 4333	Dev Appr Prog For Yng Children	3
Total Hours		18

Career Opportunities

- Bilingual Education and Special Education are both high-need areas.
- The state of Texas emphasizes the need for highly qualified teachers in these areas.

Program Specific Requirements

Required Field Experiences

Candidates for any teaching certificate participate in field experiences in the public schools. Requirements for these activities vary by course and are coordinated by the Field Experience office.

University students taking minors in the College of Education which do not lead toward Texas Teacher Certification (SPED Minor and ECHE Minor) will conduct field experiences in appropriate settings in schools or the community based on requirements of the individual course. Students will apply to the Educator Preparation Program as a non-certification seeking student.

Admission to the Educator Preparation Program

Students seeking initial Teacher Certification will apply for admission to the Educator Preparation Program in their first Education class. Subsequent program specific requirements are explained below.

Admission to the Literacy Methods

All candidates for certification in grades EC-6 or 4-8, must participate in a one-semester Literacy Methods block, during the semester prior to the IDS Content Methods block. Application for placement in EC-6 or 4-8 Literacy Methods takes place one semester prior to anticipated enrollment in the Literacy Block. Each candidate's eligibility for placement is evaluated by the Department of Language, Literacy and Special Populations (LLSP). Eligibility at this transition point in the program is based on criteria which include full admission to the Educator Preparation Program, completion of all 1000 and 2000 level coursework and evidence of appropriate dispositions. Attention to prerequisites as shown in the course descriptions is essential to progress toward completion. Candidates in the EC6 program must take TESL 3303 concurrently with Literacy Methods (READ 3370, READ 3371, READ 3372). EC-6 students must complete BESL 3301 before Literacy Methods.

Admission to the Special Education Block

Candidates seeking special education certification must apply for the 6-hour Special Education Block (SPED 4301/SPED 4302). Application for placement in the Special Education Block takes place one semester prior to anticipated enrollment. Each candidate's eligibility for placement is evaluated by the Department of Language, Literacy and Special Populations (LLSP). This block of classes is usually taken the semester prior to IDS Content Methods. Prerequisites include SPED 2301, SPED 3302, and SPED 3304. Students are encouraged to take SPED block after Literacy Methods.

Bilingual Target Language Proficiency Test

Candidates seeking certification in Bilingual Education must demonstrate Spanish language proficiency in reading, writing, and speaking on the Bilingual Target Language Proficiency Test (BTLPT).

Admission to Student Teaching

Student teaching is the culminating experience in a candidate's preparation to become a teacher. Candidates should enroll in student teaching the final semester of their preparation program (Student Teaching (http://www.shsu.edu/academics/education/educator-preparation-services/program-services/field-experiences/level-III)). For candidates who seek certification in Special Education or Bilingual Education, specific student teaching courses and placements are required. **Candidates registered for nine hours during the student teaching semester are considered by SHSU to be full-time students.**

Student Organizations

- Bilingual Education Student Organization (BESO)
- Sam Houston Association for the Education of Young Children (SHAEYC)
- Sam Houston Student Council for Exceptional Children (SHCEC)
- Sam Houston Student Association for Project Sunshine

Scholarships

- Alberto Sandoval Bilingual Education Scholarship
- Bess Osburn Reading Scholarship
- Counihan Family Endowment
- Frances Elmer Scholarship for Special Education
- Jessie Lewis Scholarship for Reading
- Laverne Warner Early Childhood Scholarship
- TEACH Grants available for Bilingual Education and Special Education
- Woman's Club of Houston Early Education Scholarship

Internships

Internships in public schools are permitted only for candidates who already have a baccalaureate degree. Undergraduate teaching candidates participate in the student teaching block as the capstone of their professional program sequence.

Chair: **Abdelilah Salim Sehlaoui**

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Department of Library Science

Chair: Holly Weimar (haw001@shsu.edu) (936) 294-1150

Website: Department of Library Science (http://www.shsu.edu/academics/library-science)

Mission

The Department of Library Science is charged with applying the University's mission specifically to the field of Library and Information Science.

Academic Programs

Undergraduates who are interested in becoming school librarians must hold a teaching certificate and pursue a Master of Library Science.

Highlights

- Nationally recognized program
- Close working relationship with faculty and staff
- Value student diversity (ethnic and cultural backgrounds)
- Outstanding faculty

Career Opportunities

- Highlights commitment to literacy

Program Specific Requirements

Electives

Library Science courses may be included as required classes or electives in any curriculum and are recommended for providing the basis for effective, efficient use of libraries, resources for sharing literature with children and teens, and appropriate technology for use with P-12 students in the classroom for online searches and research.

Student Organizations

- Library Science Student Association (LSSA)

Scholarships

- Beatrice Craig Scholarship
- Bennie P. Simons Scholarship
- Bonnie Baker Thorne Scholarship
- Grace Harriston Standley Scholarship
- Homer Glen Cowan and Billie Caperton Cowan Educational Scholarship
- Janelle Avenell Paris Scholarship
- Julie Crockett Standley Scholarship
- Lesta Norris Burt Scholarship
- Sara Catherine Howard - Barbara Lewis Endowed Scholarship
- Sophie Williams Cloninger Library Science Scholarship
- Virginia Gibbs Smyth Scholarship

Chair: **Holly Ann Kizer Weimar**

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COLLEGE OF FINE ARTS & MASS COMMUNICATION

Administrative Officers

Title/Department	Officer
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Department of Theatre & Musical Theatre	Kristina S. Hanssen, M.F.A., Chair drm_kxh@shsu.edu; (936) 294-1329
School of Music	Scott Plugge, D.M.A., Director plugge@shsu.edu; (936) 294-1360

Mission

The College of Fine Arts and Mass Communication consist of five outstanding divisions that seek to inspire, educate, and graduate creative artists and media professionals. This dynamic college includes the Departments of Art, Dance, Mass Communication, Theatre & Musical Theatre, and the School of Music.

The College of Fine Arts and Mass Communication offers state-of-the-art facilities, including the James and Nancy Gaertner Performing Arts Center, in which to present unique and cutting-edge programming. Ranging from the traditional to the experimental, students explore new frontiers in all their creative endeavors. Opportunities for study include digital media and film, broadcast journalism and public relations; dance techniques, dance production and technology; computer animation, graphic design, painting, sculpture, art history, and art education; music education, music performance and conducting, musicology, and music therapy; theatre performance and design, musical theatre production; and more. Sam Houston State University students in Fine Arts and Mass Communication strive to be artists, media experts, and educators in the arts. After graduation they go on to pursue advanced degrees and a variety of careers in visual art practices, public relations, education, broadcast and media industries, and the performing arts.

Highlights

- Faculty members in the College of Fine Arts and Mass Communication are recognized nationally and internationally for their expertise through awards, publications, presentations, and performances.
- Students within the college enjoy a high degree of personalized support and developmental opportunities, including numerous scholarships, ensemble trips, artistic competitions, and international study.
- Over 200 fine arts events are scheduled on campus throughout the year, including art gallery exhibits, musical theatre performances, dance performances, music concerts and recitals, and theatre productions.
- Departments in the College of Fine Arts and Mass Communication annually host state and regional conferences, symposiums, and festivals.

Academic Programs

The College of Fine Arts and Mass Communication is comprised of 5 academic units:

- Department of Art
- Department of Dance
- Department of Mass Communication
- Department of Theatre & Musical Theatre
- School of Music

College of Fine Arts and Mass Communication Undergraduate Degrees

Major	Degree(s)
Department of Art	
Art	B.A.
Computer Animation	B.F.A.
Graphic Design	B.F.A.
Photography	B.F.A.
Studio Art 2D Track	B.F.A.
Studio Art 3D Track	B.F.A.
Department of Dance	
Dance	B.F.A.
Department of Mass Communication	
Mass Communication with Concentration: Broadcast Production	B.A.
Mass Communication with Concentration: Film	B.A.
Mass Communication with Concentration: Multi-Platform Journalism	B.A.
Mass Communication with Concentration: Public Relations and Advertising	B.A.
Mass Communication: Film and Television Production	B.F.A.
Agricultural Communication (with Agricultural Sciences)	B.S.
Department of Theatre & Musical Theatre	
Musical Theatre With Dance Emphasis	B.F.A.
Musical Theatre With Music Emphasis	B.F.A.
Musical Theatre With Theatre Emphasis	B.F.A.
Theatre - Acting and Directing Emphasis	B.F.A.
Theatre - Design and Technology Emphasis	B.F.A.
Theatre With Teaching Certification	B.F.A.
School of Music	
Music	B.A.
Music with Concentration: All Level Certification Choral	B.M.
Music with Concentration: All Level Certification Instrumental	B.M.
Music with Concentration: All Level Certification String	B.M.
Music with Concentration: Composition	B.M.
Music with Concentration: Instrumental Performance	B.M.
Music with Concentration: Piano Performance	B.M.
Music with Concentration: Vocal Performance	B.M.
Music Therapy	B.M.

Department of Art

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The Department of Art offers opportunities for creative students to explore and develop proficiencies in many traditional art forms, such as drawing, painting, sculpture, printmaking, ceramics, and photography. New and innovative art forms are also promoted in the Department of Art. Digital media courses are offered in graphic design, computer animation, and photography. Traditional and new media programs are supported by the Art History program, which provides concepts in aesthetics and art theory from diverse cultures and time periods.

Mission

The mission of the Sam Houston State University Department of Art is to teach skills, techniques, aesthetic principles and concepts that develop students personally and help to prepare them for professional careers in art and design as well as postgraduate study. We foster a vibrant environment for creative research and collaboration between faculty, students, and the community.

Highlights

All of the degree programs in the Department of Art are accredited by the National Association of Schools of Art and Design.

The Department has over 30,000 square feet of space devoted to studios, laboratories, lecture halls and galleries. Studios for painting, sculpture, ceramics, printmaking, and photography are equipped with the best tools available for students to develop skills and express ideas. Digital labs maintain state-of-the-art computer equipment for students in graphics, photography and computer animation.

Visiting artists from around the U.S. exhibit their work in the Gaddis Geeslin Gallery and give public lectures, workshops, and critiques for students. Individual studio space is available for advanced students in the Studio Art and Photography programs. The department operates the Satellite Gallery, devoted to exhibitions of student work in downtown Huntsville. Students in the Department of Art have the opportunity to take the New York Art Trip every fall and also have study abroad opportunities every summer.

Program Specific Requirements

Studio classes in computer animation, graphic design, photography, and studio art meet six clock hours per week each semester for three credit hours. Art history lecture classes meet for three clock hours per week.

All art students, including transfer students, must take W.A.S.H. (ARTS 1313, ARTS 1314, ARTS 1315) as a prerequisite for other art courses.

After completing the Art Foundation courses (see below), students must pass the BFA Portfolio Review to continue in a BFA program. The BA in Art does not require the BFA Portfolio Review. For more details regarding the BFA Portfolio Review, please refer to the degree plans.

Students must have a 3.0 GPA or higher in art courses to graduate with a BFA degree.

Seniors are required to exhibit their work publicly as part of the capstone class in each BFA program.

Prerequisites for all ARTS courses require a grade of C or higher.

Laptop Requirement

Art students are required to own a Mac laptop as specified by their chosen program of study. Mac laptops are a required material for W.A.S.H. students. Financial Aid may adjust funding for qualified art students for the purchase of required hardware and software. Students must complete the financial aid application and qualify for financial aid. Contact the Office of Financial Aid for details. For current laptop and software requirements, go to http://www.shsu.edu/academics/art/resources/laptop-initiative.html.

Teacher Certification in Art

To become certified to teach art in a public school in the State of Texas, students will pursue an All-Level Certification in Art by following the degree plan for one of the BFA programs in art and adding a minor in secondary education. The required education courses (including six hours of student teaching) are:

Code	Title	Hours
Secondary Education Course Requirements		
CISE 3384	The Teaching Profession	3
CISE 4364	Mth Tch Secondary Schools	3
CISE 4378	Content Literacy	3
CISE 4379	Differentiated Pedagogy	3
CISE 4380	Respon Of Pro Educator	3

CISE 4394	Creatng Env For Lrng-Secondary	3
CISE 4396	Std Tch Secondary Classroom	3
CISE 4397	Std Tch Secondary Classroom	3

To complete the requirements for certification, students must pass two (2) TExES certification exams. Before receiving permission to take the exams, students must pass the BFA Portfolio Review and have at least a 3.0 GPA in art courses.

For more information about Teacher Certification and the Secondary Education Minor, see the website for Educator Preparation Services: http://www.shsu.edu/academics/education/educator-preparation-services/program-admission.html

Curriculum

BFA Degrees

The BFA is the professional degree in art. BFA programs are offered in Studio Art (2D and 3D Tracks), Computer Animation, Graphic Design, and Photography. All of the BFA degrees in the department require a foundation of courses that emphasizes the principles of design, basic techniques, mark making, spatial organization, gestalt theories and principles, and color theories. These principles, ideas, and skills are put into practice in projects that require creative problem solving, individual solutions, and personal expression. After completing the Art Foundation courses and the BFA Portfolio Review, students take the BFA Core, a common core of art classes that includes courses in 2D, 3D, and time-based mediums. The BFA Core provides opportunities to practice and develop the skills and ideas acquired in the Art Foundation courses. Expertise in specific disciplines is then further developed in the remaining upper-level Major courses in each BFA program.

Code	Title	Hours
Art Foundation		
ARTS 1313	W.A.S.H. - 2D	3
ARTS 1314	W.A.S.H. - 3D	3
ARTS 1315	W.A.S.H. - Lecture	3
ARTS 1316	Drawing	3
ARTS 2313	Foundations In Digital Art	3
Total Hours		15

Code	Title	Hours
BFA Core		
ARTS 1303	Art History Survey I [1]	3
ARTS 2317	Life Drawing I	3
ARTS 2375	Photographic Concepts	3
ARTS 3305	Painting I	3
ARTS 3307	Performance and Video Art	3
or ARTS 3310	Printmaking	
ARTS 3318	Sculpture I	3
ARTS 3385	Art History Survey II	3
Total Hours		21

[1] ARTS 1303 also satisfies the Core Curriculum requirement for Component Area V (Creative Arts).

For complete curricular information, refer to the individual BFA degree plans.

BA Degree

The BA is a liberal arts degree that requires fourteen hours (four semesters) of a foreign language and a minor. Students in the BA program do not have to complete the BFA Portfolio Review.

For complete curricular information, refer to the BA degree plan.

- Bachelor of Fine Arts, Major in Graphic Design
- Bachelor of Fine Arts, Major in Photography
- Bachelor of Fine Arts, Major in Computer Animation
- Bachelor of Fine Arts, Major in Studio Art 2D Track

- Bachelor of Fine Arts, Major in Studio Art 3D Track
- Bachelor of Arts, Major in Art
- Minor in Two-Dimensional Studio Art
- Minor in Three-Dimensional Studio Art
- Minor in Art History
- Minor in Graphic Design
- Minor in Photography

Student Organizations

The Student Art Association (SAA) is a student-motivated organization that provides students with opportunities to create a community environment and form a strong network among their peers. The SAA is dedicated to student development, member exhibitions, technical/creative workshops, field trips, and promotion of student work.

SHSU SIGGRAPH (http://www.shsu.edu/~org_siggraph) is an organization of students interested in computer animation, computer-generated imagery, and interactive techniques. SIGGRAPH members work together on independent animated projects and games, support one another by sharing techniques and knowledge, travel to visit professional game and animation studios, and have the opportunity to attend the national SIGGRAPH conference in the summer.

Student Design Collective (SDC), is a graphic design organization whose goal is to enhance classroom learning and develop professional relationships in order to assist students now and in their future careers. SDC intends to help better prepare students for real world applications and work environments, as well as promote interest and appreciation of graphic design through events, hands-on workshops, and community involvement.

Drawing Club is an organization for students interested in the art and practice of drawing. The club meets regularly to discuss drawing used in many applications—including comic books, scientific illustrations, and fine art—and organizes Open Drawing Sessions, which feature live models and meet outside of regular class times in departmental studio spaces.

Internships, Research, and Community Engagement

The Department of Art is committed to providing opportunities for students to work as interns in professional environments in the fields of graphic design and computer animation. Photography and studio art majors have opportunities to intern or volunteer at art centers and community organizations. Students actively engage the community through ACE (Academic Community Engagement (http://www.shsu.edu/academics/cce)) courses, public exhibitions, and screening of their work both on and off campus. For more information about community engagement and internships, contact the Department Chair.

Scholarships

Scholarships are available from both the Department of Art and the university to support a student's study.

The Department of Art Scholarships include:

- Art Endowment
- Clem Otis
- Distinguished Faculty Scholarship
- Elkins Lake Kuntz-Nelson
- Emmette Jackson
- Hal Fulgham Scholarship
- James B. and Marilyn C. Shepard
- Kenneth Zonker
- Madison Wolfe
- Marion St. John Baker
- Majorie Leverton Boehme
- Ruth Wynne Thomason Hollinshead
- Stanley E. Lea
- Weldon Hall Jr.

Departmental scholarships are available to full time art students. The Weldon Hall Jr. Scholarship is available to incoming freshmen. Information about Department of Art scholarships may be obtained by visiting http://www.shsu.edu/academics/art/resources/scholarships.html or calling (936)

294-1315. Information on university scholarships may be obtained at Office of Academic Scholarships (http://www.shsu.edu/dept/financial-aid/scholarships) or telephone (936) 294-1672.

Chair: **Michael Henderson**

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Interim Faculty

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Bachelor of Fine Arts, Major in Photography

Code	Title	Hours
Bachelor of Fine Arts, Major in Photography		
Core Curriculum		
Component Area I (Communication)		6
Component Area II (Mathematics)		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4
Art Foundation		
ARTS 1313 & ARTS 1314 & ARTS 1315	W.A.S.H. - 2D and W.A.S.H. - 3D and W.A.S.H. - Lecture	9
ARTS 1316	Drawing	3
ARTS 2313	Foundations In Digital Art	3
BFA Core		
ARTS 1303	Art History Survey I [1]	3
ARTS 2375	Photographic Concepts	3
ARTS 2317	Life Drawing I	3
ARTS 3305	Painting I	3
ARTS 3310	Printmaking	3
or ARTS 3307	Performance and Video Art	
ARTS 3318	Sculpture I	3
or ARTS 3320	Ceramics I	
ARTS 3385	Art History Survey II	3
Major		
ARTS 2365	Photographic Visualization	3
ARTS 2370	Digital Photography I	3
ARTS 3364	Photography Seminar	3
ARTS 3368	Studio Practices I (Junior)	3
ARTS 3374	Alternative Photo Processes	3
ARTS 4372	Photographic Narratives	3
ARTS 4373	Contemporary Issues in Pho	3
ARTS 4381	History of Photography	3
Select nine hours from:		9
ARTS 3360	The Photographic Digital Print	
ARTS 3370	Digital Photography II	
ARTS 3375	Web Site Development	
ARTS 4019	Special Topic	
ARTS 4311	Advanced Studio	
ARTS 4368	Studio Practices II	
ARTS 4371	Human Form: A Photographc Stdy	
ARTS 4315	Professional Practices in Art	3
ARTS 4385	Art Since 1945	3
Advanced Art Electives		3
Electives		3
Total Hours		120

[1] ARTS 1303 also satisfies the Core Curriculum requirement for Component Area V (Creative Arts).

BFA Requirements

Students must maintain a 3.0 GPA in ARTS courses to graduate with a BFA.

The **BFA Portfolio Review** is the Department of Art's process of review and evaluation before admitting students into any of the department's Bachelor of Fine Arts programs.

Students who wish to pursue a BFA in Graphic Design, Studio Art, Computer Animation, or Photography must pass the department's BFA Portfolio Review.

The semester after completion of the Art Foundation courses, BFA majors are required to participate in the BFA Portfolio Review.

Code	Title	Hours
Art Foundation		
ARTS 1313	W.A.S.H. - 2D	3
ARTS 1314	W.A.S.H. - 3D	3
ARTS 1315	W.A.S.H. - Lecture	3
ARTS 1316	Drawing	3
ARTS 2313	Foundations In Digital Art	3

For more information on the BFA Portfolio Review please go to http://www.shsu.edu/academics/art/review/.

Graphic Design students must first pass the BFA Portfolio Review in order to be eligible for the **Graphic Design Portfolio Review.** After passing the BFA Portfolio Review, students who wish to pursue a BFA in Graphic Design must take the Graphic Design Portfolio Review the semester they are enrolled in Typography (ARTS 3322).

Some, but not all, of the upper-level studio art courses may be taken more than once for credit. Courses listed more than once in the degree plan are repeatable.

Not all art courses are offered each semester. Consult an academic advisor and the *Schedule of Classes* before registration.

First Year			
Fall	**Hours**	**Spring**	**Hours**
Component Area II	3	Component Area I	3
ARTS 1313	3	Component Area III	4
ARTS 1314	3	ARTS 1316	3
ARTS 1315	3	ARTS 2313	3
		ARTS 2365	3
	12		16
Second Year			
Fall	**Hours**	**Spring**	**Hours**
Component Area I	3	Component Area VI	3
Component Area VI	3	Component Area IX	1
ARTS 2317	3	ARTS 1303[1]	3
ARTS 2375	3	ARTS 2370	3
ARTS 3318 or 3320	3	ARTS 3305	3
		ARTS 3307 or 3310	3
	15		16
Third Year			
Fall	**Hours**	**Spring**	**Hours**
Component Area III	4	Component Area IV	3
ARTS 3364	3	Component Area VII	3
ARTS 3385	3	ARTS 3368	3
Advanced Art Electives	3	ARTS 4372	3
Advanced Photography Electives[2]	3	ARTS 4373	3
	16		15

Fourth Year		
Fall	**Hours Spring**	**Hours**
Component Area VIII	3 Component Area VII	3
ARTS 3374	3 Component Area IX	3
ARTS 4385	3 ARTS 4315	3
Electives	3 ARTS 4381	3
Advanced Photography Electives[2]	3 Advanced Photography Electives[2]	3
	15	15

Total Hours: 120

1 ARTS 1303 also satisfies the Core Curriculum requirement for Component Area V (Creative Arts).

2 Select from the following Advanced Photography Electives : ARTS 3360 ,ARTS 3370, ARTS 3375 ARTS 4019, ARTS 4311, ARTS 4368, ARTS 4371.

Bachelor of Arts, Major in Art

Code	Title	Hours
Bachelor of Arts, Major in Art		
Core Curriculum		
Component Area I (Communication)		6
Component Area II (Mathematics)		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4
Degree Specific Requirements		
Foreign Language		14
Art Foundation		
ARTS 1313 & ARTS 1314 & ARTS 1315	W.A.S.H. - 2D and W.A.S.H. - 3D and W.A.S.H. - Lecture	9
ARTS 1316	Drawing	3
ARTS 2313	Foundations In Digital Art	3
ARTS 2317	Life Drawing I	3
Major		
ARTS 1303	Art History Survey I [1]	3
ARTS 2375	Photographic Concepts	3
or ARTS 3305	Painting I	
ARTS 3318	Sculpture I	3
ARTS 3385	Art History Survey II	3
Select 3 Advanced Art History hours from:		3
ARTS 3382	The History Of Animation	
ARTS 3383	Design History	
ARTS 3386	Ancient Greek and Roman Art	
ARTS 3387	Renaissance Art History	
ARTS 4381	History of Photography	
ARTS 4384	Modern Art Before 1945	
ARTS 4385	Art Since 1945	
ARTS 4387	History Of Mexican Art	
Select 12 hours Advanced Art Electives from:		12

ARTS 3307	Performance and Video Art	
ARTS 3310	Printmaking	
ARTS 3317	Life Drawing II	
ARTS 3320	Ceramics I	
ARTS 3322	Typography	
ARTS 3343	Intro To 3D Computer Animation	
ARTS 3375	Web Site Development	
ARTS 4305	Advanced Painting	
ARTS 4307	Painting In Aquamedia	
ARTS 4309	Book Arts	
ARTS 4310	Advanced Printmaking	
ARTS 4311	Advanced Studio	
ARTS 4316	Advanced Drawing	
ARTS 4318	Sculpture II	
ARTS 4320	Ceramics II	
ARTS 4331	Illustration	
Electives		4
Minor		18
Total Hours		120

[1] ARTS 1303 also satisfies the Core Curriculum requirement for Component Area V.

Notes:

- A total of 42 advanced hours are required for the BA. Twenty-four of these advanced hours are taken in the major. Eighteen advanced hours should be taken in the minor, foreign language, or electives.

First Year

Fall	Hours	Spring	Hours
Component Area II	3	Component Area I	3
ARTS 1313	3	Component Area III	3
ARTS 1314	3	ARTS 1303[1]	3
ARTS 1315	3	ARTS 1316	3
		ARTS 2313	3
	12		15

Second Year

Fall	Hours	Spring	Hours
Component Area I	4	Component Area VI	3
Component Area VI	3	Component Area IX	3
ARTS 2317	3	ARTS 3385	3
ARTS 2375 or 3305	3	Advanced Art Electives[2]	6
ARTS 3318 or 3320	3		
	16		15

Third Year

Fall	Hours	Spring	Hours
Component Area III	3	Component Area IV	4
Foreign Language	4	Component Area VII	3
Advanced Art Electives[2]	3	Foreign Language	4
Electives	4	Advanced Art Electives[2]	3
Minor	3	Minor	3
	17		17

Fourth Year

Fall	Hours	Spring	Hours
Component Area VIII	3	Component Area VII	3

Foreign Language	3 Component Area IX	1
Advanced Art History Electives[3]	3 Foreign Language	3
Minor	6 Minor	6
	15	13

Total Hours: 120

1 ARTS 1303 also satisfies the Core Curriculum requirement for Component Area V (Creative Arts).

2 Advanced Art Electives: ARTS 3307, ARTS 3310, ARTS 3317, ARTS 3320, ARTS 3322, ARTS 3343, ARTS 3375, ARTS 4305 ARTS 4307, ARTS 4309, ARTS 4310, ARTS 4311, ARTS 4316, ARTS 4318, ARTS 4320, ARTS 4331.

3 Advanced Art History Electives: ARTS 3382, ARTS 3383, ARTS 3386, ARTS 3387, ARTS 4381, ARTS 4384, ARTS 4385, ARTS 4387.

Notes:

- Students should use elective and/or minor hours to satisfy the 42 advanced hour requirement.

Bachelor of Fine Arts, Major in Computer Animation

Code	Title	Hours
Bachelor of Fine Arts, Major in Computer Animation		
Core Curriculum		
Component Area I (Communication)		6
Component Area II (Mathematics)		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4
Degree Specific Requirements		
CSTE 1331	Visual Computing	3
or ENGL 3381	Intro Creative Writing:Fiction	
or ENGL 3382	Intro Creative Writing: Poetry	
or MCOM 2351		
Art Foundation		
ARTS 1313 & ARTS 1314 & ARTS 1315	W.A.S.H. - 2D and W.A.S.H. - 3D and W.A.S.H. - Lecture	9
ARTS 1316	Drawing	3
ARTS 2313	Foundations In Digital Art	3
BFA Core		
ARTS 1303	Art History Survey I [1]	3
ARTS 2317	Life Drawing I	3
ARTS 2375	Photographic Concepts	3
ARTS 3305	Painting I	3
ARTS 3310	Printmaking	3
or ARTS 3307	Performance and Video Art	
ARTS 3318	Sculpture I	3
or ARTS 3320	Ceramics I	
ARTS 3385	Art History Survey II	3
Major		
ARTS 2343	Animation Concepts And Technqs	3
ARTS 2344	2D Computer Animation	3
ARTS 3317	Life Drawing II	3

ARTS 3343	Intro To 3D Computer Animation	3
ARTS 3344	Advanced 3D Computer Animation	3
ARTS 3354	Experimental Animation	3
ARTS 3375	Web Site Development	3
ARTS 3382	The History Of Animation	3
ARTS 4350	Character Animation	3
ARTS 4355	Shading, Lighting & Rendering	3
ARTS 4356	2D Interactive Animation	3
or ARTS 4357	3D Interactive Animation	
ARTS 4358	Animation Portfolio	3
Advanced Art Electives		6
Total Hours		120

[1] ARTS 1303 also satisfies the Core Curriculum requirement for Component Area V (Creative Arts).

BFA Requirements

Students must maintain a 3.0 GPA in ARTS courses to graduate with a BFA.

The **BFA Portfolio Review** is the Department of Art's process of review and evaluation before admitting students into any of the department's Bachelor of Fine Arts programs.

Students who wish to pursue a BFA in Graphic Design, Studio Art, Computer Animation, or Photography must pass the department's BFA Portfolio Review.

The semester after completion of the Art Foundation courses, BFA majors are required to participate in the BFA Portfolio Review.

Code	Title	Hours
Art Foundation		
ARTS 1313	W.A.S.H. - 2D	3
ARTS 1314	W.A.S.H. - 3D	3
ARTS 1315	W.A.S.H. - Lecture	3
ARTS 1316	Drawing	3
ARTS 2313	Foundations In Digital Art	3

For more information on the BFA Portfolio Review please go to http://www.shsu.edu/academics/art/review/.

Graphic Design students must first pass the BFA Portfolio Review in order to be eligible for the **Graphic Design Portfolio Review.** After passing the BFA Portfolio Review, students who wish to pursue a BFA in Graphic Design must take the Graphic Design Portfolio Review the semester they are enrolled in Typography (ARTS 3322).

Some, but not all, of the upper-level studio art courses may be taken more than once for credit. Courses listed more than once in the degree plan are repeatable.

Not all art courses are offered each semester. Consult an academic advisor and the *Schedule of Classes* before registration.

First Year			
Fall	**Hours**	**Spring**	**Hours**
Component Area II	3	Component Area I	3
ARTS 1313	3	Component Area III	4
ARTS 1314	3	ARTS 1303[1]	3
ARTS 1315	3	ARTS 1316	3
		ARTS 2313	3
	12		16
Second Year			
Fall	**Hours**	**Spring**	**Hours**
Component Area I	3	Component Area VI	3
Component Area VI	3	Component Area IX	1
ARTS 2317	3	ARTS 2344	3

ARTS 3318 or 3320	3	ARTS 2375	3
ARTS 2343	3	ARTS 3305	3
		ARTS 3317	3
	15		16

Third Year

Fall	Hours	Spring	Hours
Component Area III	4	Component Area IV	3
ARTS 3307 or 3310	3	Component Area VII	3
ARTS 3343	3	ARTS 3344	3
ARTS 3354	3	ARTS 3385	3
ARTS 3375	3	ARTS 4356 or 4357	3
	16		15

Fourth Year

Fall	Hours	Spring	Hours
Component Area VIII	3	Component Area VII	3
ARTS 3382	3	Component Area IX	3
ARTS 4350	3	CSTE 1331, ENGL 3381, ENGL 3382, or 2351	3
ARTS 4355	3	ARTS 4358	3
Electives (Advanced Art)	3	Electives (Advanced Art)	3
	15		15

Total Hours: 120

[1] ARTS 1303 also satisfies the Core Curriculum requirement for Component Area V.

Bachelor of Fine Arts, Major in Graphic Design

Code	Title	Hours
Bachelor of Fine Arts, Major in Graphic Design		
Core Curriculum		
Component Area I (Communication)		6
Component Area II (Mathematics)		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4
Art Foundation		
ARTS 1313 & ARTS 1314 & ARTS 1315	W.A.S.H. - 2D and W.A.S.H. - 3D and W.A.S.H. - Lecture	9
ARTS 1316	Drawing	3
ARTS 2313	Foundations In Digital Art	3
BFA Core		
ARTS 1303	Art History Survey I [1]	3
ARTS 2317	Life Drawing I	3
ARTS 2375	Photographic Concepts	3
ARTS 3305	Painting I	3
ARTS 3310	Printmaking	3
or ARTS 3307	Performance and Video Art	
ARTS 3318	Sculpture I	3
or ARTS 3320	Ceramics I	

ARTS 3385	Art History Survey II	3
Major		
ARTS 2323	Principles Of Graphic Design	3
ARTS 3322	Typography	3
ARTS 3323	Graphic Design In Context	3
ARTS 3324	Corporate Identity Design	3
ARTS 3326	Graphic Design Production	3
ARTS 3335	Packaging Design	3
ARTS 3353	Motion Graphics	3
ARTS 3375	Web Site Development	3
ARTS 3383	Design History	3
ARTS 4323	Senior Studio In Graphic Desgn	3
ARTS 4325	Advanced Typographic Design	3
ARTS 4331	Illustration	3
ARTS 4333	Interactive Design	3
ARTS 4385	Art Since 1945	3
Electives		3
Total Hours		120

[1] ARTS 1303 also satisfies the Core Curriculum requirement for Component Area V (Creative Arts).

BFA Requirements

Students must maintain a 3.0 GPA in ARTS courses to graduate with a BFA.

The **BFA Portfolio Review** is the Department of Art's process of review and evaluation before admitting students into any of the department's Bachelor of Fine Arts programs.

Students who wish to pursue a BFA in Graphic Design, Studio Art, Computer Animation, or Photography must pass the department's BFA Portfolio Review.

The semester after completion of the Art Foundation courses, BFA majors are required to participate in the BFA Portfolio Review.

Code	Title	Hours
Art Foundation		
ARTS 1313	W.A.S.H. - 2D	3
ARTS 1314	W.A.S.H. - 3D	3
ARTS 1315	W.A.S.H. - Lecture	3
ARTS 1316	Drawing	3
ARTS 2313	Foundations In Digital Art	3

For more information on the BFA Portfolio Review please go to http://www.shsu.edu/academics/art/review/.

Graphic Design students must first pass the BFA Portfolio Review in order to be eligible for the **Graphic Design Portfolio Review.** After passing the BFA Portfolio Review, students who wish to pursue a BFA in Graphic Design must take the Graphic Design Portfolio Review the semester they are enrolled in Typography (ARTS 3322).

Some, but not all, of the upper-level studio art courses may be taken more than once for credit. Courses listed more than once in the degree plan are repeatable.

Not all art courses are offered each semester. Consult an academic advisor and the *Schedule of Classes* before registration.

First Year			
Fall	**Hours**	**Spring**	**Hours**
Component Area II	3	Component Area I	3
ARTS 1313	3	Component Area III	4
ARTS 1314	3	ARTS 1303[1]	3
ARTS 1315	3	ARTS 1316	3

		ARTS 2313	3
	12		16

Second Year

Fall	Hours	Spring	Hours
Component Area I	3	Component Area VI	3
Component Area VI	3	Component Area IX	1
ARTS 2317	3	ARTS 2375	3
ARTS 2323	3	ARTS 3305	3
ARTS 3318 or 3320	3	ARTS 3322	3
		ARTS 3385	3
	15		16

Third Year

Fall	Hours	Spring	Hours
Component Area III	4	Component Area IV	3
ARTS 3307 or 3310	3	Component Area VII	3
ARTS 3323	3	ARTS 3324	3
ARTS 3326	3	ARTS 3335	3
ARTS 3375	3	ARTS 4333	3
	16		15

Fourth Year

Fall	Hours	Spring	Hours
Component Area VIII	3	Component Area VII	3
ARTS 3353	3	Component Area IX	3
ARTS 3383	3	ARTS 4323	3
ARTS 4325	3	ARTS 4331	3
ARTS 4385	3	Electives	3
	15		15

Total Hours: 120

[1] ARTS 1303 also satisfies the Core Curriculum requirement for Component Area V (Creative Arts).

Bachelor of Fine Arts, Major in Studio Art 2D Track

Code	Title	Hours
Bachelor of Fine Arts, Major in Studio Art 2D Track		
Core Curriculum		
Component Area I (Communication)		6
Component Area II (Mathematics)		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4
Art Foundation		
ARTS 1313 & ARTS 1314 & ARTS 1315	W.A.S.H. - 2D and W.A.S.H. - 3D and W.A.S.H. - Lecture	9
ARTS 1316	Drawing	3
ARTS 2313	Foundations In Digital Art	3
BFA Core		
ARTS 1303	Art History Survey I [1]	3

ARTS 2317	Life Drawing I	3
ARTS 2375	Photographic Concepts	3
ARTS 3305	Painting I	3
ARTS 3310	Printmaking	3
or ARTS 3307	Performance and Video Art	
ARTS 3318	Sculpture I	3
or ARTS 3320	Ceramics I	
ARTS 3385	Art History Survey II	3
Major		
ARTS 3310	Printmaking [2]	3
or ARTS 3307	Performance and Video Art	
ARTS 3317	Life Drawing II	3
ARTS 3318	Sculpture I [2]	3
or ARTS 3320	Ceramics I	
ARTS 4305	Advanced Painting	3
or ARTS 4310	Advanced Printmaking	
ARTS 4315	Professional Practices in Art (Senior)	3
ARTS 4316	Advanced Drawing	3
ARTS 4317	Museum And Gallery Practices	3
ARTS 4385	Art Since 1945	3
ARTS 4389	Criticism Thry In Visual Arts	3
ARTS 4318	Sculpture II	3
or ARTS 4320	Ceramics II	
Select nine hours from the following:		9
ARTS 4305	Advanced Painting	
ARTS 4307	Painting In Aquamedia	
ARTS 4309	Book Arts	
ARTS 4310	Advanced Printmaking	
ARTS 4311	Advanced Studio	
ARTS 4316	Advanced Drawing	
Advanced Art Electives		3
Electives		3
Total Hours		120

1 ARTS 1303 also satisfies the Core Curriculum requirement for Component Area V (Creative Arts).

2 Studio majors must take both (one is required in the BFA Core and one in the Major).

BFA Requirements

Students must maintain a 3.0 GPA in ARTS courses to graduate with a BFA.

The **BFA Portfolio Review** is the Department of Art's process of review and evaluation before admitting students into any of the department's Bachelor of Fine Arts programs.

Students who wish to pursue a BFA in Graphic Design, Studio Art, Computer Animation, or Photography must pass the department's BFA Portfolio Review.

The semester after completion of the Art Foundation courses, BFA majors are required to participate in the BFA Portfolio Review.

Code	Title	Hours
Art Foundation		
ARTS 1313	W.A.S.H. - 2D	3
ARTS 1314	W.A.S.H. - 3D	3
ARTS 1315	W.A.S.H. - Lecture	3
ARTS 1316	Drawing	3

ARTS 2313	Foundations In Digital Art	3

For more information on the BFA Portfolio Review please go to http://www.shsu.edu/academics/art/review/.

Graphic Design students must first pass the BFA Portfolio Review in order to be eligible for the **Graphic Design Portfolio Review.** After passing the BFA Portfolio Review, students who wish to pursue a BFA in Graphic Design must take the Graphic Design Portfolio Review the semester they are enrolled in Typography (ARTS 3322).

Some, but not all, of the upper-level studio art courses may be taken more than once for credit. Courses listed more than once in the degree plan are repeatable.

Not all art courses are offered each semester. Consult an academic advisor and the *Schedule of Classes* before registration.

First Year

Fall	Hours	Spring	Hours
Component Area II	3	Component Area I	3
ARTS 1313	3	Component Area III	4
ARTS 1314	3	ARTS 1303[1]	3
ARTS 1315	3	ARTS 1316	3
		ARTS 2313	3
	12		16

Second Year

Fall	Hours	Spring	Hours
Component Area I	3	Component Area VI	3
Component Area VI	3	Component Area IX	1
ARTS 2317	3	ARTS 3305	3
ARTS 2375	3	ARTS 3307 or 3310[2]	3
ARTS 3385	3	ARTS 3317	3
		ARTS 3318 or 3320[2]	3
	15		16

Third Year

Fall	Hours	Spring	Hours
Component Area III	4	Component Area IV	3
ARTS 3307 or 3310[2]	3	Component Area VII	3
ARTS 3318 or 3320[2]	3	ARTS 4305 or 4310	3
ARTS 4316	3	ARTS 4311, 4305, 4307, 4309, 4310, or 4316	3
Electives	3	Advanced Art Electives	3
	16		15

Fourth Year

Fall	Hours	Spring	Hours
Component Area VIII	3	Component Area VII	3
ARTS 4311, 4305, 4307, 4309, 4310, or 4316	3	Component Area IX	3
ARTS 4311, 4305, 4307, 4309, 4310, or 4316	3	ARTS 4315	3
ARTS 4317	3	ARTS 4318 or 4320	3
ARTS 4385	3	ARTS 4389	3
	15		15

Total Hours: 120

1 ARTS 1303 also satisfies the Core Curriculum requirement for Component Area V (Creative Arts).

2 Studio majors must take both (one is required in the BFA Core and one in the Major).

Bachelor of Fine Arts, Major in Studio Art 3D Track

Code	Title	Hours
Bachelor of Fine Arts, Major in Studio Art 3D Track		
Core Curriculum		

Component Area I (Communication)		6
Component Area II (Mathematics)		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4
Art Foundation		
ARTS 1313 & ARTS 1314 & ARTS 1315	W.A.S.H. - 2D and W.A.S.H. - 3D and W.A.S.H. - Lecture	9
ARTS 1316	Drawing	3
ARTS 2313	Foundations In Digital Art	3
BFA Core		
ARTS 1303	Art History Survey I [1]	3
ARTS 2317	Life Drawing I	3
ARTS 2375	Photographic Concepts	3
ARTS 3305	Painting I	3
ARTS 3310	Printmaking	3
or ARTS 3307	Performance and Video Art	
ARTS 3318	Sculpture I	3
or ARTS 3320	Ceramics I	
ARTS 3385	Art History Survey II	3
Major		
ARTS 3310	Printmaking [2]	3
or ARTS 3307	Performance and Video Art	
ARTS 3317	Life Drawing II	3
ARTS 3318	Sculpture I [2]	3
or ARTS 3320	Ceramics I	
ARTS 4315	Professional Practices in Art	3
ARTS 4317	Museum And Gallery Practices	3
ARTS 4318	Sculpture II	3
ARTS 4320	Ceramics II	3
ARTS 4385	Art Since 1945	3
ARTS 4389	Criticism Thry In Visual Arts	3
Select three hours from the following:		3
ARTS 4305	Advanced Painting	
ARTS 4307	Painting In Aquamedia	
ARTS 4309	Book Arts	
ARTS 4310	Advanced Printmaking	
ARTS 4316	Advanced Drawing	
Select nine hours from the following:		9
ARTS 3307	Performance and Video Art	
ARTS 4311	Advanced Studio	
ARTS 4318	Sculpture II	
ARTS 4320	Ceramics II	
Advanced Art Electives		3
Electives		3
Total Hours		120

[1] ARTS 1303 also satisfies the Core Curriculum requirement for Component Area V (Creative Arts).

[2] Studio majors must take both (one is required in the BFA Core and one in the Major).

BFA Requirements

Students must maintain a 3.0 GPA in ARTS courses to graduate with a BFA.

The **BFA Portfolio Review** is the Department of Art's process of review and evaluation before admitting students into any of the department's Bachelor of Fine Arts programs.

Students who wish to pursue a BFA in Graphic Design, Studio Art, Computer Animation, or Photography must pass the department's BFA Portfolio Review.

The semester after completion of the Art Foundation courses, BFA majors are required to participate in the BFA Portfolio Review.

Code	Title	Hours
Art Foundation		
ARTS 1313	W.A.S.H. - 2D	3
ARTS 1314	W.A.S.H. - 3D	3
ARTS 1315	W.A.S.H. - Lecture	3
ARTS 1316	Drawing	3
ARTS 2313	Foundations In Digital Art	3

For more information on the BFA Portfolio Review please go to http://www.shsu.edu/academics/art/review/.

Graphic Design students must first pass the BFA Portfolio Review in order to be eligible for the **Graphic Design Portfolio Review.** After passing the BFA Portfolio Review, students who wish to pursue a BFA in Graphic Design must take the Graphic Design Portfolio Review the semester they are enrolled in Typography (ARTS 3322).

Some, but not all, of the upper-level studio art courses may be taken more than once for credit. Courses listed more than once in the degree plan are repeatable.

Not all art courses are offered each semester. Consult an academic advisor and the *Schedule of Classes* before registration.

First Year			
Fall	**Hours**	**Spring**	**Hours**
Component Area II	3	Component Area I	3
ARTS 1313	3	Component Area III	4
ARTS 1314	3	ARTS 1303[1]	3
ARTS 1315	3	ARTS 1316	3
		ARTS 2313	3
	12		16
Second Year			
Fall	**Hours**	**Spring**	**Hours**
Component Area VI	3	Component Area I	3
Component Area VII	3	Component Area IX	1
ARTS 2317	3	ARTS 3305	3
ARTS 2375	3	ARTS 3318 or 3320[2]	3
ARTS 3385	3	ARTS 3307 or 3310[2]	3
		ARTS 3317	3
	15		16
Third Year			
Fall	**Hours**	**Spring**	**Hours**
Component Area III	4	Component Area IV	3
ARTS 3307 or 3310[2]	3	Component Area VII	3
ARTS 3318 or 3320[2]	3	ARTS 3307, 4311, 4318, or 4320 (two courses)	6
ARTS 4305, 4307, 4309, 4310, or 4316	3	Advanced Art Electives	3
Electives	3		
	16		15

Fourth Year		
Fall	**Hours Spring**	**Hours**
Component Area VIII	3 Component Area VII	3
ARTS 4311, 3307, 4318, or 4320	3 Component Area IX	3
ARTS 4317	3 ARTS 4315	3
ARTS 4318	3 ARTS 4320	3
ARTS 4385	3 ARTS 4389	3
	15	15

Total Hours: 120

[1] ARTS 1303 also satisfies the Core Curriculum requirement for Component Area V (Creative Arts).

[2] Studio majors must take both (one is required in the BFA Core and one in the Major).

Minor in Art History

Code	Title	Hours
Minor in Art History		
ARTS 1303	Art History Survey I	3
ARTS 3385	Art History Survey II	3
Select four of the following:		12
ARTS 3382	The History Of Animation	
ARTS 3383	Design History	
ARTS 3386	Ancient Greek and Roman Art	
ARTS 3387	Renaissance Art History	
ARTS 4317	Museum And Gallery Practices	
ARTS 4381	History of Photography	
ARTS 4384	Modern Art Before 1945	
ARTS 4385	Art Since 1945	
ARTS 4387	History Of Mexican Art	
ARTS 4389	Criticism Thry In Visual Arts	
Total Hours		18

Minor in Graphic Design

The Graphic Design minor requires 18 hours (6 courses). Three courses are predetermined with three others selected from a list of electives.

Code	Title	Hours
Minor in Graphic Design		
Required Courses		
ARTS 2313	Foundations In Digital Art	3
ARTS 2323	Principles Of Graphic Design	3
ARTS 3322	Typography	3
Select three of the following:		9
ARTS 3323	Graphic Design In Context	
ARTS 3324	Corporate Identity Design	
ARTS 3326	Graphic Design Production	
ARTS 3375	Web Site Development	
ARTS 3383	Design History	
ARTS 4325	Advanced Typographic Design	
ARTS 4333	Interactive Design	
Total Hours		18

Notes:

The Minor in Graphic Design is designed to provide students with a general understanding of typography, the use of image and color, concept development, software skills, and the language of graphic design.

Prerequisites: ARTS 1313, ARTS 1314, and ARTS 1315, W.A.S.H. (Workshop in Art Studio and History), are listed as prerequisites for the courses in the minor; however, the W.A.S.H. prerequisites will be waived for minors in Graphic Design. In addition, portfolio reviews that are required for majors are not required for minors. Minors in Graphic Design will have these prerequisites waived upon meeting with a departmental advisor. A Graphic Design minor may not, however, declare a major in Graphic Design without approval of the chair and completion of the BFA prerequisites and portfolio reviews.

Minor in Photography

Code	Title	Hours
Minor in Photography		
ARTS 2365	Photographic Visualization	3
ARTS 2370	Digital Photography I	3
ARTS 2375	Photographic Concepts	3
Select nine hours from:		9
ARTS 3364	Photography Seminar	
ARTS 3368	Studio Practices I	
ARTS 3370	Digital Photography II	
ARTS 3374	Alternative Photo Processes	
ARTS 4368	Studio Practices II	
ARTS 4371	Human Form: A Photographc Stdy	
ARTS 4372	Photographic Narratives	
ARTS 4373	Contemporary Issues in Pho	
ARTS 4381	History of Photography	
Total Hours		18

Other advanced photo courses may be taken but require additional prerequisites.

Minor in Three-Dimensional Studio Art

Code	Title	Hours
Minor in Three-Dimensional Studio Art		
ARTS 1313	W.A.S.H. - 2D	3
ARTS 1314	W.A.S.H. - 3D	3
ARTS 1315	W.A.S.H. - Lecture	3
ARTS 1316	Drawing	3
Select nine hours from:		9
ARTS 3307	Performance and Video Art	
ARTS 3318	Sculpture I	
ARTS 3320	Ceramics I	
ARTS 4311	Advanced Studio	
ARTS 4318	Sculpture II	
ARTS 4320	Ceramics II	
Total Hours		21

Minor in Two-Dimensional Studio Art

Code	Title	Hours
Minor inTwo-Dimensional Studio Art		
ARTS 1313	W.A.S.H. - 2D	3
ARTS 1314	W.A.S.H. - 3D	3
ARTS 1315	W.A.S.H. - Lecture	3
ARTS 1316	Drawing	3

Select nine hours from:		9
ARTS 3305	Painting I	
ARTS 3310	Printmaking	
ARTS 3317	Life Drawing II	
ARTS 4305	Advanced Painting	
ARTS 4307	Painting In Aquamedia	
ARTS 4309	Book Arts	
ARTS 4311	Advanced Studio	
ARTS 4310	Advanced Printmaking	
ARTS 4316	Advanced Drawing	
ARTS 4331	Illustration	
Total Hours		21

Department of Dance

Chair: Jennifer Pontius (DNC_JKP@shsu.edu) (936) 294-1300 shsudance@shsu.edu

Website: Department of Dance (http://www.shsu.edu/dance)

"The dance is the mother of the arts." — Curt Sachs

Mission

The Department of Dance at Sam Houston State University delivers a dynamic, challenging experience that integrates creativity, performance, and scholarly pursuits designed to prepare each student for a 21st-century career in dance.

Academic Programs

The BFA program provides intensive study in modern, ballet, and jazz techniques; multiple performance opportunities; exciting guest artists and choreographers; opportunities for choreographic exploration, which include the integration of media into the creative process; and a solid academic grounding in coursework, which ranges from dance history, to criticism and analysis, to dance and technology. Admission to the BFA program is by audition only. The audition schedule is posted on the dance department's website (http://www.shsu.edu/academics/dance/future-students/auditions.html). Dance majors are required to meet with dance faculty for advisement prior to each semester.

Highlights

The Department of Dance at Sam Houston State University:

- was identified as one of the ten top dance programs in the country by Dance Teacher Magazine;
- is housed in the beautiful James and Nancy Gaertner Performing Arts Center, which includes four large studios with sprung floors, a state of the art dance theater, a 19-station Mac lab, a fully-equipped Pilates/conditioning studio, and spacious dressing rooms with showers;
- is an active member of the American College Dance Association;
- has its choreography created by students and faculty regularly selected for gala presentation;
- has been selected to present both student and faculty choreography at The Kennedy Center National ACDA conference, most recently in the spring of 2016;
- has alumni of the program performing with diverse professional dance companies, including Pilobolus, The Houston Met, Hopestone, NobleMotion Dance, and Blue Lapis Light; and
- regularly hosts a wide variety of guest artists, which has included Dominic Walsh Dance Theatre, Paul Taylor II, Houston Ballet II, The Dance Gallery, Jane Weiner, Ben Stevenson, Bill Evans, Rennie Harris, Marlies Yearby, Astrid von Ussar, and Manuel Vignoulle.

Career Opportunities

- Choreographer
- Dance educators at all levels
- Public high school teachers
- Studio owners and teachers
- Performing artists in dance
- Artistic directors of dance companies
- Performing arts presenters and administrators

Suggested Minors

The BFA in Dance does not require a minor. Many of our majors, however, choose to pursue a second area of study to broaden their education, either as a second major or as a minor. Depending on a student's career goals, pursuit of a minor in business, secondary teaching, biology, or another academic discipline will be appropriate.

- Bachelor of Fine Arts, Major in Dance
- Minor in Dance

Student Organizations

Chi Tau Epsilon, the prestigious national dance honor society, recognizes, supports, and promotes superior achievement in dance and in the performing arts. Membership in the society is recorded on the student's transcript. Each year, Chi Tau Epsilon is an active student organization, sponsoring the student choreography showcase, Dances @ 8; conducting recruitment workshops for the department; and sponsoring community

support activities that include Adopt a Highway, food drives, and participation in the Special Olympics. Chi Tau Epsilon also awards annual scholarships for outstanding choreographic and academic achievement.

Scholarships

The Department of Dance awards numerous scholarships ranging from $500 to $ 3,000 per academic year. Approximately $20,000 in performance-based scholarships is awarded each year. In addition, the Mary Ella Montague Endowed Scholarship is awarded to the outstanding returning dance major each year, and the Kelley Barber Award is given annually to a dance major for outstanding performance. Dance majors may also qualify for the Theatre and Dance Endowed Scholarship and the Nancy Gaertner Performing Arts Scholarship. For scholarship consideration, all students must apply through Scholarships4Kats. (http://www.shsu.edu/dept/financial-aid/scholarships)

Chair: **Jennifer Karen Pontius**

Elijah Alhadji Gibson, MFA (elijah@shsu.edu), *Assistant Professor of Dance*, *Department of Dance*, MFA, Univ of Wisconsin-Milwaukee; BFA, Sam Houston State University

Joshua P Manculich, MFA (jxm185@shsu.edu), *Assistant Professor of Dance*, *Department of Dance*, MFA, Ohio State Univ; BA, Point Park University

Dana Eugene Nicolay, MFA (dnc_dxn@shsu.edu), *Professor of Dance*, *Department of Dance*, MFA, Texas Christian University; BS, Texas Christian University

Andrew M Noble, MFA (amn008@shsu.edu), *Associate Professor of Dance*, *Department of Dance*, MFA, Florida State University; BA, Univ of South Florida

Dionne L Noble, MFA (dln008@shsu.edu), *Assistant Professor of Dance*, *Department of Dance*, MFA, Univ of Utah; BA, Univ of South Florida

Jennifer Karen Pontius, MFA (dnc_jkp@shsu.edu), *Associate Professor and Chair of Dance*, *Department of Dance*, MFA, Florida State University; MA, California St Un-Dominguez Hil; BA, Univ of Alabama-Birmingham

Interim Faculty

Alicia Marie Chappell, MFA (stdamc17@shsu.edu), *Lecturer of Dance*, *Department of Dance*, MFA, Sam Houston State University; BFA, Sam Houston State University

David James Deveau, MFA (djd017@shsu.edu), *Visiting Assistant Professor of Dance*, *Department of Dance*, MFA, Sam Houston State University; BFA, Sam Houston State University

Barry W Doss, BA (bwd006@shsu.edu), *Dance Costume Design Special't, Adjunct Faculty*, *Department of Dance*, BA, Texas Christian University

Jennifer Marie Mabus, MFA (jmm109@shsu.edu), *Visiting Assistant Professor of Dance*, *Department of Dance*, MFA, Sam Houston State University; BFA, Southern Methodist University

Betty Jean Nicolay, MED (bjn002@shsu.edu), *Lecturer of Dance*, *Department of Dance*, MED, Univ of Texas At Austin; BSED, Texas Christian University

Bachelor of Fine Arts, Major in Dance

Code	Title	Hours
Bachelor of Fine Arts, Major in Dance		
Core Curriculum		
Component Area I (Communication)		6
Component Area II (Mathematics)		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4
Major Core		
DANC 1101	Dance Workshop (4 semesters)	4
DANC 1201	Pilates-based Cond for Dance	2
Two semesters of:		6
DANC 1333	Ballet Dance Technique I	
or DANC 2333	Ballet Dance Technique II	
or DANC 2337	Beginning Aerial Dance	
Two semesters of:		6
DANC 1334	Modern Dance Technique I	
or DANC 2334	Modern Dance Technique II	
or DANC 2337	Beginning Aerial Dance	
DANC 2372	Dance History	3
DANC 2376	Choreography I	3
Four semesters of:		12
DANC 3333	Ballet Dance Technique III	
or DANC 3337	Intermediate/Advanced Aerial Dance	
or DANC 4333	Ballet Dance Technique IV	
Four semesters of:		12
DANC 3334	Modern Dance Technique III	
or DANC 3337	Intermediate/Advanced Aerial Dance	
or DANC 4334	Modern Dance Technique IV	
DANC 3335	Jazz Dance Technique III	3
DANC 3336	Improvisation & Partnering	3
DANC 3373	Laban Movement Analysis	3
or DANC 3374	Principles Of Dance Technique	
DANC 3376	Choreography II	3
DANC 4372	Dance Criticism & Analysis	3
DANC 4376	Choreography III	3
DANC 4377	Senior Studio	3
DANC 4384	Dance Pedagogy	3
DANC 4388	Dance and Technology	3
DANC 4389	Career Resources in Dance	3
Total Hours		120

Notes:

- Only grades of C or higher in all dance courses will apply towards the BFA in Dance.
- Undergraduate admission to the BFA in Dance is by audition **only**. Please visit our Admission/Audition page (http://www.shsu.edu/academics/dance/future-students/auditions.html) for more information and dates.

- Not all dance courses are offered each semester. Consult the *Schedule of Classes* and your dance faculty advisor before registration.
- **Sophomore Gate**: In conjunction with DANC 3376 (Choreography II), each student will be assessed by faculty to determine the student's progress and potential for completion of the BFA program.

First Year

Fall	Hours	Spring	Hours
Component Area I	3	Component Area I	3
Component Area II	3	Component Area IX	4
Component Area V	3	DANC 1101	1
DANC 1101	1	DANC 1333, 2333, or 2337	3
DANC 1333, 2333, or 2337	3	DANC 1334, 2334, or 2337	3
DANC 1334, 2334, or 2337	3		
	16		14

Second Year

Fall	Hours	Spring	Hours
Component Area III	4	Component Area VI	3
Component Area VI	3	Component Area VII	3
DANC 1101	1	DANC 1101	1
DANC 1201	2	DANC 3333, 3337, or 4333	3
DANC 2376	3	DANC 3335	3
DANC 3334, 3337, or 4334	3	DANC 3376	3
	16		16

Third Year

Fall	Hours	Spring	Hours
Component Area III	4	Component Area VII	3
DANC 3334, 3337, or 4334	3	DANC 2372	3
DANC 3336	3	DANC 3333, 3337, or 4333	3
DANC 3373 or 3374	3	DANC 4376	3
DANC 4388	3		
	16		12

Fourth Year

Fall	Hours	Spring	Hours
Component Area IV	3	Component Area VIII	3
DANC 3333, 3337, or 4333	3	DANC 3333, 3337, or 4333	3
DANC 3334, 3337, or 4334	3	DANC 3334, 3337, or 4334	3
DANC 4377	3	DANC 4372	3
DANC 4384	3	DANC 4389	3
	15		15

Total Hours: 120

Notes:

- Only grades of C or higher in all dance courses will apply towards the BFA in Dance.
- Undergraduate admission to the BFA in Dance is by audition **only**. Please visit our Admission/Audition page for more information and dates.
- Not all dance courses are offered each semester. Consult the *Schedule of Classes* and your dance faculty advisor before registration.
- **Sophomore Gate**: In conjunction with DANC 3376 (Choreography II), each student will be assessed by faculty to determine the student's progress and potential for completion of the BFA program.

Minor in Dance

Dance minors take 18 - 21 semester credit hours total.

Code	Title	Hours
Minor in Dance		
Select three courses from the following:		6-9

DANC 1201	Pilates-based Cond for Dance	
DANC 1204	Folk Dance Forms	
DANC 1206	Theater Dance Forms	
DANC 1221	Intro to Ballet Dance Techniqu	
DANC 1222	Intro to Modern Dance Techniqu	
DANC 1223	Jazz Dance Technique I	
DANC 1228	Tap Dance Technique I	
DANC 1229	Hip Hop Dance Technique	
DANC 1333	Ballet Dance Technique I [1]	
DANC 1334	Modern Dance Technique I [1]	
DANC 2223	Jazz Dance Technique II	
DANC 2333	Ballet Dance Technique II [1]	
DANC 2334	Modern Dance Technique II [1]	
DANC 2228	Tap Dance Technique II	
DANC 2337	Beginning Aerial Dance [1]	
DANC 3333	Ballet Dance Technique III [1]	
DANC 3334	Modern Dance Technique III [1]	
DANC 3335	Jazz Dance Technique III [1]	
DANC 3336	Improvisation & Partnering [1]	
DANC 3337	Intermediate/Advanced Aerial Dance [1]	
DANC 4333	Ballet Dance Technique IV [1]	
DANC 4334	Modern Dance Technique IV [1]	
DANC 4335	Jazz Dance Technique IV [1]	
DANC 1372	Dance As Art	3
Choose one of the following:		3
DANC 2372	Dance History	
DANC 2376	Choreography I [2]	
DANC 2332	Social And Folk Dance Forms	
Advance Hour Requirement [3]		6
DANC 3376	Choreography II [2]	
DANC 4372	Dance Criticism & Analysis	
DANC 4384	Dance Pedagogy	
Total Hours		18-21

1 Placement audition and departmental approval are required.

2 DANC 2376 is a prerequisite for DANC 3376.

3 Students may petition to enroll in other advanced courses in dance.

Department of Mass Communication

Chair: Jean Bodon (jxb034@shsu.edu) (936) 294-4419

Information: (936) 294-1341; Dan Rather Communications Building 123

Website: Department of Mass Communication (http://www.shsu.edu/academics/mass-communication)

The Mass Communication Program at Sam Houston State University offers a unique educational experience. In daily, one-on-one contact with faculty from a variety of theoretical and practical backgrounds, students are exposed to a combination of hands-on production classes, professional development classes, and traditional theory/criticism classes. Our graduates develop:

1. general media literacy skills that are increasingly required in our media-saturated contemporary experience, and
2. specific skill-sets especially applicable to the emerging technologically-driven marketplace.

There are six undergraduate MCOM degree concentrations:

- Bachelor of Arts, Major in Mass Communication: Multiplatform Journalism
- Bachelor of Arts, Major in Mass Communication: Broadcast Production
- Bachelor of Arts, Major in Mass Communication: Film
- Bachelor of Arts, Major in Mass Communication: Public Relations & Advertising
- Bachelor of Fine Arts, Major in Film and Television Production
- Bachelor of Science, Major in Agricultural Communication (Department of Agricultural Sciences & Engineering Technology)

Graduates can enter a variety of fields, including but not limited to video production, print and television news, broadcast and cable sales, media management, advertising, digital media production, promotions/public relations, and corporate media. In addition, students may supplement their degrees with educational requirements that allow them to become certified media-specialists in public school systems with a concentration in Mass Communication Teaching. Students are encouraged to take advantage of the MCOM Department's internship program.

Mission

The mission of the Department of Mass Communication is to acquire, synthesize, and disseminate knowledge related to print, broadcast, cable, online, and other forms of electronic communication for the purpose of producing media literate, socially aware, professionally competent graduates.

Program emphasis is on the preparation of ethical and technologically proficient communication professionals who are capable of making a positive impact on their environment and on society. Our graduates will acquire the skills for today's media marketplace and also develop the broader, theoretical background for:

- Negotiating convergence in the communication fields;
- Communicating with and servicing diverse populations;
- Understanding the economic and political pressures on professional integrity; and
- Intelligently assessing and interpreting unfolding events in a media saturated experience.

Highlights

The Department of Mass Communication offers a comprehensive blend of courses, including but not limited to global communication, film production and theory, media production and reporting, audience assessment, media sales, mass communication theory and history, and writing for print, broadcast, and digital media, and other professional development areas. The curriculum introduces students to each of the four emphasis areas during their first year in the mass communication program. During the remaining three years, students can register for classes in digital audio and video editing, film production and directing, feature writing, research techniques, communication law, media marketing, scriptwriting, global communication, and broadcast journalism. Students with a major or minor in the MCOM Department will have the opportunity to work with departmental media: 90.5 KSHU-FM, 90.5.2 El Gato, Cable Channel 7, *The Houstonian* newspaper, student news, and Priority One PR as part of their college experience.

Suggested Free Electives

Students in Mass Communication should select a specialized area of free elective classes compatible with their professional goals. In choosing an appropriate set of free electives, students should discuss their career plans with an advisor. For example, free electives in Management and Marketing are desirable for Public Relations & Advertising. History, English, foreign languages, Art, Theatre, Sociology, and other social sciences and fine arts are helpful to all emphases. Students with a Multi-Platform Journalism emphasis could benefit from free electives in Political Science or History.

Career Opportunities

There are a variety of career opportunities in the Mass Communication field. Some graduates pursue traditional positions in the mass media marketplace (reporting/editing/writing for newspapers, television stations, radio stations, or magazines). MCOM graduates may also pursue careers with public relations and advertising agencies, with corporate communication programs and within government, hospital, and other institutional settings. Graduates can affiliate with nonprofit agencies or move into sales and other promotional positions. Increasingly, graduates have been teaching in high schools, pursuing advanced graduate studies, and working in interactive media.

Program Specific Requirements

All students in the Mass Communication program will complete a departmental four-course core that provides a foundation for success in a variety of media fields. To help students understand the contemporary media environment, the core includes an analysis of media and society. Because specific skills are required in the media marketplace, the applied Writing for Mass Media and T.V. & Film Production courses are part of the departmental core. A course in mass media law and ethics examines legal issues pertinent to the print, electronic, and emerging digital press.

All Mass Communication majors and minors must earn a grade of 'C' or better in each Mass Communication courses, and successfully pass the departmental required competency writing and production tests.

- Bachelor of Arts, Major in Mass Communication: Multi-Platform Journalism
- Bachelor of Arts, Major in Mass Communication: Film
- Bachelor of Arts, Major in Mass Communication: Public Relations & Advertising
- Bachelor of Arts, Major in Mass Communication: Broadcast Production
- Bachelor of Fine Arts, Major in Film and TV Production
- Bachelor of Science, Major in Agricultural Communication (Department of Agricultural Sciences & Engineering Technology)
- Minor in Film Studies
- Minor in Sports Media

Student Organizations and Activities

The Department supports student chapters of the American Advertising Federation (AAF), the National Broadcasting Association (NBS), the Texas Association of Broadcast Students (TABS), the Public Relations Student Society of America (PRSSA), and the National Association of Black Journalists (NABJ).

Internships and Study Abroad

Junior and senior level students who meet requirements may enroll in semester-long professional internships. MCOM students have interned at national media outlets such as CBS News, *Entertainment Tonight*, ESPN, *David Letterman*, *The Jerry Springer Show*, MTV, The Cannes Film Festival, South by Southwest, and Disney World; regional media outlets including KTLA-TV in Los Angeles; KHOU-TV in Houston, *The Conroe Courier*, *The Victoria Advocate*, Pierpont Public Relations, the Houston Symphony; and at specialized institutional sites such as the Texas State Senate.

Scholarships

Scholarships are available for outstanding undergraduate students continuing in the program. Most scholarship deadlines are March 1 for the following academic year.

Please contact the Department of Mass Communication or visit: http://www.shsu.edu/academics/mass-communication/scholarships/index.html

Chair: **Jean Richard R Bodon**

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Bachelor of Arts, Major in Mass Communication: Broadcast Production

Broadcast Production

Students completing the Broadcast Production concentration prepare for decision-making and technical responsibilities in broadcast, cable, and alternative video production. Technical, artistic, and management skills combine to ensure that quality electronic content is presented in an effective, appropriate, cost-effective, and engaging manner.

All students who choose to declare a major or minor in Mass Communication or Ag/Com will be required to pass the Pearson Grammar Competency Lab with a score of 80 percent or better before they will be allowed to register for 3000 or 4000-level courses in MCOM. The lab is offered free of charge. Please see Grammar Module (http://www.shsu.edu/academics/mass-communication/grammar-module/grammar-module.html) for additional information.

Code	Title	Hours
Bachelor of Arts, Major in Mass Communication: Broadcast Production		
Core Curriculum		
Component Area I (Communication)		6
Component Area II (Mathematics)		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4
Degree Specific Requirements		
PHIL 2306	Contemporary Moral Issues [1]	3
ARTS 2370	Digital Photography I	3
Select one of the following: [2]		3
ECON 2300	Introduction To Economics	
ECON 2301	Principles Of Macroeconomics	
ECON 2302	Principles Of Microeconomics	
Foreign Language - 14 Hours - 4 Courses (XXXX1411, 1412, 2311, 2312): [3]		14
Advanced Liberal Arts Electives (6 hours)		6
Mass Communication Core (14 hours)		
MCOM 1130	Media Literacy [4]	1
MCOM 1330	Analysis of Electronic Culture	3
MCOM 1332	Writing For Mass Media	3
MCOM 2371	TV & Film Production	3
MCOM 3026	Media Practicum	1
MCOM 4371	Mass Media Law And Ethics	3
Courses Required for Concentration (21 hours)		
MCOM 1371	Audio Production & Performance	3
MCOM 3026	Media Practicum	3
MCOM 3372	Single Cam & Non-Linear Edit I	3
MCOM 3375	Scriptwriting	3
MCOM 3377	Multi-Camera Studio Production	3
MCOM 3379	Multi-Camera Field Production	3
MCOM 4373	Advanced Production	3
Concentration Electives (12 hours)		12
MCOM 3366	Photojournalism	
MCOM 3378	Production Management	
MCOM 4022	Special Topic	
MCOM 4099	Independent Study	
MCOM 4365	Online Journalism	

MCOM 4376	Advanced Audio Production	
MCOM 4378	Multi-Camera Remotes	
MCOM 4398	Professional Internship	
Select Option A or B		12
Option A: 12 Credits in 1 Subject Area, 6 Upper Level		
Option B: 12 Credits in Business, 6 Upper Level		
Total Hours		120

1 PHIL 2306 satisfies three hours of the requirement for Component Area IX and is a degree specific requirement for mass communication.

2 ECON 2300 or ECON 2301 or ECON 2302 satisfies the requirement for Component Area VIII and is a degree specific requirement for mass communication.

3 Foreign Language Course XXXX2311 or XXXX2312 satisfies the requirement for Component Area IV and part of the mass communication foreign language requirement.

4 MCOM 1130 satisfies one hour of requirement for Component Area IX as well as the major requirement.

First Year

Fall	Hours	Spring	Hours
Component Area I	3	Component Area I	3
Component Area II	3	ECON 2300, 2301, or 2302[2]	3
Foreign Language XXXX1411 [1]	4	Foreign Language XXXX1412[1]	4
MCOM 1330	3	MCOM 1130[2]	1
MCOM 1332	3	MCOM 2371	3
MCOM 3026	1		
	17		14

Second Year

Fall	Hours	Spring	Hours
Component Area III	4	Component Area III	4
Advanced Liberal Arts Elective	3	Component Area VI	3
Foreign Language XXXX2311[1, 2]	3	ARTS 2370	3
MCOM 4371	3	Foreign Language XXXX2312[1]	3
PHIL 2306[2]	3	MCOM 1371	3
	16		16

Third Year

Fall	Hours	Spring	Hours
Component Area V	3	Component Area VII	3
Component Area VII	3	Component Area VI	3
Advanced Liberal Arts Elective	3	MCOM 3377	3
MCOM 3372	3	MCOM 3379	3
MCOM 3375	3	Option A or B: Lower Division Course	3
	15		15

Fourth Year

Fall	Hours	Spring	Hours
MCOM 3026	3	MCOM 4373	3
MCOM Concentration Elective[3]	3	MCOM Concentration Elective[3]	3
MCOM Concentration Elective[3]	3	MCOM Concentration Elective[3]	3
Option A or B: Lower Division Course	3	Option A or B: Upper Division Course	3
Option A or B: Upper Division Course	3		
	15		12

Total Hours: 120

1 Four courses in one language required.

2 Courses may be counted in two separate requirements.

[3] For MCOM concentration electives, select 12 hours of the following: MCOM 3366, , MCOM 3378, MCOM 4022, MCOM 4099, MCOM 4365, MCOM 4376 MCOM 4378, MCOM 4398.

Bachelor of Arts, Major in Mass Communication: Multiplatform Journalism

Multiplatform Journalism

The Multiplatform Journalism Concentration empowers students to craft news content on a variety of emerging media platforms with efficiency and expedience. Students develop traditional reporting and interviewing skills, writing and copy editing proficiencies, and expertise with photography, audio recording, and video recording. Publication across a variety of platforms, including student-created websites and diverse social media, is also emphasized.

All students who choose to declare a major or minor in Mass Communication or Ag/Com will be required to pass the Pearson Grammar Competency Lab with a score of 80 percent or better before they will be allowed to register for 3000 or 4000-level courses in MCOM. The lab is offered free of charge. Please visit Grammar Module (http://www.shsu.edu/academics/mass-communication/grammar-module/grammar-module.html) for additional information.

Code	Title	Hours
Bachelor of Arts, Major in Mass Communication: Multi-Platform Journalism		
Core Curriculum		
Component Area I (Communication)		6
Component Area II (Mathematics)		3
Component Area III (Life and Physical Science		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4
Degree Specific Requirements		
PHIL 2306	Contemporary Moral Issues [1]	3
ARTS 2370	Digital Photography I	3
Select one of the following: [2]		3
ECON 2300	Introduction To Economics	
ECON 2301	Principles Of Macroeconomics	
ECON 2302	Principles Of Microeconomics	
Foreign Language - 14 Hours - 4 Courses (XXXX1411, 1412, 2311, 2312): [3]		14
Advanced Liberal Arts Electives (6 hours)		6
Mass Communication Core (14 hours)		
MCOM 1130	Media Literacy [4]	1
MCOM 1330	Analysis of Electronic Culture	3
MCOM 1332	Writing For Mass Media	3
MCOM 2371	TV & Film Production	3
MCOM 3026	Media Practicum	1
MCOM 4371	Mass Media Law And Ethics	3
Courses Required for Concentration (24 hours)		
MCOM 1371	Audio Production & Performance	3
MCOM 2362	News Reporting	3
MCOM 3361	Broadcast Journalism Writing	3
MCOM 3364	News Editing	3
MCOM 4361	TV News Producing	3
MCOM 4364	Investigative Reporting	3
MCOM 4365	Online Journalism	3
MCOM 4383	Audience Research & Analysis	3
Concentration Electives (9 hours)		9

MCOM 3026	Media Practicum	
MCOM 3360	Specialized Writing	
MCOM 3362	Media Criticism	
MCOM 3365	Announcing for Broadcast News	
MCOM 3366	Photojournalism	
MCOM 3372	Single Cam & Non-Linear Edit I	
MCOM 4022	Special Topic	
MCOM 4099	Independent Study	
MCOM 4376	Advanced Audio Production	
MCOM 4398	Professional Internship	
Select Option A or B		12
Option A: 12 Credits in 1 Subject Area, 6 Upper Level		
Option B: 12 Credits in Business, 6 Upper Level		
Total Hours		120

1 PHIL 2306 satisfies the requirement for Component Area IX and is a degree specific requirement for mass communication.

2 ECON 2300, or ECON 2301 or ECON 2302 satisfies the requirement for Component Area VIII and is a degree specific requirement for mass communication.

3 Foreign Language Course XXXX2311 or XXXX2312 satisfies the requirement for Component Area IV and part of the mass communication foreign language requirement.

4 MCOM 1130 satisfies one hour of the requirement for Component Area IX as well as the major.

First Year

Fall	Hours	Spring	Hours
Component Area I	3	Component Area I	3
Component Area II	3	ECON 2300, 2301, or 2302[2]	3
Foreign Language XXXX1411[1]	4	Foreign Language XXXX1412[1]	4
MCOM 1330	3	MCOM 1130[2]	1
MCOM 1332	3	MCOM 2371[3]	3
	16		14

Second Year

Fall	Hours	Spring	Hours
Component Area III	4	Component Area III	4
Advanced Liberal Arts Elective	3	ARTS 2370	3
Foreign Language XXXX2311[1, 2]	3	Foreign Language XXXX2312[1]	3
PHIL 2306[2]	3	MCOM 1371	3
MCOM 4371	3	MCOM 2362	3
	13		16

Third Year

Fall	Hours	Spring	Hours
Component Area VI	3	Component Area V	3
Advanced Libral Arts Elective	3	Component Area VI	3
MCOM 3026	1	MCOM 3364	3
MCOM 3361	3	MCOM 3372	3
MCOM Concentration Elective[3]	3	Option A or B: Upper Division Course	3
Option A or B: Lower Division Course	3		
	16		15

Fourth Year

Fall	Hours	Spring	Hours
Component Area VII	3	Component Area VII	3
MCOM 4364	3	MCOM 4361	3
MCOM Concentration Elective[3]	3	MCOM 4365	3
Option A or B: Lower Division Course	3	MCOM 4383	3

Option A or B: Upper Division Course	3 MCOM Concentration Elective[3]	3
	15	15

Total Hours: 120

1 Four courses required in one language.

2 Courses may be counted in two separate requirements.

3 For MCOM concentration electives, select 9 hours of the following: MCOM 3026, MCOM 3360, MCOM 3365, MCOM 3366, MCOM 4376, MCOM 3372, MCOM 4022, MCOM 4099, MCOM 4398.

Bachelor of Arts, Major in Mass Communication: Public Relations & Advertising

Public Relations & Advertising

Today's marketplace increasingly requires communication practitioners to understand both traditional and new media and to be able to integrate communication tools across once-separate disciplines. Students who choose the Public Relations & Advertising Concentration will participate in a program that will provide a strong grounding in analytical and creative thought and comprehensive understanding of current industry changes. Students are required to complete the MCOM six-course core and then focus on a sequence of public relations and advertising courses that combines theoretical perspectives with hands-on experience. Students can also choose to enhance their portfolios and field experiences by taking elective courses such as the Professional Internship and Priority One, an on-campus agency.

Graduates of this concentration will have command of tools and techniques required for jobs in strategic communication in both corporate and non-profit environments. Additionally, graduates will have expertise in using those tools and techniques to think critically and creatively to solve communication problems in management-level positions.

All students who choose to declare a major or minor in Mass Communication or Ag/Com will be required to pass the Pearson Grammar Competency Lab with a score of 80 percent or better before they will be allowed to register for 3000 or 4000-level courses in MCOM. The lab is offered free of charge. Please visit Grammar Module (http://www.shsu.edu/academics/mass-communication/grammar-module/grammar-module.html) for additional information.

Code	Title	Hours
Bachelor of Arts, Major in Mass Communication: Public Relations & Advertising		
Core Curriculum		
Component Area I (Communication)		6
Component Area II (Mathematics)		3
Component Area III (Life and Physical Sciences)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (US History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4
Degree Specific Requirements		
PHIL 2306	Contemporary Moral Issues [1]	3
ARTS 2370	Digital Photography I	3
Select one of the following: [2]		3
ECON 2300	Introduction To Economics	
ECON 2301	Principles Of Macroeconomics	
ECON 2302	Principles Of Microeconomics	
Foreign Language - 14 Hours - 4 Courses (XXXX1411, 1412, 2311, 2312): [3]		14
Advanced Liberal Arts Electives (6 hours)		6
Mass Communication Core (14 hours)		
MCOM 1130	Media Literacy [3]	1
MCOM 1330	Analysis of Electronic Culture	3
MCOM 1332	Writing For Mass Media	3
MCOM 2381	Visual Communication for Media	3

MCOM 3026	Media Practicum	1
MCOM 4371	Mass Media Law And Ethics	3
Courses Required for Concentration (27 hours)		
MCOM 2382	Design for PR & Advertising	3
MCOM 3381	Principles Of Public Relations	3
MCOM 3382	Principles of Advertising	3
MCOM 3383	Writing for PR & Advertising	3
MCOM 3385	Advanced Writing for PR & Adv	3
MCOM 3388	Sales and Marketing	3
MCOM 4383	Audience Research & Analysis	3
MCOM 4384	Advanced Design for Public Relations & Advertising	3
MCOM 4390	Campaigns for PR & Advertising	3
Concentration Electives (6 hours)		6
MCOM 3026	Media Practicum	
MCOM 4022	Special Topic	
MCOM 4099	Independent Study	
MCOM 4398	Professional Internship	
Select Option A or B		12
Option A: 12 Credits in 1 Subject Area, 6 Upper Level		
Option B: 12 Credits in Business, 6 Upper Level		
Total Hours		120

1 PHIL 2306 satisfies the requirement for Component Area IX and is a degree specific requirement for mass communication.

2 ECON 2300, or ECON 2301 or ECON 2302 satisfies the requirement for Component Area VIII and is a degree specific requirement for mass communication.

3 Foreign Language Course XXXX2311 or XXXX2312 satisfies the requirement for Component Area IV and is part of the mass communication foreign language requirement.

4 MCOM 1130 satisfies one hour of the requirement for Component Area IX as well as the major.

Notes:

- Students should use elective and/or minor hours to satisfy the 42 advanced hour requirement. All students must complete at least 120 hours to graduate.
- Select at least 6 liberal arts hours.

First Year

Fall	Hours	Spring	Hours
Component Area I	3	Component Area I	3
Cpmponent Area II	3	ECON 2300, 2301, or 2302[2]	3
Foreign Language XXXX1411[1, 2]	4	Foreign Language XXXX1412[1]	4
MCOM 1330	3	MCOM 1130[2]	1
MCOM 1332	3	MCOM 2381	3
MCOM 3026	1		
	17		14

Second Year

Fall	Hours	Spring	Hours
Component Area III	4	Component Area III	4
Advanced Liberal Arts Elective	3	ARTS 2370	3
Foreign Language XXXX2311[1, 2]	3	Foreign Language XXXX2312[1]	3
MCOM 4371	3	MCOM 2382	3
PHIL 2306	3	MCOM 3381	3
	16		16

Third Year

Fall	Hours	Spring	Hours
Component Area VI	3	Component Area V	3
Advanced Liberal Arts Elective	3	Component Area VI	3
MCOM 3382	3	MCOM 3385	3
MCOM 3383	3	MCOM 3388	3
MCOM Concentration Elective[3]	3	Option A or B: Lower Division Course	3
	15		15

Fourth Year

Fall	Hours	Spring	Hours
Component Area VII	3	Component Area VII	3
MCOM 4383	3	MCOM 4390	3
MCOM 4384	3	MCOM Concentration Elective[3]	3
Option A or B: Lower Division Course	3	Option A or B: Upper Division Course	3
Option A or B: Upper Division Course	3		
	15		12

Total Hours: 120

1 Four courses in one language required.

2 Courses may be counted in two separate requirements.

3 For MCOM concentration electives, select 6 hours of the following: MCOM 3026, MCOM 4022, MCOM 4099, MCOM 4398.

Notes:

- Students should use elective and/or minor hours to satisfy the 42 advanced hour requirement. All students must complete at least 120 hours to graduate.
- Select at least 6 liberal arts hours.

Bachelor of Fine Arts, Major in Film & TV Production

The Bachelor of Fine Arts in film and TV production at Sam Houston State University is perfect for anyone interested in studying digital cinema.

Whether you want to write, direct, produce, design, edit, or shoot, you can get your first shot with a Sam Houston film & TV degree plan. The BFA in film and TV production provides students with an excellent liberal arts education from a renown department with a high degree of student-faculty interaction, a wide variety of hands-on courses, state-of-the-art facilities located in the Dan Rather Communications Building, and worldwide networking opportunities. Students will be prepared for a career in motion picture and media production in a diverse, multi-cultural, and rapidly changing media world.

Code	Title	Hours
Bachelor of Fine Arts, Major in Film and TV Production		
Core Curriculum		
Component Area I (Communication)		6
Component Area II (Mathematics)		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4
Required Courses		
MCOM 1330	Analysis of Electronic Culture	3
MCOM 1332	Writing For Mass Media	3
THEA 1364	Beginning Acting	3
MCOM 1371	Audio Production & Performance	3
MCOM 2351		3

MCOM 2371	TV & Film Production	3
MCOM 3351	Moving Image Aesthetics	3
MCOM 3352	Cinematography	3
MCOM 3353	Advanced Editing for Film & TV	3
MCOM 3359	Directing for Film and TV	3
MCOM 3372	Single Cam & Non-Linear Edit I	3
MCOM 3375	Scriptwriting	3
MCOM 3377	Multi-Camera Studio Production	3
MCOM 3378	Production Management	3
MCOM 3379	Multi-Camera Field Production	3
THEA 4331	Acting For The Camera	3
MCOM 4351	New Media Platforms	3
MCOM 4371	Mass Media Law And Ethics	3
MCOM 4373	Advanced Production	3
MCOM 4375	Advanced Screenwriting	3
MCOM 4378	Multi-Camera Remotes	3
MCOM 4379	Directing Multicam Productions	3
MCOM 4398	Professional Internship	3
MCOM 4099	Independent Study	3
Electives		6
Total Hours		120

First Year

Fall	Hours	Spring	Hours
Component Area I	3	Component Area I	3
MCOM 1330	3	Component Area II	3
MCOM 1332	3	Component Area III	4
Component Area III	4	MCOM 1371	3
Component Area IV	3	THEA 1364	3
	16		16

Second Year

Fall	Hours	Spring	Hours
Component Area V	3	Component Area VI	3
Component Area VI	3	Component Area VII	3
MCOM 2351	3	MCOM 3352	3
MCOM 2371	3	MCOM 3353	3
MCOM 3351	3	MCOM 3359	3
	15		15

Third Year

Fall	Hours	Spring	Hours
Component Area VII	3	Component Area IX	3
Component Area VIII	3	Elective	3
Component Area IX	1	MCOM 3378	3
MCOM 3372	3	MCOM 3379	3
MCOM 3375	3	THEA 4331	3
MCOM 3377	3		
	16		15

Fourth Year

Fall	Hours	Spring	Hours
Elective	3	MCOM 4378	3
MCOM 4351	3	MCOM 4379	3
MCOM 4371	3	MCOM 4398	3

MCOM 4373	3 MCOM 4099	3
MCOM 4375	3	
	15	12

Total Hours: 120

Bachelor of Arts, Major in Mass Communications: Film

Film

The Film concentration provides students interested in digital cinema with the basics of film production and the visual lexicon. This includes fundamental film production and post-production skills as well as an examination of contemporary and historical films in terms of style and context. Students develop skills to critically examine film texts and to appreciate production workflow, preparing them for an exciting career in the film industry.

All students who choose to declare a major or minor in Mass Communication or Ag/Com will be required to pass the Pearson Grammar Competency Lab with a score of 80 percent or better before they will be allowed to register for 3000 or 4000-level courses in MCOM. The lab is offered free of charge. Please visit Grammar Module (http://www.shsu.edu/academics/mass-communication/grammar-module/grammar-module.html) for additional information.

Code	Title	Hours
Bachelor of Arts, Major in Mass Communications: Film		
Core Curriculum		
Component Area I (Communication)		6
Component Area II (Mathematics)		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4
Degree Specific Requirements (9 hours)		
PHIL 2306	Contemporary Moral Issues [1]	3
ARTS 2370	Digital Photography I	3
Select one of the following: [2]		3
ECON 2300	Introduction To Economics	
ECON 2301	Principles Of Macroeconomics	
ECON 2302	Principles Of Microeconomics	
Foreign Language - 14 Hours - 4 Courses (XXXX1411, 1412, 2311, 2312): [3]		14
Advanced Liberal Arts Electives (6 hours)		6
Mass Communication Core (14 hours)		
MCOM 1130	Media Literacy [4]	1
MCOM 1330	Analysis of Electronic Culture	3
MCOM 1332	Writing For Mass Media	3
MCOM 2371	TV & Film Production	3
MCOM 3026	Media Practicum	1
MCOM 4371	Mass Media Law And Ethics	3
Courses Required for Concentration (24 hours)		
MCOM 1371	Audio Production & Performance	3
MCOM 2351		3
MCOM 3351	Moving Image Aesthetics	3
MCOM 3352	Cinematography	3
MCOM 3353	Advanced Editing for Film & TV	3
MCOM 3372	Single Cam & Non-Linear Edit I	3
MCOM 3375	Scriptwriting	3

MCOM 4373	Advanced Production	3
Concentration Electives (9 hours)		9
MCOM 3026	Media Practicum	
MCOM 3373	Studio Production	
MCOM 3377	Multi-Camera Studio Production	
MCOM 3378	Production Management	
MCOM 3379	Multi-Camera Field Production	
MCOM 4022	Special Topic	
MCOM 4099	Independent Study	
MCOM 4376	Advanced Audio Production	
MCOM 4398	Professional Internship	
Select Option A or B		12
Option A: 12 Credits in 1 Subject Area, 6 Upper Level		
Option B: 12 Credits in Business, 6 Upper Level		
Total Hours		120

1 PHIL 2306 satisfies the Core Curriculum requirement for Component Area IX and is a degree specific requirement for mass communication.

2 ECON 2300, or ECON 2301 or ECON 2302 satisfies the Core Curriculum requirement for Component Area VIII as well as the major.

3 Foreign Language Course XXXX2311 or XXXX2312 satisfies the Core Curriculum requirement for Component Area IV and part of the mass communication foreign language requirement.

4 MCOM 1130 satisfies the Core Curriculum requirement for Component Area IX as well as the major.

Notes

- Students should use elective and/or minor hours to satisfy the 42 advanced hour requirement. All students must complete at least 120 hours to graduate.
- Select at least 6 liberal arts hours.

First Year

Fall	Hours	Spring	Hours
Component Area I	3	Component Area I	3
Component Area II	3	ECON 2300, 2301, or 2302[2]	3
Foreign Language XXXX1411[1, 2]	4	Foreign Language XXXX1412[1, 2]	4
MCOM 1330	3	MCOM 1130[2]	1
MCOM 1332	3	MCOM 1371	3
	16		14

Second Year

Fall	Hours	Spring	Hours
Component Area III	4	Component Area III	4
Advanced Liberal Arts Elective	3	ARTS 2370	3
Foreign Language XXXX2311[1, 2]	3	Foreign Language XXXX2312[1, 2]	3
MCOM 3375	3	MCOM 2351	3
PHIL 2306[2]	3	MCOM 2371	3
	16		16

Third Year

Fall	Hours	Spring	Hours
Component Area VI	3	Component Area V	3
Advanced Liberal Arts Elective	3	Component Area VI	3
MCOM 3026	1	MCOM 3353	3
MCOM 3351	3	MCOM 3372	3
MCOM 3352	3	Option A or B: Lower Division Course	3
	13		15

Fourth Year

Fall	Hours	Spring	Hours
Component Area VII	3	Component Area VII	3
MCOM Concentration Elective[3]	3	MCOM Concentration Elective[3]	3
MCOM Concentration Elective[3]	3	MCOM 4373	3
Option A or B: Lower Division Course	3	MCOM 4371	3
Option A or B: Upper Division Course	3	Option A or B: Upper Division Course	3
	15		15

Total Hours: 120

1 Four courses in one language required.

2 Course may be counted in two sparate requirements.

3 For MCOM concentration electives, select 9 hours of the following: MCOM 3026, , MCOM 3373, MCOM 3377, MCOM 3378, MCOM 3379, MCOM 4022, MCOM 4099,MCOM 4376 MCOM 4398

Notes

- Students should use elective and/or minor hours to satisfy the 42 advanced hour requirement. All students must complete at least 120 hours to graduate.
- Select at least 6 liberal arts hours.

Minor in Film Studies

The minor in Film Studies' curriculum focuses on focuses on film theory and criticism of films form various cultures. The 18 semester credit hour minor enhances preparation for students in several career paths: for artists in the media industry, for educators and potential graduate students in languages, history, and visual culture; and for general administration. To encourage interdisciplinary study, no more than 12 semester credit hours can be taken from one department.

Code	Title	Hours
Minor in Film Studies		
Core Requirements		
MCOM 2366	Film Appreciation [1]	3
Film History Prescribed Electives		3-6
MCOM 3354	Film History I [2]	3
MCOM 3355	Film History II [2]	3
Prescribed Electives		
Choose four from the following [3]		12
ARTS 3382	The History Of Animation [4]	
ENGL 3334	Literature And Film [4]	
FREN 4370	Seminar in Selected Topics of Literacy, Language, and Civilization [4]	
GERM 4370	Seminar in Sel German Topics [4]	
HONR 3343	Film and Society [4]	
MCOM 3356	Select Film Genre [2]	
MCOM 4350	Film Theory [2]	
MUSI 4375	Film Scoring [4]	
PHIL 4373	Phil in Film & Literature [4]	
POLS 4081	Problems in Political Science [4]	
Total Hours		18-21

1 MCOM 2366 satisfies the Core Curriculum requirement for Component Area IX (Component Area Option).

2 This course's prerequisite of MCOM 2366 is included in the Film Studies minor curriculum. Students with this minor are exempted from the additional prerequisite of 6 semester credit hours of additional MCOM courses.

3 Only 9 semester credit hours are required if **both** courses, MCOM 3354 and MCOM 3355, are taken for the Film History Prescribed Electives. .

4 Course has prerequisite that may require additional semester credit hours or instructor approval.

Note

Other courses with a strong focus on film may be taken (with minor program coordinator approval).

Minor in Sports Media

The minor in Sports Media 18 semester credit hour curriculum enhances instruction for students seeking careers in sports media. Students seeking jobs in sports broadcasting, sports journalism, and other sports areas will benefit from focusing their study in this subject area. Prerequisite courses resulting in additional semester credit hours may be required.

Code	Title	Hours
Minor in Sports Media		
Media Production		
Choose three from the following:		9
Sports Broadcasting		
MCOM 2371	TV & Film Production	
MCOM 3026	Media Practicum ((Sports Broadcasting))	
Sports Writing		
MCOM 2362	News Reporting	
MCOM 3026	Media Practicum (Houstonian)	
MCOM 3360	Specialized Writing ((Sports Journalism))	
Media Theory and Administration		
Choose two of the following:		6
KINE 3378	Adm of Kinesiology & Sport	
KINE 3388	Sports In Contemp Society	
MCOM 4366	Social Implications of Media	
Prescribed Electives		
Choose one of the following:		3
ECON 4353	Economics Of Sports [1]	
KINE 3365	Sport Law	
KINE 3389	Gender and Sport	
MCOM 3365	Announcing for Broadcast News	
MCOM 3372	Single Cam & Non-Linear Edit I	
MCOM 3379	Multi-Camera Field Production	
MCOM 4393	Global Media Communication	
SOCI 2366	Sociology Of Sport	
Total Hours		18

[1] Prerequisites for ECON 4353 are 50 completed hours and ECON 2300 or ECON 2301 or ECON 2302.

Note

- Mass Communication majors will not be allowed to count courses required for their concentration toward the minor in Sports Media. Prescribed electives for the minor should be taken instead to meet the 18 credit hour total. Mass Communication majors will be permitted to count concentration electives toward the minor.
- Prerequisites courses resulting in additional semester credit hours may be required, notably MCOM 1332 and MCOM 1371.

Department of Theatre & Musical Theatre

Chair: Kristina S. Hanssen (drm_kxh@shsu.edu) (936) 294-1350

The Department of Theatre and Musical Theatre offers two degrees: a BFA in Theatre and a BFA in Musical Theatre. Students who enroll in the BFA in Theatre choose one of three tracks: Acting/Directing, Design/Technology, or Theatre with Teaching Certification. At the end of every semester, all students meet with faculty members in their respective areas for an assessment of their progress in their degree. The BFA in Musical Theatre is a limited enrollment program, and admittance is by audition only. Perspective musical theatre students should contact the department in the early fall for information concerning the audition schedule. If accepted into the program, the student will declare an emphasis in theatre, dance, or music.

The department produces between eight and ten productions during the nine month academic year and one to six productions over the summer. Students have the opportunity to put into practice what they are learning in the classroom in all areas that they study. The department expects all incoming students to audition for all non-musicals. These auditions occur during the days leading up to the first day of class and the first few days following, each semester. Returning students with a performance emphasis are also expected to audition for all non-musicals each semester. All Musical Theatre majors are expected to audition for all shows each semester. To participate in auditions, the student should schedule an audition through the Department of Theatre and Musical Theatre (http://www.shsu.edu/academics/theatre) website. Freshmen may be cast alongside upperclassmen. Advanced students in stage management, design, technology (costumes, lights, sets), directing and house management may be chosen to fill the lead positions in their fields for any of the departmentally-produced shows.

The department is committed to encouraging and promoting the academic success of its students. Students are expected to excel in their academic course work as well as in their production assignments throughout the year, and they are supported in this effort. Students must maintain a minimum GPA of 2.75 in their major area to be in good academic standing. Students falling below this target GPA will be placed on probation for a semester. Students placed on probation will be asked to meet regularly with their advisors in order to address academic issues and facilitate their success. Probation will be a factor taken into consideration as decisions are made regarding casting, design, stage management, and directing opportunities as well as determining eligibility for paid student assistantship positions in the department.

Advanced students may take advantage of a number of internships with theatres in the Greater Houston area. The close proximity to the city also provides students with the opportunity to experience live professional theatre throughout their study. Workshops and discussions led by guest artist occur in the department each year.

Academic Advisement

All students majoring or minoring in theatre should meet with an academic advisor in the Department of Theatre and Musical Theatre each semester. All tenure track faculty members in the department advise our majors and minors.

Highlights

The Theatre and Musical Theatre programs at Sam Houston State University

- are active in the Kennedy Center American College Theater Festival (KCACTF);
- have been invited to participate at the Regional Kennedy Center American College Theater Festival consistently since 2000;
- were invited to perform The Laramie Project at the National KCACTF Festival in Washington, D.C. in 2003;
- have an internship with the Theatre Under the Stars (TUTS) in Houston;
- have an internship program with STAGES Repertory Theatre in Houston;
- have an internship program with Classical Theatre Company in Houston;
- have private auditions on the Sam Houston State University campus for SHSU theatre and musical theatre students with Broadway Theatre Project, The Performing Arts Project and The Broadway Artists Intensive; and
- have guest artists in the areas of acting, directing, playwriting, stage management, and design. These have included Edward Albee, James Black, Andrew Campbell, Rod Caspers, Dave Clemmons, Kevin Cooney, Judy Dolan. Sofia Gomez, Greg Graham, Jean Guy LeCat, Luc LaFortune, Robert Marks, James McLure, Keith Pitts, Mark Ramont, Georgia Stitt, and Michael York.

The programs also hold memberships and participate in the

- Kennedy Center American College Theatre Festival (KCACTF),
- Musical Theatre Educators Alliance (MTEA),
- National Alliance for Musical Theatre (NAMT),
- Southwest Theatre Association (SWTA),
- Texas Educational Theatre Association (TETA),
- Texas Nonprofit Theatres (TNT), and the
- United States Institute for Theatre Technology (USITT).

Career Opportunities

Students who complete their degrees in theatre or musical theatre may pursue careers in design, management, performance, secondary education, or technology. Students may also choose to pursue graduate degrees in order to further their academic and professional preparation.

Suggested Minors

There is no minor required for a BFA in Theatre or Musical Theatre.

- Bachelor of Fine Arts, Major in Theatre-Acting and Directing Emphasis
- Bachelor of Fine Arts, Major in Theatre-Design and Technology Emphasis
- Bachelor of Fine Arts, Major in Theatre-Theatre Studies Emphasis
- Bachelor of Fine Arts, Major in Musical Theatre With Dance Emphasis
- Bachelor of Fine Arts, Major in Musical Theatre With Music Emphasis
- Bachelor of Fine Arts, Major in Musical Theatre With Theatre Emphasis
- Bachelor of Fine Arts, Major in Theatre With Teaching Certification
- Minor in Theatre

Student Organizations

- Alpha Psi Omega - honorary national drama fraternity
- United States Institute for Theatre Technology

Internships/Apprenticeships

The Sam Houston State University Department of Theatre and Musical Theatre has a professional internship program with Theatre Under The Stars (TUTS), Houston. This internship allows Sam Houston State University students to work with the Humphrey's School of Musical Theatre and to work with Theatre Under The Stars in a performance as well as an arts administration capacity. In addition, internship programs in acting and in some areas of technical theatre have been developed with STAGES Repertory Theatre, The Classical Theatre Company, Texas Repertory Theatre, and Main Street Theatre.

Scholarships

Scholarships are available through the theatre program for theatre and musical theatre majors. Performance auditions and Technical and Design auditions are held each spring for freshman and transfer students entering in the fall. Continuing scholarships are available for application toward the end of each semester. Contact the department or visit the website for further information. Students applying for department scholarships will need to complete the Scholarships4Kats online documents.

Student Assistantships are available for advanced theatre students who work in scenery, properties, costuming, lighting, and management.

Chair: **Kristina S. Hanssen**

Laura Kay Avery, DMA (lka005@shsu.edu), *Associate Professor of Theatre*, *Department of Theatre and Musical Theatre*, DMA, Univ of Houston-Main; MM, Univ of Houston-Main; BS, William Jewell College

Kyle Ann Craig-Bogard, MFA (kac118@shsu.edu), *Assistant Professor of Theatre and Musical Theatre*, *Department of Theatre and Musical Theatre*, MFA, Univ of Washington; BA, Baldwin-Wallace College

Kevin Grant Crouch, MFA (kevincrouch@shsu.edu), *Assistant Professor of Theatre*, *Department of Theatre and Musical Theatre*, MFA, New York University; BFA, Sam Houston State University

Nicholas Alexander Graves, MFA (nag023@shsu.edu), *Assistant Professor of Theatre*, *Department of Theatre and Musical Theatre*, MFA, Indiana University-Bloomington; BFA, Abilene Christian University

Kristina S. Hanssen, MFA (drm_kxh@shsu.edu), *Professor of Theatre and Chair of Theatre and Musical Theatre*, *Department of Theatre and Musical Theatre*, MFA, Univ of Missouri-Kansas City; MA, Univ of Missouri-Kansas City; BFA, Stephens College

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Eric L Marsh, MFA (elm008@shsu.edu), *Professor of Theatre*, *Department of Theatre and Musical Theatre*, MFA, Western Illinois University; BA, California St Un-Chico

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Thomas C Prior, MFA (drm_tcp@shsu.edu), *Professor of Theatre*, *Department of Theatre and Musical Theatre*, MFA, Univ of Houston-Main; BFA, Carnegie-Mellon Univ

Interim Faculty

John Eric Gundersen, DMA (jeg016@shsu.edu), *Clinical Assistant Professor of Musical Theatre*, *Department of Theatre and Musical Theatre*, DMA, Rice University; MM, Yale University; BM, Utah State University

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Deborah J Ramser, BA (djr029@shsu.edu), *Lecturer of Theatre*, *Department of Theatre and Musical Theatre*, BA, Rice University

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Donna Hinds Sawyers, MM (dxh012@shsu.edu), *Lecturer of Theatre*, *Department of Theatre and Musical Theatre*, MM, Univ of Houston-Main; BM, Univ of Houston-Main

Pamela Marie Vogel, MFA (pmv002@shsu.edu), *Lecturer of Theatre*, *Department of Theatre and Musical Theatre*, MFA, Univ of S Carolina-Columbia; BFA, Boston University

Amanda Norman Waites, MFA (ann034@shsu.edu), *Lecturer of Theatre and Musical Theatre*, *Department of Theatre and Musical Theatre*, MFA, Tulane University; BM, Loyola Univ-New Orleans

Bachelor of Fine Arts, Major in Musical Theatre With Theatre Emphasis

A Bachelor of Fine Arts degree in musical theatre is available with an emphasis in theatre, music, or dance. This is a 138 hour degree.

Entry into the musical theatre program is by audition only, and those auditions are scheduled toward the end of every semester. Contact the Department of Theatre and Musical Theatre for information.

Code	Title	Hours
Bachelor of Fine Arts - Major in Musical Theatre With Theatre Emphasis		
Core Curriculum		
Component Area I (Communication)		6
Component Area II (Mathematics)		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4
Musical Theatre Major Core		
Theatre Course Requirements		
Select two of the following:		2
THEA 1115	Tech Build Crew	
THEA 1116	Costume Crew	
THEA 1117	Management Crew	
THEA 3115	Advanced Tech Build Crew	
THEA 3116	Advanced Costume Crew	
THEA 3127	Advanced Theatre Mgmt. Crew	
Select one of the following		3
THEA 1330	Intro to Scenic Technology	
THEA 1331	Intro to Lighting Technology	
THEA 1332	Intro to Costume Technology	
THEA 1364	Beginning Acting	3
THEA 2330	Stage Make Up	3
THEA 2336	Voice I for the Actor	3
THEA 2367	Play Analysis	3
Select one of the following		3
THEA 2368	Intermediate Acting	
THEA 3372	Improvisational Techniques	
THEA 3117	Musical Theatre Workshop (8 semesters)	8
THEA 3369	Advanced Acting: Modern Thtre	3
THEA 4331	Acting For The Camera	3
THEA 4332	Auditioning For Comm Theatre	3
THEA 4366	Directing I	3
THEA 4371	The American Musical Theatre	3
THEA 4190	Senior Showcase	1
Dance Course Requirements		
Dance electives (8 semesters)		16
Music Course Requirements		
MTVO 1201	Musical Theatre Applied Voice (4 semesters)	8
MTVO 3100	Platform Performances (2 semesters)	2
MTVO 3201	Musical Theatre Applied Voice (4 semesters)	8
MUSI 1115	Keyboard Harmony I	1

MUSI 1116	Keyboard Harmony II	1
MUSI 1226	Practical Theory I	2
MUSI 1227	Practical Theory II	2
Theatre Emphasis--Musical Theatre Major		
THEA 2337	Voice II for the Actor	3
THEA 3373	Stage Movemnt I for the Actor	3
Select one of the following		3
THEA 3370	Advanced Acting: Class. Thetre	
THEA 4367	Directing II	
Upper level Theatre course		
Theatre Electives		3
Total Hours		138

NOTES

- **Sophomore Gate**: In conjunction with classes in acting, dance and voice, musical theatre majors will participate in an assessment interview at the conclusion of the sophomore year (or end of first year for transfer students) with musical theatre faculty to determine the student's progress and potential for completion of the BFA in Musical Theatre degree.

First Year

Fall	Hours	Spring	Hours
Component Area I	3	Component Area I	3
Component Area II	3	Component Area VI	3
THEA 1115, 1116, 1117, 3115, 3116, or 3127	1	THEA 1115, 1116, 1117, 3115, 3116, or 3127	1
THEA 1330, 1331, or 1332	3	THEA 2330	3
THEA 1364	3	THEA 2368 or 3372	3
THEA 3117[1]	1	THEA 3117[1]	1
MTVO 1201[2]	2	MTVO 1201[2]	2
Dance Electives[1]	2	Dance Electives[1]	2
	18		18

Second Year

Fall	Hours	Spring	Hours
Component Area III	4	Component Area III	4
THEA 2336	3	THEA 2337	3
THEA 2367	3	THEA 3117[1]	1
THEA 3117[1]	1	THEA 4371	3
MTVO 1201[2]	2	MTVO 1201[2]	2
MUSI 1115	1	MUSI 1116	1
MUSI 1226	2	MUSI 1227	2
Dance Electives[1]	2	Dance Electives[1]	2
	18		18

Third Year

Fall	Hours	Spring	Hours
Component Area VI	3	Component Area VII	3
Component Area VII	3	Component Area VIII	3
THEA 3117[1]	1	THEA 3117[1]	1
THEA 3369	3	THEA 3370 or 4367 (or upper level Theatre course)	3
THEA 4366	3	THEA 3373	3
MTVO 3201[2]	2	MTVO 3201[2]	2
Dance Electives[1]	2	Dance Electives[1]	2
	17		17

Fourth Year

Fall	Hours	Spring	Hours
Component Area IV	3	Component Area V	3

Component Area IX[4]	4 THEA 3117[1]	1
THEA 3117[1]	1 THEA 4190	1
THEA 4331	3 THEA 4332	3
MTVO 3100[3]	1 MTVO 3100[3]	1
MTVO 3201[2]	2 MTVO 3201[2]	2
Dance Electives[1]	2 Theatre Electives	3
	Dance Electives[1]	2
	16	16

Total Hours: 138

1 Taken for 8 semesters.

2 Taken for 4 semesters

3 Taken for 2 semesters

4 Two courses

Bachelor of Fine Arts, Major in Musical Theatre with Dance Emphasis

A Bachelor of Fine Arts degree in musical theatre is available with an emphasis in theatre, music, or dance. This is a 138 hour degree.

Entry into the musical theatre program is by audition only, and those auditions are scheduled toward the end of every semester. Contact the Department of Theatre and Musical Theatre for information.

Code	Title	Hours
Bachelor of Fine Arts-Major in Musical Theatre with Dance Emphasis		
Component Area I (Communication)		6
Component Area II (Mathematics)		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4
Musical Theatre Major Core		
Theatre Course Requirements		
Select two of the following:		2
THEA 1115	Tech Build Crew	
THEA 1116	Costume Crew	
THEA 1117	Management Crew	
THEA 3115	Advanced Tech Build Crew	
THEA 3116	Advanced Costume Crew	
THEA 3127	Advanced Theatre Mgmt. Crew	
Select one of the following		3
THEA 1330	Intro to Scenic Technology	
THEA 1331	Intro to Lighting Technology	
THEA 1332	Intro to Costume Technology	
THEA 1364	Beginning Acting	3
THEA 2330	Stage Make Up	3
THEA 2336	Voice I for the Actor	3
THEA 2367	Play Analysis	3
Select one of the following		3
THEA 2368	Intermediate Acting	
THEA 3372	Improvisational Techniques	
THEA 3117	Musical Theatre Workshop (8 semesters)	8

THEA 3369	Advanced Acting: Modern Thtre	3
THEA 4331	Acting For The Camera	3
THEA 4332	Auditioning For Comm Theatre	3
THEA 4366	Directing I	3
THEA 4371	The American Musical Theatre	3
THEA 4190	Senior Showcase	1
Dance Course Requirements		
Dance Electives (8 semesters)		16
Music Course Requirements		
MTVO 1201	Musical Theatre Applied Voice (4 semesters)	8
MTVO 3100	Platform Performances (2 semesters)	2
MTVO 3201	Musical Theatre Applied Voice (4 semesters)	8
MUSI 1115	Keyboard Harmony I	1
MUSI 1116	Keyboard Harmony II	1
MUSI 1226	Practical Theory I	2
MUSI 1227	Practical Theory II	2
Dance Emphasis--Musical Theatre Major		
Select one of the following:		3
DANC 4330	Repertory	
THEA 3373	Stage Movemnt I for the Actor	
THEA 3395	Acting In Major Roles	
DANC 3335	Jazz Dance Technique III	3
Advanced Dance Electives		6
Total Hours		138

NOTES

- **Sophomore Gate**: In conjunction with classes in acting, dance and voice, musical theatre majors will participate in an assessment interview at the conclusion of the sophomore year (or end of first year for transfer students) with musical theatre faculty to determine the student's progress and potential for completion of the BFA in Musical Theatre degree.

First Year

Fall	Hours	Spring	Hours
Component Area I	3	Component Area I	3
Component Area II	3	Component Area VI	3
THEA 1115, 1116, 1117, 3115, 3116, or 3127	1	THEA 1115, 1116, 1117, 3115, 3116, or 3127	1
THEA 1330, 1331, or 1332	3	THEA 2330	3
THEA 1364	3	THEA 2367	3
THEA 3117[1]	1	THEA 3117[1]	1
MTVO 1201[2]	2	MTVO 1201[2]	2
Dance Electives[1]	2	Dance Electives[1]	2
	18		18

Second Year

Fall	Hours	Spring	Hours
Component Area III	4	Component Area III	4
THEA 2336	3	Component Area VII	3
THEA 2368 or 3372	3	THEA 3117[1]	1
THEA 3117[1]	1	THEA 4371	3
MTVO 1201[2]	2	MTVO 1201[2]	2
MUSI 1115	1	MUSI 1116	1
MUSI 1226	2	MUSI 1227	2
Dance Electives[1]	2	Dance Electives[1]	2
	18		18

Third Year

Fall	Hours	Spring	Hours
Component Area IV	3	Component Area VIII	3
Component Area VII	3	Component Area VI	3
THEA 3117[1]	1	THEA 3117[1]	1
THEA 3369	3	MTVO 3201[2]	2
THEA 4366	3	DANC 3335	3
MTVO 3201[2]	2	Dance Electives[1]	2
Dance Electives[1]	2	Advanced Dance Electives	3
	17		17

Fourth Year

Fall	Hours	Spring	Hours
Component Area IX[4]	4	Component Area V	3
THEA 3117[1]	1	THEA 3117[1]	1
THEA 4331	3	THEA 4190	1
MTVO 3100[3]	1	THEA 4332	3
MTVO 3201[2]	2	MTVO 3100[3]	1
DANC 4330, THEA 3373, or THEA 3395	3	MTVO 3201[2]	2
Dance Electives[1]	2	Dance Electives[1]	2
		Advanced Dance Electives	3
	16		16

Total Hours: 138

1 Taken for 8 semesters

2 Taken for 4 semesters

3 Taken for 2 semesters

4 Two courses

Bachelor of Fine Arts, Major in Musical Theatre with Music Emphasis

A Bachelor of Fine Arts degree in musical theatre is available with an emphasis in theatre, music, or dance. This is a 138 hour degree.

Entry into the musical theatre program is by audition only, and those auditions are scheduled toward the end of every semester. Contact the Department of Theatre and Musical Theatre for information.

Code	Title	Hours
Bachelor of Fine arts- Major in Musical Theatre with Music Emphasis		
Core Curriculum		
Component Area I (Communication)		6
Component Area II (Mathematics)		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4
Musical Theatre Major Core		
Theatre Course Requirements		
Select two of the following:		2
THEA 1115	Tech Build Crew	
THEA 1116	Costume Crew	
THEA 1117	Management Crew	
THEA 3115	Advanced Tech Build Crew	

THEA 3116	Advanced Costume Crew	
THEA 3127	Advanced Theatre Mgmt. Crew	
Select one of the following		3
THEA 1330	Intro to Scenic Technology	
THEA 1331	Intro to Lighting Technology	
THEA 1332	Intro to Costume Technology	
THEA 1364	Beginning Acting	3
THEA 2330	Stage Make Up	3
THEA 2336	Voice I for the Actor	3
THEA 2367	Play Analysis	3
Select one of the following		3
THEA 2368	Intermediate Acting	
THEA 3372	Improvisational Techniques	
THEA 3117	Musical Theatre Workshop (8 semesters)	8
THEA 3369	Advanced Acting: Modern Thtre	3
THEA 4331	Acting For The Camera	3
THEA 4332	Auditioning For Comm Theatre	3
THEA 4366	Directing I	3
THEA 4371	The American Musical Theatre	3
THEA 4190	Senior Showcase	1
Dance Course Requirements		
Dance Electives (8 semesters)		16
Music Course Requirements		
MTVO 1201	Musical Theatre Applied Voice (4 semesters)	8
MTVO 3100	Platform Performances (2 semesters)	2
MTVO 3201	Musical Theatre Applied Voice (4 semesters)	8
MUSI 1115	Keyboard Harmony I	1
MUSI 1116	Keyboard Harmony II	1
MUSI 1226	Practical Theory I	2
MUSI 1227	Practical Theory II	2
Music Emphasis--Musical Theatre Major		
THEA 2337	Voice II for the Actor	3
Choose one of the following		3
THEA 3395	Acting In Major Roles	
Upper level Theatre course		
Choose two of the following		6
MUSI 1379	Survey of World Music Cultures [1]	
MUSI 1310	Hist Rock Jazz Popular Music [2]	
MUSI 2339	Psychology Of Music	
Total Hours		138

[1] Course will also complete Component Area IV in the Core Curriculum. If the course is taken and utilized for this purpose, three additional hours of theatre, dance, or music electives may be taken to complete the 138 hours required for the degree.

[2] Course will also complete Component Area V in the Core Curriculum. If the course is taken and utilized for this purpose, three additional hours of theatre, dance, or music electives may be taken to complete the 138 hours required for the degree.

Notes:

- Students should use dance and/or music electives to satisfy the 42 advanced hour requirement.
- **Sophomore Gate**: In conjunction with classes in acting, dance and voice, musical theatre majors will participate in an assessment interview at the conclusion of the sophomore year (or end of first year for transfer students) with musical theatre faculty to determine the student's progress and potential for completion of the BFA in Musical Theatre degree.

First Year

Fall	Hours	Spring	Hours
Component Area I	3	Component Area I	3
Component Area II	3	Component Area VI	3
THEA 1115, 1116, 1117, 3115, 3116, or 3127	1	THEA 1115, 1116, 1117, 3115, 3116, or 3127	1
THEA 1330, 1331, or 1332	3	THEA 2330	3
THEA 1364	3	THEA 2368 or 3372	3
THEA 3117[1]	1	THEA 3117[1]	1
MTVO 1201[2]	2	MTVO 1201[2]	2
Dance Electives[1]	2	Dance Electives[1]	2
	18		18

Second Year

Fall	Hours	Spring	Hours
Component Area III	4	Component Area III	4
THEA 2336	3	THEA 2337	3
THEA 3117[1]	1	THEA 3117[1]	1
MTVO 1201[2]	2	THEA 4371	3
MUSI 1115	1	MTVO 1201[2]	2
MUSI 1226	2	MUSI 1116	1
MUSI 1310, 1379, or 2339[4]	3	MUSI 1227	2
Dance Electives[1]	2	Dance Electives[1]	2
	18		18

Third Year

Fall	Hours	Spring	Hours
Component Area VI	3	Component Area VII	3
Component Area VII	3	Component Area VIII	3
THEA 3117[1]	1	THEA 3117[1]	1
THEA 3369	3	THEA 2367	3
THEA 4366	3	MTVO 3201[2]	2
MTVO 3201[2]	2	MUSI 1310, 1379, or 2339[4]	3
Dance Electives[1]	2	Dance Electives[1]	2
	17		17

Fourth Year

Fall	Hours	Spring	Hours
Component Area IV	3	Component Area V	3
Component Area IX[5]	4	THEA 3117[1]	1
THEA 3117[1]	1	THEA 4190	1
THEA 4331	3	THEA 4332	3
MTVO 3100[3]	1	THEA 3395 (or upper level Theatre course)	3
MTVO 3201[2]	2	MTVO 3100[3]	1
Dance Electives[1]	2	MTVO 3201[2]	2
		Dance Electives[1]	2
	16		16

Total Hours: 138

1 Taken for 8 semesters

2 Taken for 4 semesters

3 Taken for 2 semesters

4 MUSI 1379 will complete Component Area IV in the Core Curriculum. MUSI 1310 will complete Component Area V in the Core Curriculum. If a course is utilized for this purpose, additional theatre, dance, or music electives may be taken to complete the 138 hours required for the degree.

5 Two courses

Notes:

- Students should use dance and/or music electives to satisfy the 42 advanced hour requirement.

Bachelor of Fine Arts, Major in Theatre With Teaching Certification

Code	Title	Hours
Bachelor of Fine Arts - Major in Theatre With Teaching Certification		
Core Curriculum		
Component Area I (Communication)		6
Component Area II (Mathematics)		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4
Major		
Major core		
THEA 1115	Tech Build Crew	1
THEA 1116	Costume Crew	1
THEA 1117	Management Crew	1
Select two of the following:		6
THEA 1330	Intro to Scenic Technology	
THEA 1331	Intro to Lighting Technology	
THEA 1332	Intro to Costume Technology (or)	
or THEA 3335	Costume Construction	
THEA 1364	Beginning Acting	3
THEA 2367	Play Analysis	3
THEA 3360	History Of The Theatre I	3
THEA 4360	History Of The Theatre II	3
THEA 4366	Directing I	3
Additional required courses		
THEA 2330	Stage Make Up	3
THEA 2368	Intermediate Acting	3
Select one of the following:		3
THEA 3334	Stage Costume Design	
THEA 3362	Lighting and Sound Design	
THEA 3336	Scenic Design	
THEA 4330	Advanced Scenic Design	
THEA 4361	Stage Lighting	
THEA 3365	Stage & Theatre Management	3
THEA 4387	Worksp Chldrns Creative Drama	3
Theatre Electives with a minimum of fifteen advanced hours		21
Teacher Certification courses		
CISE 3384	The Teaching Profession	3
CISE 4364	Mth Tch Secondary Schools	3
CISE 4378	Content Literacy	3
CISE 4379	Differentiated Pedagogy	3
CISE 4380	Respon Of Pro Educator	3
CISE 4394	Creatng Env For Lrng-Secondary	3
CISE 4396	Std Tch Secondary Classroom	3

CISE 4397	Std Tch Secondary Classroom	3
Total Hours		126

First Year

Fall	Hours	Spring	Hours
Component Area I	3	Component Area I	3
Component Area II	3	Component Area VI	3
Component Area VI	3	THEA 1116	1
THEA 1115	1	THEA 1330, 1331, or 1332	3
THEA 1330, 1331, or 1332	3	THEA 2330	3
THEA 1364	3	THEA 2367	3
	16		16

Second Year

Fall	Hours	Spring	Hours
Component Area III	4	Component Area IV	3
Component Area IX	4	Component Area V	3
THEA 1117	1	Component Area VII	3
THEA 3360	3	THEA 2368	3
Theatre Electives	6	THEA 3365	3
		Advanced Theatre Electives	3
	18		18

Third Year

Fall	Hours	Spring	Hours
Component Area III	4	Component Area VIII	3
Component Area VII	3	THEA 4360	3
THEA 3334, 3362, 3363, 4330, or 4361	3	Advanced Theatre Electives	6
THEA 4366	3	CISE 4378	3
THEA 4387	3	CISE 4380	3
CISE 3384	3		
	19		18

Fourth Year

Fall	Hours	Spring	Hours
CISE 4364	3	CISE 4394	3
CISE 4379	3	CISE 4396	3
Advanced theatre electives	6	CISE 4397	3
	12		9

Total Hours: 126

Bachelor of Fine Arts, Major in Theatre-Acting and Directing Emphasis

Code	Title	Hours
Bachelor of Fine Arts - Major in Theatre - Acting and Directing Emphasis		
Core Curriculum		
Component Area I (Communication)		6
Component Area II (Mathematics)		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4
Major		

Major core		
THEA 1115	Tech Build Crew	1
THEA 1116	Costume Crew	1
THEA 1117	Management Crew	1
Select two of the following		6
THEA 1330	Intro to Scenic Technology	
THEA 1331	Intro to Lighting Technology	
THEA 1332	Intro to Costume Technology	
or THEA 3335	Costume Construction	
THEA 1364	Beginning Acting	3
THEA 2367	Play Analysis	3
THEA 3360	History Of The Theatre I	3
THEA 4360	History Of The Theatre II	3
THEA 4366	Directing I	3
Select three hours from the following		3
THEA 3395	Acting In Major Roles	
THEA 4093	Theatre Internship	
4000 upper level Theatre elective		
Additional required courses		
THEA 2330	Stage Make Up	3
THEA 2336	Voice I for the Actor	3
THEA 2337	Voice II for the Actor	3
THEA 2360	Beginning Design	3
THEA 2368	Intermediate Acting	3
THEA 3369	Advanced Acting: Modern Thtre	3
THEA 3373	Stage Movemnt I for the Actor	3
THEA 4332	Auditioning For Comm Theatre	3
Select one of the following		3
THEA 3334	Stage Costume Design	
THEA 3336	Scenic Design	
THEA 3362	Lighting and Sound Design	
THEA 4330	Advanced Scenic Design	
THEA 4361	Stage Lighting	
Advanced Theatre Electives		24
Total Hours		120

First Year

Fall	Hours	Spring	Hours
Component Area I	3	Component Area I	3
Component Area II	3	Component Area III	4
THEA 1115, 1116, or 1117	1	Component Area IX	1
THEA 1330, 1331, 1332, or 3335 (THEA 1330; 1331; 1332 or 3335)	3	THEA 1115, 1116, or 1117	1
THEA 1364	3	THEA 2360	3
THEA 2367	3	THEA 3373	3
	16		15

Second Year

Fall	Hours	Spring	Hours
Component Area IV	3	Component Area III	4
Component Area VI	3	Component Area VI	3
THEA 1115, 1116, or 1117	1	THEA 2330	3
THEA 1331, 1330, 1332, or 3335 (THEA 1330; 1331; 1332 or 3335)	3	THEA 2337	3

THEA 2336	3	THEA 3360	3
THEA 2368	3		
	16		16

Third Year

Fall	Hours	Spring	Hours
Component Area VII	3	Component Area V	3
Component Area VIII	3	Component Area VII	3
THEA 3369	3	THEA 3334, 3336, 3362, 4330, or 4361	3
THEA 4366	3	THEA 4360	3
Advanced Theatre Elective	3	Advanced Theatre Elective	3
	15		15

Fourth Year

Fall	Hours	Spring	Hours
Component Area IX	3	THEA 4093 or 3395 (or 4000 upper level Theatre course)	3
Advanced Theatre Electives	12	THEA 4332	3
		Advanced Theatre Electives	6
	15		12

Total Hours: 120

Bachelor of Fine Arts, Major in Theatre-Design and Technology Emphasis

Code	Title	Hours
Bachelor of Fine Arts, Major in Theatre-Design and Technology Emphasis		
Core Curriculum		
Component Area I (Communication)		6
Component Area II (Mathematics)		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4
Degree Specific Requirements		
ARTS 1316	Drawing	3
ARTS 1303	Art History Survey I [1]	3
Major		
Major core		
THEA 1115	Tech Build Crew	1
THEA 1116	Costume Crew	1
THEA 1117	Management Crew	1
Select two of the following		6
THEA 1330	Intro to Scenic Technology	
THEA 1331	Intro to Lighting Technology	
THEA 1332	Intro to Costume Technology	
or THEA 3335	Costume Construction	
THEA 1364	Beginning Acting	3
THEA 2367	Play Analysis	3
THEA 3360	History Of The Theatre I	3
THEA 4360	History Of The Theatre II	3
THEA 4366	Directing I	3
Additional Required Courses		

Select one of the following not taken for credit above		3
THEA 1330	Intro to Scenic Technology	
THEA 1331	Intro to Lighting Technology	
THEA 1332	Intro to Costume Technology	
or THEA 3335	Costume Construction	
THEA 2359	Hand Drafting in Theatre	3
Select from the following for three credits (courses are repeatable):		3
THEA 3115	Advanced Tech Build Crew	
THEA 3116	Advanced Costume Crew	
THEA 3127	Advanced Theatre Mgmt. Crew	
Upper-level theatre technology course, with departmental approval		
THEA 3332	Computer Rendering for Theatre	3
THEA 3334	Stage Costume Design	3
THEA 3336	Scenic Design	3
or THEA 4330	Advanced Scenic Design	
THEA 3337	History Of Costume	3
THEA 3362	Lighting and Sound Design	3
or THEA 4361	Stage Lighting	
THEA 4365	Portfolio Development	3
Theatre electives, at least 15 hours must be upper level		21
Total Hours		120

[1] Also meets the requirement for Component Area V in the Core Curriculum. If utilized for this purpose, additional elective hours in theatre may be taken to fulfill the 120 hours required for the degree.

First Year

Fall	Hours	Spring	Hours
Component Area I	3	Component Area I	3
Component Area II	3	Component Area III	4
Component Area IX	1	THEA 1115, 1116, or 1117	1
THEA 1115, 1116, or 1117	1	THEA 1330, 1331, 1332, 3335, or 3335	3
THEA 1330, 1331, 1332, or 3335	3	THEA 2359	3
THEA 1364	3	THEA 2367	3
	14		17

Second Year

Fall	Hours	Spring	Hours
Component Area VI	3	Component Area III	4
Component area VIII	3	Component Area VI	3
Component Area IX	3	Component Area VII	3
THEA 1115, 1116, or 1117	1	THEA 3115, 3116, or 3127[1]	1
THEA 1330, 1331, 1332, or 3335	3	THEA 3334	3
THEA 3337	3		
	16		14

Third Year

Fall	Hours	Spring	Hours
Component Area IV	3	Component Area VII	3
ARTS 1316	3	ARTS 1303[2]	3
THEA 3115, 3116, or 3127[1]	1	THEA 3115, 3116, or 3127[1]	1
THEA 3332	3	Theatre electives	9
THEA 3336 or 4330	3		
THEA 3362 or 4361	3		
	16		16

Fourth Year

Fall	Hours	Spring	Hours
THEA 3360	3	Component Area V	3
THEA 4365	3	THEA 4360	3
THEA 4366	3	Theatre elective	6
Theatre electives	6		
	15		12

Total Hours: 120

[1] Or take an upper-level theatre technology course with departmental approval. Courses are repeatable.

[2] ARTS 1303 also meets the requirement for Component Area V in the Core Curriculum. If the course is utilized in this way, additional electives in theatre may be taken to fulfill the 120 hours required for the degree.

Bachelor of Fine Arts, Major in Theatre-Theatre Studies Emphasis

Code	Title	Hours
Bachelor of Fine Arts, Major in Theatre-Theatre Studies Emphasis		
Core Curriculum		
Component Area I (Communication)		6
Component Area II (Mathematics)		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences		3
Component Area VIII (Social and Behavioral Sciences		4
Major Core		
THEA 1115	Tech Build Crew	1
THEA 1116	Costume Crew	1
THEA 1117	Management Crew	1
Select two of the following:		6
THEA 1330	Intro to Scenic Technology	
THEA 1331	Intro to Lighting Technology	
THEA 1332	Intro to Costume Technology	
THEA 1364	Beginning Acting	3
THEA 2367	Play Analysis	3
THEA 3360	History Of The Theatre I	3
THEA 4360	History Of The Theatre II	3
THEA 4366	Directing I	3
THEA 4093	Theatre Internship	3
Additional Required Courses		
THEA 2330	Stage Make Up	3
THEA 2360	Beginning Design	3
THEA 2368	Intermediate Acting	3
THEA 3365	Stage & Theatre Management	3
Select two of the following:		6
THEA 3337	History Of Costume	
THEA 3364	Dramaturgy	
THEA 4363	Dramatic Theory & Criticism	
THEA 4371	The American Musical Theatre	
Select two of the following:		6
THEA 4368	Experimental Theatre Productio	

THEA 4387	Worksp Chldrns Creative Drama	
THEA 4389	Repertory Theatre	
Select one of the following:		3
THEA 3395	Acting In Major Roles	
THEA 4093	Theatre Internship	
THEA 4365	Portfolio Development	
Theatre Electives (A minimum of 12 advanced hours)		18
Select two of the following:		6
ARTS 2365	Photographic Visualization	
ARTS 2370	Digital Photography I	
ARTS 2375	Photographic Concepts	
COMS 3350	Communication and Pop Culture	
COMS 3365	Humor in Communication	
DANC 2373	World Dance:Exploring Cultures	
DANC 2372	Dance History	
ENGL 3334	Literature And Film	
ENGL 3370	Modern Drama	
ENGL 3381	Intro Creative Writing:Fiction	
ENGL 3382	Intro Creative Writing: Poetry	
ENGL 3391	Shakespeare: Tragedies & Hist	
ENGL 3392	Shakespeare:Comedies & Romance	
FACS 1330	Intro Soft Textiles Constructn	
FACS 1360	Basic Principles of Design	
FACS 2361	History of Furnishings I	
FACS 2366	Fashion In Society	
FACS 2369	Introduction To Textiles	
MCOM 2382	Design for PR & Advertising	
Total Hours		120

First Year

Fall	Hours	Spring	Hours
Component Area I	3	Component Area I	3
Component Area II	3	Component Area III	4
THEA 1115, 1116, or 1117	1	Component Area IX	1
THEA 1330, 1331, or 1332	3	THEA 1115, 1116, or 1117	1
THEA 1364	3	THEA 5360	3
THEA 2367	3	THEA Electives	3
	16		15

Second Year

Fall	Hours	Spring	Hours
Component Area IV	3	Component Area III	4
Component Area VI	3	Component Area VI	3
THEA 1331, 1330, or 1332	3	THEA 2330	3
THEA 2368	3	THEA 3360	3
THEA Electives	3	THEA 3365	3
	15		16

Third Year

Fall	Hours	Spring	Hours
Component Area VII	3	Component Area V	3
Component Area VIII	3	Component Area VII	3
THEA 1115, 1116, or 1117	1	THEA 3374 or 4371	3
THEA 3337 or 4363	3	THEA 4360	3

THEA 4366		3 THEA 4368	3
THEA Advanced Elective		3	
		16	15

Fourth Year

Fall	Hours	Spring	Hours
Component Area IX		3 MCOM, FINC, DANC Elective	3
THEA 3395 or 4365		3 THEA 4389	3
ARTS< COMS, ENGL Elective		3 THEA Advanced Elective	6
THEA Advanced Elective		6	
		15	12

Total Hours: 120

Minor in Theatre

A Minor in Theatre consists of the following courses:

Code	Title	Hours
Minor in Theatre		
THEA 1115	Tech Build Crew	1
THEA 1116	Costume Crew	1
THEA 1117	Management Crew	1
Select one of the following:		3
THEA 1330	Intro to Scenic Technology	
THEA 1331	Intro to Lighting Technology	
THEA 1332	Intro to Costume Technology	
THEA 1364	Beginning Acting	3
THEA 2367	Play Analysis	3
Select one of the following:		3
THEA 3337	History Of Costume	
THEA 3360	History Of The Theatre I	
THEA 4360	History Of The Theatre II	
Three-hour theatre electives whose focus is the student's area of interest		9
Total Hours		24

School of Music

Accredited by National Association of Schools of Music

Director: Dr. Scott D. Plugge (Mus_SDP@shsu.edu) (936) 294-3808

Website: For faculty specialties, please see School of Music (http://www.shsu.edu/academics/music)

Mission

The Sam Houston State University School of Music exists as a community of musician-educators whose mission is:

- To educate and train students for lives of service and contribution — as teachers, performers, composers, therapists and scholars;
- To provide and nurture a nucleus of musical life for the larger community;
- To educate the university student population regarding music's intrinsic value as a part of the human experience and its central role in human culture; and
- To mutually encourage one another in professional growth and attainment.

Our mission encompasses a variety of programs and curricula, traditional and innovative which are regularly examined for effectiveness, quality and relevance. It includes our commitment to a combination of:

- Classroom studies in music; and
- The live performance of music both individually and collectively, as central to music study, development and knowledge.

As an integral part of our mission, we commit ourselves to continuing steps toward realizing the full potential of community, both as teachers and as colleagues; further, we commit to interaction with our students that emphasizes personal attention and interest in their total musical/intellectual development.

Highlights

All music majors receive training in applied music, music theory, music history, and, where appropriate, professional training specific to a particular field. Each student receives private instruction in his or her principal applied area (such as piano, trumpet, or voice), participates in musical ensembles (such as wind ensemble, orchestra, choir, or jazz band), and is afforded a multitude of opportunities to grow and develop as a musician. Students develop keyboard skills in a state-of-the-art piano lab and have their musical training enhanced in a Computer Assisted Instruction lab.

Career Opportunities

Graduates of the School of Music are successfully employed around the state, the nation, and internationally as:

- music educators
- music therapists
- music performers
- music scholars
- music composers
- music industry leaders

Program Specific Requirements

General Requirements for Music Majors — Students desiring to major in music must have previous musical experience.

Audition — All students entering the School of Music as music majors or minors must audition in their major performance area and be accepted for a specific degree plan (e.g. Bachelor of Music: Performance, Music Education/Teacher Certification, Composition; Bachelor of Music in Music Therapy, music minor). Music therapy majors must also schedule and pass an interview with the Music Therapy faculty.

Grades — Students must receive a grade of "C" or better in all courses required in the major. If they receive a grade lower than a "C" they will be placed on academic probation until they retake the course with the "C" or better grade.

Jury — All students enrolled in applied classes (private studio instruction) must take jury examinations at the end of each semester.

Ensemble — All students enrolled in applied classes should perform in an ensemble.

Sophomore proficiency — Before students majoring in music are allowed to enroll for 3000-level courses in applied music, they must pass a proficiency examination/barrier. The exam is normally administered at the end of their fourth semester of study. NOTE: students are given/allowed three opportunities to pass the barrier. If they do not pass by the third attempt, they cannot continue as music majors.

Piano proficiency — Students must pass a proficiency examination in piano. Students who do not have the requisite skills may enroll in piano classes. Completion of the piano classes with a grade of "C" or better meets the skills requirement for the piano proficiency.

Concert attendance — Students are required to attend 12 performances (from a specified list) each semester for six semesters in all undergraduate Bachelor of Music major tracks. Transfer students may receive a credit or waiver for up to three semesters. Details of this requirement are printed in the School of Music Student Handbook.

Large ensemble — Enrollment in a large ensemble is expected of full-time music majors each fall and spring semester. Music therapy majors must enroll in an ensemble for 6 semesters. The minimum requirement is seven semesters for B.M. Music Education/Teacher Certification track; eight semesters for other B.M. tracks; and six semesters for Music Therapy majors.

- For piano principals (non-performance majors), Collaborative Piano (MUEN 1110/MUEN 3110) will satisfy a portion of this requirement.
- For piano performance majors, Collaborative Piano (MUEN 1110/MUEN 3110) satisfies the major ensemble requirement.
- Further details are printed in the School of Music Student Handbook.
- Freshmen and sophomore students enroll in 1000 and 2000-level ensembles; juniors and seniors enroll in 3000 and 4000-level ensembles.

- Bachelor of Arts, Major in Music
- Bachelor of Music, Major in Music With Concentration: All Level Certification Instrumental (BM ALIN)
- Bachelor of Music, Major in Music With Concentration: All Level Certification-String (BM ALST)
- Bachelor of Music, Major in Music With Concentration: All Level Certification-Choral (BM ALCH)
- Bachelor of Music, Major in Music With Concentration: Instrumental Performance (BM PERI)
- Bachelor of Music, Major in Music With Concentration: Vocal Performance (BM PERV)
- Bachelor of Music, Major in Music With Concentration: Piano Performance (BM PERP)
- Bachelor of Music, Major in Music With Concentration: Composition (BM COMP)
- Bachelor of Music, Major in Music Therapy
- Minor in Music

Student Organizations

Numerous student organizations actively promote enrichment across a wide array of musical interests.

- **American Choral Directors Association** — national organization for choral directors. Student membership available in organization that fosters and promotes choral music.
- **American String Teachers Association/Symphony Association —** the group's membership consists of string students at Sam Houston State University and was organized to support string pedagogy on the SHSU campus.
- **National Association for Music Education —** national organization for music education. Membership in this student chapter is open to music education majors.
- **Mu Tau Omega —** student organization for music therapy. Membership open to interested students committed to the study and/or advancement of music therapy in community, educational, and clinical settings.
- **Phi Mu Alpha Sinfonia —** international music fraternity for men. Provides valuable service to the school and community.
- **Pi Kappa Lambda —** national music honor society. Invitation to membership is limited to the top students from the junior, senior, and graduate classes by vote of the faculty members of Pi Kappa Lambda.
- **Sigma Alpha Iota —** international music fraternity for women. Provides valuable service to the school and community.
- **Tau Beta Sigma —** national band sorority. Supports band studies and provides valuable support service to instrumental ensembles and to the school.

Internships

Following the completion of all coursework, the music therapy student must fulfill a 900-1040 hour (five-six month) clinical internship at an AMTA national roster internship site or an SHSU university-affiliated internship site. The intern must be supervised on-site by a qualified and approved MT-BC supervisor. The internship is the final requirement for graduating with the bachelor's degree in music therapy. Once it has been completed, the individual is eligible to sit for the board certification examination. A passing grade on the exam will result in board certification and the credentials MT-BC.

Scholarships

Scholarships are available both from the School of Music and from the University to support student study. For more information regarding scholarships, prospective or current students should contact the Director of the School of Music. Information on University scholarships may be obtained at the Office of Financial Aid (http://www.shsu.edu/dept/financial-aid/scholarships) or by telephone (936) 294-1672. Interested persons may also gather more information from the School of Music website.

Music scholarships are awarded for participation in ensembles. All students awarded a music scholarship are required to perform in ensembles. Scholarship students will audition and perform in ensembles as required.

Chair: **Scott D Plugge**

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Bachelor of Arts, Major in Music

Required Courses for Majors

Bachelor of Arts in Music - 120 Semester Credit Hours (SCH)

Bachelor of Arts in Music

Code	Title	Hours
Bachelor of Arts, Major in Music		
Core Curriculum		
Component Area I (Communication)		6
Component Area II (Mathematics)		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4
General Music Core for Bachelor of Arts in Music (23 SCH)		
MUSI 1181	Class Piano, Level 1 [1]	1
MUSI 1182	Class Piano, Level 2 [1]	1
MUSI 1222	Theory Of Music I	2
MUSI 1223	Theory Of Music II	2
MUSI 1224	Musicianship I	2
MUSI 1225	Musicianship II	2
MUSI 1379	Survey of World Music Cultures [2]	3
MUSI 2222	Theory Of Music III	2
MUSI 2224	Musicianship III	2
MUSI 2348	Survey of Music Literature [3]	3
MUSI 3376	Mus His: Antiq through Baroque	3
or MUSI 3377	Mus His: Classic to Present	
Ensembles (5 SCH), Applied Lessons (12 SCH), additional Advanced-level Music Courses (14 SCH)		
Ensembles (with advisor and conductor/director/faculty approval):		
Select five of the following (2 must be advanced-level):		5
MUEN 1110/3110	Keyboard Skills & Collab Techn	
MUEN 1111/3111	Mixed Chorus	
MUEN 1115/3115	Jazz Band	
MUEN 1116/3116	Band	
MUEN 1117/3117	Orchestra	
MUEN 1119/3119	Opera Workshop	
MUEN 2116/4116	Wind Ensemble	
Applied Lessons - Studio Instruction:		
XXXX1201	Ind Performances - APPLIED LESSONS: LOWER-LEVEL	8
XXXX 3201	Ind Performances - APPLIED LESSONS: UPPER-LEVEL [4]	4
Advanced-Level Performance & Music Electives - Select 14 advanced-level hours from the following:		14
NOTE: No more than 4 additional ensemble hours can be counted toward the degree.		
MUEN 3110	Collaborative Piano Chambr Mus	
MUEN 3111	Mixed Chorus	
MUEN 3115	Jazz Band	
MUEN 3116	Band	
MUEN 4116	Wind Ensemble	
MUEN 3117	Orchestra	

MUEN 3118	Chamber Music	
MUEN 3119	Opera Workshop	
XXXX 3201 Ind Performances (SCH 2) - APPLIED LESSONS: ADVANCED-LEVEL - May be repeated once for degree credit [4]		
XXXX 3202 Applied Lessons w/ Junior Recital	SCH 2 [4]	
MUSI 3362	Orchestration And Analysis	
MUSI 3363	Structure And Analysis	
MUSI 3377	Mus His: Classic to Present	
or MUSI 3376	Mus His: Antiq through Baroque	
MUSI 4224	Conducting II	
MUSI 4374	20th Century Musical Styles	
Foreign Language [5]		14
Advanced-Level (3000 & 4000) Free Electives (not Music courses)		19
Total Hours		120

1 Not required if enrolled in PIAN 1201 (Piano Concentration). Additional elective credits must be substituted.

2 MUSI 1379 satisfies the Core Curriculum requirement for Component Area IV (Language, Philosophy and Culture).

3 MUSI 2348 satisfies the Core Curriculum requirement for Component Area V (Creative Arts).

4 Students must pass the Sophomore Applied Proficiency before registering for upper-level applied lessons. This Proficiency may be taken up to 3 times.

5 Four semesters of one language required. An Intermediate I or II language course satisfies 3 credit hours of the Core Curriculum requirement for Component Area IX.

Notes:

- All BA Degrees require 14 semester hours of foreign language (four semesters of the same language)
- Completion of six semesters of Concert Attendance is required for graduation. See student handbook and/or contact the School of Music for details.
- 1000 & 2000 level courses are LOWER-LEVEL (Freshman/Sophomore) and 3000 & 4000 level courses are ADVANCED-LEVEL (Junior/Senior)
- Free Electives — 19 hours

"Free Electives" are courses from the University's catalog that can apply to the required number of hours required for the BA. These free electives (not Music courses) must include at least 19 hours of advanced-level (3000 and 4000-level) courses (or enough to meet the university's 42 advanced-hour minimum).

- Advanced Electives: Students should use the advanced electives (3000- or 4000-level courses) to complete the 42-advanced hour requirement for graduation. 120 Hour Requirement: 120 is the minimum number of hours required for graduation.

Ensembles

The following performance ensembles are open to all students of the university who qualify by audition:

Large Ensembles

Code	Title	Hours
Large Ensembles-		
Marching/Concert Band-for Wind and Percussion Students		
MUEN 1116/3116	Band	1
Wind Ensemble/Symphonic Band-for Wind and Percussion Students		
MUEN 2116/4116	Wind Ensemble	1
Orchestra-for String Students		
MUEN 1117/3117	Orchestra	1
Chorus-for Vocal Students		
MUEN 1111/3111	Mixed Chorus	1

Small Ensembles

No more than eight hours earned in large ensembles may be counted toward a degree. Small ensembles may be counted if approved by the ensemble director, studio instructor and the Director, School of Music.

Additional small ensembles, such as Jazz Ensemble, Opera Workshop, and Chamber Music are strongly encouraged for those who qualify by audition:

Code	Title	Hours
Small Ensembles		
Jazz Ensemble		
MUEN 1115/3115	Jazz Band	1
Opera Workshop		
MUEN 1119/3119	Opera Workshop	1
Chamber Music (smaller instrumental groups, including piano trios, string quartets, guitar ensemble, percussion ensemble, etc.)		
MUEN 1118/3118	Chamber Music	1
Keyboard Skills and Collaborative Techniques-for Keyboard performance major students only		
MUEN 1110/3110	Keyboard Skills & Collab Techn	1

Ensembles

- Music majors should enroll in at least one ensemble each semester they are enrolled as full-time students (except the student teaching semester).
- Students enrolled in studio instruction should be concurrently enrolled in an ensemble.
- Jazz Ensemble will not normally be considered to be the major ensemble for graduation hours.
- Students should not be enrolled in more than 2 ensembles per semester.
- Music Therapy majors must participate in 6 semesters of ensemble.

NOTE: Modifications or exceptions may be made in rare or unusual circumstances, but require approval by the Director, School of Music in coordination with ensemble directors and studio instructors.

Marching Band (for Wind and Percussion students)

- Students in the BM ALIN (instrumental) Teacher Certification program are required to be in Marching Band for 3 semesters.
- Music Performance Majors are required to be in Marching Band for 2 semesters.
- Music Therapy Majors, music minors, and non-majors are encouraged to participate in Marching Band.

For information regarding Common Course numbers for Ensemble, please refer to the Common Course listing in this catalog.

Ind. Performances/Applied Music Instruction and Practicums (Music Therapy)

Code	Title	Hours
Applied Music Instruction (Instrument, Voice, Music Therapy Practicum)		
Bassoon		
BSSN 1201	Ind Performances-Bassoon	2
BSSN 3201	Ind Performances-Bassoon	2
BSSN 3202	Applied Bassoon W/ Jr Recital	2
Cello		
VNCL 1201	Ind Performances-Violncello	2
VNCL 3201	Ind Performances-Violncello	2
VNCL 3202	Applied Cello W/ Jr Recital	2
Clarinet		
CLAR 1201	Ind Performances-Clarinet	2
CLAR 3201	Ind Performances-Clarinet	2
CLAR 3202	Applied Clarinet W/ Jr Recital	2
Composition		
COMP 1101	Applied Composition I	1
COMP 3301	Applied Composition II	3
Euphonium		
EUPH 1201	Ind Performances-Euphonium	2
EUPH 3201	Ind Performances-Euphonium	2
EUPH 3202	Applied Euphonium w/Jr Rectl	2
Flute		
FLUT 1201	Ind Performances-Flute	2
FLUT 3201	Ind Performances-Flute	2

FLUT 3202	Applied Flute W/ Jr Recital	2
French Horn		
HORN 1201	Ind Performances-Frnch Horn	2
HORN 3201	Ind Performances-Frnch Horn	2
HORN 3202	Applied Horn With Jr Recital	2
Guitar		
GUIT 1201	Ind Performances-Guitar	2
GUIT 3201	Ind Performances-Guitar	2
GUIT 3202	Applied Guitar W/ Jr Recital	2
Harp		
HARP 1201	Harp	2
HARP 3201	Harp	2
HARP 3202	Applied Harp W/ Jr Recital	2
Oboe		
OBOE 1201	Ind Performances-Oboe	2
OBOE 3201	Ind Performances-Oboe	2
OBOE 3202	Applied Oboe With Jr Recital	2
Organ		
ORGN 1201	Ind Performances-Organ	2
ORGN 3201	Ind Performances-Organ I	2
ORGN 3202	Applied Organ With Jr Recital	2
Percussion		
PERC 1201	Ind Performances-Percussion	2
PERC 3201	Ind Performances-Percussion	2
PERC 3202	Applied Percussion W/ Jr Rectl	2
Piano		
PIAN 1201	Ind Performances-Piano	2
PIAN 3201	Ind Performances-Piano	2
PIAN 3202	Applied Piano With Jr Recital	2
Saxophone		
SAXO 1201	Ind Performances-Saxophone	2
SAXO 3201	Ind Performances-Saxophone	2
SAXO 3202	Applied Saxophone W/ Jr Recitl	2
String Bass		
STBS 1201	Ind Performances-Strg Bass	2
STBS 3201	Ind Performances-Strg Bass	2
STBS 3202	Applied String Bass W/ Jr Rect	2
Trumpet		
TRMT 1201	Ind Performances-Trumpet	2
TRMT 3201	Ind Performances-Trumpet	2
TRMT 3202	Applied Trumpet W/ Jr Recital	2
Tuba		
TUBA 1201	Ind Performances-Tuba	2
TUBA 3201	Ind Performances-Tuba	2
TUBA 3202	Applied Tuba With Jr Recital	2
Trombone		
TRMB 1201	Ind Performances-Trombone	2
TRMB 3201	Ind Performances-Trombone	2
TRMB 3202	Applied Trombone W/ Jr Recital	2
Viola		
VIOL 1201	Ind Performances-Viola	2
VIOL 3201	Ind Performances-Viola	2

VIOL 3202	Applice Viola W/ Jr Recital	2
Violin		
VILN 1201	Individual Performances-Violin	2
VILN 3201	Individual Performances-Violin	2
VILN 3202	Applied Violin W/ Jr Recital	2
Voice		
VOIC 1201	Ind Performances-Voice	2
VOIC 3201	Ind Performances-Voice	2
VOIC 3202	Applied Voice With Jr Recital	2
Practicum – Early Childhood		
MUSI 3117	Practicum In Music Therapy I	1
Practicum – Special Needs		
MUSI 3118	Practicum In Music Therapy II	1
Practicum – Psychiatric/Geriatric		
MUSI 4110	Practicum In Music Therapy III	1
Practicum – Medical		
MUSI 4111	Practicum In Music Therapy IV	1

Applied Music Fees

Students enrolled in Applied Music Instruction are required to pay a fee at the time of registration on a per-course basis each semester:

Texas Resident		Nonresident	
Semester Hours	**Amount**	**Semester Hours**	**Amount**
2-hour course	$60.00	2-hour course	$60.00
4-hour course	$75.00	4-hour course	$75.00

There is no additional charge for use of practice rooms.

First Year

Fall	Hours	Spring	Hours
Component Area I	3	Component Area I	3
Component Area II	3	Component Area III	4
Component Area IX	1	MUSI 1182[1]	1
MUSI 1181[1]	1	MUSI 1223	2
MUSI 1222	2	MUSI 1225	2
MUSI 1224	2	MUEN XXXX Lower-level Ensemble[2]	1
MUEN XXXX Lower-Level Ensemble[2]	1	XXXX 1201 Ind. Performances-Applied Lessons	2
XXXX 1201 Ind. Performances-Applied Lessons	2		
	15		15

Second Year

Fall	Hours	Spring	Hours
Component Area III	4	Component Area VI	3
Component Area VI	3	Component Area VII	3
MUSI 1379[3]	3	Component Area VIII	3
MUSI 2222	2	MUSI 2348[4]	3
MUSI 2224	2	MUEN XXXX Upper-Level Ensemble[2]	1
XXXX 1201 Ind. Performances-Applied Lessons	2	XXXX 1201 Ind. Performances-Applied Lessons	2
	16		15

Third Year

Fall	Hours	Spring	Hours
Foreign Language[5]	4	Component Area VII	3
MUSI 3376 or 3377	3	Foreign Language[5]	4
MUEN XXXX Upper-level Ensemble[2]	1	MUEN XXXX Upper-level Ensemble[2]	1

Performance/Music Advanced Electives[6]		5 Performance/Music Advanced Electives[6]	6
XXXX 3201 Ind. Performances-Applied Lessons[7]		2 XXXX 3201 Ind. Performances-Applied Lessons[7]	2
	15		16

Fourth Year

Fall	**Hours**	**Spring**	**Hours**
Advanced Free Electives		9 Advanced Free Electives	10
Foreign Language[5]		3 Foreign Language[5]	3
Performance/Music Advanced Electives[6]		3	
	15		13

Total Hours: 120

1 Not required if enrolled in PIAN 1201 (Piano Concentration). Additional elective credits must be substituted.

2 Select one of the following Ensembles: MUEN 1110 / MUEN 3110, MUEN 1111 / MUEN 3111, MUEN 1115 / MUEN 3115, MUEN 1116 / MUEN 3116, MUEN 1117 / MUEN 3117, MUEN 1119 / MUEN 3119, MUEN 2116 / MUEN 4116. (**Note**: **2 SCH of the 5 SCH must be advanced-level**).

3 MUSI 1379 satisfies the Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture).

4 Satisfies Core Curriculum requirement for Component Area V (Creative Arts).

5 Four semesters of one language required. An Intermediate I or II language course satisfies 3 credit hours of the Core Curriculum requirement for Component Area IX (Component Area Option).

6 Performance/Music Advanced Elective (See, list below).

7 Students must pass the Sophomore Applied Proficiency before registering for upper-level applied lessons. This Proficiency may be taken up to 3 times.

NOTE: ALL ELECTIVES MUST BE UPPER-LEVEL

Performance and Music Electives

Code	**Title**	**Hours**
MUEN 3111	Mixed Chorus [1]	1
MUEN 3116	Band [1]	1
MUEN 4116	Wind Ensemble [1]	1
MUEN 3118	Chamber Music [1]	1
MUEN 3115	Jazz Band [1]	1
MUEN 3117	Orchestra [1]	1
MUEN 3110	Collaborative Piano Chambr Mus [1]	1
MUEN 3119	Opera Workshop [1]	1
XXXX 3202 Applied Study with junior recital		2
XXXX Applied Study (may be repeated once for degree credit)		2
MUSI 3362	Orchestration And Analysis	3
MUSI 3367	Studies In Music For Children	3
MUSI 3376	Mus His: Antiq through Baroque	3
or MUSI 3377	Mus His: Classic to Present	
MUSI 3380	Opera Literature	3
MUSI 3381	Song History & Literature	3
MUSI 4375	Film Scoring	3

1 Not more than 4 additional MUEN hours can be counted toward the degree

NOTES:

Other courses may be recommended by an advisor and must be approved by the Director of the School of Music

Completion of six semesters of Concert Attendance is required for graduation. See student handbook and/or contact the School of Music for details.

Bachelor of Music-Major in Music With Concentration: All Level Certification Instrumental(BM ALIN)

Code	Title	Hours
Bachelor of Music - Major in Music With Concentration: All Level Certification Instrumental (BM ALIN)		
Core Curriculum		
Component Area I (Communication)		6
Component Area II (Mathematics)		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture))		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4
Degree Specific Requirements		
Major Core		
MUSI 1222	Theory Of Music I	2
MUSI 1223	Theory Of Music II	2
MUSI 1224	Musicianship I	2
MUSI 1225	Musicianship II	2
MUSI 1379	Survey of World Music Cultures [1]	3
MUSI 2222	Theory Of Music III	2
MUSI 2223	Theory Of Music IV	2
MUSI 2224	Musicianship III	2
MUSI 2348	Survey of Music Literature [2]	3
MUSI 3363	Structure And Analysis	3
MUSI 3376	Mus His: Antiq through Baroque	3
MUSI 3377	Mus His: Classic to Present	3
Concentration		
XXXX 1201	Ind. Performances-Applied Lessons Lower-Level	8
XXXX 3201	Ind. Performances-Applied Lessons Upper-Level [3]	4
XXXX 3202	Ind. Performances-Applied Lessons with JR Recital [3]	2
MUSI 1181	Class Piano, Level 1	1
MUSI 1182	Class Piano, Level 2	1
MUSI 2181	Class Piano, Level 3	1
Select 4 (Specific courses depend on student's primary instrument) [4]		4
MUSI 1166	Study Of Woodwinds	
MUSI 1167	Study Of Woodwinds	
MUSI 2166	Study Of Brasses	
MUSI 2167	Study Of Brasses	
MUSI 3110	Study Of Percussion	
MUSI 3111	Vocal Techng For Instrumentlst	1
MUSI 3166/3167	Study Of Strings (Taken for two semesters.)	2
MUSI 3362	Orchestration And Analysis	3
MUSI 3367	Studies In Music For Children	3
MUSI 4361	Tchq For Wind & String Instru	3
MUSI 2226	Conducting I	2
MUSI 4224	Conducting II	2
MUEN 1116/2116	Band (Taken for four semesters)	4
MUEN 3116/4116	Band (Taken for three semesters)	3
Education Block		

CISE 3384	The Teaching Profession	3
CISE 4364	Mth Tch Secondary Schools	3
CISE 4378	Content Literacy	3
CISE 4379	Differentiated Pedagogy	3
CISE 4380	Respon Of Pro Educator	3
CIEE 4392	Std Tch Elementary School	3
CISE 4394	Creatng Env For Lrng-Secondary	3
CISE 4396	Std Tch Secondary Classroom	3
Total Hours		133

1 MUSI 1379 satisfies the Core Curriculum requirement for Component Area IV (Language, Philosophy and Culture) & the Major Core.

2 MUSI 2348 satisfies the Core Curriculum requirement for Component Area V (Creative Arts) & the Major Core.

3 Students must pass the Sophomore Applied Proficiency before registering for upper-level applied lessons. This Proficiency may be taken up to 3 times.

4 Percussion students take MUSI 1166 & 1167 (Woodwind) and MUSI 2166 & 2167 (Brass); Brass students take MUSI 1166 & 1167 (Woodwind), MUSI 2166 **OR** 2167 (Brass), and MUSI 3110 (Percussion); Woodwind students take MUSI 2166 & 2167 (Brass), MUSI 1166 **OR** 1167 (Woodwind), and MUSI 3110 (Percussion). See Advisor.

NOTE: Completion of six semesters of Concert Attendance is required for graduation. See student handbook and/or contact the School of Music for details.

Ensembles

The following performance ensembles are open to all students of the university who qualify by audition:

Large Ensembles

Code	Title	Hours
Large Ensembles-		
Marching/Concert Band-for Wind and Percussion Students		
MUEN 1116/3116	Band	1
Wind Ensemble/Symphonic Band-for Wind and Percussion Students		
MUEN 2116/4116	Wind Ensemble	1
Orchestra-for String Students		
MUEN 1117/3117	Orchestra	1
Chorus-for Vocal Students		
MUEN 1111/3111	Mixed Chorus	1

Small Ensembles

No more than eight hours earned in large ensembles may be counted toward a degree. Small ensembles may be counted if approved by the ensemble director, studio instructor and the Director, School of Music.

Additional small ensembles, such as Jazz Ensemble, Opera Workshop, and Chamber Music are strongly encouraged for those who qualify by audition:

Code	Title	Hours
Small Ensembles		
Jazz Ensemble		
MUEN 1115/3115	Jazz Band	1
Opera Workshop		
MUEN 1119/3119	Opera Workshop	1
Chamber Music (smaller instrumental groups, including piano trios, string quartets, guitar ensemble, percussion ensemble, etc.)		
MUEN 1118/3118	Chamber Music	1
Keyboard Skills and Collaborative Techniques-for Keyboard performance major students only		
MUEN 1110/3110	Keyboard Skills & Collab Techn	1

Ensembles

- Music majors should enroll in at least one ensemble each semester they are enrolled as full-time students (except the student teaching semester).
- Students enrolled in studio instruction should be concurrently enrolled in an ensemble.

- Jazz Ensemble will not normally be considered to be the major ensemble for graduation hours.
- Students should not be enrolled in more than 2 ensembles per semester.
- Music Therapy majors must participate in 6 semesters of ensemble.

NOTE: Modifications or exceptions may be made in rare or unusual circumstances, but require approval by the Director, School of Music in coordination with ensemble directors and studio instructors.

Marching Band (for Wind and Percussion students)

- Students in the BM ALIN (instrumental) Teacher Certification program are required to be in Marching Band for 3 semesters.
- Music Performance Majors are required to be in Marching Band for 2 semesters.
- Music Therapy Majors, music minors, and non-majors are encouraged to participate in Marching Band.

For information regarding Common Course numbers for Ensemble, please refer to the Common Course listing in this catalog.

Ind. Performances/Applied Music Instruction and Practicums (Music Therapy)

Code	Title	Hours
Applied Music Instruction (Instrument, Voice, Music Therapy Practicum)		
Bassoon		
BSSN 1201	Ind Performances-Bassoon	2
BSSN 3201	Ind Performances-Bassoon	2
BSSN 3202	Applied Bassoon W/ Jr Recital	2
Cello		
VNCL 1201	Ind Performances-Violncello	2
VNCL 3201	Ind Performances-Violncello	2
VNCL 3202	Applied Cello W/ Jr Recital	2
Clarinet		
CLAR 1201	Ind Performances-Clarinet	2
CLAR 3201	Ind Performances-Clarinet	2
CLAR 3202	Applied Clarinet W/ Jr Recital	2
Composition		
COMP 1101	Applied Composition I	1
COMP 3301	Applied Composition II	3
Euphonium		
EUPH 1201	Ind Performances-Euphonium	2
EUPH 3201	Ind Performances-Euphonium	2
EUPH 3202	Applied Euphonium w/Jr Rectl	2
Flute		
FLUT 1201	Ind Performances-Flute	2
FLUT 3201	Ind Performances-Flute	2
FLUT 3202	Applied Flute W/ Jr Recital	2
French Horn		
HORN 1201	Ind Performances-Frnch Horn	2
HORN 3201	Ind Performances-Frnch Horn	2
HORN 3202	Applied Horn With Jr Recital	2
Guitar		
GUIT 1201	Ind Performances-Guitar	2
GUIT 3201	Ind Performances-Guitar	2
GUIT 3202	Applied Guitar W/ Jr Recital	2
Harp		
HARP 1201	Harp	2
HARP 3201	Harp	2
HARP 3202	Applied Harp W/ Jr Recital	2
Oboe		
OBOE 1201	Ind Performances-Oboe	2

OBOE 3201	Ind Performances-Oboe	2
OBOE 3202	Applied Oboe With Jr Recital	2
Organ		
ORGN 1201	Ind Performances-Organ	2
ORGN 3201	Ind Performances-Organ I	2
ORGN 3202	Applied Organ With Jr Recital	2
Percussion		
PERC 1201	Ind Performances-Percussion	2
PERC 3201	Ind Performances-Percussion	2
PERC 3202	Applied Percussion W/ Jr Rectl	2
Piano		
PIAN 1201	Ind Performances-Piano	2
PIAN 3201	Ind Performances-Piano	2
PIAN 3202	Applied Piano With Jr Recital	2
Saxophone		
SAXO 1201	Ind Performances-Saxophone	2
SAXO 3201	Ind Performances-Saxophone	2
SAXO 3202	Applied Saxophone W/ Jr Recitl	2
String Bass		
STBS 1201	Ind Performances-Strg Bass	2
STBS 3201	Ind Performances-Strg Bass	2
STBS 3202	Applied String Bass W/ Jr Rect	2
Trumpet		
TRMT 1201	Ind Performances-Trumpet	2
TRMT 3201	Ind Performances-Trumpet	2
TRMT 3202	Applied Trumpet W/ Jr Recital	2
Tuba		
TUBA 1201	Ind Performances-Tuba	2
TUBA 3201	Ind Performances-Tuba	2
TUBA 3202	Applied Tuba With Jr Recital	2
Trombone		
TRMB 1201	Ind Performances-Trombone	2
TRMB 3201	Ind Performances-Trombone	2
TRMB 3202	Applied Trombone W/ Jr Recital	2
Viola		
VIOL 1201	Ind Performances-Viola	2
VIOL 3201	Ind Performances-Viola	2
VIOL 3202	Applice Viola W/ Jr Recital	2
Violin		
VILN 1201	Individual Performances-Violin	2
VILN 3201	Individual Performances-Violin	2
VILN 3202	Applied Violin W/ Jr Recital	2
Voice		
VOIC 1201	Ind Performances-Voice	2
VOIC 3201	Ind Performances-Voice	2
VOIC 3202	Applied Voice With Jr Recital	2
Practicum – Early Childhood		
MUSI 3117	Practicum In Music Therapy I	1
Practicum – Special Needs		
MUSI 3118	Practicum In Music Therapy II	1
Practicum – Psychiatric/Geriatric		
MUSI 4110	Practicum In Music Therapy III	1

Practicum – Medical		
MUSI 4111	Practicum In Music Therapy IV	1

Applied Music Fees

Students enrolled in Applied Music Instruction are required to pay a fee at the time of registration on a per-course basis each semester:

Texas Resident		Nonresident	
Semester Hours	**Amount**	**Semester Hours**	**Amount**
2-hour course	$60.00	2-hour course	$60.00
4-hour course	$75.00	4-hour course	$75.00

There is no additional charge for use of practice rooms.

First Year

Fall	Hours	Spring	Hours
Component Area I	3	Component Area I	3
Component Area II	3	Component Area VI	3
MUSI 1379[1]	3	Component Area VII	3
MUEN 1116 or 2116	1	MUEN 1116 or 2116	1
MUSI 1166, 1167, 2166, 2167, or 3110[3]	1	MUSI 1167, 1166, 2166, 2167, or 3110[3]	1
MUSI 1181	1	MUSI 1182	1
MUSI 1222	2	MUSI 1223	2
MUSI 1224	2	MUSI 1225	2
XXXX 1201 Ind. Performances-Applied Lessons	2	XXXX 1201 Ind. Performances-Applied Lessons	2
	18		18

Second Year

Fall	Hours	Spring	Hours
Component Area VIII	3	Component Area III	4
Component Area IX	1	Component Area VI	3
MUSI 2181	1	Component Area VII	3
MUEN 1116 or 2116	1	MUEN 1116 or 2116	1
MUSI 2166, 1166, 1167, 2167, or 3110[3]	1	MUSI 2167, 1166, 1167, 2166, or 3110[3]	1
MUSI 2222	2	MUSI 2223	2
MUSI 2224	2	MUSI 3376	3
MUSI 2348[2]	3	XXXX 1201 Ind. Performances-Applied Lessons	2
XXXX 1201 Ind. Performances-Applied Lessons	2		
	16		19

Third Year

Fall	Hours	Spring	Hours
MUSI 2226	2	MUSI 3167	1
MUEN 3116 or 4116	1	MUSI 3111	1
MUSI 3166	1	MUSI 3362	3
MUSI 3363	3	MUEN 3116 or 4116	1
MUSI 3367	3	MUSI 4224	2
MUSI 3377	3	MUSI 4361	3
XXXX 3201 Ind. Performances-Applied Lessons[4]	2	XXXX 3202 Ind. Performances-Applied Lessons (Junior Recital)[4]	2
CISE 3384	3	CISE 4380	3
		CISE 4378	3
	18		19

Fourth Year

Fall	Hours	Spring	Hours
Component Area III	4	CIEE 4392	3
Component Area IX	3	CISE 4394	3

MUEN 3116 or 4116	1 CISE 4396	3
XXXX 3201 Ind. Performances-Applied Lessons[4]	2	
CISE 4364	3	
CISE 4379	3	
	16	9

Total Hours: 133

1 Satisfies Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture).

2 Satisfies Core Curriculum requirement for Component Area V (Creative Arts).

3 Percussion students take MUSI 1166 & 1167 (Woodwind) and MUSI 2166 & 2167(Brass); Brass students take MUSI 1166 & 1167 (Woodwind), MUSI 2166 **OR** 2167 (Brass), and MUSI 3110 (Percussion); Woodwind students take MUSI 2166 & 2167(Brass), MUSI 1166 **OR** 1167 (Woodwind), and MUSI 3110 (Percussion). See Advisor.

4 Students must pass the Sophomore Applied Proficiency before registering for upper-level applied lessons. This Proficiency may be taken up to 3 times.

NOTE: Completion of six semesters of Concert Attendance is required for graduation. See student handbook and/or contact the School of Music for details.

Bachelor of Music, Major in Music With Concentration: All Level Certification-String (BM ALST)

Bachelor of Music, Major in Music With Concentration: All Level Certification-String (BM ALST)

This Bachelor of Music degree and teacher certification program, when successfully completed, prepares a student for All-Level Certification to teach music in early childhood through twelfth grade.

Code	Title	Hours
Bachelor of Music, Major in Music With Concentration: All Level Certification-String (BM ALST) - Requires a Minor in Secondary Education		
Core Curriculum		
Component Area I (Communication)		6
Component Area II (Mathematics)		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Componenty Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4
Degree Specific Requirements		
Major Core		
MUSI 1222	Theory Of Music I	2
MUSI 1223	Theory Of Music II	2
MUSI 1224	Musicianship I	2
MUSI 1225	Musicianship II	2
MUSI 1379	Survey of World Music Cultures [1]	3
MUSI 2222	Theory Of Music III	2
MUSI 2223	Theory Of Music IV	2
MUSI 2224	Musicianship III	2
MUSI 2348	Survey of Music Literature [2]	3
MUSI 3363	Structure And Analysis	3
MUSI 3376	Mus His: Antiq through Baroque	3
MUSI 3377	Mus His: Classic to Present	3
Concentration		

XXXX 1201	Ind. Performances-Applied Lessons Lower-Level	8
XXXX 3201	Ind. Performances-Applied Lessons: Upper-Level [3]	4
XXXX 3202	Ind. Performances-Applied Lessons with Jr. Recital [3]	2
MUSI 1166	Study Of Woodwinds	1
or MUSI 1167	Study Of Woodwinds	
MUSI 1181	Class Piano, Level 1	1
MUSI 1182	Class Piano, Level 2	1
MUSI 2181	Class Piano, Level 3	1
MUSI 2166	Study Of Brasses	1
or MUSI 2167	Study Of Brasses	
MUSI 3110	Study Of Percussion	1
MUSI 3111	Vocal Techng For Instrumentlst	1
MUSI 3362	Orchestration And Analysis	3
MUSI 3166	Study Of Strings	1
or MUSI 3167	Study Of Strings	
MUSI 3367	Studies In Music For Children	3
MUSI 2226	Conducting I	2
MUSI 4224	Conducting II	2
MUSI 4361	Tchq For Wind & String Instru	3
MUEN 1117	Orchestra (Taken four semesters.)	4
MUEN 3117	Orchestra (Taken three semesters.)	3
MUEN 1118	Chamber Music	1
MUEN 3118	Chamber Music	1
Secondary Education Minor - Education Block		
CISE 3384	The Teaching Profession	3
CISE 4364	Mth Tch Secondary Schools	3
CISE 4378	Content Literacy	3
CISE 4379	Differentiated Pedagogy	3
CISE 4380	Respon Of Pro Educator	3
CIEE 4392	Std Tch Elementary School	3
CISE 4394	Creatng Env For Lrng-Secondary	3
CISE 4396	Std Tch Secondary Classroom	3
Total Hours		133

1 MUSI 1379 satisfies the Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture) and in the Major Core.

2 MUSI 2348 satisfies the Core Curriculum requirement for Component Area V (Creative Arts) and in the Major Core.

3 Students must pass the Sophomore Applied Proficiency before registering for upper-level applied lessons. This Proficiency may be taken up to 3 times.

NOTE: Completion of six semesters of Concert Attendance is required for graduation. See student handbook and/or contact the School of Music for details.

Ensembles

The following performance ensembles are open to all students of the university who qualify by audition:

Large Ensembles

Code	Title	Hours
Large Ensembles-		
Marching/Concert Band-for Wind and Percussion Students		
MUEN 1116/3116	Band	1
Wind Ensemble/Symphonic Band-for Wind and Percussion Students		
MUEN 2116/4116	Wind Ensemble	1
Orchestra-for String Students		
MUEN 1117/3117	Orchestra	1

Chorus-for Vocal Students		
MUEN 1111/3111	Mixed Chorus	1

Small Ensembles

No more than eight hours earned in large ensembles may be counted toward a degree. Small ensembles may be counted if approved by the ensemble director, studio instructor and the Director, School of Music.

Additional small ensembles, such as Jazz Ensemble, Opera Workshop, and Chamber Music are strongly encouraged for those who qualify by audition:

Code	Title	Hours
Small Ensembles		
Jazz Ensemble		
MUEN 1115/3115	Jazz Band	1
Opera Workshop		
MUEN 1119/3119	Opera Workshop	1
Chamber Music (smaller instrumental groups, including piano trios, string quartets, guitar ensemble, percussion ensemble, etc.)		
MUEN 1118/3118	Chamber Music	1
Keyboard Skills and Collaborative Techniques-for Keyboard performance major students only		
MUEN 1110/3110	Keyboard Skills & Collab Techn	1

Ensembles

- Music majors should enroll in at least one ensemble each semester they are enrolled as full-time students (except the student teaching semester).
- Students enrolled in studio instruction should be concurrently enrolled in an ensemble.
- Jazz Ensemble will not normally be considered to be the major ensemble for graduation hours.
- Students should not be enrolled in more than 2 ensembles per semester.
- Music Therapy majors must participate in 6 semesters of ensemble.

NOTE: Modifications or exceptions may be made in rare or unusual circumstances, but require approval by the Director, School of Music in coordination with ensemble directors and studio instructors.

Marching Band (for Wind and Percussion students)

- Students in the BM ALIN (instrumental) Teacher Certification program are required to be in Marching Band for 3 semesters.
- Music Performance Majors are required to be in Marching Band for 2 semesters.
- Music Therapy Majors, music minors, and non-majors are encouraged to participate in Marching Band.

For information regarding Common Course numbers for Ensemble, please refer to the Common Course listing in this catalog.

Ind. Performances/Applied Music Instruction and Practicums (Music Therapy)

Code	Title	Hours
Applied Music Instruction (Instrument, Voice, Music Therapy Practicum)		
Bassoon		
BSSN 1201	Ind Performances-Bassoon	2
BSSN 3201	Ind Performances-Bassoon	2
BSSN 3202	Applied Bassoon W/ Jr Recital	2
Cello		
VNCL 1201	Ind Performances-Violncello	2
VNCL 3201	Ind Performances-Violncello	2
VNCL 3202	Applied Cello W/ Jr Recital	2
Clarinet		
CLAR 1201	Ind Performances-Clarinet	2
CLAR 3201	Ind Performances-Clarinet	2
CLAR 3202	Applied Clarinet W/ Jr Recital	2
Composition		
COMP 1101	Applied Composition I	1
COMP 3301	Applied Composition II	3
Euphonium		

EUPH 1201	Ind Performances-Euphonium	2
EUPH 3201	Ind Performances-Euphonium	2
EUPH 3202	Applied Euphonium w/Jr Rectl	2
Flute		
FLUT 1201	Ind Performances-Flute	2
FLUT 3201	Ind Performances-Flute	2
FLUT 3202	Applied Flute W/ Jr Recital	2
French Horn		
HORN 1201	Ind Performances-Frnch Horn	2
HORN 3201	Ind Performances-Frnch Horn	2
HORN 3202	Applied Horn With Jr Recital	2
Guitar		
GUIT 1201	Ind Performances-Guitar	2
GUIT 3201	Ind Performances-Guitar	2
GUIT 3202	Applied Guitar W/ Jr Recital	2
Harp		
HARP 1201	Harp	2
HARP 3201	Harp	2
HARP 3202	Applied Harp W/ Jr Recital	2
Oboe		
OBOE 1201	Ind Performances-Oboe	2
OBOE 3201	Ind Performances-Oboe	2
OBOE 3202	Applied Oboe With Jr Recital	2
Organ		
ORGN 1201	Ind Performances-Organ	2
ORGN 3201	Ind Performances-Organ I	2
ORGN 3202	Applied Organ With Jr Recital	2
Percussion		
PERC 1201	Ind Performances-Percussion	2
PERC 3201	Ind Performances-Percussion	2
PERC 3202	Applied Percussion W/ Jr Rectl	2
Piano		
PIAN 1201	Ind Performances-Piano	2
PIAN 3201	Ind Performances-Piano	2
PIAN 3202	Applied Piano With Jr Recital	2
Saxophone		
SAXO 1201	Ind Performances-Saxophone	2
SAXO 3201	Ind Performances-Saxophone	2
SAXO 3202	Applied Saxophone W/ Jr Recitl	2
String Bass		
STBS 1201	Ind Performances-Strg Bass	2
STBS 3201	Ind Performances-Strg Bass	2
STBS 3202	Applied String Bass W/ Jr Rect	2
Trumpet		
TRMT 1201	Ind Performances-Trumpet	2
TRMT 3201	Ind Performances-Trumpet	2
TRMT 3202	Applied Trumpet W/ Jr Recital	2
Tuba		
TUBA 1201	Ind Performances-Tuba	2
TUBA 3201	Ind Performances-Tuba	2
TUBA 3202	Applied Tuba With Jr Recital	2
Trombone		

TRMB 1201	Ind Performances-Trombone	2
TRMB 3201	Ind Performances-Trombone	2
TRMB 3202	Applied Trombone W/ Jr Recital	2
Viola		
VIOL 1201	Ind Performances-Viola	2
VIOL 3201	Ind Performances-Viola	2
VIOL 3202	Applice Viola W/ Jr Recital	2
Violin		
VILN 1201	Individual Performances-Violin	2
VILN 3201	Individual Performances-Violin	2
VILN 3202	Applied Violin W/ Jr Recital	2
Voice		
VOIC 1201	Ind Performances-Voice	2
VOIC 3201	Ind Performances-Voice	2
VOIC 3202	Applied Voice With Jr Recital	2
Practicum – Early Childhood		
MUSI 3117	Practicum In Music Therapy I	1
Practicum – Special Needs		
MUSI 3118	Practicum In Music Therapy II	1
Practicum – Psychiatric/Geriatric		
MUSI 4110	Practicum In Music Therapy III	1
Practicum – Medical		
MUSI 4111	Practicum In Music Therapy IV	1

Applied Music Fees

Students enrolled in Applied Music Instruction are required to pay a fee at the time of registration on a per-course basis each semester:

Texas Resident		Nonresident	
Semester Hours	**Amount**	**Semester Hours**	**Amount**
2-hour course	$60.00	2-hour course	$60.00
4-hour course	$75.00	4-hour course	$75.00

There is no additional charge for use of practice rooms.

First Year

Fall	Hours	Spring	Hours
Component Area I	3	Component Area I	3
Component Area II	3	Component Area VI	3
MUSI 1379[1]	3	Component Area VII	3
MUEN 1117	1	MUEN 1117	1
MUEN 1118	1	MUSI 1223	2
MUSI 1181	1	MUSI 1225	2
MUSI 1222	2	MUSI 1167 or 1166	1
MUSI 1224	2	MUSI 1182	1
XXXX 1201 Ind. Performances-Applied Lessons	2	XXXX 1201 Ind. Performances-Applied Lessons	2
	18		18

Second Year

Fall	Hours	Spring	Hours
Component Area VI	3	Component Area III	4
Component Area IX	1	Component Area VII	3
MUSI 2181	1	Component Area VIII	3
MUEN 1117	1	MUEN 1117	1
MUSI 2166 or 2167	1	MUSI 2223	2

MUSI 2222	2	MUSI 3111	1
MUSI 2224	2	MUSI 3376	3
MUSI 2348[2]	3	XXXX 1201 Ind. Performances-Applied Lessons	2
MUSI 3110	1		
XXXX 1201 Ind. Performances-Applied Lessons	2		
	17		19

Third Year

Fall	Hours	Spring	Hours
MUSI 2226	2	MUEN 3117	1
MUEN 3117	1	MUSI 3362	3
MUSI 3166 or 3167	1	MUSI 4224	2
MUEN 3118	1	MUSI 4361	3
MUSI 3363	3	XXXX 3201 Ind. Performances-Applied Lessons[3]	2
MUSI 3367	3	CISE 4378	3
MUSI 3377	3	CISE 4380	3
XXXX 3201 Ind. Performances-Applied Lessons[3]	2		
CISE 3384	3		
	19		17

Fourth Year

Fall	Hours	Spring	Hours
Component Area III	4	CIEE 4392	3
Component Area IX	3	CISE 4394	3
CISE 4364	3	CISE 4396	3
CISE 4379	3		
MUEN 3117	1		
XXXX 3202 Ind. Performances-Applied Lessons with Junior Recital [3]	2		
	16		9

Total Hours: 133

1 Satisfies the Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture).

2 Satisfies the Core Curriculum requirement for Component Area V (Creative Arts).

3 Students must pass the Sophomore Applied Proficiency before registering for upper-level applied lessons. This Proficiency may be taken up to 3 times.

NOTE: Completion of six semesters of Concert Attendance is required for graduation. See student handbook and/or contact the School of Music for details.

Bachelor of Music, Major in Music With Concentration: All Level Certification-Choral (BM ALCH)

This Bachelor of Music degree and teacher certification program, when successfully completed, prepares a student for All-Level Certification to teach music in early childhood through twelfth grade.

Code	Title	Hours
Bachelor of Music, Major in Music With Concentration: All Level Certification-Choral (BM ALCH)- Requires a Minor in Secondary Education		
Core Curriculum		
Component Area I (Communication)		6
Component Area II (Mathematics)		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6

Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4
Degree Specific Requirements		
Major Core		
MUSI 1222	Theory Of Music I	2
MUSI 1223	Theory Of Music II	2
MUSI 1224	Musicianship I	2
MUSI 1225	Musicianship II	2
MUSI 1379	Survey of World Music Cultures [1]	3
MUSI 2348	Survey of Music Literature [2]	3
MUSI 2222	Theory Of Music III	2
MUSI 2223	Theory Of Music IV	2
MUSI 2224	Musicianship III	2
MUSI 3363	Structure And Analysis	3
MUSI 3376	Mus His: Antiq through Baroque	3
MUSI 3377	Mus His: Classic to Present	3
Concentration		
VOIC 1201	Ind Performances-Voice	8
VOIC 3201	Ind Performances-Voice [3]	4
VOIC 3202	Applied Voice With Jr Recital [3]	2
MUSI 1181	Class Piano, Level 1	1
MUSI 1182	Class Piano, Level 2	1
MUSI 2181	Class Piano, Level 3	1
MUSI 2182	Class Piano, Level 4	1
MUSI 1160	Singer's Diction:Eng & Italian	1
MUSI 2161	Singer's Diction - French	1
MUSI 2160	Singer's Diction:German	1
MUSI 3112	Instrumental Techniq-Vocalists	1
MUSI 3362	Orchestration And Analysis	3
MUSI 3367	Studies In Music For Children	3
MUSI 2226	Conducting I	2
MUSI 4224	Conducting II	2
MUSI 4362	Vocal Pedagogy & Techniques	3
MUEN 1111	Mixed Chorus	4
MUEN 3111	Mixed Chorus	3
Secondary Education Minor - Education Block		
CISE 3384	The Teaching Profession	3
CISE 4364	Mth Tch Secondary Schools	3
CISE 4378	Content Literacy	3
CISE 4379	Differentiated Pedagogy	3
CISE 4380	Respon Of Pro Educator	3
CIEE 4392	Std Tch Elementary School	3
CISE 4394	Creatng Env For Lrng-Secondary	3
CISE 4396	Std Tch Secondary Classroom	3
Total Hours		131

1 MUSI 1379 satisfies the Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture) and in the Major Core.

2 MUSI 2348 satisfies the Core Curriculum requirement for Component Area V (Creative Arts) and in the Major Core.

3 Students must pass the Sophomore Applied Proficiency before registering for upper-level applied lessons. This Proficiency may be taken up to 3 times.

NOTE: Completion of six semesters of Concert Attendance is required for graduation. See student handbook and/or contact the School of Music for details.

Ensembles

The following performance ensembles are open to all students of the university who qualify by audition:

Large Ensembles

Code	Title	Hours
Large Ensembles-		
Marching/Concert Band-for Wind and Percussion Students		
MUEN 1116/3116	Band	1
Wind Ensemble/Symphonic Band-for Wind and Percussion Students		
MUEN 2116/4116	Wind Ensemble	1
Orchestra-for String Students		
MUEN 1117/3117	Orchestra	1
Chorus-for Vocal Students		
MUEN 1111/3111	Mixed Chorus	1

Small Ensembles

No more than eight hours earned in large ensembles may be counted toward a degree. Small ensembles may be counted if approved by the ensemble director, studio instructor and the Director, School of Music.

Additional small ensembles, such as Jazz Ensemble, Opera Workshop, and Chamber Music are strongly encouraged for those who qualify by audition:

Code	Title	Hours
Small Ensembles		
Jazz Ensemble		
MUEN 1115/3115	Jazz Band	1
Opera Workshop		
MUEN 1119/3119	Opera Workshop	1
Chamber Music (smaller instrumental groups, including piano trios, string quartets, guitar ensemble, percussion ensemble, etc.)		
MUEN 1118/3118	Chamber Music	1
Keyboard Skills and Collaborative Techniques-for Keyboard performance major students only		
MUEN 1110/3110	Keyboard Skills & Collab Techn	1

Ensembles

- Music majors should enroll in at least one ensemble each semester they are enrolled as full-time students (except the student teaching semester).
- Students enrolled in studio instruction should be concurrently enrolled in an ensemble.
- Jazz Ensemble will not normally be considered to be the major ensemble for graduation hours.
- Students should not be enrolled in more than 2 ensembles per semester.
- Music Therapy majors must participate in 6 semesters of ensemble.

NOTE: Modifications or exceptions may be made in rare or unusual circumstances, but require approval by the Director, School of Music in coordination with ensemble directors and studio instructors.

Marching Band (for Wind and Percussion students)

- Students in the BM ALIN (instrumental) Teacher Certification program are required to be in Marching Band for 3 semesters.
- Music Performance Majors are required to be in Marching Band for 2 semesters.
- Music Therapy Majors, music minors, and non-majors are encouraged to participate in Marching Band.

For information regarding Common Course numbers for Ensemble, please refer to the Common Course listing in this catalog.

Ind. Performances/Applied Music Instruction and Practicums (Music Therapy)

Code	Title	Hours
Applied Music Instruction (Instrument, Voice, Music Therapy Practicum)		
Bassoon		
BSSN 1201	Ind Performances-Bassoon	2
BSSN 3201	Ind Performances-Bassoon	2
BSSN 3202	Applied Bassoon W/ Jr Recital	2

Cello		
VNCL 1201	Ind Performances-Violncello	2
VNCL 3201	Ind Performances-Violncello	2
VNCL 3202	Applied Cello W/ Jr Recital	2
Clarinet		
CLAR 1201	Ind Performances-Clarinet	2
CLAR 3201	Ind Performances-Clarinet	2
CLAR 3202	Applied Clarinet W/ Jr Recital	2
Composition		
COMP 1101	Applied Composition I	1
COMP 3301	Applied Composition II	3
Euphonium		
EUPH 1201	Ind Performances-Euphonium	2
EUPH 3201	Ind Performances-Euphonium	2
EUPH 3202	Applied Euphonium w/Jr Rectl	2
Flute		
FLUT 1201	Ind Performances-Flute	2
FLUT 3201	Ind Performances-Flute	2
FLUT 3202	Applied Flute W/ Jr Recital	2
French Horn		
HORN 1201	Ind Performances-Frnch Horn	2
HORN 3201	Ind Performances-Frnch Horn	2
HORN 3202	Applied Horn With Jr Recital	2
Guitar		
GUIT 1201	Ind Performances-Guitar	2
GUIT 3201	Ind Performances-Guitar	2
GUIT 3202	Applied Guitar W/ Jr Recital	2
Harp		
HARP 1201	Harp	2
HARP 3201	Harp	2
HARP 3202	Applied Harp W/ Jr Recital	2
Oboe		
OBOE 1201	Ind Performances-Oboe	2
OBOE 3201	Ind Performances-Oboe	2
OBOE 3202	Applied Oboe With Jr Recital	2
Organ		
ORGN 1201	Ind Performances-Organ	2
ORGN 3201	Ind Performances-Organ I	2
ORGN 3202	Applied Organ With Jr Recital	2
Percussion		
PERC 1201	Ind Performances-Percussion	2
PERC 3201	Ind Performances-Percussion	2
PERC 3202	Applied Percussion W/ Jr Rectl	2
Piano		
PIAN 1201	Ind Performances-Piano	2
PIAN 3201	Ind Performances-Piano	2
PIAN 3202	Applied Piano With Jr Recital	2
Saxophone		
SAXO 1201	Ind Performances-Saxophone	2
SAXO 3201	Ind Performances-Saxophone	2
SAXO 3202	Applied Saxophone W/ Jr Recitl	2
String Bass		

STBS 1201	Ind Performances-Strg Bass	2
STBS 3201	Ind Performances-Strg Bass	2
STBS 3202	Applied String Bass W/ Jr Rect	2
Trumpet		
TRMT 1201	Ind Performances-Trumpet	2
TRMT 3201	Ind Performances-Trumpet	2
TRMT 3202	Applied Trumpet W/ Jr Recital	2
Tuba		
TUBA 1201	Ind Performances-Tuba	2
TUBA 3201	Ind Performances-Tuba	2
TUBA 3202	Applied Tuba With Jr Recital	2
Trombone		
TRMB 1201	Ind Performances-Trombone	2
TRMB 3201	Ind Performances-Trombone	2
TRMB 3202	Applied Trombone W/ Jr Recital	2
Viola		
VIOL 1201	Ind Performances-Viola	2
VIOL 3201	Ind Performances-Viola	2
VIOL 3202	Applice Viola W/ Jr Recital	2
Violin		
VILN 1201	Individual Performances-Violin	2
VILN 3201	Individual Performances-Violin	2
VILN 3202	Applied Violin W/ Jr Recital	2
Voice		
VOIC 1201	Ind Performances-Voice	2
VOIC 3201	Ind Performances-Voice	2
VOIC 3202	Applied Voice With Jr Recital	2
Practicum – Early Childhood		
MUSI 3117	Practicum In Music Therapy I	1
Practicum – Special Needs		
MUSI 3118	Practicum In Music Therapy II	1
Practicum – Psychiatric/Geriatric		
MUSI 4110	Practicum In Music Therapy III	1
Practicum – Medical		
MUSI 4111	Practicum In Music Therapy IV	1

Applied Music Fees

Students enrolled in Applied Music Instruction are required to pay a fee at the time of registration on a per-course basis each semester:

Texas Resident		Nonresident	
Semester Hours	**Amount**	**Semester Hours**	**Amount**
2-hour course	$60.00	2-hour course	$60.00
4-hour course	$75.00	4-hour course	$75.00

There is no additional charge for use of practice rooms.

First Year

Fall	Hours	Spring	Hours
Component Area I	3	Component Area I	3
Component Area II	3	Component Area IV	3
MUSI 1379[1]	3	Component Area VI	3
MUEN 1111	1	MUEN 1111	1
MUSI 1160	1	MUSI 1182	1

MUSI 1181	1 MUSI 1223	2
MUSI 1222	2 MUSI 1225	2
MUSI 1224	2 MUSI 2160	1
VOIC 1201	2 VOIC 1201	2
	18	18

Second Year

Fall	Hours	Spring	Hours
Component Area VII	3	Component Area III	4
Component Area IX	1	Component Area VII	3
MUEN 1111	1	Component Area VIII	3
MUSI 2161	1	MUSI 2182	1
MUSI 2181	1	MUEN 1111	1
MUSI 2222	2	MUSI 2223	2
MUSI 2224	2	MUSI 3376	3
MUSI 2348[2]	3	VOIC 1201	2
VOIC 1201	2		
	16		19

Third Year

Fall	Hours	Spring	Hours
MUEN 3111	1	MUEN 3111	1
MUSI 2226	2	MUSI 3362	3
MUSI 3112	1	MUSI 4224	2
MUSI 3363	3	MUSI 4362	3
MUSI 3367	3	VOIC 3201[3]	2
MUSI 3377	3	CISE 4380	3
VOIC 3201[3]	2	CISE 4378	3
CISE 3384	3		
	18		17

Fourth Year

Fall	Hours	Spring	Hours
Component Area III	4	CIEE 4392	3
Component Area IX	3	CISE 4394	3
CISE 4364	3	CISE 4396	3
CISE 4379	3		
MUEN 3111	1		
VOIC 3202[3]	2		
	16		9

Total Hours: 131

1 MUSI 1379 satisfies the Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture) and in the Major Core.

2 MUSI 2348 satisfies the Core Curriculum requirement for Component Area V (Creative Arts) and in the Major Core.

3 Students must pass the Sophomore Applied Proficiency before registering for upper-level applied lessons. This Proficiency may be taken up to 3 times.

NOTE: Completion of six semesters of Concert Attendance is required for graduation. See student handbook and/or contact the School of Music for details.

Bachelor of Music, Major in Music With Concentration: Composition (BM COMP)

Bachelor of Music, Major in Music With Concentration: Composition (BM COMP)

The curriculum in music composition is designed to prepare the student for graduate study in the field. Students who pursue this degree are those who have career interests as composers/arrangers or as teachers of composition.

Code	Title	Hours
Bachelor of Music, Major in Music With Concentration: Composition (BM COMP)		
Core Curriculum		
Component Area I (Communication)		6
Component Area II (Mathematics)		3
Component Area III (Life and Physical Sciences)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4
Major Core		
MUSI 1222	Theory Of Music I	2
MUSI 1223	Theory Of Music II	2
MUSI 1224	Musicianship I	2
MUSI 1225	Musicianship II	2
MUSI 1379	Survey of World Music Cultures [1]	3
MUSI 2222	Theory Of Music III	2
MUSI 2223	Theory Of Music IV	2
MUSI 2224	Musicianship III	2
MUSI 2348	Survey of Music Literature [2]	3
MUSI 3363	Structure And Analysis	3
MUSI 3376	Mus His: Antiq through Baroque	3
MUSI 3377	Mus His: Classic to Present	3
Concentration		
COMP 1101	Applied Composition I (Taken for four semesters.)	4
COMP 3301	Applied Composition II (Taken for four semesters)	12
XXXX 1201	Ind. Performances-Applied Lessons: Lower Level	8
XXXX 3201	Ind. Performances-Applied Lessons: Upper Level [3]	4
MUEN XXXX	Lower Level Ensemble	2
MUEN XXXX	Upper Level Ensembles	2
MUSI 1181	Class Piano, Level 1	1
MUSI 1182	Class Piano, Level 2	1
MUSI 2181	Class Piano, Level 3	1
MUSI 2182	Class Piano, Level 4	1
MUSI 2226	Conducting I	2
MUSI 3362	Orchestration And Analysis	3
MUSI 4117	Recital	1
MUSI 4365	Counterpoint And Analysis	3
Select 10 hours of the following Advanced Electives:		10
MUEN 3118	Chamber Music (New Music Ensemble. SCH 1. May be repeated twice.)	
MUSI 3364	Improvisation	
MUSI 3372	Advanced Orchestration	
MUSI 4373	Electronic Music	

MUSI 4374	20th Century Musical Styles	
MUSI 4375	Film Scoring	
Total Hours		120

1 MUSI 1379 satisfies the Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture) and in the Major Core.

2 MUSI 2348 satisfies the Core Curriculum requirement for Component Area V (Creative Arts) and in the Major Core.

3 Students must pass the Sophomore Applied Proficiency before registering for upper-level applied lessons. This Proficiency may be taken up to 3 times.

NOTES:

- Students should use the electives to complete the 42-advanced hour requirement for graduation.
- Completion of six semesters of Concert Attendance is required for graduation. See student handbook and/or contact the School of Music for details.

Ensembles

The following performance ensembles are open to all students of the university who qualify by audition:

Large Ensembles

Code	Title	Hours
Large Ensembles-		
Marching/Concert Band-for Wind and Percussion Students		
MUEN 1116/3116	Band	1
Wind Ensemble/Symphonic Band-for Wind and Percussion Students		
MUEN 2116/4116	Wind Ensemble	1
Orchestra-for String Students		
MUEN 1117/3117	Orchestra	1
Chorus-for Vocal Students		
MUEN 1111/3111	Mixed Chorus	1

Small Ensembles

No more than eight hours earned in large ensembles may be counted toward a degree. Small ensembles may be counted if approved by the ensemble director, studio instructor and the Director, School of Music.

Additional small ensembles, such as Jazz Ensemble, Opera Workshop, and Chamber Music are strongly encouraged for those who qualify by audition:

Code	Title	Hours
Small Ensembles		
Jazz Ensemble		
MUEN 1115/3115	Jazz Band	1
Opera Workshop		
MUEN 1119/3119	Opera Workshop	1
Chamber Music (smaller instrumental groups, including piano trios, string quartets, guitar ensemble, percussion ensemble, etc.)		
MUEN 1118/3118	Chamber Music	1
Keyboard Skills and Collaborative Techniques-for Keyboard performance major students only		
MUEN 1110/3110	Keyboard Skills & Collab Techn	1

Ensembles

- Music majors should enroll in at least one ensemble each semester they are enrolled as full-time students (except the student teaching semester).
- Students enrolled in studio instruction should be concurrently enrolled in an ensemble.
- Jazz Ensemble will not normally be considered to be the major ensemble for graduation hours.
- Students should not be enrolled in more than 2 ensembles per semester.
- Music Therapy majors must participate in 6 semesters of ensemble.

NOTE: Modifications or exceptions may be made in rare or unusual circumstances, but require approval by the Director, School of Music in coordination with ensemble directors and studio instructors.

Marching Band (for Wind and Percussion students)

- Students in the BM ALIN (instrumental) Teacher Certification program are required to be in Marching Band for 3 semesters.
- Music Performance Majors are required to be in Marching Band for 2 semesters.
- Music Therapy Majors, music minors, and non-majors are encouraged to participate in Marching Band.

For information regarding Common Course numbers for Ensemble, please refer to the Common Course listing in this catalog.

Ind. Performances/Applied Music Instruction and Practicums (Music Therapy)

Code	Title	Hours
Applied Music Instruction (Instrument, Voice, Music Therapy Practicum)		
Bassoon		
BSSN 1201	Ind Performances-Bassoon	2
BSSN 3201	Ind Performances-Bassoon	2
BSSN 3202	Applied Bassoon W/ Jr Recital	2
Cello		
VNCL 1201	Ind Performances-Violncello	2
VNCL 3201	Ind Performances-Violncello	2
VNCL 3202	Applied Cello W/ Jr Recital	2
Clarinet		
CLAR 1201	Ind Performances-Clarinet	2
CLAR 3201	Ind Performances-Clarinet	2
CLAR 3202	Applied Clarinet W/ Jr Recital	2
Composition		
COMP 1101	Applied Composition I	1
COMP 3301	Applied Composition II	3
Euphonium		
EUPH 1201	Ind Performances-Euphonium	2
EUPH 3201	Ind Performances-Euphonium	2
EUPH 3202	Applied Euphonium w/Jr Rectl	2
Flute		
FLUT 1201	Ind Performances-Flute	2
FLUT 3201	Ind Performances-Flute	2
FLUT 3202	Applied Flute W/ Jr Recital	2
French Horn		
HORN 1201	Ind Performances-Frnch Horn	2
HORN 3201	Ind Performances-Frnch Horn	2
HORN 3202	Applied Horn With Jr Recital	2
Guitar		
GUIT 1201	Ind Performances-Guitar	2
GUIT 3201	Ind Performances-Guitar	2
GUIT 3202	Applied Guitar W/ Jr Recital	2
Harp		
HARP 1201	Harp	2
HARP 3201	Harp	2
HARP 3202	Applied Harp W/ Jr Recital	2
Oboe		
OBOE 1201	Ind Performances-Oboe	2
OBOE 3201	Ind Performances-Oboe	2
OBOE 3202	Applied Oboe With Jr Recital	2
Organ		
ORGN 1201	Ind Performances-Organ	2
ORGN 3201	Ind Performances-Organ I	2
ORGN 3202	Applied Organ With Jr Recital	2

Percussion		
PERC 1201	Ind Performances-Percussion	2
PERC 3201	Ind Performances-Percussion	2
PERC 3202	Applied Percussion W/ Jr Rectl	2
Piano		
PIAN 1201	Ind Performances-Piano	2
PIAN 3201	Ind Performances-Piano	2
PIAN 3202	Applied Piano With Jr Recital	2
Saxophone		
SAXO 1201	Ind Performances-Saxophone	2
SAXO 3201	Ind Performances-Saxophone	2
SAXO 3202	Applied Saxophone W/ Jr Recitl	2
String Bass		
STBS 1201	Ind Performances-Strg Bass	2
STBS 3201	Ind Performances-Strg Bass	2
STBS 3202	Applied String Bass W/ Jr Rect	2
Trumpet		
TRMT 1201	Ind Performances-Trumpet	2
TRMT 3201	Ind Performances-Trumpet	2
TRMT 3202	Applied Trumpet W/ Jr Recital	2
Tuba		
TUBA 1201	Ind Performances-Tuba	2
TUBA 3201	Ind Performances-Tuba	2
TUBA 3202	Applied Tuba With Jr Recital	2
Trombone		
TRMB 1201	Ind Performances-Trombone	2
TRMB 3201	Ind Performances-Trombone	2
TRMB 3202	Applied Trombone W/ Jr Recital	2
Viola		
VIOL 1201	Ind Performances-Viola	2
VIOL 3201	Ind Performances-Viola	2
VIOL 3202	Applice Viola W/ Jr Recital	2
Violin		
VILN 1201	Individual Performances-Violin	2
VILN 3201	Individual Performances-Violin	2
VILN 3202	Applied Violin W/ Jr Recital	2
Voice		
VOIC 1201	Ind Performances-Voice	2
VOIC 3201	Ind Performances-Voice	2
VOIC 3202	Applied Voice With Jr Recital	2
Practicum – Early Childhood		
MUSI 3117	Practicum In Music Therapy I	1
Practicum – Special Needs		
MUSI 3118	Practicum In Music Therapy II	1
Practicum – Psychiatric/Geriatric		
MUSI 4110	Practicum In Music Therapy III	1
Practicum – Medical		
MUSI 4111	Practicum In Music Therapy IV	1

Applied Music Fees

Students enrolled in Applied Music Instruction are required to pay a fee at the time of registration on a per-course basis each semester:

Texas Resident		Nonresident	
Semester Hours	**Amount**	**Semester Hours**	**Amount**
2-hour course	$60.00	2-hour course	$60.00
4-hour course	$75.00	4-hour course	$75.00

There is no additional charge for use of practice rooms.

First Year

Fall	Hours	Spring	Hours
Component Area I	3	Component Area I	3
Component Area II	3	MUSI 1379[1]	3
COMP 1101	1	COMP 1101	1
MUEN XXXX (Large Ensemble)	1	MUEN XXXX (Large Ensemble)	1
MUSI 1222	2	MUSI 1182	1
MUSI 1224	2	MUSI 1223	2
MUSI 1181	1	MUSI 1225	2
XXXX 1201 Ind. Performances-Applied Lessons	2	XXXX 1201 Ind. Performances-Applied Lessons	2
	15		15

Second Year

Fall	Hours	Spring	Hours
Component Area III	4	Component Area VI	3
Component Area VI	3	Component Area VIII	3
COMP 1101	1	COMP 1101	1
MUSI 2181	1	MUSI 2223	2
MUSI 2222	2	MUSI 2348[2]	3
MUSI 2224	2	MUSI 2182	1
MUSI 2226	2	XXXX 1201 Ind. Performances-Applied Lessons	2
XXXX 1201 Ind. Performances-Applied Lessons	2		
	17		15

Third Year

Fall	Hours	Spring	Hours
Component Area VII	3	Component Area VII	3
COMP 3301	3	COMP 3301	3
MUEN XXXX (Large Ensemble)	1	MUEN XXXX (Large Ensemble)	1
MUSI 3376	3	MUSI 3377	3
MUSI 3363	3	MUSI 3362	3
XXXX 3201 Ind. Performances-Applied Lessons[3]	2	XXXX 3201 Ind. Performances-Applied Lessons[3]	2
	15		15

Fourth Year

Fall	Hours	Spring	Hours
Component Area III	4	Component Area IX	4
COMP 3301	3	COMP 3301	3
MUSI or MUEN Advanced Elective[4]	4	MUSI or MUEN Advanced Elective[4]	6
MUSI 4365	3	MUSI 4117	1
	14		14

Total Hours: 120

1 Satisfies the Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture) and in the Major Core.

2 Satisfies the Core Curriculum requirement for Component Area V (Creative Arts) and in the Major Core.

3 Students must pass the Sophomore Applied Proficiency before registering for upper-level applied lessons. This Proficiency may be taken up to 3 times.

4 Select 10 hours of the following: MUSI 3364, MUSI 3372, MUSI 4373, MUSI 4374, MUSI 4375, MUEN 3118 (New Music Ensemble, SCH I, May be repeated twice).

NOTES:

- Students should use the electives to complete the 42-advanced hour requirement for graduation.
- Completion of six semesters of Concert Attendance is required for graduation. See student handbook and/or contact the School of Music for details.

Bachelor of Music, Major in Music With Concentration: Instrumental Performance (BM PERI)

Bachelor of Music, Major in Music With Concentration: Instrumental Performance (BM PERI)

Code	Title	Hours
Bachelor of Music, Major in Music With Concentration: Instrumental Performance (BM PERI)- (non-keyboard)		
Core Curriculum		
Component Area I (Communication)		6
Component Area II (Mathematics)		3
Component Area III (Life and Physical Sciences)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4
Major Core		
MUSI 1222	Theory Of Music I	2
MUSI 1223	Theory Of Music II	2
MUSI 1224	Musicianship I	2
MUSI 1225	Musicianship II	2
MUSI 1379	Survey of World Music Cultures [1]	3
MUSI 2222	Theory Of Music III	2
MUSI 2223	Theory Of Music IV	2
MUSI 2224	Musicianship III	2
MUSI 2348	Survey of Music Literature [2]	3
MUSI 3363	Structure And Analysis	3
MUSI 3376	Mus His: Antiq through Baroque	3
MUSI 3377	Mus His: Classic to Present	3
Concentration		
XXXX 1201 Ind. Performances	Applied Lessons: Lower-Level	8
XXXX 3201 Ind. Performances	Applied Lessons: Upper-Level [3]	6
XXXX 3202 Ind. Performances	Applied Lessons with JR Recital [3]	2
MUSI 1181	Class Piano, Level 1	1
MUSI 1182	Class Piano, Level 2	1
MUSI 2181	Class Piano, Level 3	1
MUSI 2182	Class Piano, Level 4	1
MUSI 2226	Conducting I	2
MUSI 3362	Orchestration And Analysis	3
MUSI 4117	Recital	1
MUSI 4361	Tchq For Wind & String Instru	3
MUEN 1118	Chamber Music	1
MUEN 3118	Chamber Music	3
MUEN XXXX	Lower-Level Ensembles	4
MUEN XXXX	Upper-Level Ensembles	4

Advanced Music Electives		
MUSI 3364	Improvisation	3
or MUSI 4365	Counterpoint And Analysis	
Select 11 hours of the following:		11
MUSI 3367	Studies In Music For Children	
MUSI 4224	Conducting II	
MUSI 4365	Counterpoint And Analysis	
MUSI 4068	Independent Study	
MUSI 4374	20th Century Musical Styles	
Total Hours		120

1 MUSI 1379 satisfies the Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture) and in the Major Core.

2 MUSI 2348 satisfies the Core Curriculum requirement for Component Area V (Creative Arts) and in the Major Core.

3 Students must pass the Sophomore Applied Proficiency before registering for upper-level applied lessons. This Proficiency may be taken up to 3 times.

NOTES:

- Students should use the electives to complete the 42-advanced hour requirement for graduation.
- Completion of six semesters of Concert Attendance is required for graduation. See student handbook and/or contact the School of Music for details.

Ensembles

The following performance ensembles are open to all students of the university who qualify by audition:

Large Ensembles

Code	Title	Hours
Large Ensembles-		
Marching/Concert Band-for Wind and Percussion Students		
MUEN 1116/3116	Band	1
Wind Ensemble/Symphonic Band-for Wind and Percussion Students		
MUEN 2116/4116	Wind Ensemble	1
Orchestra-for String Students		
MUEN 1117/3117	Orchestra	1
Chorus-for Vocal Students		
MUEN 1111/3111	Mixed Chorus	1

Small Ensembles

No more than eight hours earned in large ensembles may be counted toward a degree. Small ensembles may be counted if approved by the ensemble director, studio instructor and the Director, School of Music.

Additional small ensembles, such as Jazz Ensemble, Opera Workshop, and Chamber Music are strongly encouraged for those who qualify by audition:

Code	Title	Hours
Small Ensembles		
Jazz Ensemble		
MUEN 1115/3115	Jazz Band	1
Opera Workshop		
MUEN 1119/3119	Opera Workshop	1
Chamber Music (smaller instrumental groups, including piano trios, string quartets, guitar ensemble, percussion ensemble, etc.)		
MUEN 1118/3118	Chamber Music	1
Keyboard Skills and Collaborative Techniques-for Keyboard performance major students only		
MUEN 1110/3110	Keyboard Skills & Collab Techn	1

Ensembles

- Music majors should enroll in at least one ensemble each semester they are enrolled as full-time students (except the student teaching semester).

- Students enrolled in studio instruction should be concurrently enrolled in an ensemble.
- Jazz Ensemble will not normally be considered to be the major ensemble for graduation hours.
- Students should not be enrolled in more than 2 ensembles per semester.
- Music Therapy majors must participate in 6 semesters of ensemble.

NOTE: Modifications or exceptions may be made in rare or unusual circumstances, but require approval by the Director, School of Music in coordination with ensemble directors and studio instructors.

Marching Band (for Wind and Percussion students)

- Students in the BM ALIN (instrumental) Teacher Certification program are required to be in Marching Band for 3 semesters.
- Music Performance Majors are required to be in Marching Band for 2 semesters.
- Music Therapy Majors, music minors, and non-majors are encouraged to participate in Marching Band.

For information regarding Common Course numbers for Ensemble, please refer to the Common Course listing in this catalog.

Ind. Performances/Applied Music Instruction and Practicums (Music Therapy)

Code	Title	Hours
Applied Music Instruction (Instrument, Voice, Music Therapy Practicum)		
Bassoon		
BSSN 1201	Ind Performances-Bassoon	2
BSSN 3201	Ind Performances-Bassoon	2
BSSN 3202	Applied Bassoon W/ Jr Recital	2
Cello		
VNCL 1201	Ind Performances-Violncello	2
VNCL 3201	Ind Performances-Violncello	2
VNCL 3202	Applied Cello W/ Jr Recital	2
Clarinet		
CLAR 1201	Ind Performances-Clarinet	2
CLAR 3201	Ind Performances-Clarinet	2
CLAR 3202	Applied Clarinet W/ Jr Recital	2
Composition		
COMP 1101	Applied Composition I	1
COMP 3301	Applied Composition II	3
Euphonium		
EUPH 1201	Ind Performances-Euphonium	2
EUPH 3201	Ind Performances-Euphonium	2
EUPH 3202	Applied Euphonium w/Jr Rectl	2
Flute		
FLUT 1201	Ind Performances-Flute	2
FLUT 3201	Ind Performances-Flute	2
FLUT 3202	Applied Flute W/ Jr Recital	2
French Horn		
HORN 1201	Ind Performances-Frnch Horn	2
HORN 3201	Ind Performances-Frnch Horn	2
HORN 3202	Applied Horn With Jr Recital	2
Guitar		
GUIT 1201	Ind Performances-Guitar	2
GUIT 3201	Ind Performances-Guitar	2
GUIT 3202	Applied Guitar W/ Jr Recital	2
Harp		
HARP 1201	Harp	2
HARP 3201	Harp	2
HARP 3202	Applied Harp W/ Jr Recital	2
Oboe		

OBOE 1201	Ind Performances-Oboe	2
OBOE 3201	Ind Performances-Oboe	2
OBOE 3202	Applied Oboe With Jr Recital	2
Organ		
ORGN 1201	Ind Performances-Organ	2
ORGN 3201	Ind Performances-Organ I	2
ORGN 3202	Applied Organ With Jr Recital	2
Percussion		
PERC 1201	Ind Performances-Percussion	2
PERC 3201	Ind Performances-Percussion	2
PERC 3202	Applied Percussion W/ Jr Rectl	2
Piano		
PIAN 1201	Ind Performances-Piano	2
PIAN 3201	Ind Performances-Piano	2
PIAN 3202	Applied Piano With Jr Recital	2
Saxophone		
SAXO 1201	Ind Performances-Saxophone	2
SAXO 3201	Ind Performances-Saxophone	2
SAXO 3202	Applied Saxophone W/ Jr Recitl	2
String Bass		
STBS 1201	Ind Performances-Strg Bass	2
STBS 3201	Ind Performances-Strg Bass	2
STBS 3202	Applied String Bass W/ Jr Rect	2
Trumpet		
TRMT 1201	Ind Performances-Trumpet	2
TRMT 3201	Ind Performances-Trumpet	2
TRMT 3202	Applied Trumpet W/ Jr Recital	2
Tuba		
TUBA 1201	Ind Performances-Tuba	2
TUBA 3201	Ind Performances-Tuba	2
TUBA 3202	Applied Tuba With Jr Recital	2
Trombone		
TRMB 1201	Ind Performances-Trombone	2
TRMB 3201	Ind Performances-Trombone	2
TRMB 3202	Applied Trombone W/ Jr Recital	2
Viola		
VIOL 1201	Ind Performances-Viola	2
VIOL 3201	Ind Performances-Viola	2
VIOL 3202	Applice Viola W/ Jr Recital	2
Violin		
VILN 1201	Individual Performances-Violin	2
VILN 3201	Individual Performances-Violin	2
VILN 3202	Applied Violin W/ Jr Recital	2
Voice		
VOIC 1201	Ind Performances-Voice	2
VOIC 3201	Ind Performances-Voice	2
VOIC 3202	Applied Voice With Jr Recital	2
Practicum – Early Childhood		
MUSI 3117	Practicum In Music Therapy I	1
Practicum – Special Needs		
MUSI 3118	Practicum In Music Therapy II	1
Practicum – Psychiatric/Geriatric		

MUSI 4110	Practicum In Music Therapy III	1
Practicum – Medical		
MUSI 4111	Practicum In Music Therapy IV	1

Applied Music Fees

Students enrolled in Applied Music Instruction are required to pay a fee at the time of registration on a per-course basis each semester:

Texas Resident		Nonresident	
Semester Hours	**Amount**	**Semester Hours**	**Amount**
2-hour course	$60.00	2-hour course	$60.00
4-hour course	$75.00	4-hour course	$75.00

There is no additional charge for use of practice rooms.

First Year

Fall	Hours	Spring	Hours
Component Area I	3	Component Area I	3
Component Area II	3	Component Area VI	3
MUSI 1181	1	MUSI 1379[1]	3
MUSI 1222	2	MUSI 1223	2
MUSI 1224	2	MUSI 1225	2
MUEN XXXX Lower-Level Ensemble	1	MUSI 1182	1
XXXX 1201 Ind. Performances-Applied Lessons	2	MUEN XXXX Lower-Level Ensemble	1
		XXXX 1201 Ind. Performances-Applied Lessons	2
	14		17

Second Year

Fall	Hours	Spring	Hours
Component Area III	4	Component Area VII	3
MUSI 2181	1	Component Area VIII	3
MUSI 2222	2	MUEN 1118	1
MUSI 2224	2	MUSI 2223	2
MUSI 2226	2	MUSI 3376	3
MUSI 2348[2]	3	MUSI 2182	1
MUEN XXXX Lower-Level Ensemble	1	MUEN XXXX Lower-Level Ensemble	1
XXXX 1201 Ind. Performances-Applied Lessons	2	XXXX 1201 Ind. Performances-Applied Lessons	2
	17		16

Third Year

Fall	Hours	Spring	Hours
Component Area IX	1	Component Area VII	3
Advanced MUSI Elective[3]	3	Advanced MUSI Elective[3]	3
MUEN 3118	1	MUEN 3118	1
MUSI 3363	3	MUSI 3362	3
MUSI 3377	3	MUSI 3364 or 4365	3
MUEN XXXX Upper-Level Ensemble	1	MUEN XXXX Upper-Level Ensemble	1
XXXX 3201 Ind. Performances-Applied Lessons[4]	2	XXXX 3202 Ind. Performances-Applied Lessons with Junior Recital[4]	2
	14		16

Fourth Year

Fall	Hours	Spring	Hours
Component Area VI	3	Component Area III	4
Component Area IX	3	Advanced MUSI Electives[3]	2
Advanced MUSI Electives[3]	3	MUSI 4361	3
MUEN 3118	1	MUSI 4117	1
MUEN XXXX Upper-Level Ensemble	1	MUEN XXXX Upper-Level Ensemble	1

XXXX 3201 Ind. Performances-Applied Lessons[4]	2 XXXX 3201 Ind. Performances-Applied Lessons[4]	2
	13	13

Total Hours: 120

1 MUSI 1379 satisfies the Core Curriculum requirement for Component Area IV(Language, Philosophy, and Culture) and in the Major Core.

2 MUSI 2348 satisfies the Core Curriculum requirement for Component Area V (Creative Arts) and in the Major Core.

3 Advanced MUSI electives select of the following: MUSI 3367, MUSI 4068, MUSI 4224 MUSI 4365 MUSI 4374

4 Students must pass the Sophomore Applied Proficiency before registering for upper-level applied lessons. This Proficiency may be taken up to 3 times.

NOTE: Completion of six semesters of Concert Attendance is required for graduation. See student handbook and/or contact the School of Music for details.

Bachelor of Music, Major in Music With Concentration: Piano Performance (BM PERP)

Bachelor of Music, Major in Music With Concentration: Piano Performance (BM PERP)

Code	Title	Hours
Bachelor of Music, Major in Music With Concentration: Piano Performance (BM PERP)		
Core Curriculum		
Component Area I (Communication)		6
Component Area II (Mathematics)		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Componenty Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4
Major Core		
MUSI 1222	Theory Of Music I	2
MUSI 1223	Theory Of Music II	2
MUSI 1224	Musicianship I	2
MUSI 1225	Musicianship II	2
MUSI 1379	Survey of World Music Cultures [1]	3
MUSI 2348	Survey of Music Literature [2]	3
MUSI 2222	Theory Of Music III	2
MUSI 2223	Theory Of Music IV	2
MUSI 2224	Musicianship III	2
MUSI 3363	Structure And Analysis	3
MUSI 3376	Mus His: Antiq through Baroque	3
MUSI 3377	Mus His: Classic to Present	3
Concentration		
PIAN 1201	Ind Performances-Piano (Taken four semesters)	8
PIAN 3201	Ind Performances-Piano (Taken three semesters) [3]	6
PIAN 3202	Applied Piano With Jr Recital [3]	2
MUEN 1110	Keyboard Skills & Collab Techn (Taken four semesters)	4
MUEN 1118/3118	Chamber Music	2
MUEN 3110	Collaborative Piano Chambr Mus (Taken three semesters.)	3
MUSI 2226	Conducting I	2
MUSI 3382	Survey Of Keyboard Literature	3
MUSI 4117	Recital	1
MUSI 4322	Keyboard Pedagogy I	3

MUSI 4365	Counterpoint And Analysis	3
Select 18 hours of the following Advanced Electives:		18
MUSI 3362	Orchestration And Analysis	
MUSI 3364	Improvisation	
MUSI 3381	Song History & Literature	
MUSI 3383	Advanced Keyboard Literature	
MUSI 4224	Conducting II	
MUSI 4384	Adv Keyboard Sightreading	
MUSI 4385	Advanced Keyboard Harmony	
MUEN 1118/3118	Chamber Music (repeatable)	
Total Hours		120

[1] MUSI 1379 satisfies the Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture) and in the Major Core.

[2] MUSI 2348 satisfies the Core Curriculum requirement for Component Area V (Creative Arts) and in the Major Core.

[3] Students must pass the Sophomore Applied Proficiency before registering for upper-level applied lessons. This Proficiency may be taken up to 3 times.

NOTES:

- Students should use the electives to complete the 42-advanced hour requirement for graduation.
- Completion of six semesters of Concert Attendance is required for graduation. See student handbook and/or contact the School of Music for details.

Ensembles

The following performance ensembles are open to all students of the university who qualify by audition:

Large Ensembles

Code	Title	Hours
Large Ensembles-		
Marching/Concert Band-for Wind and Percussion Students		
MUEN 1116/3116	Band	1
Wind Ensemble/Symphonic Band-for Wind and Percussion Students		
MUEN 2116/4116	Wind Ensemble	1
Orchestra-for String Students		
MUEN 1117/3117	Orchestra	1
Chorus-for Vocal Students		
MUEN 1111/3111	Mixed Chorus	1

Small Ensembles

No more than eight hours earned in large ensembles may be counted toward a degree. Small ensembles may be counted if approved by the ensemble director, studio instructor and the Director, School of Music.

Additional small ensembles, such as Jazz Ensemble, Opera Workshop, and Chamber Music are strongly encouraged for those who qualify by audition:

Code	Title	Hours
Small Ensembles		
Jazz Ensemble		
MUEN 1115/3115	Jazz Band	1
Opera Workshop		
MUEN 1119/3119	Opera Workshop	1
Chamber Music (smaller instrumental groups, including piano trios, string quartets, guitar ensemble, percussion ensemble, etc.)		
MUEN 1118/3118	Chamber Music	1
Keyboard Skills and Collaborative Techniques-for Keyboard performance major students only		
MUEN 1110/3110	Keyboard Skills & Collab Techn	1

Ensembles

- Music majors should enroll in at least one ensemble each semester they are enrolled as full-time students (except the student teaching semester).
- Students enrolled in studio instruction should be concurrently enrolled in an ensemble.
- Jazz Ensemble will not normally be considered to be the major ensemble for graduation hours.
- Students should not be enrolled in more than 2 ensembles per semester.
- Music Therapy majors must participate in 6 semesters of ensemble.

NOTE: Modifications or exceptions may be made in rare or unusual circumstances, but require approval by the Director, School of Music in coordination with ensemble directors and studio instructors.

Marching Band (for Wind and Percussion students)

- Students in the BM ALIN (instrumental) Teacher Certification program are required to be in Marching Band for 3 semesters.
- Music Performance Majors are required to be in Marching Band for 2 semesters.
- Music Therapy Majors, music minors, and non-majors are encouraged to participate in Marching Band.

For information regarding Common Course numbers for Ensemble, please refer to the Common Course listing in this catalog.

Ind. Performances/Applied Music Instruction and Practicums (Music Therapy)

Code	Title	Hours
Applied Music Instruction (Instrument, Voice, Music Therapy Practicum)		
Bassoon		
BSSN 1201	Ind Performances-Bassoon	2
BSSN 3201	Ind Performances-Bassoon	2
BSSN 3202	Applied Bassoon W/ Jr Recital	2
Cello		
VNCL 1201	Ind Performances-Violncello	2
VNCL 3201	Ind Performances-Violncello	2
VNCL 3202	Applied Cello W/ Jr Recital	2
Clarinet		
CLAR 1201	Ind Performances-Clarinet	2
CLAR 3201	Ind Performances-Clarinet	2
CLAR 3202	Applied Clarinet W/ Jr Recital	2
Composition		
COMP 1101	Applied Composition I	1
COMP 3301	Applied Composition II	3
Euphonium		
EUPH 1201	Ind Performances-Euphonium	2
EUPH 3201	Ind Performances-Euphonium	2
EUPH 3202	Applied Euphonium w/Jr Rectl	2
Flute		
FLUT 1201	Ind Performances-Flute	2
FLUT 3201	Ind Performances-Flute	2
FLUT 3202	Applied Flute W/ Jr Recital	2
French Horn		
HORN 1201	Ind Performances-Frnch Horn	2
HORN 3201	Ind Performances-Frnch Horn	2
HORN 3202	Applied Horn With Jr Recital	2
Guitar		
GUIT 1201	Ind Performances-Guitar	2
GUIT 3201	Ind Performances-Guitar	2
GUIT 3202	Applied Guitar W/ Jr Recital	2
Harp		
HARP 1201	Harp	2
HARP 3201	Harp	2

HARP 3202	Applied Harp W/ Jr Recital	2
Oboe		
OBOE 1201	Ind Performances-Oboe	2
OBOE 3201	Ind Performances-Oboe	2
OBOE 3202	Applied Oboe With Jr Recital	2
Organ		
ORGN 1201	Ind Performances-Organ	2
ORGN 3201	Ind Performances-Organ I	2
ORGN 3202	Applied Organ With Jr Recital	2
Percussion		
PERC 1201	Ind Performances-Percussion	2
PERC 3201	Ind Performances-Percussion	2
PERC 3202	Applied Percussion W/ Jr Rectl	2
Piano		
PIAN 1201	Ind Performances-Piano	2
PIAN 3201	Ind Performances-Piano	2
PIAN 3202	Applied Piano With Jr Recital	2
Saxophone		
SAXO 1201	Ind Performances-Saxophone	2
SAXO 3201	Ind Performances-Saxophone	2
SAXO 3202	Applied Saxophone W/ Jr Recitl	2
String Bass		
STBS 1201	Ind Performances-Strg Bass	2
STBS 3201	Ind Performances-Strg Bass	2
STBS 3202	Applied String Bass W/ Jr Rect	2
Trumpet		
TRMT 1201	Ind Performances-Trumpet	2
TRMT 3201	Ind Performances-Trumpet	2
TRMT 3202	Applied Trumpet W/ Jr Recital	2
Tuba		
TUBA 1201	Ind Performances-Tuba	2
TUBA 3201	Ind Performances-Tuba	2
TUBA 3202	Applied Tuba With Jr Recital	2
Trombone		
TRMB 1201	Ind Performances-Trombone	2
TRMB 3201	Ind Performances-Trombone	2
TRMB 3202	Applied Trombone W/ Jr Recital	2
Viola		
VIOL 1201	Ind Performances-Viola	2
VIOL 3201	Ind Performances-Viola	2
VIOL 3202	Applice Viola W/ Jr Recital	2
Violin		
VILN 1201	Individual Performances-Violin	2
VILN 3201	Individual Performances-Violin	2
VILN 3202	Applied Violin W/ Jr Recital	2
Voice		
VOIC 1201	Ind Performances-Voice	2
VOIC 3201	Ind Performances-Voice	2
VOIC 3202	Applied Voice With Jr Recital	2
Practicum – Early Childhood		
MUSI 3117	Practicum In Music Therapy I	1
Practicum – Special Needs		

MUSI 3118	Practicum In Music Therapy II	1
Practicum – Psychiatric/Geriatric		
MUSI 4110	Practicum In Music Therapy III	1
Practicum – Medical		
MUSI 4111	Practicum In Music Therapy IV	1

Applied Music Fees

Students enrolled in Applied Music Instruction are required to pay a fee at the time of registration on a per-course basis each semester:

Texas Resident		Nonresident	
Semester Hours	**Amount**	**Semester Hours**	**Amount**
2-hour course	$60.00	2-hour course	$60.00
4-hour course	$75.00	4-hour course	$75.00

There is no additional charge for use of practice rooms.

First Year

Fall	Hours	Spring	Hours
Component Area I	3	Component Area I	3
Component Area II	3	Component Area VI	3
Component Area IX	1	MUEN 1110	1
MUEN 1110	1	MUSI 1223	2
MUSI 1222	2	MUSI 1225	2
MUSI 1224	2	PIAN 1201	2
PIAN 1201	2	MUSI 1379[1]	3
	14		16

Second Year

Fall	Hours	Spring	Hours
Component Area III	4	Component Area VII	3
MUEN 1110	1	Component Area VIII	3
MUSI 2222	2	MUSI 2223	2
MUSI 2224	2	MUSI 3376	3
MUSI 2226	2	MUEN 1110	1
MUSI 2348[2]	3	PIAN 1201	2
PIAN 1201	2		
	16		14

Third Year

Fall	Hours	Spring	Hours
Advanced Music Elective[3]	3	Component Area VI	3
MUEN 3110	1	Component Area VII	3
MUSI 3363	3	Advanced Music Elective[3]	6
MUSI 3377	3	MUEN 1118	1
MUSI 4322	3	PIAN 3202[4]	2
PIAN 3201[4]	2		
	15		15

Fourth Year

Fall	Hours	Spring	Hours
Component Area IX	3	Component Area III	4
Advanced Music Elective[3]	6	Advanced Music Elective[3]	3
MUEN 3110	1	MUEN 3110	1
MUEN 3118	1	MUSI 4117	1
MUSI 3382	3	MUSI 4365	3

PIAN 3201[4]	2 PIAN 3201[4]	2
	16	14

Total Hours: 120

1 MUSI 1379 satisfies the Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture) and in the Major Core.

2 MUSI 2348 satisfies the Core Curriculum requirement for Component Area V (Creative Arts) and in the Major Core.

3 Advanced Music electives select of the following: MUSI 3118, MUSI 3362, MUSI 3364, MUSI 3381, MUSI 4224, MUSI 4384, MUSI 4385.

4 Students must pass the Sophomore Applied Proficiency before registering for upper-level applied lessons. This Proficiency may be taken up to 3 times.

NOTE: Completion of six semesters of Concert Attendance is required for graduation. See student handbook and/or contact the School of Music for details.

Bachelor of Music, Major in Music With Concentration: Vocal Performance (BM PERV)

Bachelor of Music, Major in Music With Concentration: Vocal Performance (BM PERV)

Code	Title	Hours
Bachelor of Music, Major in Music With Concentration: Vocal Performance (BM PERV)		
Core Curriculum		
Component Area I (Communication)		6
Component Area II (Mathematics)		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4
Major Core		
MUSI 1222	Theory Of Music I	2
MUSI 1223	Theory Of Music II	2
MUSI 1224	Musicianship I	2
MUSI 1225	Musicianship II	2
MUSI 1379	Survey of World Music Cultures [1]	3
MUSI 2222	Theory Of Music III	2
MUSI 2223	Theory Of Music IV	2
MUSI 2224	Musicianship III	2
MUSI 2348	Survey of Music Literature [2]	3
MUSI 3363	Structure And Analysis	3
MUSI 3376	Mus His: Antiq through Baroque	3
MUSI 3377	Mus His: Classic to Present	3
Concentration		
VOIC 1201	Ind Performances-Voice (Taken four semesters)	8
VOIC 3201	Ind Performances-Voice (Taken three semesters) [3]	6
VOIC 3202	Applied Voice With Jr Recital [3]	2
Lower Level Ensembles (in addition to MUEN 1119)		4
Advanced Ensembles (in addition to MUEN 3119)		4
MUSI 1181	Class Piano, Level 1	1
MUSI 1182	Class Piano, Level 2	1
MUSI 2181	Class Piano, Level 3	1
MUSI 1160	Singer's Diction:Eng & Italian	1
MUSI 2161	Singer's Diction - French	1

MUSI 2160	Singer's Diction:German	1
MUSI 3381	Song History & Literature	3
MUSI 4362	Vocal Pedagogy & Techniques	3
MUSI 4117	Recital	1
MUEN 1119	Opera Workshop	1
MUEN 3119	Opera Workshop	7
Select 10 hours of the following electives or others approved by advisor: (a minimum of 7 hours must be advanced credits)		10
MUSI 2226	Conducting I	
MUEN 3118	Chamber Music (repeatable)	
MUSI 3362	Orchestration And Analysis	
MUSI 3380	Opera Literature	
MUSI 4224	Conducting II	
Foreign Language		8
Total Hours		128

[1] MUSI 1379 satisfies the Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture) and in the Major Core.

[2] MUSI 2348 satisfies the Core Curriculum requirement for Component Area V (Creative Arts) and in the Major Core.

[3] Students must pass the Sophomore Applied Proficiency before registering for upper-level applied lessons. This Proficiency may be taken up to 3 times.

NOTES:

- Students should use the electives to complete the 42 advanced hour requirement for graduation.
- Completion of six semesters of Concert Attendance is required for graduation. See student handbook and/or contact the School of Music for details.

Ensembles

The following performance ensembles are open to all students of the university who qualify by audition:

Large Ensembles

Code	Title	Hours
Large Ensembles-		
Marching/Concert Band-for Wind and Percussion Students		
MUEN 1116/3116	Band	1
Wind Ensemble/Symphonic Band-for Wind and Percussion Students		
MUEN 2116/4116	Wind Ensemble	1
Orchestra-for String Students		
MUEN 1117/3117	Orchestra	1
Chorus-for Vocal Students		
MUEN 1111/3111	Mixed Chorus	1

Small Ensembles

No more than eight hours earned in large ensembles may be counted toward a degree. Small ensembles may be counted if approved by the ensemble director, studio instructor and the Director, School of Music.

Additional small ensembles, such as Jazz Ensemble, Opera Workshop, and Chamber Music are strongly encouraged for those who qualify by audition:

Code	Title	Hours
Small Ensembles		
Jazz Ensemble		
MUEN 1115/3115	Jazz Band	1
Opera Workshop		
MUEN 1119/3119	Opera Workshop	1
Chamber Music (smaller instrumental groups, including piano trios, string quartets, guitar ensemble, percussion ensemble, etc.)		
MUEN 1118/3118	Chamber Music	1
Keyboard Skills and Collaborative Techniques-for Keyboard performance major students only		

MUEN 1110/3110	Keyboard Skills & Collab Techn	1

Ensembles

- Music majors should enroll in at least one ensemble each semester they are enrolled as full-time students (except the student teaching semester).
- Students enrolled in studio instruction should be concurrently enrolled in an ensemble.
- Jazz Ensemble will not normally be considered to be the major ensemble for graduation hours.
- Students should not be enrolled in more than 2 ensembles per semester.
- Music Therapy majors must participate in 6 semesters of ensemble.

NOTE: Modifications or exceptions may be made in rare or unusual circumstances, but require approval by the Director, School of Music in coordination with ensemble directors and studio instructors.

Marching Band (for Wind and Percussion students)

- Students in the BM ALIN (instrumental) Teacher Certification program are required to be in Marching Band for 3 semesters.
- Music Performance Majors are required to be in Marching Band for 2 semesters.
- Music Therapy Majors, music minors, and non-majors are encouraged to participate in Marching Band.

For information regarding Common Course numbers for Ensemble, please refer to the Common Course listing in this catalog.

Ind. Performances/Applied Music Instruction and Practicums (Music Therapy)

Code	Title	Hours
Applied Music Instruction (Instrument, Voice, Music Therapy Practicum)		
Bassoon		
BSSN 1201	Ind Performances-Bassoon	2
BSSN 3201	Ind Performances-Bassoon	2
BSSN 3202	Applied Bassoon W/ Jr Recital	2
Cello		
VNCL 1201	Ind Performances-Violncello	2
VNCL 3201	Ind Performances-Violncello	2
VNCL 3202	Applied Cello W/ Jr Recital	2
Clarinet		
CLAR 1201	Ind Performances-Clarinet	2
CLAR 3201	Ind Performances-Clarinet	2
CLAR 3202	Applied Clarinet W/ Jr Recital	2
Composition		
COMP 1101	Applied Composition I	1
COMP 3301	Applied Composition II	3
Euphonium		
EUPH 1201	Ind Performances-Euphonium	2
EUPH 3201	Ind Performances-Euphonium	2
EUPH 3202	Applied Euphonium w/Jr Rectl	2
Flute		
FLUT 1201	Ind Performances-Flute	2
FLUT 3201	Ind Performances-Flute	2
FLUT 3202	Applied Flute W/ Jr Recital	2
French Horn		
HORN 1201	Ind Performances-Frnch Horn	2
HORN 3201	Ind Performances-Frnch Horn	2
HORN 3202	Applied Horn With Jr Recital	2
Guitar		
GUIT 1201	Ind Performances-Guitar	2
GUIT 3201	Ind Performances-Guitar	2
GUIT 3202	Applied Guitar W/ Jr Recital	2
Harp		

HARP 1201	Harp	2
HARP 3201	Harp	2
HARP 3202	Applied Harp W/ Jr Recital	2
Oboe		
OBOE 1201	Ind Performances-Oboe	2
OBOE 3201	Ind Performances-Oboe	2
OBOE 3202	Applied Oboe With Jr Recital	2
Organ		
ORGN 1201	Ind Performances-Organ	2
ORGN 3201	Ind Performances-Organ I	2
ORGN 3202	Applied Organ With Jr Recital	2
Percussion		
PERC 1201	Ind Performances-Percussion	2
PERC 3201	Ind Performances-Percussion	2
PERC 3202	Applied Percussion W/ Jr Rectl	2
Piano		
PIAN 1201	Ind Performances-Piano	2
PIAN 3201	Ind Performances-Piano	2
PIAN 3202	Applied Piano With Jr Recital	2
Saxophone		
SAXO 1201	Ind Performances-Saxophone	2
SAXO 3201	Ind Performances-Saxophone	2
SAXO 3202	Applied Saxophone W/ Jr Recitl	2
String Bass		
STBS 1201	Ind Performances-Strg Bass	2
STBS 3201	Ind Performances-Strg Bass	2
STBS 3202	Applied String Bass W/ Jr Rect	2
Trumpet		
TRMT 1201	Ind Performances-Trumpet	2
TRMT 3201	Ind Performances-Trumpet	2
TRMT 3202	Applied Trumpet W/ Jr Recital	2
Tuba		
TUBA 1201	Ind Performances-Tuba	2
TUBA 3201	Ind Performances-Tuba	2
TUBA 3202	Applied Tuba With Jr Recital	2
Trombone		
TRMB 1201	Ind Performances-Trombone	2
TRMB 3201	Ind Performances-Trombone	2
TRMB 3202	Applied Trombone W/ Jr Recital	2
Viola		
VIOL 1201	Ind Performances-Viola	2
VIOL 3201	Ind Performances-Viola	2
VIOL 3202	Applice Viola W/ Jr Recital	2
Violin		
VILN 1201	Individual Performances-Violin	2
VILN 3201	Individual Performances-Violin	2
VILN 3202	Applied Violin W/ Jr Recital	2
Voice		
VOIC 1201	Ind Performances-Voice	2
VOIC 3201	Ind Performances-Voice	2
VOIC 3202	Applied Voice With Jr Recital	2
Practicum – Early Childhood		

MUSI 3117	Practicum In Music Therapy I	1
Practicum – Special Needs		
MUSI 3118	Practicum In Music Therapy II	1
Practicum – Psychiatric/Geriatric		
MUSI 4110	Practicum In Music Therapy III	1
Practicum – Medical		
MUSI 4111	Practicum In Music Therapy IV	1

Applied Music Fees

Students enrolled in Applied Music Instruction are required to pay a fee at the time of registration on a per-course basis each semester:

Texas Resident		Nonresident	
Semester Hours	**Amount**	**Semester Hours**	**Amount**
2-hour course	$60.00	2-hour course	$60.00
4-hour course	$75.00	4-hour course	$75.00

There is no additional charge for use of practice rooms.

First Year

Fall	Hours	Spring	Hours
Component Area I	3	Component Area I	3
Component Area II	3	Component Area IX	1
MUEN 1111	1	MUSI 1379[1]	3
MUEN 1119	1	MUEN 1111	1
MUSI 1160	1	MUEN 3119	1
MUSI 1181	1	MUSI 1182	1
MUSI 1222	2	MUSI 1223	2
MUSI 1224	2	MUSI 1225	2
VOIC 1201	2	MUSI 2160	1
		VOIC 1201	2
	16		17

Second Year

Fall	Hours	Spring	Hours
Component Area III	4	Component Area VI	3
Foreign Language	4	Foreign Language	4
MUEN 1111	1	MUEN 1111	1
MUEN 3119	1	MUEN 3119	1
MUSI 2161	1	MUSI 2223	2
MUSI 2181	1	MUSI 2348[2]	3
MUSI 2222	2	VOIC 1201	2
MUSI 2224	2		
VOIC 1201	2		
	18		16

Third Year

Fall	Hours	Spring	Hours
Component Area VI	3	Component Area VII	3
Music Elective (see adv. level requirement)[3]	3	Music Elective (see adv. level requirement)[3]	3
MUEN 3111	1	MUSI 4362	3
MUEN 3119	1	MUSI 3377	3
MUSI 3363 or 3381	3	MUEN 3111	1
MUSI 3376	3	MUEN 3119	1
VOIC 3201[4]	2	VOIC 3202[4]	2
	16		16

Fourth Year			
Fall	**Hours**	**Spring**	**Hours**
Component Area III	4	Component Area VIII	3
Component Area VII	3	Component Area IX	3
Music Elective (see adv. level requirement)[3]	1	Music Elective (see adv. level requirement)[3]	3
MUEN 3111	1	MUEN 3111	1
MUEN 3119	1	MUEN 3119	1
MUSI 3381 or 3363	3	MUSI 4117	1
VOIC 3201[4]	2	VOIC 3201[4]	2
	15		14

Total Hours: 128

1 MUSI 1379 satisfies the Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture) and in the Major Core.

2 MUSI 2348 satisfies the Core Curriculum requirement for Component Area V (Creative Arts) and in the Major Core.

3 Music electives (at least 7 of 10 SCH must be advanced) select of the following:, MUSI 2226, MUEN 3118, MUSI 3362, MUSI 3380, MUSI 4224.

4 Students must pass the Sophomore Applied Proficiency before registering for upper-level applied lessons. This Proficiency may be taken up to 3 times.

Notes

- Students should use the electives to complete the 42 advanced hour requirement for graduation.
- Advanced foreign language courses are strongly encouraged.
- Completion of six semesters of Concert Attendance is required for graduation. See student handbook and/or contact the School of Music for details.

Bachelor of Music, Major in Music Therapy (MUST)

Bachelor of Music, Major in Music Therapy (MUST)

The music therapy curriculum prepares the student for a career as a music therapist and the requisite professional certification. A one-semester internship (6 semester credit hours) is required.

Code	Title	Hours
Bachelor of Music - Major in Music Therapy (MUST)		
Core Curriculum: 42 hours		
Component Area I (Communication)		6
Component Area II (Mathematics)		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4
Music Core (for Music Therapy majors): 25 hours		
MUSI 1222	Theory Of Music I	2
MUSI 1223	Theory Of Music II	2
MUSI 1224	Musicianship I	2
MUSI 1225	Musicianship II	2
MUSI 1379	Survey of World Music Cultures [1]	3
MUSI 2222	Theory Of Music III	2
MUSI 2223	Theory Of Music IV	2
MUSI 2224	Musicianship III	2
MUSI 2226	Conducting I	2
MUSI 2348	Survey of Music Literature [2]	3
MUSI 3376	Mus His: Antiq through Baroque	3

or MUSI 3377	Mus His: Classic to Present	
Music Courses and Music Therapy Courses (for Music Therapy Majors): 66 hours		
XXXX 1201	Ind. Performances (Lower-Level Applied Lessons-SCH 2)	8
XXXX 3201	Ind. Performances (Advanced-Level Applied Lessons-SCH 2) [3]	4
MUEN XXXX	Lower-Level Ensemble	4
MUEN XXXX	Upper-Level Ensemble	2
Select a minimum of 7 hours depending on concentrate (see advisor) [4]		7
MUSI 1181	Class Piano, Level 1	
MUSI 1182	Class Piano, Level 2	
MUSI 2181	Class Piano, Level 3	
MUSI 1303	Fund Of Guitar	
MUSI 1304	Fundamentals Of Singing	
MUSI 3110	Study Of Percussion	
MUSI 2338	Intro Music Therapy	3
MUSI 2339	Psychology Of Music	3
Select 4 hours from the following with advisor approval: [5]		4
MUSI 3117	Practicum In Music Therapy I [5]	
MUSI 3118	Practicum In Music Therapy II [5]	
MUSI 4110	Practicum In Music Therapy III [5]	
MUSI 4111	Practicum In Music Therapy IV [5]	
MUSI 3336	Instr Skills Mus Therapy Set	3
MUSI 3337	Instr Skills Music Thrpy SetII	3
MUSI 3365	Obser & Measure Mus Therapy	3
MUSI 3366	Mus Therapy Tchnq I	3
MUSI 4395	Mus Therapy Tchnq II	3
MUSI 4396	Mus Therapy Tchnq III	3
MUSI 4397	Internship In Music Therapy (Internship)	3
MUSI 4398	Internship In Music Therapy (Internship)	3
Select 3 hours of upper-level hours from MUSI, MUEN, PSYC, or other course with Music Therapy advisor approval		3
Clinical Foundation Courses (Required for American Music Therapy Assocication): 13 hours		
BIOL 2401	Human Anatomy [6]	4
PSYC 1301	Introduction To Psychology [7]	3
PSYC 3331	Abnormal Psychology	3
PSYC 3374	Development Psychology	3
Total Hours		129

1 MUSI 1379 satisfies the requirement for Component Area IV (Language, Philosophy, and Culture) in the Core Curriculum.

2 MUSI 2348 satisfies the requirement for Component Area V (Creative Arts) in the Core Curriculum.

3 Students must pass the Sophomore Applied Proficiency before registering for upper-level applied lessons. This Proficiency may be taken up to 3 times.

4 Depending on concentrate, all Music Therapy majors take a minimum of 7 hours of Instrumental/Singing fundamental courses. See advisor.

5 Music Therapy students must pass the Practicum Readiness Evaluation before beginning the practicum sequence. This evaluation may be taken up to 3 times.

6 BIOL 2401 satisfies the requirements for Component Area III (Life and Physical Science) in the Core Curriculum.

7 PSYC 1301 satisfies the requirement for Component Area VIII (Social and Behavioral Sciences) in the Core Curriculum.

Notes:

- Students should use elective courses and/or a minor (if applicable) to complete the 42 advanced-hour requirement for graduation.
- Music Therapy students must pass the Practicum Readiness Evaluation before beginning the practicum sequence. This evaluation may be taken up to 3 times.
- Completion of six semesters of Concert Attendance is required for graduation. See student handbook and/or contact the School of Music for details.

Ensembles

The following performance ensembles are open to all students of the university who qualify by audition:

Large Ensembles

Code	Title	Hours
Large Ensembles-		
Marching/Concert Band-for Wind and Percussion Students		
MUEN 1116/3116	Band	1
Wind Ensemble/Symphonic Band-for Wind and Percussion Students		
MUEN 2116/4116	Wind Ensemble	1
Orchestra-for String Students		
MUEN 1117/3117	Orchestra	1
Chorus-for Vocal Students		
MUEN 1111/3111	Mixed Chorus	1

Small Ensembles

No more than eight hours earned in large ensembles may be counted toward a degree. Small ensembles may be counted if approved by the ensemble director, studio instructor and the Director, School of Music.

Additional small ensembles, such as Jazz Ensemble, Opera Workshop, and Chamber Music are strongly encouraged for those who qualify by audition:

Code	Title	Hours
Small Ensembles		
Jazz Ensemble		
MUEN 1115/3115	Jazz Band	1
Opera Workshop		
MUEN 1119/3119	Opera Workshop	1
Chamber Music (smaller instrumental groups, including piano trios, string quartets, guitar ensemble, percussion ensemble, etc.)		
MUEN 1118/3118	Chamber Music	1
Keyboard Skills and Collaborative Techniques-for Keyboard performance major students only		
MUEN 1110/3110	Keyboard Skills & Collab Techn	1

Ensembles

- Music majors should enroll in at least one ensemble each semester they are enrolled as full-time students (except the student teaching semester).
- Students enrolled in studio instruction should be concurrently enrolled in an ensemble.
- Jazz Ensemble will not normally be considered to be the major ensemble for graduation hours.
- Students should not be enrolled in more than 2 ensembles per semester.
- Music Therapy majors must participate in 6 semesters of ensemble.

NOTE: Modifications or exceptions may be made in rare or unusual circumstances, but require approval by the Director, School of Music in coordination with ensemble directors and studio instructors.

Marching Band (for Wind and Percussion students)

- Students in the BM ALIN (instrumental) Teacher Certification program are required to be in Marching Band for 3 semesters.
- Music Performance Majors are required to be in Marching Band for 2 semesters.
- Music Therapy Majors, music minors, and non-majors are encouraged to participate in Marching Band.

For information regarding Common Course numbers for Ensemble, please refer to the Common Course listing in this catalog.

Ind. Performances/Applied Music Instruction and Practicums (Music Therapy)

Code	Title	Hours
Applied Music Instruction (Instrument, Voice, Music Therapy Practicum)		
Bassoon		
BSSN 1201	Ind Performances-Bassoon	2
BSSN 3201	Ind Performances-Bassoon	2
BSSN 3202	Applied Bassoon W/ Jr Recital	2

Cello		
VNCL 1201	Ind Performances-Violncello	2
VNCL 3201	Ind Performances-Violncello	2
VNCL 3202	Applied Cello W/ Jr Recital	2
Clarinet		
CLAR 1201	Ind Performances-Clarinet	2
CLAR 3201	Ind Performances-Clarinet	2
CLAR 3202	Applied Clarinet W/ Jr Recital	2
Composition		
COMP 1101	Applied Composition I	1
COMP 3301	Applied Composition II	3
Euphonium		
EUPH 1201	Ind Performances-Euphonium	2
EUPH 3201	Ind Performances-Euphonium	2
EUPH 3202	Applied Euphonium w/Jr Rectl	2
Flute		
FLUT 1201	Ind Performances-Flute	2
FLUT 3201	Ind Performances-Flute	2
FLUT 3202	Applied Flute W/ Jr Recital	2
French Horn		
HORN 1201	Ind Performances-Frnch Horn	2
HORN 3201	Ind Performances-Frnch Horn	2
HORN 3202	Applied Horn With Jr Recital	2
Guitar		
GUIT 1201	Ind Performances-Guitar	2
GUIT 3201	Ind Performances-Guitar	2
GUIT 3202	Applied Guitar W/ Jr Recital	2
Harp		
HARP 1201	Harp	2
HARP 3201	Harp	2
HARP 3202	Applied Harp W/ Jr Recital	2
Oboe		
OBOE 1201	Ind Performances-Oboe	2
OBOE 3201	Ind Performances-Oboe	2
OBOE 3202	Applied Oboe With Jr Recital	2
Organ		
ORGN 1201	Ind Performances-Organ	2
ORGN 3201	Ind Performances-Organ I	2
ORGN 3202	Applied Organ With Jr Recital	2
Percussion		
PERC 1201	Ind Performances-Percussion	2
PERC 3201	Ind Performances-Percussion	2
PERC 3202	Applied Percussion W/ Jr Rectl	2
Piano		
PIAN 1201	Ind Performances-Piano	2
PIAN 3201	Ind Performances-Piano	2
PIAN 3202	Applied Piano With Jr Recital	2
Saxophone		
SAXO 1201	Ind Performances-Saxophone	2
SAXO 3201	Ind Performances-Saxophone	2
SAXO 3202	Applied Saxophone W/ Jr Recitl	2
String Bass		

STBS 1201	Ind Performances-Strg Bass	2
STBS 3201	Ind Performances-Strg Bass	2
STBS 3202	Applied String Bass W/ Jr Rect	2
Trumpet		
TRMT 1201	Ind Performances-Trumpet	2
TRMT 3201	Ind Performances-Trumpet	2
TRMT 3202	Applied Trumpet W/ Jr Recital	2
Tuba		
TUBA 1201	Ind Performances-Tuba	2
TUBA 3201	Ind Performances-Tuba	2
TUBA 3202	Applied Tuba With Jr Recital	2
Trombone		
TRMB 1201	Ind Performances-Trombone	2
TRMB 3201	Ind Performances-Trombone	2
TRMB 3202	Applied Trombone W/ Jr Recital	2
Viola		
VIOL 1201	Ind Performances-Viola	2
VIOL 3201	Ind Performances-Viola	2
VIOL 3202	Applice Viola W/ Jr Recital	2
Violin		
VILN 1201	Individual Performances-Violin	2
VILN 3201	Individual Performances-Violin	2
VILN 3202	Applied Violin W/ Jr Recital	2
Voice		
VOIC 1201	Ind Performances-Voice	2
VOIC 3201	Ind Performances-Voice	2
VOIC 3202	Applied Voice With Jr Recital	2
Practicum – Early Childhood		
MUSI 3117	Practicum In Music Therapy I	1
Practicum – Special Needs		
MUSI 3118	Practicum In Music Therapy II	1
Practicum – Psychiatric/Geriatric		
MUSI 4110	Practicum In Music Therapy III	1
Practicum – Medical		
MUSI 4111	Practicum In Music Therapy IV	1

Applied Music Fees

Students enrolled in Applied Music Instruction are required to pay a fee at the time of registration on a per-course basis each semester:

Texas Resident		Nonresident	
Semester Hours	**Amount**	**Semester Hours**	**Amount**
2-hour course	$60.00	2-hour course	$60.00
4-hour course	$75.00	4-hour course	$75.00

There is no additional charge for use of practice rooms.

First Year

Fall	Hours	Spring	Hours
Component Area II	3	Component Area I	3
Component Area IX	1	MUEN XXXX (Lower Level Ensemble)	1
MUEN XXXX (Lower Level Ensemble)	1	MUSI 1182, 1303, 1304, or 1310[1]	1
MUSI 1181, 1303, 1304, or 1310[1]	1	MUSI 1223	2
MUSI 1222	2	MUSI 1225	2

MUSI 1224	2 PSYC 1301[2]	3
MUSI 2338	3 XXXX 1201 Ind. Performances-XXXX	2
XXXX 1201 Ind. Performances-XXXX	2	
	15	14

Second Year

Fall	Hours	Spring	Hours
Component Area I	3	Component Area III	4
Component Area VI	3	MUEN XXXX (Lower Level Ensemble)	1
Component Area IX	3	MUSI 2339	3
MUEN XXXX (Lower Level Ensemble)	1	MUSI 2348[3]	3
MUSI 2181, 1303, 1304, or 1310[1]	1	MUSI 2223	2
MUSI 2222	2	XXXX 1201 Ind. Performances-XXXX	2
MUSI 2224	2		
XXXX 1201 Ind. Performances-XXXX	2		
	17		15

Third Year

Fall	Hours	Spring	Hours
MUEN XXXX Upper-Level Ensemble	1	MUEN XXXX Upper-Level Ensemble	1
MUSI 3117[4]	1	MUSI 3110, 1303, or 1304[1]	1
MUSI 2226	2	MUSI 3118[4]	1
MUSI 3336	3	PSYC 3331	3
MUSI 3365	3	MUSI 3337	3
PSYC 3374	3	MUSI 3366	3
XXXX 3201 Ind. Performances-XXXX[5]	2	XXXX 3201 Ind. Performances-XXXX[5]	2
	15		14

Fourth Year

Fall	Hours	Spring	Hours
Component Area VII	3	Component Area VII	3
BIOL 2401[6]	4	Component Area VI	3
MUSI, MUEN or PSYC Upper Level Elective	3	MUSI 1304, 1303, or 1310[1]	3
MUSI 1379[7]	3	MUSI 3376 or 3377	3
MUSI 4110[4]	1	MUSI 4111[4]	1
MUSI 4395	3	MUSI 4396	3
	17		16

Fifth Year

Fall	Hours
MUSI 4397	3
MUSI 4398	3
	6

Total Hours: 129

1. Depending on concentrate, all Music Therapy majors take a minimum of 7 hours of Instrumental/Singing fundamental courses. See advisor.
2. Satisfies the requirement for Component Area VIII (Social and Behavioral Sciences).
3. Satisfies Component Area V (Creative Arts).
4. Music Therapy students must pass the Practicum Readiness Evaluation before beginning the practicum sequence. This evaluation may be taken up to 3 times.
5. Students must pass the Sophomore Applied Proficiency before registering for upper-level applied lessons. This Proficiency may be taken up to 3 times.
6. Satisfies the requirement for Component Area III (Life and Physical Science).
7. Satisfies Component Area IV (Language, Philosophy, and Culture).

NOTE: Completion of six semesters of Concert Attendance is required for graduation. See student handbook and/or contact the School of Music for details.

Minor in Music

Students who elect music as a minor must complete a minimum of 20 hours, at least SIX of which must be advanced (3000 or 4000-level). Up to eight hours of applied music (studio instruction and ensembles) may be used in the minor. To enroll in private instruction or perform in ensembles, students must audition in their respective applied areas and for each ensemble.

Code	Title	Hours
Minor in Music		
Required Courses		
MUSI 1301	Introduction To Study Of Music (SCH 3)	3
MUSI 2348	Survey of Music Literature (SCH 3) [1]	3
Advanced Courses		
Select 6 advanced hours from the following:		6
XXXX Ind. Performances-Applied Lessons	**(SCH 2)** [2]	
MUSI 3376	Mus His: Antiq through Baroque	
MUSI 3377	Mus His: Classic to Present (SCH 3)	
MUSI 3380	Opera Literature (SCH 3)	
MUSI 3381	Song History & Literature (SCH 3)	
MUEN 3111	Mixed Chorus (SCH 1)	
MUEN 3115	Jazz Band (SCH 1)	
MUEN 3116	Band (SCH 1)	
MUEN 3117	Orchestra (SCH 1)	
MUEN 3118	Chamber Music (SCH 1)	
MUEN 3119	Opera Workshop (SCH 1)	
MUEN 4116	Wind Ensemble (SCH 1)	
MUSI 3364	Improvisation (SCH 3)	
MUSI 4373	Electronic Music (SCH 3)	
Elective Courses		
Select 8 hours from the following:		8
XXXX Ind. Performances-Applied Lessons	SCH 2 [2]	
ENSEMBLE - MUEN XXXX	SCH 1 [3]	
MUSI 1304	Fundamentals Of Singing (SCH 3)	
MUSI 1306	Music Appreciation (SCH 3)	
MUSI 1310	Hist Rock Jazz Popular Music	
MUSI 2338	Intro Music Therapy (SCH 3)	
MUSI 2339	Psychology Of Music (SCH 3)	
MUSI 2362	Advanced Guitar (SCH 3)	
MUSI 3112	Instrumental Technq-Vocalists (SCH 1)	
MUSI 3118	Practicum In Music Therapy II (SCH 1)	
Total Hours		20

1 MUSI 2348 satisfies the Core Curriculum requirement for Component Area V (Creative Arts) & Minor requirement.

2 Music minors may take up to 8 hours of studio instruction: auditions are required

3 Music minors may take up to 6 hours of ensembles: auditions are required

Note

Students enrolled in studio instruction must be concurrently enrolled in an ensemble.

Ensembles

The following performance ensembles are open to all students of the university who qualify by audition:

Large Ensembles

Code	Title	Hours
Large Ensembles-		
Marching/Concert Band-for Wind and Percussion Students		
MUEN 1116/3116	Band	1
Wind Ensemble/Symphonic Band-for Wind and Percussion Students		
MUEN 2116/4116	Wind Ensemble	1
Orchestra-for String Students		
MUEN 1117/3117	Orchestra	1
Chorus-for Vocal Students		
MUEN 1111/3111	Mixed Chorus	1

Small Ensembles

No more than eight hours earned in large ensembles may be counted toward a degree. Small ensembles may be counted if approved by the ensemble director, studio instructor and the Director, School of Music.

Additional small ensembles, such as Jazz Ensemble, Opera Workshop, and Chamber Music are strongly encouraged for those who qualify by audition:

Code	Title	Hours
Small Ensembles		
Jazz Ensemble		
MUEN 1115/3115	Jazz Band	1
Opera Workshop		
MUEN 1119/3119	Opera Workshop	1
Chamber Music (smaller instrumental groups, including piano trios, string quartets, guitar ensemble, percussion ensemble, etc.)		
MUEN 1118/3118	Chamber Music	1
Keyboard Skills and Collaborative Techniques-for Keyboard performance major students only		
MUEN 1110/3110	Keyboard Skills & Collab Techn	1

Ensembles

- Music majors should enroll in at least one ensemble each semester they are enrolled as full-time students (except the student teaching semester).
- Students enrolled in studio instruction should be concurrently enrolled in an ensemble.
- Jazz Ensemble will not normally be considered to be the major ensemble for graduation hours.
- Students should not be enrolled in more than 2 ensembles per semester.
- Music Therapy majors must participate in 6 semesters of ensemble.

NOTE: Modifications or exceptions may be made in rare or unusual circumstances, but require approval by the Director, School of Music in coordination with ensemble directors and studio instructors.

Marching Band (for Wind and Percussion students)

- Students in the BM ALIN (instrumental) Teacher Certification program are required to be in Marching Band for 3 semesters.
- Music Performance Majors are required to be in Marching Band for 2 semesters.
- Music Therapy Majors, music minors, and non-majors are encouraged to participate in Marching Band.

For information regarding Common Course numbers for Ensemble, please refer to the Common Course listing in this catalog.

Ind. Performances/Applied Music Instruction and Practicums (Music Therapy)

Code	Title	Hours
Applied Music Instruction (Instrument, Voice, Music Therapy Practicum)		
Bassoon		
BSSN 1201	Ind Performances-Bassoon	2
BSSN 3201	Ind Performances-Bassoon	2
BSSN 3202	Applied Bassoon W/ Jr Recital	2
Cello		
VNCL 1201	Ind Performances-Violncello	2
VNCL 3201	Ind Performances-Violncello	2

VNCL 3202	Applied Cello W/ Jr Recital	2
Clarinet		
CLAR 1201	Ind Performances-Clarinet	2
CLAR 3201	Ind Performances-Clarinet	2
CLAR 3202	Applied Clarinet W/ Jr Recital	2
Composition		
COMP 1101	Applied Composition I	1
COMP 3301	Applied Composition II	3
Euphonium		
EUPH 1201	Ind Performances-Euphonium	2
EUPH 3201	Ind Performances-Euphonium	2
EUPH 3202	Applied Euphonium w/Jr Rectl	2
Flute		
FLUT 1201	Ind Performances-Flute	2
FLUT 3201	Ind Performances-Flute	2
FLUT 3202	Applied Flute W/ Jr Recital	2
French Horn		
HORN 1201	Ind Performances-Frnch Horn	2
HORN 3201	Ind Performances-Frnch Horn	2
HORN 3202	Applied Horn With Jr Recital	2
Guitar		
GUIT 1201	Ind Performances-Guitar	2
GUIT 3201	Ind Performances-Guitar	2
GUIT 3202	Applied Guitar W/ Jr Recital	2
Harp		
HARP 1201	Harp	2
HARP 3201	Harp	2
HARP 3202	Applied Harp W/ Jr Recital	2
Oboe		
OBOE 1201	Ind Performances-Oboe	2
OBOE 3201	Ind Performances-Oboe	2
OBOE 3202	Applied Oboe With Jr Recital	2
Organ		
ORGN 1201	Ind Performances-Organ	2
ORGN 3201	Ind Performances-Organ I	2
ORGN 3202	Applied Organ With Jr Recital	2
Percussion		
PERC 1201	Ind Performances-Percussion	2
PERC 3201	Ind Performances-Percussion	2
PERC 3202	Applied Percussion W/ Jr Rectl	2
Piano		
PIAN 1201	Ind Performances-Piano	2
PIAN 3201	Ind Performances-Piano	2
PIAN 3202	Applied Piano With Jr Recital	2
Saxophone		
SAXO 1201	Ind Performances-Saxophone	2
SAXO 3201	Ind Performances-Saxophone	2
SAXO 3202	Applied Saxophone W/ Jr Recitl	2
String Bass		
STBS 1201	Ind Performances-Strg Bass	2
STBS 3201	Ind Performances-Strg Bass	2
STBS 3202	Applied String Bass W/ Jr Rect	2

Trumpet		
TRMT 1201	Ind Performances-Trumpet	2
TRMT 3201	Ind Performances-Trumpet	2
TRMT 3202	Applied Trumpet W/ Jr Recital	2
Tuba		
TUBA 1201	Ind Performances-Tuba	2
TUBA 3201	Ind Performances-Tuba	2
TUBA 3202	Applied Tuba With Jr Recital	2
Trombone		
TRMB 1201	Ind Performances-Trombone	2
TRMB 3201	Ind Performances-Trombone	2
TRMB 3202	Applied Trombone W/ Jr Recital	2
Viola		
VIOL 1201	Ind Performances-Viola	2
VIOL 3201	Ind Performances-Viola	2
VIOL 3202	Applice Viola W/ Jr Recital	2
Violin		
VILN 1201	Individual Performances-Violin	2
VILN 3201	Individual Performances-Violin	2
VILN 3202	Applied Violin W/ Jr Recital	2
Voice		
VOIC 1201	Ind Performances-Voice	2
VOIC 3201	Ind Performances-Voice	2
VOIC 3202	Applied Voice With Jr Recital	2
Practicum – Early Childhood		
MUSI 3117	Practicum In Music Therapy I	1
Practicum – Special Needs		
MUSI 3118	Practicum In Music Therapy II	1
Practicum – Psychiatric/Geriatric		
MUSI 4110	Practicum In Music Therapy III	1
Practicum – Medical		
MUSI 4111	Practicum In Music Therapy IV	1

Applied Music Fees

Students enrolled in Applied Music Instruction are required to pay a fee at the time of registration on a per-course basis each semester:

Texas Resident		Nonresident	
Semester Hours	**Amount**	**Semester Hours**	**Amount**
2-hour course	$60.00	2-hour course	$60.00
4-hour course	$75.00	4-hour course	$75.00

There is no additional charge for use of practice rooms.

COLLEGE OF HEALTH SCIENCES

Administrative Officers

Title/Department	Officer
Dean	Rodney Runyan, Ph.D. (936) 294-2395
Associate Dean	Rosanne Keathley, Ph.D. hpe_rsk@shsu.edu; (936) 294-1171
Associate Dean	Sue Reichelt, Ph.D. sreichelt@shsu.edu (936) 294-2305
Assistant Dean	Jennifer Didier, Ph.D. jennifer.didier@shsu.edu; (936) 294-1183
Department of Family and Consumer Sciences	TBA (936) 294-1242
Department of Kinesiology	Emily Roper, PH.D. ear007@shsu.edu; (936) 294-1169
Director, School of Nursing	Denise Neill, Ph.D., denise.neill@shsu.edu; (936) 294-202-5101
Department of Population Health	Ray G. Newman, Ph.D. rgn006@shsu.edu; (936) 294-3435

About the College

The College of Health Sciences (COHS) consists of the Department of Population Heath, the Department of Kinesiology, the Department of Family and Consumer Sciences, and the School of Nursing. The College is comprised of undergraduate and graduate degrees focusing on clinical training and work-based learning. Internships in prestigious healthcare and medical fields, hospitals, sports, and government and volunteer agencies, are already available for many of the degree fields. Internship opportunities will continue to increase for all students in the health sciences.

The College offers the most up-to-date curricula using the latest technologies. Degree fields include nursing, population health, kinesiology, family and consumer science, as well as preparation for further medical study such as pre-occupational therapy, pre-chiropractic and pre-physical therapy. Some of the degree areas allow for an international focus – with language immersion – through study abroad opportunities to expand the student learning experience.

Factors such as an aging population, new medical technologies, and federal legislation have increased the need for qualified healthcare employees, educators, and professionals. The COHS has made great advancements in addressing those demands by offering programs that will increase the growing need for educated employees in the health and medical fields.

The College of Health Sciences promotes healthy living by preparing professionals for health and medical careers with a quality education at an affordable cost. Graduates will be prepared to succeed in their chosen health profession through mastery of the appropriate knowledge and skills, a well-developed sense of professionalism, and a strong commitment to promoting health and providing quality care.

Mission

The College of Health Sciences collaborates with community and global partners to:

- Provide accessible student-centered education in the health professions for a diverse population of traditional and non-traditional students;
- Advance health science knowledge and evidence-based practice through scholarship; and
- Promote stewardship of individual and population health and quality of life in Texas, the nation, and the world through evidence-based practices.

Highlights

- The School of Nursing became an accredited nursing program by the Accreditation Commission for Education in Nursing (ACEN formerly NLNAC) in August 2013 and received full approval by the Texas Board of Nursing for the Baccalaureate Degree Nursing Education Program in January 2014.
- The School of Nursing has an 88% success rate for nursing students sitting for the National Council Licensure Examination (NCLEX), which is above state and national averages; and a total of 97% of students are working as a nurse within six months of graduation.
- The Physical Education Teacher Education Program in the Department of Kinesiology is recognized by the National Council on the Accreditation of Teacher Education (NCATE).
- Ninety-four percent (94%) of Health and Kinesiology students are offered a job with their internship site upon degree completion.
- Study Abroad opportunities in Family and Consumer Science, Kinesiology, Population Health, and Nursing.

- The Interior Design Program is accredited by the Council for Interior Design Accreditation.
- The MS in Dietetic Internship Program is accredited by the Accreditation Council for Education in Nutrition and Dietetics of The Academy of Nutrition and Dietetics.
- The Food Science and Nutrition Program is accredited by The Academy of Nutrition and Dietetics.

Academic Programs

Departments	Programs
Program Name	**Degrees**
School of Nursing	
Nursing (The Woodlands Center)	B.S.
RN - BSN	B.S.
LVN - BSN	B.S.
Department of Family and Consumer Sciences	
Family and Consumer Sciences	B.A., B.S.
Food Science and Nutrition	B.S.
Food Service Management	B.A., B.S.
Fashion Merchandising	B.A., B.S.
Interior Design	B.A., B.S.
Department of Population Health	
Bilingual Health Care Studies	B.A.
Healthcare Administration	B.S.
Health Sciences	B.S.
Public Health	B.S.
Wellness Management	B.S.
Department of Kinesiology	
Kinesiology, Generalist	B.S.
Kinesiology - Physical Education Teacher Education	B.S.
Kinesiology - Exercise Science Applied	B.S.
Kinesiology - Exercise Science Clinical	B.S.
Athletic Training	B.S.

Scholarships

- **Roy G. Moss, Jr., Health Education Scholarship:** Award amounts vary
  Recipient must be majoring in Health or Kinesiology and demonstrate financial need, have an exemplary GPA, display leadership potential and be actively involved in community health issues.
- **Department of Health & Kinesiology Scholarship:** Award amounts vary
  Recipient must be majoring in Health or Kinesiology and demonstrate financial need with a satisfactory GPA.
- **Robert L. Case Health & Kinesiology Wellness Scholarship:** Award amounts vary
  Recipient must be majoring in Health or Kinesiology and display leadership potential with at least a 3.0 GPA and reflecting a high level of fitness.
- **Cady/Husky Health Education Scholarship:** Award amounts vary
  Recipient must be a full time Junior or Senior Health major displaying leadership potential with at least a 3.0 GPA.
- **Betty Alexander Scholarship:** Award amounts vary
  Recipient must be a Kinesiology major with at least two years of academic preparation at SHSU, having earned a minimum of 3.0 in the major.
- **H.O. "Molly" Crawford Scholarship:** Award amounts vary
  Recipient must be a Male in Junior standing in Kinesiology seeking teacher certification with at least a 2.5 GPA and demonstrating financial need.
- **Joe and Mary Kirk Scholarship:** Award amounts vary
  Recipient must be a Male in Senior standing in Kinesiology seeking teacher certification with at least a 2.8 GPA.
- **Margaret Powell Award:** Award amounts varyRecipient must be a female majoring in Kinesiology displaying excellence in academics.
- **Robert J. Wagner Memorial Scholarship:** Award amounts vary
  Recipient must be a Graduate student in Adult Fitness Management with 3.0 GPA, 1000 GRE and 3.5 graduate GPA reflecting a lifestyle of physical fitness and demonstrating financial need.
- **Department of Health & Kinesiology Scholarship:** Award amounts vary
  Recipient must be a Health or Kinesiology major demonstrating financial need with a satisfactory GPA.
- **Robert L. Case Health & Kinesiology Wellness Scholarship:** Award amounts vary

Recipient must be a Health or Kinesiology major displaying leadership potential with at least a 3.0 GPA and reflecting a high level of fitness.

- **Roy G. Moss, Jr., Health Education Scholarship:** Award amounts vary
  Recipient must be majoring in Health or Kinesiology and demonstrates financial need, has an exemplary GPA, displays leadership potential and is actively involved in community health issues.
- **Women's Physical Education Scholarship:** Award amounts vary
  Recipient must be a Kinesiology major of good character, Junior standing.
- **Alvin and Angeline Jasin Memorial Scholarship Fund:** $1,500 per year.
  Recipients must be a full-time undergraduate student in good standing, majoring in Pre-Nursing until Sam Houston State establishes a Nursing Program, at which time the major will be nursing. GPA of 3.00 is required.
- **Rylie Elise Ringer Memorial Scholarship:** $1,000 per year.
  Recipient must be a full-time junior or senior student (at the time they receive the funding) in good standing, majoring in nursing; be admitted into the Nursing Program; demonstrate financial need. GPA of 2.50/3.00 is required.
- **Mary Ellen Ragsdale Nursing Scholarship Endowment:** $5,000 per year.
  Recipient must be a junior or senior student in good standing; majoring in nursing and have been accepted to the nursing program; be a graduate of Humble High School. If there are no qualified applicants from Humble High School, preference will be given to graduates from any high school in the Humble Independent School District. If there are no qualified applicants from the Humble Independent School District, then the scholarship award will be open to any qualified student. Financial need will be a consideration but not a determining factor. GPA of 3.00 is required.
- **St. Luke's The Woodlands Hospital Nursing Scholarship:** $2,000 per year.
  Recipient must be a full-time undergraduate student in good standing; must have been accepted into the Bachelor of Nursing Program. Preference will be given to current employees of St. Luke's The Woodlands Hospital, St. Luke's The Woodlands Hospital employee's spouse, legal dependent, child or grandchild. GPA of 3.20 is required.
- **Stewart-Jones Nursing Scholarship:** $1,000 minimum
  Recipient must be a full-time junior or senior student in good standing; majoring in Nursing. Must have and maintain an overall GPA of 3.00.
- **Dr. Ruth M. Cady and Dr. Dorothy A. Huskey Health Science Endowed Scholarship:** $2,000 per year.
  Recipient must be a full-time sophomore, junior, or senior student pursuing a nursing degree or pre-professional health related major. Minimum GPA of 3.20 is required.
- **Dan Barnes Kaplan Scholarship:** Award amount varies
  Recipient must be a full-time undergraduate student in good standing, enrolled at Sam Houston State University for at least 30 hours, majoring in any discipline, and be coded as pre-medical. A minimum overall GPA of 3.4, a minimum overall GPA in all science coursework of 3.4, and have no grade below a C in any prerequisite coursework.
- **Smith-Hutson Scholarship:** Award amount varies
  Recipient must be a resident of Texas and demonstrate financial need and academic potential. A minimum overall GPA of 2.5 must be maintained and recipient must complete a minimum of 30 semester credit hours toward their degree each academic year.
- **Joint Admission Medical Program (JAMP)**
  The JAMP Program provides services to support and encourage highly qualified, economically disadvantaged students pursuing a medical career. The program provides for undergraduate and medical school scholarships, as well as medical school admission to at least one of the participating medical schools for recipients who satisfy the requirements. Recipients must be eligible to receive a Pell Grant and be a Texas resident to be considered for JAMP. Minimum 3.25 GPA in science coursework and overall 3.25 GPA required.
- **Sue Walker Rogers Nursing Endowed Scholarship**: Award amount varies
  Endowment earnings to go toward tuition and books. Recipient must be a full-time undergraduate student in good standing enrolled at SHSU, be majoring in nursing, demonstrate financial need, and have a minimum GPA of 3.0.

Department of Family & Consumer Sciences

Chair: Susan A. Reichelt (sxr067@shsu.edu) (936) 294-4129

Contact Information:

(936) 294-1242

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Box 2177 SHSU

1700 University Ave.

Huntsville, TX 77341-2177

Website

Department of Family and Consumer Sciences (http://www.shsu.edu/academics/health-sciences/family-and-consumer-sciences/Index_R.html)

Mission

The Department of Family and Consumer Sciences is dedicated to providing students with intellectual and professional skills relating to family and individual needs. The curriculum aims to provide students with the breadth and depth of competencies needed within the various professional fields associated with the department as they enter a global marketplace.

Highlights

- 100% pass rate for Teacher Certification students taking the content area exam
- Food Science and Nutrition Program accredited by The Academy of Nutrition and Dietetics
- Dietetic Internship Program available for qualified FSN graduates (leads to RDN credential)
- Interior Design Program accredited by the Council for Interior Design Accreditation and the National Association of Schools of Art and Design
- Kappa Omicron Nu Honor Society for Family and Consumer Sciences (Kappa Alpha Phi Chapter)

Suggested Minors

Programs in the Department of Family and Consumer Sciences **do not** require a minor; courses required by the accredited programs essentially constitute a minor for those programs. However, a minor may be elected for any program, in keeping with student career goals. Students graduating with a degree in the DPD program (Food Science and Nutrition) have minored in Chemistry, Mass Communication, Psychology, and other areas. Students majoring in Fashion Merchandising, Food Service Management, and General Family and Consumer Sciences (without teacher certification) commonly minor in General Business Administration, Marketing, or Management. Interior Design majors often minor in Construction Management or General Business Administration. Students who are pursuing the BS in Family and Consumer Sciences with the Teacher Certification Option must take all courses required by the College of Education for certification and may also pursue a minor area of study.

Career Opportunities

For the following program areas, employment opportunities include but are not limited to:

- Family and Consumer Sciences (general)
  - sales representative for consumer products
  - AgriLife extension agent
  - consumer specialist
  - event planner
  - retail merchandiser for interior furnishings
  - human service agencies
  - graduate school in FACS, family science, mental health and/or school counseling
- Family and Consumer Sciences with certification
  - FACS secondary teacher
  - AgriLife extension agent
- Fashion Merchandising
  - retail store manager
  - retail apparel buyer
  - retail allocator
  - visual display specialist

    - merchandiser for a line
    - sales representative for a line
- Food Science and Nutrition
    - Registered Dietitian (with required post-graduate internship)
        - clinical settings
        - wellness
        - community
        - administrative
        - public health
        - corporate in food manufacturing, food distribution, other
        - food service/nutrition director for hospitals, schools
        - nutritional consultant to sports teams, gyms, corporate executives, food companies, cruise lines, spas
        - food scientist
        - sports nutritionist
        - food stylist
        - non-profit community nutrition programs (USDA, WIC)
        - spokesperson for food councils (wheat, rice, beef, etc.)
- Food Service Management
    - restaurant manager
    - food service director for hospitals, schools
    - food production developer
- Interior Design
    - residential designer
    - commercial designer
    - restaurant designer
    - office designer
    - retail designer
    - model home designer
    - space planner
    - set stylist
    - product representative to the interior design industry

Students have multiple opportunities to learn about careers associated with their degree programs, including Saturdays@Sam (one each fall and spring semester), SAM Center advising, advising within SHSU Career Services, the department, career fairs sponsored by Career Services, and guest speakers and field trips sponsored through classes and pre-professional student organizations.

Upon completion of a bachelor's degree, qualified students may choose to apply for admission to one of the Graduate programs in Family and Consumer Sciences. Refer to the *Graduate Catalog* (http://www.shsu.edu/home/catalog.html) for more details.

Program Specific Requirements

Most degree programs within the Department of Family and Consumer Sciences require completion of two core courses, FACS 2368 and FACS 4362. Students have multiple opportunities to learn about degree requirements through the admission and advising process, including Saturdays@Sam (one each fall and spring semester), SAM Center advising, advising within the department, and advising through career fairs sponsored by Career Services at SHSU.

- Bachelor of Science, Major in Family and Consumer Science With Teacher Certification
- Bachelor of Arts, Major in Family and Consumer Sciences (General)
- Bachelor of Science, Major in Family and Consumer Sciences (General)
- Bachelor of Arts, Major in Fashion Merchandising
- Bachelor of Science, Major in Fashion Merchandising
- Bachelor of Science, Major in Food Science and Nutrition
- Bachelor of Arts, Major in Food Service Management

- Bachelor of Science, Major in Food Service Management
- Bachelor of Arts, Major in Interior Design
- Bachelor of Science, Major in Interior Design
- Minor in Family and Consumer Sciences

Student Organizations

- American Society of Interior Designers (student chapter)
- Family and Consumer Sciences Teachers Association of Texas: student section
- Fashion Merchandising Club
- Kappa Omicron Nu, Kappa Alpha Phi Chapter (honor society for Family and Consumer Sciences)
- Sam Houston Student Dietetic Association
- Student Event Planner Association

Internships and Study Abroad

All students who complete programs in Fashion Merchandising, Food Service Management, General Family and Consumer Sciences (without teacher certification), and Interior Design must complete a supervised internship (FACS 4369) of at least 300 supervised clock hours as a requirement for graduation. Students are given leads for securing internship opportunities, but part of the internship experience is the securing of a suitable position. Students in the General FACS program pursuing the Teacher Certification option are required to complete a semester of student teaching through the College of Education.

Students majoring in Food Science and Nutrition are required to complete a number of shadowing hours in several junior- and senior-level courses to complete knowledge requirements of The Academy of Nutrition and Dietetics (i.e., FACS 3445, FACS 4360, and FACS 4361).

Scholarships

Competitive scholarships and awards are given annually to full-time students of at least junior standing majoring in one of the program areas in Family and Consumer Sciences. **(Award recipients must be enrolled at Sam Houston State University for a minimum of one semester as a full-time student, must have completed 12 hours in FACS, and must be following the curriculum of a program major within the Department of Family and Consumer Sciences with full-time student status.)**

- Ashley K. Greene Family Scholarship (**Fashion Merchandising Majors Only**)
- Drs. Robert (Bob) and Mary Barnes Harris Endowed Scholarship **(Teacher Certification Majors Only)**
- Elmadel Driscoll Robinson Home Economics Endowed Scholarship
- Family and Consumer Sciences Memorial Endowed Scholarship
- Fray Stallings Wells Endowed Scholarship
- J. E. "Bo" Crews Retailing Award **(Fashion Merchandising Majors Only)**
- Keener Family Scholarship in Family and Consumer Sciences
- Lynch Family Endowed Scholarship
- Lena Campbell Mathis Endowed Scholarship
- Mattie Bea Prather Medford Family and Consumer Sciences Endowed Scholarship
- Rachel Mary Prather Allen Family and Consumer Sciences Endowed Scholarship
- Wiley G. and Marian Boyd McDonald Endowed Scholarship

Many other scholarship opportunities are available, including those based on academic record of the incoming student. Many organizations at the national, state, and local level, including professional organizations and corporations, offer scholarships for specific majors within the department. Students should check specific criteria required by these organizations. Brochures and information concerning the department and scholarships may be obtained by writing:

Department of Family and Consumer Sciences
Box 2177
Sam Houston State University
Huntsville, Texas 77341-2177

or e-mail your request to familyandconsumersciences@shsu.edu. Website: www.shsu.edu/~hec_www/ (http://www.shsu.edu/~hec_www).

Chair: **Susan A Reichelt**

Valencia Browning-Keen, PHD (vbk001@shsu.edu), *Associate Professor of Family & Consumer Sciences*, *Department of Family & Consumer Sciences*, PHD, Texas Woman's University; MS, Case Western Reserve Univ; BS, Lipscomb University

Laura Keilers Burleson, PHD (hec_lpb@shsu.edu), *Assistant Professor of Interior Design*, *Department of Family & Consumer Sciences*, PHD, Texas Tech University; MS, Oklahoma State University; BS, Oklahoma State University

Simone P Camel, PHD (spc022@shsu.edu), *Assistant Professor of Family and Consumer Sciences*, *Department of Family & Consumer Sciences*, PHD, Univ of Southern Mississippi; MS, Texas Woman's University; BS, St Marys Dominican College

Crystal Clark Douglas, PHD (ccdouglas@shsu.edu), *Assistant Professor of Family and Consumer Sciences*, *Department of Family & Consumer Sciences*, PHD, Univ of Alabama-Birmingham; MS, Univ of Alabama-Birmingham; BS, Louisiana Tech University

Mandana Motamed, PHD (mxm194@shsu.edu), *Assistant Professor of Family and Consumer Sciences*, *Department of Family & Consumer Sciences*, PHD, Univ of Minesota-Twin Cities; MS, Chalmers University of Tech; ME, Azad University

George Kevin Randall, PHD (gkr001@shsu.edu), *Associate Professor of Family and Consumer Sciences*, *Department of Family & Consumer Sciences*, PHD, Iowa State University; MS, Iowa State University; BSED, Illinois State University

Susan A Reichelt, PHD (sxr067@shsu.edu), *Associate Professor and Chair of Family and Consumer Sciences*, *Department of Family & Consumer Sciences*, PHD, Iowa State University; MS, Florida Inst. of Tec; BS, Univ of Wisconsin-Stevens Pt

Janis Hale White, PHD (hec_jhw@shsu.edu), *Associate Professor of Fashion Merchandising and Design*, *Department of Family & Consumer Sciences*, PHD, Texas Woman's University; MA, University of Iowa; BA, Sam Houston State University

Interim Faculty

Catherine Kueffer Blumenkamp, MPS (ckb014@shsu.edu), *Lecturer of Family and Consumer Sciences*, *Department of Family & Consumer Sciences*, MPS, Cornell University; BA, Columbia University

Linda Steinkamp Bone, MED (hec_lsb@shsu.edu), *Lecturer of Family and Consumer Sciences*, *Department of Family & Consumer Sciences*, MED, Sam Houston State University; BAT, Sam Houston State University

Shelby Ann Brock, MS (sab014@shsu.edu), *Clinical Assistant Professor of Family and Consumer Sciences*, *Department of Family & Consumer Sciences*, MS, Sam Houston State University; BA, Sam Houston State University

Heather Renee Frazier, MS (hrf007@shsu.edu), *Clinical Assistant Professor of Family and Consumer Sciences*, *Department of Family & Consumer Sciences*, MS, Sam Houston State University; BS, Sam Houston State University; BS, Sam Houston State University

Harriet H Griggs, PHD (hec_hhg@shsu.edu), *Lecturer of Family and Consumer Sciences*, *Department of Family & Consumer Sciences*, PHD, Texas AM University; MS, Oklahoma State University; BS, Baylor University

Patricia Kay Ramsay, MFA (pxr015@shsu.edu), *Clinical Assistant Professor of Family and Consumer Sciences*, *Department of Family & Consumer Sciences*, MFA, Syracuse University; BFA, The University of the Arts

Kimberly Lashay Townsend, MS (klo001@shsu.edu), *Lecturer of Family and Consumer Sciences*, *Department of Family & Consumer Sciences*, MS, Sam Houston State University; BS, Stephen F Austin University

Jodi K Walker, PHD (jkw030@shsu.edu), *Lecturer of Family and Consumer Sciences*, *Department of Family & Consumer Sciences*, PHD, Texas Tech University; MED, West Texas AM State Univ; BS, Texas Tech University

Bachelor of Arts, Major in Family and Consumer Sciences (General)

Code	Title	Hours
Bachelor of Arts, Major in Family and Consumer Sciences (General)		
Core Curriculum		
Component Area I (Communication)		6
Component Area II (Mathematics)		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area VI (U.S. History)		6
Component Area V (Creative Arts)		3
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4
Degree Specific Requirements		
Foreign Language first two courses: FOLG 1411 and FOLG 1412		8
FOLG 2311	Intermediate Foreign Language [1]	3
FOLG 2312	Intermed Foreign Language II [2]	3
Fine Arts (Advanced): Select course from degree in Fine Arts in the area of Dance, Music, Theatre, Art, or Computer Animation or PHIL 3366		3
PHIL 1301	Introduction To Philosophy	3
or PHIL 2306	Contemporary Moral Issues	
Major Core		
FACS 2368	Consumer Education	3
FACS 4362	Presentation Techniques	3
Major		
FACS 1330	Intro Soft Textiles Constructn	3
FACS 1331	Intro To Hospitality Industry	3-4
or FACS 2441	Meal Management In Hospitality	
FACS 1360	Basic Principles of Design [4]	3
FACS 1441	Food Preparation And Selection	4
FACS 2369	Introduction To Textiles	3
FACS 3369	Family Relationships	3
FACS 3445	Quan Food Pur Prep & Ser	4
FACS 4369	Internship	3
MATH 1314	Pre Calculus Algebra [3]	3
or MATH 1332	College Mathematics	
FACS Advanced Electives		15
Electives (11 of these hours must be 3000- or 4000-level.)		20-21
Total Hours		120-122

1 Satisfies Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture).

2 Satisfies Core Curriculum requirement for Component Area IX (Component Area Option).

3 Satisfies Core Curriculum requirement for Component Area II (Mathematics)

4 Satisfies Core Curriculum requirement for Component Area V (Creative Arts).

Notes:
Students who plan to become teacher certified in FACS post-graduation should closely follow the FACS courses as outlined in the teacher certification program for this department.

To fulfill the FACS hours required of the major, the following courses are recommended for specific career paths:

Code	Title	Hours
FACS in Business/Event Planning		
FACS 3376	Textile Science	3

FACS 3377	Codes,Stndrds & Facility Maint	3
FACS 3378	Fashion Promotion [1]	3
FACS 4370	Adv Food Sys Org & Mngt	3
FACS 4372	Resource Management	3

[1] FACS 1360 is a prerequisite for FACS 3378 and satisfies Core Component Area V.

FACS 3364 is also recommended for this career path, which requires FACS 1360 and the completion of 45 hours of course work.

Code	Title	Hours
FACS in Extension		
FACS 3330	Patternmaking & Apparel Produc	3
FACS 3339	Community Nutrition	3
FACS 3376	Textile Science	3
FACS 4333	Child Dev & Guidance	3
FACS 4372	Resource Management	3

Notes

FACS 1367 or FACS 2362 is a prerequisite for FACS 3339.

FACS 3364 is also recommended for this career path, which requires FACS 1360 and the completion of 45 hours of course work.

Code	Title	Hours
FACS in Family Service		
FACS 3339	Community Nutrition	3
SOCI 3365	Sociology Of Health & Illness [1]	3
FACS 4333	Child Dev & Guidance	3
FACS 4372	Resource Management	3
COMS 4386	Family Communication	3

[1] SOCI 1301 or SOCI 2319 are prerequisites for SOCI 3365. SOCI 1301 satisfies Core Component Area VIII, and SOCI 2319 satisfies Core Component Area IV.

Notes:

FACS 1367 or FACS 2362 is a prerequisite for FACS 3339

COMS 2386 is a prerequisite for COMS 4386.

First Year

Fall	Hours	Spring	Hours
ENGL 1301[1]	3	ENGL 1302[1]	3
FACS 1360[2]	3	FACS 1330	3
FACS 1441	4	HIST 1302[2]	3
HIST 1301[3]	3	Component Area III	4
MATH 1314 or 1332[4]	3	Component Area IX	1
	16		14

Second Year

Fall	Hours	Spring	Hours
FACS 1331 or 2441	3-4	FACS 2369	3
FACS 2368	3	FOLG 1412 (same field)[7]	4
FOLG 1411	4	POLS 2306[6]	3
PHIL 1301 or 2306[5]	3	Component Area III	4
POLS 2305[6]	3		
	16-17		14

Third Year

Fall	Hours	Spring	Hours
Advanced Fine Arts	3	FACS 3339	3

FACS 3445		4 FACS Advanced Elective	3
FACS Advanced Electives		3 FOLG 2312 (same field)	3
FOLG 2311 (same field)		3 General Elective/Minor	6
Component Area VIII		3	
		16	15

Fourth Year

Fall	Hours	Spring	Hours
Advanced Electives/Minor		6-7 Advanced Electives/Minor	6
FACS 4362		3 FACS 4369	3
FACS Advanced Elective/Minor		6 FACS Advanced Electives	3
		General Electives/Minor	2
	15-16		14

Total Hours: 120-122

1 Satisfies Core Curriculum requirement for Component Area I (Communication).
2 Satisfies Core Curriculum requirement for Component Area V (Creative Arts).
3 Satisfies Core Curriculum requirement for Component Area VI (U.S. History).
4 Satisfies Core Curriculum requirement for Component Area II (Mathematics).
5 Satisfies the Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture).
6 Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).
7 Satisfies Core Curriculum requirement for three hours of Component Area IX (Component Area Option).

Notes:
Students who plan to become teacher certified in FACS post-graduation should closely follow the courses as outlined in the teacher certification program for the FACS department.

Bachelor of Arts, Major in Fashion Merchandising

Code	Title	Hours
Bachelor of Arts, Major in Fashion Merchandising		
Core Curriculum		
Component Area I (Communication)		6
Component Area II (Mathematics)		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4
Degree Specific Requirements		
Foreign Language first two courses: FOLG 1411 and FOLG 1412		8
FOLG 2311	Intermediate Foreign Language [1]	3
FOLG 2312	Intermed Foreign Language II [1]	3
Fine Arts (Advanced): Select course from degree in Fine Arts in the area of Dance, Music, Theatre, Art, or Computer Animation or PHIL 3366		3
PHIL 1301	Introduction To Philosophy [2]	3
or PHIL 2306	Contemporary Moral Issues	
Major Core		
FACS 2368	Consumer Education	3
FACS 4362	Presentation Techniques [3]	3
Major		
CHEM from Component Area III [4]		4
FACS 1330	Intro Soft Textiles Constructn	3
FACS 1360	Basic Principles of Design [5]	3

FACS 2366	Fashion In Society	3
FACS 2369	Introduction To Textiles	3
FACS 3330	Patternmaking & Apparel Produc	3
FACS 3371	Fashion Merchandising	3
FACS 3376	Textile Science	3
FACS 3378	Fashion Promotion	3
FACS 4363	Merchandising Control	3
FACS 4367	Smn Cloth Textiles & Mdseing	3
FACS 4369	Internship [6]	3
MATH 1314	Pre Calculus Algebra [7]	3
or MATH 1332	College Mathematics	
Business Core		
ACCT 2301	Principles Of Financial Acc [8]	3
ECON 2300	Introduction To Economics [9]	3
or ECON 2301	Principles Of Macroeconomics	
or ECON 2302	Principles Of Microeconomics	
MGMT 3310	Principles Of Management [10]	3
MKTG 3310	Principles Of Marketing [11]	3
Electives (9 of these hours must be 3000- or 4000- level.)		19
Total Hours		120

1 Satisfies Core Curriculum requirement for Component Area IX (Component Area Option).

2 Satisfies Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture).

3 FACS 4362 requires junior standing.

4 CHEM course from Major area satisfies the Core Curriculum requirement for four hours of Component Area III (Life and Physical Science).

5 FACS 1360 is a prerequisite for FACS 3330 and FACS 3378 and satisfies Core Curriculum requirement for Component Area V (Creative Arts).

6 FACS 4369 requires department approval and 100 hours of course work completed.

7 Satisfies Core Curriculum requirement for Component Area II (Mathematics) and major requirement.

8 ACCT 2301 requires a minimum of 18 hours of course work completed.

9 Satisfies Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences) and major requirement.

10 MGMT 3310 requires a minimum of 30 hours course work completed.

11 MKTG 3310 requires junior standing.

Note:
A minor in General Business Administration or Marketing is strongly recommended.

First Year

Fall	Hours	Spring	Hours
CHEM[1]	4	Component Area III	4
ENGL 1301[2]	3	Component Area IX	1
FACS 1360[3]	3	ENGL 1302[2]	3
HIST 1301[4]	3	FACS 1330	3
MATH 1314 or 1332[5]	3	HIST 1302[4]	3
	16		14

Second Year

Fall	Hours	Spring	Hours
FACS 2366	3	ACCT 2301	3
FACS 2368	3	FACS 2369	3
FOLG 1411	4	FOLG 1412	4
PHIL 1301 or 2306[6]	3	POLS 2306[7]	3
POLS 2305[7]	3		
	16		13

Third Year

Fall	Hours	Spring	Hours
Advanced Fine Arts (Deg. Spec.)	3	FACS 3378	3
FACS 3330	3	FOLG 2312	3
FACS 3371	3	MGMT 3310	3
FACS 3376	3	MKTG 3310	3
FOLG 2311[9]	3	ECON 2300, 2301, or 2302[8]	3
	15		15

Fourth Year

Fall	Hours	Spring	Hours
FACS 4362	3	FACS 4363	3
FACS 4367	3	FACS 4369	3
General Electives/Minor	10	General Electives/Minor	9
	16		15

Total Hours: 120

1 Satisfies four hours of the Core Curriculum requirement for Component Area III (Life and Physical Sciences).
2 Satisfies Core Curriculum requirement for Component Area I (Communication).
3 Satisfies Core Curriculum requirement for Component Area V (Creative Arts).
4 Satisfies Core Curriculum requirement for Component Area VI (U.S. History).
5 Satisfies Core Curriculum requirement for Component Area II (Mathematics).
6 Satisfies Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture).
7 Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).
8 Satisfies the rCore Curriculum equirement for Component Area VIII (Social and Behavioral Sciences).
9 Satisfies Core Curriculum requirement for Component Area IX (Component Area Option).

Note:
A minor in General Business Administration or Marketing is strongly recommended.

Bachelor of Arts, Major in Food Service Management

Code	Title	Hours
Bachelor of Arts, Major in Food Service Management		
Core Curriculum		
Component Area I (Communication)		6
Component Area II (Mathematics)		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		4
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4
Degree Specific Requirements		
Foreign Language first two courses: FOLG 1411 and FOLG 1412		8
FOLG 2311	Intermediate Foreign Language [1]	3
FOLG 2312	Intermed Foreign Language II	3
PHIL 1301	Introduction To Philosophy [2]	3
or PHIL 2306	Contemporary Moral Issues	
Fine Arts (Advanced): Select course from degree in Fine Arts in the area of Dance, Music, Theatre, Art, or Computer Animation or PHIL 3366		3
Major Core		
FACS 2368	Consumer Education	3
FACS 4362	Presentation Techniques	3
Major		

Biology [3]		4
Chemistry [3]		4
FACS 1331	Intro To Hospitality Industry	3
FACS 1441	Food Preparation And Selection	4
FACS 2362	Nutrition	3
FACS 2441	Meal Management In Hospitality	4
FACS 3367	Food Science	3
FACS 3377	Codes,Stndrds & Facility Maint	3
FACS 3445	Quan Food Pur Prep & Ser	4
FACS 4369	Internship	3
FACS 4370	Adv Food Sys Org & Mngt	3
MATH 1314	Pre Calculus Algebra [4]	3
or MATH 1332	College Mathematics	
Business Core		
ACCT 2301	Principles Of Financial Acc	3
ECON 2300	Introduction To Economics [5]	3
or ECON 2301	Principles Of Macroeconomics	
or ECON 2302	Principles Of Microeconomics	
MGMT 3310	Principles Of Management	3
Electives (17 of these hours must be 3000- or 4000-level.)		21
Total Hours		120

1 Satisfies three hours of the Core Curriculum requirement for Component Area IX (Component Area Option).

2 Satisfies Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture).

3 Satisfies Core Curriculum requirement for Component Area III (Life and Physical Sciences).

4 Satisfies Core Curriculum requirement for Component Area II (Mathematics).

5 Satisfies Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).

Notes:

FACS 4362 requires Junior Standing.

3 hours of Biology or Chemistry is a prerequisite for FACS 2362.

FACS 3367 requires 4 hours of BIOL and 4 hours of CHEM which will satisfy Core Curriculum requirement for Component Area III (Life and Physical Science).

FACS 4369 requires department approval and a 100 hours of course work completed.

ACCT 2301 requires a minimum of 18 hours of course work completed.

MGMT 3310 requires a minimum of 50 hours of course work completed.

A minor in General Business Administration or Management is strongly recommended.

First Year

Fall	Hours	Spring	Hours
Biology[1]	4	Chemistry[1]	4
FACS 1331	3	ENGL 1302[2]	3
ENGL 1301[2]	3	FACS 1441	4
HIST 1301[3]	3	HIST 1302[3]	3
MATH 1314 or 1332[4]	3		
	16		14

Second Year

Fall	Hours	Spring	Hours
ACCT 2301	3	Component Area IX	1
ECON 2300, 2301, or 2302[5]	3	FACS 2362	3

FACS 2368	3	FACS 2441	4
FOLG 1411	4	FOLG 1412 (same field)	4
POLS 2305[6]	3	PHIL 2306 or 1301[7]	3
	16		15

Third Year

Fall	Hours	Spring	Hours
FACS 3367	3	FACS 3445	4
FACS 3377	3	FOLG 2312 (same field)	3
FOLG 2311 (same field)[8]	3	MGMT 3310	3
POLS 2306[6]	3	General Electives/Minor	5
Component Area V	3		
	15		15

Fourth Year

Fall	Hours	Spring	Hours
FACS 4362	3	FACS 4369	3
Advanced Electives/Minor	10	FACS 4370	3
Advanced Fine Arts (Deg Spec)	3	Advanced Electives/Minor	7
	16		13

Total Hours: 120

1 Satisfies four hours of the Core Curriculum requirement for Component Area III (Life and Physical Science).
2 Satisfies Core Curriculum requirement for Component Area I (Communications).
3 Satisfies Core Curriculum requirement for Component Area VI (U.S. History).
4 Satisfies Core Curriculum requirement for Component Area II (Mathematics).
5 Satisfies Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).
6 Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).
7 Satisfies Core Curriculum requirement of Component Area IV (Language, Philosophy, and Culture)
8 Satisfies three hours of the Core Curriculum requirement of Component Area IX (Component Area Option).

Notes:

FACS 4362 requires Junior Standing.

3 hours of Biology or Chemistry is a prerequisite for FACS 2362.

FACS 3367 requires 4 hours of BIOL and 4 hours of CHEM which will satisfy Core Curriculum requirement for Component Area III (Life and Physical Science).

FACS 4369 requires department approval and a 100 hours of course work completed.

ACCT 2301 requires a minimum of 18 hours of course work completed.

MGMT 3310 requires a minimum of 50 hours of course work completed.

A minor in General Business Administration or Management is strongly recommended.

Bachelor of Arts, Major in Interior Design

Code	Title	Hours
Bachelor of Arts, Major in Interior Design		
Core Curriculum		
Component Area I (Communication)		6
Component Area II (Mathematics)		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6

Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4
Degree Specific Requirements		
ARTS 4384	Modern Art Before 1945	3
Foreign Languages: FOLG 1411, FOLG 1412, FOLG 2311 [1]		11
PHIL 1301	Introduction To Philosophy [2]	3
or PHIL 2306	Contemporary Moral Issues	
Major Core		
ARTS 1316	Drawing	3
FACS 4362	Presentation Techniques	3
Major		
FACS 1360	Basic Principles of Design [3]	3
FACS 2361	History of Furnishings I	3
FACS 2364	Design Theory And Materials	3
FACS 2365	Digital Drawing for ID	3
FACS 2369	Introduction To Textiles	3
FACS 2386	Space Planning Fundamentals	3
FACS 2387	Architectural Graphics For Int	3
FACS 2388	Building Systems For Interiors	3
FACS 3360	Int Dsgn Prof Prac & Procedure	3
FACS 3361	History of Furnishings II	3
FACS 3332	Lighting Applicans Interiors	3
FACS 3337	Design Process	3
FACS 3338	Residential Design	3
FACS 3377	Codes,Stndrds & Facility Maint	3
FACS 4330	Commercial Design I	3
FACS 4331	Commercial Design II	3
FACS 4369	Internship	3
ETCM & Arts Core		
ARTS 3385	Art History Survey II	3
ETCM 2363	Architectural Design	3
ETCM 3372	Construction Drafting	3
Advanced Elective ETCM		3
General Elective		1
Total Hours		120

1 Satisfies three hours of the Core Curriculum requirement for Component Area IX (Component Area Option).

2 Satisfies Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture).

3 Satisfies Core Curriculum requirement for Component Area V (Creative Arts).

Notes:

A minimum grade of C is required of Interior Design majors in all FACS, ARTS, and ETCM courses and in all prerequisites for these courses. This program requires a 2.5 GPA.

FACS 1360 satisfies the Core Curriculum requirement for Component Area V (Creative Arts) and the degree specific requirement, and ARTS 4384 satisfies the additional fine arts course of the degree specific requirement.

FACS 1360 is a prerequisite for FACS 2364, FACS 2365, and FACS 2387.

MATH 1332 or MATH 1314 is a prerequisite for FACS 2388 and satisfies Core Component Area II.

FACS 1360 or FACS 2364 is a prerequisite for ETCM 2363.

FACS 2364 and FACS 2388 are prerequisites for FACS 3337.

ETCM 2363 is a prerequisite for FACS 3338, FACS 4330 and FACS 4331.

ARTS 3385 is a prerequisite for ARTS 4384.

Passages of a sophomore portfolio review is required prior to taking FACS 3337.

FACS 4362 requires Junior Standing

FACS 4369 requires department approval and the completion of 100 hours.

First Year

Fall	Hours	Spring	Hours
Component Area II	3	Component Area III	4
Component Area III	4	Component Area VIII	3
ENGL 1301[1]	3	ARTS 1316	3
FACS 1360[2]	3	ENGL 1302[1]	3
HIST 1301[3]	3	HIST 1302[3]	3
	16		16

Second Year

Fall	Hours	Spring	Hours
Component Area IX	1	FACS 2361	3
FACS 2364	3	FACS 2365	3
FACS 2386	3	FACS 2369	3
FACS 2387	3	FACS 2388	3
PHIL 2306 or 1301[4]	3	POLS 2306[5]	3
POLS 2305[5]	3		
	16		15

Third Year

Fall	Hours	Spring	Hours
ETCM 2363	3	ARTS 3385	3
FACS 3332	3	FACS 3338	3
FACS 3337	3	FACS 3360	3
FACS 3361	3	FACS 3377	3
FOLG 1411	4	FOLG 1412 (same field)	4
	16		16

Fourth Year

Fall	Hours	Spring	Hours
FACS 4330	3	ARTS 4384	3
FACS 4362	3	ETCM 3372	3
ETCM Advanced Elective	3	FACS 4331	3
FOLG 2311[6]	3	FACS 4369	3
General Elective	1		
	13		12

Total Hours: 120

1 Satisfies Core Curriculum requirement for Component Area I (Communications).

2 Satisfies Core Curriculum requirement for Component Area V (Creative Arts).

3 Satisfies Core Curriculum requirement for Component Area VI (U.S. History).

4 Satisfies Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture)

5 Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).

6 Satisfies three hours of the Core Curriculum requirement for Component Area IX (Component Area Options).

Bachelor of Science, Major in Family and Consumer Science With Teacher Certification

Admission to the Educator Preparation Program Admission Standards

In the first education class, candidates seeking initial Teacher Certification apply online for admission to the program. A one-time application fee is charged upon application. In addition, candidates for admission must obtain an online account in the College of Education data management system. Admission to the Educator Preparation program requires meeting each of the criteria listed below and will be pending until each requirement is satisfied. **Teaching candidates will not be permitted to participate in the Literacy Methods Block, Content Methods Block, or Student Teaching without full admission and continued academic good standing in the Educator Preparation Program.** The requirements are: **Demonstration of successful college performance:**

- 2.75 overall GPA (includes transfer hours and SHSU hours)
- 2.75 GPA in content area or teaching field
- "C" or above in all courses in the teaching field.
- Video Interview
- Basic Skills Requirements found at Educator Preparation Services (http://www.shsu.edu/academics/education/educator-preparation-services).

Regular admission to the Educator Preparation program is required prior to placement in the Literacy Methods Block and/or Content Methods Block coursework. The requirements for admission to blocks are:

- Clear criminal history background check
- Full admission and continued academic good standing in the Educator Preparation Program
- Satisfactory demonstration of oral communication skills
- 2.75 GPA in the teaching field or area of specialization, and
- No grade below "C" in courses required for the teaching field or certification

Full Admission and continued academic good standing in the program are also required for placement in Student Teaching.

Code	Title	Hours
Bachelor of Science, Major in Family and Consumer Science With Teacher Certification		
Core Curriculum		
Component Area I (Communication)		6
Component Area II (Mathematics)		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4
Degree Specific Requirements		
Natural Sciences		16
BIOL from Component Area III list (8 hours) [1]		
CHEM 1406	Inorganic & Envir Chemistry	
CHEM 1407	Intro Organic and Biochemistry	
Major Core		
FACS 2368	Consumer Education	3
FACS 4362	Presentation Techniques	3
MATH 1314	Pre Calculus Algebra [2]	3
or MATH 1332	College Mathematics	
Major		
FACS 1330	Intro Soft Textiles Constructn	3
FACS 1331	Intro To Hospitality Industry	3
FACS 1360	Basic Principles of Design [3]	3
FACS 1367	Basic Nutrition	3

or FACS 2362	Nutrition	
FACS 1441	Food Preparation And Selection	4
FACS 2369	Introduction To Textiles	3
FACS 3330	Patternmaking & Apparel Produc	3
FACS 3445	Quan Food Pur Prep & Ser	4
FACS 3364	Suvery of Interior Design for Non-Majors	3
FACS 3369	Family Relationships	3
FACS 4068	Research Problems	3
FACS 4333	Child Dev & Guidance	3
or CISE 4374	Human Growth and Learning	
FACS 4372	Resource Management	3
CISE Requirements		
CISE 3384	The Teaching Profession	3
CISE 4364	Mth Tch Secondary Schools	3
CISE 4378	Content Literacy	3
CISE 4379	Differentiated Pedagogy	3
CISE 4380	Respon Of Pro Educator	3
CISE 4394	Creatng Env For Lrng-Secondary	3
CISE 4396	Std Tch Secondary Classroom	3
CISE 4397	Std Tch Secondary Classroom	3
Electives		2
Total Hours		120

1 Satisfies Core Curriculum requirement for Component Area III (Life and Physical Science).

2 Satisfies Core Curriculum requirement for Component Area II (Mathematics).

3 Satisfies Core Curriculum requirement for Component Area V (Creative Arts).

Notes

CISE 4364, CISE 4378, and CISE 4379 are three of the required methods block classes; the fourth is FACS 4333/CISE 4374. CISE 4396, CISE 4397, and CISE 4394 are taken together as the student teaching block.

FACS 3369, FACS 4068, and FACS 4362 requires Junior Standing.

FACS 1360 is a prerequisite for FACS 3330 and FACS 3364.

3 HRS BIOL or CHEM is a prerequisite for FACS 2362.

FACS 3364 requires 45 hours of course work completed.

FACS 4333 requires Junior Standing and/or Instructor approval.

CISE 3384 is a prerequisite for CISE 4374, CISE 4379, CISE 4364, and CISE 4378. CISE 3384 is a prerequisite to all Secondary Education program courses. Students must have a minimum of 32 hours of course work completed.

CISE 4364 requires admission to the Educator Prep. program.

CISE 4379 requires admission to the Educator Prep. program.

CISE 4394 requires admission to the Educator Prep. program.

CISE 4396 requires admission to the Educator Prep. program.

CISE 4397 requires admission to the Educator Prep. program.

Certification in a second teaching field may be obtained by meeting certification requirements for the particular area of specialization.

A specialty certificate in Hospitality, Food Science and Nutrition is available through this program.

First Year			
Fall	**Hours**	**Spring**	**Hours**
ENGL 1301[1]	3	ENGL 1302[1]	3

FACS 1360[2]	3 Electives	2
FACS 1441	4 FACS 1330	3
HIST 1301[3]	3 FACS 1367 or 2362	3
MATH 1314 or 1332[4]	3 HIST 1302[3]	3
	16	14

Second Year

Fall	Hours	Spring	Hours
CHEM 1406	4	BIOL[6]	4
FACS 1331	3	CHEM 1407	4
FACS 2368	3	FACS 2369	3
POLS 2305[5]	3	POLS 2306[5]	3
Component Area IV	3		
	16		14

Third Year

Fall	Hours	Spring	Hours
FACS 3330	3	BIOL[6]	4
FACS 3445	4	FACS 3364	3
FACS 4068	3	FACS 3369	3
CISE 3384	3	CISE 4378	3
Component Area IX	4	CISE 4380	3
	17		16

Fourth Year

Fall	Hours	Spring	Hours
FACS 4333 or CISE 4374	3	CISE 4394	3
FACS 4362	3	CISE 4396	3
CISE 4364	3	CISE 4397	3
CISE 4379	3	FACS 4372	3
Component Area VIII	3		
	15		12

Total Hours: 120

1 Satisfies Core Curriculum requirement for Component Area I (Communications).

2 Satisfies Core Curriculum requirement for Component Area V (Creative Arts).

3 Satisfies Core Curriculum requirement for Component Area VI (U.S. History).

4 Satisfies Core Curriculum requirement for Component Area II (Mathematics).

5 Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).

6 Satisfies Core Curriculum requirement for Component Area III (Life and Physical Science).

Notes

CISE 4364, CISE 4378, and CISE 4379 are three of the required methods block classes; the fourth is FACS 4333/CISE 4374. CISE 4396, CISE 4397, and CISE 4394 are taken together as the student teaching block.

FACS 3369, FACS 4068, and FACS 4362 requires Junior Standing.

FACS 1360 is a prerequisite for FACS 3330 and FACS 3364.

3 HRS BIOL or CHEM is a prerequisite for FACS 2362.

FACS 3364 requires 45 hours of course work completed.

FACS 4333 requires Junior Standing and/or Instructor approval.

CISE 3384 is a prerequisite for CISE 4374, CISE 4379, CISE 4364, and CISE 4378. CISE 3384 is a prerequisite to all Secondary Education program courses. Students must have a minimum of 32 hours of course work completed.

CISE 4364 requires admission to the Educator Prep. program.

CISE 4379 requires admission to the Educator Prep. program.

CISE 4394 requires admission to the Educator Prep. program.

CISE 4396 requires admission to the Educator Prep. program.

CISE 4397 requires admission to the Educator Prep. program.

Certification in a second teaching field may be obtained by meeting certification requirements for the particular area of specialization.

A specialty certificate in Hospitality, Food Science and Nutrition is available through this program.

Bachelor of Science, Major in Family and Consumer Sciences (General)

Code	Title	Hours
Bachelor of Science, Major in Family and Consumer Sciences (General)		
Core Curriculum		
Component Area I (Communication)		6
Component Area II (Mathematics)		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4
Degree Specific Requirements		
CHEM 1406	Inorganic & Envir Chemistry [2]	4
or CHEM 1411	General Chemistry I	
MATH 1314	Pre Calculus Algebra [1]	3
or MATH 1332	College Mathematics	
MATH Elective		3
Natural Sciences		8
Major Core		
FACS 2368	Consumer Education	3
FACS 4362	Presentation Techniques	3
Major		
FACS 1330	Intro Soft Textiles Constructn	3
FACS 1331	Intro To Hospitality Industry	3-4
or FACS 2441	Meal Management In Hospitality	
FACS 1360	Basic Principles of Design [3]	3
FACS 1441	Food Preparation And Selection	4
FACS 2369	Introduction To Textiles	3
FACS 3369	Family Relationships	3
FACS 3445	Quan Food Pur Prep & Ser	4
FACS 4369	Internship	3
FACS Advanced Electives		15
Electives (14 of these hours must be Junior or Senior level.)		23
Total Hours		120-121

1 Satisfies Core Curriculum requirement for Component Area II (Mathematics).

2 Satisfies 4 hours of the Core Curriculum requirement for Component Area III (Life and Physical Science).

3 Satisfies Core Curriculum requirement for Component Area V (Creative Arts).

Notes

Students who plan to become teacher certified in FACS post-graduation should closely follow the FACS courses as outlined in the teacher certification program for this department.

FACS 3369 and FACS 4362 require junior standing.

FACS 4369 requires departmental approval and 100 hours of coursework completed.

FACS 2441 is a prerequisite for FACS 3445

To fulfill the FACS hours required of the major, the following courses are recommended for specific career paths as follows:

Code	Title	Hours
FACS in Business/Event Planning		
FACS 3376	Textile Science	3
FACS 3377	Codes,Stndrds & Facility Maint	3
FACS 3378	Fashion Promotion	3
FACS 4370	Adv Food Sys Org & Mngt	3
FACS 4372	Resource Management	3

Notes

FACS 3364 is recommended for this career path.

FACS 3364 requires 45 hours of course work completed.

FACS 1360 is a prerequisite for FACS 3378 and satisfies Core Curriculum requirement for Component Area V (Creative Arts).

FACS 4372 requires Junior Standing.

Code	Title	Hours
FACS in Extension		
FACS 3330	Patternmaking & Apparel Produc	3
FACS 3339	Community Nutrition	3
FACS 3376	Textile Science	3
FACS 4333	Child Dev & Guidance	3
FACS 4372	Resource Management	3

Notes

FACS 3364 is also recommended for this career path.

FACS 1367 or FACS 2362 is a prerequisite for FACS 3339

FACS 1360 is a prerequisite for FACS 3330.

FACS 4333 and FACS 4372 requires Junior Standing.

Code	Title	Hours
FACS in Family Service		
FACS 3339	Community Nutrition	3
FACS 4372	Resource Management	3
FACS 4333	Child Dev & Guidance	3
COMS 4386	Family Communication	3
SOCI 3365	Sociology Of Health & Illness	3

Notes

FACS 1367 or FACS 2362 is a prerequisite for FACS 3339.

FACS 4372 requires Junior Standing.

COMS 2386 is a prerequisite for COMS 4386.

SOCI 1301 is a prerequisite for SOCI 3365 and satisfies the Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).

First Year

Fall	Hours	Spring	Hours
ENGL 1301[1]	3	ENGL 1302[1]	3
FACS 1360[2]	3	FACS 1330	3
FACS 1441	4	HIST 1302[3]	3
HIST 1301[3]	3	Component Area III	4
MATH 1314 or 1332[4]	3	Component Area IX	1
	16		14

Second Year

Fall	Hours	Spring	Hours
FACS 1331 or 2441	3-4	FACS 2369	3
FACS 2368	3	MATH Elective	3
POLS 2305[5]	3	POLS 2306[5]	3
Component Area IV	3	Lab Science (Deg Spec)	4
Component Area III	4		
	16-17		13

Third Year

Fall	Hours	Spring	Hours
FACS 3445	4	FACS 3369	3
FACS Advanced Elective	3	FACS Advanced Elective	3
Lab Science (Degree Spec)	4	General Electives/Minor	4
Advanced Electives/Minor	3	Component Area IX	3
Component Area VIII	3		
	17		13

Fourth Year

Fall	Hours	Spring	Hours
FACS 4362	3	FACS 4369	3
FACS Advanced Electives	6	FACS Advanced Elective	3
Advanced Electives/Minor	6	Advanced Electives/Minor	6
		General Electives/Minor	4
	15		16

Total Hours: 120-121

2 Satisfies Core Curriculum requirement for Component Area V (Creative Arts).

1 Satisfies Core Curriculum requirement for Component Area I (Communications).

3 Satisfies Core Curriculum requirement for Component Area VI (U.S. History).

4 Satisfies Core Curriculum requirement for Component Area II (Mathematics).

5 Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).

Bachelor of Science, Major in Fashion Merchandising

Code	Title	Hours
Bachelor of Science, Major in Fashion Merchandising		
Core Curriculum		
Component Area I (Communication)		6
Component Area II (Mathematics)		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4

Degree Specific Requirements		
CHEM 1406	Inorganic & Envir Chemistry [1]	4
or CHEM 1411	General Chemistry I	
MATH Elective		3
Natural Sciences (Lab Science)		8
Major Core		
FACS 2368	Consumer Education	3
FACS 4362	Presentation Techniques [2]	3
Major		
FACS 1330	Intro Soft Textiles Constructn	3
FACS 1360	Basic Principles of Design [3]	3
FACS 2366	Fashion In Society	3
FACS 2369	Introduction To Textiles	3
FACS 3330	Patternmaking & Apparel Produc	3
FACS 3371	Fashion Merchandising	3
FACS 3376	Textile Science	3
FACS 3378	Fashion Promotion	3
FACS 4363	Merchandising Control	3
FACS 4367	Smn Cloth Textiles & Mdseing	3
FACS 4369	Internship [4]	3
Business Core		
ACCT 2301	Principles Of Financial Acc [5]	3
ECON 2300	Introduction To Economics [6]	3
or ECON 2301	Principles Of Macroeconomics	
or ECON 2302	Principles Of Microeconomics	
MGMT 3310	Principles Of Management [7]	3
MKTG 3310	Principles Of Marketing [8]	3
Electives (12 of these hours must be 3000- or 4000-evel.)		22
Total Hours		120

1. Satisfies four hours of the Core Curriculum requirement for Component Area III (Life and Physical Science).
2. FACS 4362 requires junior standing.
3. FACS 1360 is a prerequisite for FACS 3330 and FACS 3378 and satisfies Core Curriculum requirement for Component Area V (Creative Arts).
4. FACS 4369 requires department approval and 100 hours of course work completed.
5. ACCT 2301 requires a minimum of 18 hours of course work completed.
6. Satisfies Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).
7. MGMT 3310 requires a minimum of 30 hours of course work completed.
8. MKTG 3310 requires junior standing.

Note:
A minor in General Business Administration or Marketing is strongly recommended.

First Year

Fall	Hours	Spring	Hours
CHEM 1406 or 1411[1]		4 Component Area III	4
ENGL 1301[2]		3 Component Area IX	1
FACS 1360[3]		3 ENGL 1302[2]	3
HIST 1301[4]		3 FACS 1330	3
MATH 1314 or 1332[5]		3 HIST 1302[4]	3
	16		14

Second Year

Fall	Hours	Spring	Hours
FACS 2366		3 ACCT 2301	3

FACS 2368		3 FACS 2369	3
POLS 2305[6]		3 POLS 2306[6]	3
Component Area IV		3 Lab Science	4
Lab Science		4	
		16	13

Third Year

Fall	Hours	Spring	Hours
ECON 2300, 2301, or 2302[7]		3 FACS 3378	3
FACS 3330		3 MGMT 3310	3
FACS 3371		3 MKTG 3310	3
FACS 3376		3 Component Area IX	3
Math Elective		3 Advanced Electives/Minor	3
		15	15

Fourth Year

Fall	Hours	Spring	Hours
FACS 4362		3 FACS 4363	3
FACS 4367		3 FACS 4369	3
General Electives/Minor		10 Advanced Electives/Minor	9
		16	15

Total Hours: 120

1 Satisfies Core Curriculum requirement fo rComponent Area III (Life and Physical Science).
2 Satisfies Core Curriculum requirement for Component Area I (Communications).
3 Satisfies Core Curriculum requirement for Component Area V (Creative Arts).
4 Satisfies Core Curriculum requirement for Component Area VI (U.S. History).
5 Satisfies Core Curriculum requirement for Component Area II (Mathematics).
6 Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).
7 Satisfies Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).

Bachelor of Science, Major in Food Science and Nutrition

Code	Title	Hours
Bachelor of Science, Major in Food Science and Nutrition		
Core Curriculum		
Component Area I (Communication)		6
Component Area II (Mathematics)		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4
Degree Specific Requirements		
BIOL 2401	Human Anatomy [1]	4
or BIOL 2403	Human Anatomy & Physiology I	
BIOL 2402	Human Physiology	4
or BIOL 2404	Human Anatomy & Physiology II	
CHEM 1411	General Chemistry I [1]	4
CHEM 1412	General Chemistry II	4
MATH 1314	Pre Calculus Algebra [2]	3
MATH 1369	Elementary Statistics	3
Major Core		

FACS 4362	Presentation Techniques	3
Major		
FACS 1441	Food Preparation And Selection	4
FACS 2362	Nutrition	3
FACS 3339	Community Nutrition	3
FACS 3445	Quan Food Pur Prep & Ser	4
FACS 3367	Food Science	3
FACS 3369	Family Relationships	3
FACS 3370	Nutritional Pathways	3
FACS 4360	Clinical Dietetics I	3
FACS 4361	Clinical Dietetics II	3
FACS 4370	Adv Food Sys Org & Mngt	3
FACS 4371	Nutrition Assessment	3
FACS 4373	Cultural Food Practices	3
KINE 2115	Lifetime Health and Wellness [3]	1
Additional Requirements		
BIOL 2420	Intro Applied Microbiology	4
CHEM 2323 & CHEM 2123	Organic Chemistry I: Lecture and Organic Chemistry I Lab	4
ECON 2300	Introduction To Economics [4]	3
or ECON 2301	Principles Of Macroeconomics	
or ECON 2302	Principles Of Microeconomics	
ENGL 3330	Intro To Technical Writing	3
FACS 3380	Advanced Nutrition	3
MGMT 3310	Principles Of Management	3
PSYC 1301	Introduction To Psychology	3
PSYC 4332	Learning	3
FACS Elective [5]		3
Total Hours		120

1 Satisfies 4 hours of the Core Curriculum requirement for Component Area III (Life and Physical Sciences).

2 Satisfies the Core Curriculum requirement for Component Area II (Mathematics).

3 Satisfies the Core Curriculum requirement for one hour of Component Area IX (Component Area Option).

4 Satisfies the Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).

5 Program Director approval required. FACS 4068 or FACS 4395 Lifecycle Nutrition preferred.

Notes

FACS 4362 and FACS 3369 require junior standing.

FACS 2362 requires 3 hours of BIOL or CHEM.

FACS 1441 or FACS 2441 is a prerequisite for FACS 3445.

FACS 3367 requires the completion of 4 hours of Chemistry, and FACS 1441, FACS 1367, or FACS 2362.

FACS 3380 and junior standing are prerequisites for FACS 3370.

BIOL 2420 requires a "C" or higher in BIOL 2401, BIOL 2402 and in CHEM 1406 or CHEM 1411. This course will satisfy 4 hours of the Core Curriculum requirement for Component Area III (Life and Physical Science).

MGMT 3310 requires 50 hours of course work completed.

PSYC 4332 requires PSYC 1301 as a prerequisite for FSN majors.

ENGL 1301 and ENGL 1302 are prerequisites for ENGL 3330 and satisfy the Core Curriculum requirement for Component Area I (Communications).

The estimated cost of completing the DPD Program, including tuition and fees, books, lab coat, and SHSDA dues is $37,139. (Cost of tuition, fees and textbooks is subject to change without notice).

The program requires transfer and change of major students to have a minimum GPA of 3.0 prior to declaring FSN as a major and submitting a degree plan.

To be eligible to receive an *ACEND Verification Statement of DPD Program Completion*, students in the DPD at Sam Houston State University must have a minimum GPA of 3.0 overall, a DPD GPA of 3.0 or better, and a "C" or better in all FACS courses. Upper level courses must have been completed in the previous 5 years. The DPD Director will issue the *Verification Statement* once the FSN degree has been conferred on the student's academic transcript (usually one month after the end of the semester). An official copy of the *Verification Statement* is required to begin an ACEND-accredited dietetic internship. Receipt of the *Verification Statement* does not guarantee an ACEND-accredited dietetic internship. Students who do not meet the grade point requirement for a *Verification Statement* but satisfy graduation requirements will graduate with a Bachelor of Science in Food Science and Nutrition. Sam Houston State University does not guarantee dietetic internship placement or selection.

The Didactic Program in Dietetics (DPD) is currently granted accreditation by the Accreditation Council for Education in Nutrition and Dietetics (ACEND) of the Academy of Nutrition and Dietetics.

120 South Riverside Plaza
Suite 2000
Chicago, IL 60606-6995
1-800-877-1600, ext. 5400
Website: www.eatrightacend.org/ACEND/ (http://www.eatrightacend.org/acend).

First Year

Fall	Hours	Spring	Hours
BIOL 2401 or 2403[1]	4	BIOL 2402 or 2404	4
ENGL 1301[2]	3	CHEM 1411[1]	4
HIST 1301[3]	3	ENGL 1302[2]	3
KINE 2115[4]	1	HIST 1302[3]	3
MATH 1314[5]	3		
	14		14

Second Year

Fall	Hours	Spring	Hours
CHEM 1412	4	BIOL 2420	4
FACS 1441	4	ENGL 3330	3
POLS 2305[6]	3	FACS 2362	3
PSYC 1301	3	MATH 1369	3
Component Area IV	3	POLS 2306[6]	3
	17		16

Third Year

Fall	Hours	Spring	Hours
FACS 3380	3	CHEM 2123	1
FACS 3445	4	CHEM 2323	3
FACS 4362	3	FACS 3339	3
FACS 4395 (Nutrition Elective: Lifecycle Nutrition)[8]	3	FACS 4371	3
Component Area IX	3	FACS 4373	3
		Component Area V	3
	16		16

Fourth Year

Fall	Hours	Spring	Hours
FACS 3367	3	FACS 3369 or PSYC 3374	3
FACS 3370	3	ECON 2300, 2301, or 2302[7]	3
FACS 4360	3	FACS 4361	3
MGMT 3310	3	FACS 4370	3
PSYC 4332	3		
	15		12

Total Hours: 120

[1] Satisfies Core Curriculum requirement for Component Area III (Life and Physical Sciences).

2 Satisfies Core Curriculum requirement for Component Area I (Communication).
3 Satisfies Core Curriculum requirement for Component Area VI (U.S. History).
4 Satisfies one hour of the Core Curriculum requirement for Component Area IX (Component Area Option).
5 Satisfies Core Curriculum requirement for Component Area II (Mathematics).
6 Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).
7 Satisfies Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).
8 Lifecycle Nutrition is the preferred Nutrition Elective.

Notes

FACS 4362 and FACS 3369 require junior standing.

FACS 2362 requires 3 hours of BIOL or CHEM.

FACS 1441 or FACS 2441 is a prerequisite for FACS 3445.

FACS 3367 requires the completion of 4 hours of Chemistry, and FACS 1441, FACS 1367, or FACS 2362.

FACS 3380 and junior standing are prerequisites for FACS 3370.

BIOL 2420 requires a "C" or higher in BIOL 2401, BIOL 2402 and in CHEM 1406 or CHEM 1411. This course will satisfy 4 hours of the Core Curriculum requirement for Component Area III (Life and Physical Science).

MGMT 3310 requires 50 hours of course work completed.

PSYC 4332 requires PSYC 1301 as a prerequisite for FSN majors.

ENGL 1301 and ENGL 1302 are prerequisites for ENGL 3330 and satisfy the Core Curriculum requirement for Component Area I (Communications).

The estimated cost of completing the DPD Program, including tuition and fees, books, lab coat, and SHSDA dues is $37,139. (Cost of tuition, fees and textbooks is subject to change without notice).

The program requires transfer and change of major students to have a minimum GPA of 3.0 prior to declaring FSN as a major and submitting a degree plan.

To be eligible to receive an *ACEND Verification Statement of DPD Program Completion*, students in the DPD at Sam Houston State University must have a minimum GPA of 3.0 overall, a DPD GPA of 3.0 or better, and a "C" or better in all FACS courses. Upper level courses must have been completed in the previous 5 years. The DPD Director will issue the *Verification Statement* once the FSN degree has been conferred on the student's academic transcript (usually one month after the end of the semester). An official copy of the *Verification Statement* is required to begin an ACEND-accredited dietetic internship. Receipt of the *Verification Statement* does not guarantee an ACEND-accredited dietetic internship. Students who do not meet the grade point requirement for a *Verification Statement* but satisfy graduation requirements will graduate with a Bachelor of Science in Food Science and Nutrition. Sam Houston State University does not guarantee dietetic internship placement or selection.

The Didactic Program in Dietetics (DPD) is currently granted accreditation by the Accreditation Council for Education in Nutrition and Dietetics (ACEND) of the Academy of Nutrition and Dietetics.

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Website: www.eatrightacend.org/ACEND/ (http://www.eatrightacend.org/acend).

Bachelor of Science, Major in Food Service Management

Code	Title	Hours
Bachelor of Science, Major in Food Service Management		
Core Curriculum		
Component Area I (Communication)		6
Component Area II (Mathematics)		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6

Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4
Degree Specific Requirements		
MATH 1314	Pre Calculus Algebra [1]	3
or MATH 1332	College Mathematics	
MATH Elective		3
Natural Sciences (4 hours of Chemistry and 4 hours of Biology)		8
Major Core		
FACS 2368	Consumer Education	3
FACS 4362	Presentation Techniques	3
Major		
FACS 1331	Intro To Hospitality Industry	3
FACS 1441	Food Preparation And Selection	4
FACS 2362	Nutrition	3
FACS 2441	Meal Management In Hospitality	4
FACS 3445	Quan Food Pur Prep & Ser	4
FACS 3367	Food Science	3
FACS 3377	Codes,Stndrds & Facility Maint	3
FACS 4369	Internship	3
FACS 4370	Adv Food Sys Org & Mngt	3
Business Core		
ACCT 2301	Principles Of Financial Acc	3
ECON 2300	Introduction To Economics [2]	3
or ECON 2301	Principles Of Macroeconomics	
or ECON 2302	Principles Of Microeconomics	
MGMT 3310	Principles Of Management	3
Electives (20 of these hours must be J3000- or 4000-evel.)		25
Total Hours		120

[1] Satisfies Core Curriculum requirement for Component Area II (Mathematics).

[2] Satisfies Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).

Notes

FACS 4362 requires Junior Standing.

3 hours of Biology or Chemistry is a prerequisite for FACS 2362 and satisfies 4 hours of the Core Curriculum requirement for Core Component Area III (Life and Physical Science).

FACS 4369 requires department approval and 100 hours of course work completed.

ACCT 2301 requires 18 hours of course work completed.

MGMT 3310 requires 50 hours of course work completed.

A minor in General Business Administration or Management is strongly recommended.

First Year		
Fall	**Hours Spring**	**Hours**
BIOL	4 CHEM	4
ENGL 1301[1]	3 ENGL 1302[1]	3
FACS 1331	3 FACS 1441	4
HIST 1301[2]	3 HIST 1302[2]	3
MATH 1314 or 1332[3]	3	
	16	14

Second Year

Fall	Hours	Spring	Hours
ACCT 2301	3	Component Area III	4
Component Area III	4	Component Area IX	1
ECON 2300, 2301, or 2302	3	FACS 2362	3
FACS 2368	3	FACS 2441	4
POLS 2305[4]	3	POLS 2306[4]	3
	16		15

Third Year

Fall	Hours	Spring	Hours
Component Area V	3	FACS 3445	4
Component Area IV	3	General Electives/Minor	5
Component Area IX	3	MATH Elective	3
FACS 3367	3	MGMT 3310	3
FACS 3377	3		
	15		15

Fourth Year

Fall	Hours	Spring	Hours
Advanced Electives/Minor	13	Advanced Electives/Minor	7
FACS 4362	3	FACS 4369	3
		FACS 4370	3
	16		13

Total Hours: 120

1 Satisfies the Core Curriculum requirement for Component Area I (Communication).

2 Satisfies the Core Curriculum requirement for Component Area VI (U.S. History).

3 Satisfies the Core Curriculum requirement for Component Area II (Mathematics).

4 Satisfies the Core Curriculum requirement for Component Area VII (Political Science/Government).

Notes

FACS 4362 requires Junior Standing.

3 hours of Biology or Chemistry is a prerequisite for FACS 2362 and satisfies 4 hours of the Core Curriculum requirement for Core Component Area III (Life and Physical Science).

FACS 4369 requires department approval and 100 hours of course work completed.

ACCT 2301 requires 18 hours of course work completed.

MGMT 3310 requires 50 hours of course work completed.

A minor in General Business Administration or Management is strongly recommended.

Bachelor of Science, Major in Interior Design

Code	Title	Hours
Bachelor of Science, Major in Interior Design		
Core Curriculum		
Component Area I (Communication)		6
Component Area II (Mathematics)		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3

Component Area IX (Component Area Option)		4
Degree Specific Requirements		
MATH 1314	Pre Calculus Algebra [1]	3
or MATH 1332	College Mathematics	
Natural Sciences (Lab Sciences - 8 Additional hours above requirements for Component Area III)		8
Major Core		
ARTS 1316	Drawing	3
FACS 4362	Presentation Techniques	3
Major		
FACS 1360	Basic Principles of Design [2]	3
FACS 2361	History of Furnishings I	3
FACS 2364	Design Theory And Materials	3
FACS 2365	Digital Drawing for ID	3
FACS 2369	Introduction To Textiles	3
FACS 2386	Space Planning Fundamentals	3
FACS 2387	Architectural Graphics For Int	3
FACS 2388	Building Systems For Interiors	3
FACS 3332	Lighting Applicans Interiors	3
FACS 3337	Design Process	3
FACS 3338	Residential Design	3
FACS 3360	Int Dsgn Prof Prac & Procedure	3
FACS 3361	History of Furnishings II	3
FACS 3377	Codes,Stndrds & Facility Maint	3
FACS 4330	Commercial Design I	3
FACS 4331	Commercial Design II	3
FACS 4369	Internship	3
ETCM and ARTS Core		
ARTS 3385	Art History Survey II	3
ARTS 4384	Modern Art Before 1945	3
ETCM 2363	Architectural Design	3
ETCM 3372	Construction Drafting	3
Electives		
Advanced Elective ETCM		3
General Elective		1
Total Hours		120

1 Satisfies Core Curriculum requirement for Component Area II (Mathematics).

2 Satisfies Core Curriculum requirement for Component Area V (Creative Arts).

Notes

A minimum grade of C is required for Interior Design majors in all FACS, ARTS, and ETCM courses and in prerequisites for these courses. The program requires a 2.5 GPA.

FACS 1360 is a prerequisite for FACS 2364, FACS 2365, and FACS 2387.

MATH 1332 or MATH 1314 is a prerequisite for FACS 2388.

FACS 1360 or FACS 2364 is a prerequisite for ETCM 2363.

FACS 2364 and FACS 2388 are prerequisites for FACS 3337.

ETCM 2363 is a prerequisite for FACS 3338, FACS 4330, and FACS 4331.

ARTS 3385 is a prerequisites for ARTS 4384.

Passage of a sophomore portfolio review is required prior to taking FACS 3337.

FACS 4362 requires Junior Standing

FACS 4369 requires department approval and 100 hours of course work completed.

First Year

Fall	Hours	Spring	Hours
ENGL 1301[1]	3	ARTS 1316	3
FACS 1360[2]	3	ENGL 1302[1]	3
HIST 1301[3]	3	HIST 1302[3]	3
MATH 1314 or 1332[4]	3	Component Area III	4
Component Area III	4	Component Area VIII	3
	16		16

Second Year

Fall	Hours	Spring	Hours
FACS 2364	3	FACS 2361	3
FACS 2386	3	FACS 2365	3
FACS 2387	3	FACS 2369	3
POLS 2305[5]	3	FACS 2388	3
Component Area IV	3	POLS 2306[5]	3
Component Area IX	1		
	16		15

Third Year

Fall	Hours	Spring	Hours
ETCM 2363	3	ARTS 3385	3
FACS 3332	3	FACS 3338	3
FACS 3337	3	FACS 3360	3
FACS 3361	3	FACS 3377	3
Lab Science	4	Lab Science	4
	16		16

Fourth Year

Fall	Hours	Spring	Hours
FACS 4330	3	ARTS 4384	3
FACS 4362	3	ETCM 3372	3
ETCM Advanced Elective	3	FACS 4331	3
Component Area IX	3	FACS 4369	3
General Elective	1		
	13		12

Total Hours: 120

1 Satisfies Core Curriculum requirement for Component Area I (Communications).

2 Satisfies Core Curriculum requirement for Component Area V (Creative Arts).

3 Satisfies Core Curriculum requirement for Component Area VI (U.S. History).

4 Satisfies Core Curriculum requirement for Component Area II (Mathematics).

5 Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).

Notes

A minimum grade of C is required for Interior Design majors in all FACS, ARTS, and ETCM courses and in prerequisites for these courses. The program requires a 2.5 GPA.

FACS 1360 is a prerequisite for FACS 2364, FACS 2365, and FACS 2387.

MATH 1332 or MATH 1314 is a prerequisite for FACS 2388.

FACS 1360 or FACS 2364 is a prerequisite for ETCM 2363.

FACS 2364 and FACS 2388 are prerequisites for FACS 3337.

ETCM 2363 is a prerequisite for FACS 3338, FACS 4330, and FACS 4331.

ARTS 3385 is a prerequisites for ARTS 4384.

Passage of a sophomore portfolio review is required prior to taking FACS 3337.

FACS 4362 requires Junior Standing

FACS 4369 requires department approval and 100 hours of course work completed.

Minor in Family and Consumer Sciences

Students seeking a minor in Family and Consumer Sciences are required to complete a mininum of 18 semester credit hours.

Code	Title	Hours
Minor in Family and Consumer Science		
FACS 2368	Consumer Education	3
or FACS 4362	Presentation Techniques	
Electives [1]		9
Advanced Electives		6
Total Hours		18

[1] The remainder of the courses come from a specific program area (fashion merchandising; food science and nutrition; food services management; general family and consumer science; or interior design.

Department of Kinesiology

Chair: Dr. Emily Roper, 936-294-1169

Website: Department of Kinesiology (http://www.shsu.edu/academics/health-sciences/kinesiology)

Mission

The mission of the Kinesiology program is to advance students' understanding of relationships among movement, exercise, and skill that occur in the contexts of development, learning, rehabilitation, and training. The program seeks to prepare future professionals for movement-related fields such as teaching, coaching, personal exercise, training and fitness. Learning occurs through the study of movement and exercise processes within a framework that emphasizes the clinical and practical implications of theory and research.

Highlights

- Nationally recognized (CAEP- SHAPE America; previously NCATE) teacher certification program
- The Bachelor of Science in Athletic Training is Nationally Accredited by the Commission on Accreditation of Athletic Training Education
- Successful completion of the BS in Athletic Training degree prepares individuals to sit for the National Certification Exam from the Board of Certification
- Web-based courses taught by qualified instructors with extensive online training
- Outstanding faculty and staff
- Value student diversity and embrace various ethnic and cultural backgrounds
- Faculty with experience working in their respective fields related to their academic expertise

Suggested Minors and Elective Blocks

- Teacher Certification students will minor in secondary education but are also highly encouraged to select a second minor in another content area which is taught within the public schools.
- Kinesiology Generalist students can choose any content area for a minor.
- Clinical Exercise Science, Applied Exercise Science, and Athletic Training majors do not have to choose a minor, but they can if they are interested in one.
- Clinical Exercise Science students interested in Physical Therapy recommended to take PHYS 1302, PHYS 1102, and PSYC 3374 and may need 1-3 hours of medical terminology.
- Clinical Exercise Science students interested in Occupational Therapy recommended to take SOCI 1301, PSYC 3331 PSYC 3374, and PSYC 3333 with PSYC 3133 may need 1-3 hours of medical terminology.
- Applied Exercise Science students interested in Occupational Therapy recommended to take SOCI 1301, PSYC 3331 PSYC 3374 and PSYC 3333 with PSYC 3133 may need 1-3 hours of medical terminology.

Career Opportunities

- Corporate fitness specialists
- Commercial fitness specialists
- Hospital-based wellness coordinator
- Allied health pre-professional graduate programs for Occupational Therapy (masters level degree) and Physical Therapy (doctoral level degree)
- Cardiac rehabilitation specialists
- Assistants to chiropractors and physical therapists
- Recreational specialists in camps, communities and YMCA's
- Personal trainer - with completed certification
- All Levels Physical Education Teacher Education Certification - as a PETE major
- Athletic training (with successful completion of the Athletic Training degree) http://www.shsu.edu/academics/health-sciences/kinesiology/undergraduate/pre-professional-athletic-training-students.html

Program Specific Requirements

Those seeking Teacher Certification must have a minimum GPA of 2.75 (includes transfer and SHSU hours) and must earn a "C" or better in their Kinesiology and Education courses.

All Kinesiology majors must earn a "C" or better in their Kinesiology upper level (3000 and 4000 level) courses.

Curriculum

The curriculum integrates the physiological, biomechanical, and psycho-social bases of movement. Students develop their own movement skills, which transition into a focus on movement analysis, physiological function, and skill assessment. Students gain greater depth as they consider problems related to exercise, fitness, and motor skill development within the context of lifestyle physical activity (i.e. play, games, sport, and other forms of human motor behavior). Students finish the program with strong theoretical and problem solving skills based on a comprehensive knowledge of movement and exercise science. It is expected that graduates will be able to apply their knowledge and skills to a wide variety of movement-related problems and career possibilities.

- Bachelor of Science, Major in Kinesiology
- Bachelor of Science, Major in Kinesiology with Teaching Certification
- Bachelor of Science, Major in Kinesiology (Applied Exercise Science)
- Bachelor of Science, Major in Kinesiology (Clinical Exercise Science)
- Bachelor of Science, Major in Athletic Training
- Minor in Kinesiology

Student Organizations

KHRASH — Kinesiology, Health & Recreation of Sam Houston — promotes healthy lifestyles; open to all SHSU students.

Internships

Students completing the Applied Exercise Science, Clinical Exercise Science, and Athletic Training degree plans complete a 6-credit, 400-hour internship at a site which is aligned with their career aspirations under the instruction and supervision of a qualified and experienced professional in the field.

Scholarships

- **Betty Alexander Scholarship**—Kinesiology major with at least two years of academic preparation at SHSU having earned a minimum of 3.0 in the major.
- **Department of Health & Kinesiology Scholarship**—Health or Kinesiology major demonstrating financial need with a satisfactory GPA.
- **H.O. "Molly" Crawford Scholarship**—Male, junior standing in Kinesiology seeking teacher certification with at least a 2.5 GPA and demonstrating financial need.
- **Joe and Mary Kirk Scholarship**—Male, senior standing in Kinesiology seeking teacher certification with at least a 2.8 GPA.
- **Margaret Powell Award**—Female majoring in Kinesiology displaying excellence in academics.
- **Robert J. Wagner Memorial Scholarship**—Graduate student in Adult Fitness Management with 3.0 GPA, 1000 GRE and 3.5 graduate GPA reflecting a lifestyle of physical fitness and demonstrating financial need.
- **Robert L. Case Health & Kinesiology Wellness Scholarship**—Health or Kinesiology major displaying leadership potential with at least a 3.0 GPA and reflecting a high level of fitness.

Chair: **Jennifer Johnson Didier**

Chair: **Gary L Oden**

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Bachelor of Science - Major in Athletic Training

Athletic trainers (ATs) are highly qualified, multi-skilled health care professionals who collaborate with physicians to provide preventative services, emergency care, clinical diagnosis, therapeutic intervention and rehabilitation of injuries and medical conditions (National Athletic Training Association (https://www.nata.org/about/athletic-training))

Admission Requirements

The Athletic Training Program maintains a competitive admission process, and the number of students admitted to the program will depend on the number of placements available (typically 10-15 students annually). Students must meet the following requirements for consideration of admission to the SHSU Athletic Training Program.

1. Students seeking admission into the Athletic Training Program must complete a minimum of 53 credit hours to apply and with a cumulative GPA ≥ 2.75. The 53 credit hour Pre-Professional Athletic Training Curriculum (http://www.shsu.edu/academics/health-sciences/kinesiology/undergraduate/pre-professional-athletic-training-students.html) is made up of 42 credit hours of core requirements as well as specific program prerequisites which include: BIOL 2401[1] or BIOL 2403, and BIOL 2402[1] or BIOL 2404, CHEM 1411 or CHEM 1406, PSYC 1301, MATH 3379[2], KINE 2115, ATTR 2300, and ATTR 2110. No grade less than a 'C' in the Pre-Professional Athletic Training curriculum will be accepted.

Code	Title	Hours
Course Requirements		
ATTR 2300	Intro to Athletic Training	3
ATTR 2110	Taping and Bandaging	1
BIOL 2401	Human Anatomy [1]	4
or BIOL 2403	Human Anatomy & Physiology I	
BIOL 2402	Human Physiology [1]	4
or BIOL 2404	Human Anatomy & Physiology II	
CHEM 1411	General Chemistry I	4
or CHEM 1406	Inorganic & Envir Chemistry	
KINE 2115	Lifetime Health and Wellness	1
MATH 3379	Statistical Mthods In Practice [2]	3
PSYC 1301	Introduction To Psychology	3

2. Earn a grade of 'B' or better in KINE 2115, ATTR 2300, and ATTR 2110.
3. Must submit proof of current CPR/AED for Health Care Professionals (see list of approved certifications per BOC) (http://bocatc.org/ats/maintain-certification/emergency-cardiac-care) certification. The majority of clinical sites require or recommend the American Heart Association BLS for the Healthcare Provider Certification.
4. Applicants must complete the on-line SHSU Athletic Training Program Application. Applicants must submit the completed SHSU Athletic Training Program Application no later than 5:00 pm on the last day of the application period.
5. Applicants, who make the finalist selection, will be invited to and must complete a professional interview with the selection committee.
6. Applicants must submit proof of immunizations using the program's immunization review form.
7. Pre-professional student evaluations from pre-professional clinical experiences in ATTR 2300 and all behavioral incident reports from pre-professional clinical experiences in ATTR 2300 will be taken into consideration for program admission decisions.
8. Admission and completion of the program does not guarantee employment. Criminal history and drug screening can have an impact on future employability.

An Athletic Training Program Selection Committee will be made up of faculty and staff members, licensed health care professionals, and those who serve as clinical preceptors for the program. The number of students accepted each application period is determined by the number of faculty and clinical preceptors available for adequate advisement, mentorship, supervision, and learning. Once the selection committee has selected the candidates for admission to the program, the Athletic Training Program will send each applicant an acceptance letter (approximately May 1 – June 1). Applicants who accept the invitation to enter the program must return an acceptance form prior to July 1. If the applicant chooses not to enter the program, the selection committee shall have a list of alternates in order of rank to offer program admission.

1 Students must either take BIOL 2401 and BIOL 2402 as an 8 hour sequence, or they can take BIOL 2403 and BIOL 2404 as an 8 hour sequence.

2 Statistics course must meet prerequisites for HLTH 3360 Epidemiology

Conditional Admissions

The Athletic Training Program has a competitive admission process, and the number of students will depend on the number of placements available (typically 10-15 students annually). There may be situations in which there is availability regarding student numbers where conditional admissions

may be considered by the selection committee. Conditional admission to the Athletic Training Program may be considered in one or more of the following circumstances:

1. Applicant has a cumulative GPA ≥ 2.5.
2. The Applicant has no more than one grade in the Pre-Professional Athletic Training curriculum below the grade of C.
3. The Applicant is within four credit hours of completing the Pre-Professional Athletic Training curriculum.

Students who are selected for conditional admission into the Athletic Training Program have only one semester to meet the full admission requirements of the program (see Admission Requirements above), or, in the case of GPA, show improvement in overall GPA. Students who are conditionally admitted, and do not meet the conditions set forth by the Athletic Training Program and Selection Committee, that were not due to circumstances beyond their control, will be suspended from the program. Students suspended from the program must wait one year before applying for re-admission to the program.

Retention Criteria

Students admitted to the Athletic Training Program must meet the following criteria to remain in the program in good standing:

1. The student must maintain a cumulative GPA of 2.60 or higher.
2. The student must complete all Clinical Experience courses and Internship courses with a grade of “B” or better.
3. The student must earn a "C" or better on all courses within the block of Athletic Training major courses on their degree plan.

If a student does not meet one or more of the above listed retention criterion, the student will be placed on a probationary period with the Athletic Training Program. A student on probation with the program may be restricted from enrolling in subsequent clinical experience courses. This can delay the student’s progression through the program and can delay the program completion date for that student. If the student does not complete or correct the unsatisfactory work by the end of the probationary period, the student may be suspended from the program. Students suspended from the program must wait one year before applying for re-admission to the program.

Student Grievances

Students who have questions or concerns regarding admission decisions are encouraged to meet with the Athletic Training Program Director and/or the Chair of the Department of Kinesiology.

All formal academic grievances must follow guidelines established in the SHSU Academic Policy Statement 900823. These procedures are outlined for academic grievances including: course grades, unauthorized class absences or tardiness, suspension for academic deficiency, alleged unprofessional conduct related to academic matters, graduate comprehensive and oral examinations, theses and dissertations, and withdrawal or suspension of privileges related to degree-required clinical rotation, internship, or other clinical service delivery in professional degree programs.

Transfer Students

The program length of two-years and the program course sequence is designed to meet the needs of a transfer student. Transfer students must meet all admission requirements or conditional admission requirements to be considered for admission to the program. Students transferring from another institution of higher learning, have earned dual credit or other transferable credits, should follow the Pre-Professional Athletic Training Curriculum guide and meet with a Faculty Advisor in Athletic Training to determine readiness to apply to the Athletic Training Program.

For any pre-professional prerequisite courses or athletic training major courses taken at another institution, a course description and syllabus must be submitted to the Athletic Training Program Director to determine transferability of those course credits into the student’s degree plan. The Athletic Training Program Director will review the course description and syllabus to determine course equivalency based on course objectives and content alignment with the current Commission on Accreditation of Athletic Training Education (CAATE) competencies.

Clinical Experience and Internship Requirements

The Athletic Training Program collects information for students which is required by clinical experience sites and internship sites which include background checks, drug screenings, proof of immunizations, and HIPAA training.

Applicants should be aware that background checks and drug screenings must be done at the beginning of the fall semester for those students who have been accepted to the program. The cost of background checks and drug screenings will be paid for by the student.

Additionally, annual HIPAA training is required for all students in the Athletic Training Program. The cost of the training must be paid by the student.

SHSU does not control the requirements of specific clinical site rotations or internship sites. Individual clinical sites and internship sites may have further requirements. The cost of any additional requirements will be the responsibility of the individual student.

Admission and completion of the program does not guarantee employment. Criminal history and drug screening can have an impact on future employability.

Cost of Program and Fees

The cost of tuition and fees at Sam Houston State University can be found on the Admissions (http://www.shsu.edu/admissions/cost.html) web page. Additional cost of the program may include:

1. Students who are accepted to the Athletic Training Education program will be responsible for costs associated with background checks, drug screenings, and HIPAA Training.
2. Fees may be assessed for on-line courses that a student chooses to register for.
3. Students are required to have access to the ATrack on-line database where each individual student will upload documents, log hours, and track progress on learned competencies across the program. ATrack is a free service to students who are student-members of the National Athletic Trainers' Association (NATA). Student non-members will be required to pay a fee for use of the ATrack system on an annual basis as long as the student is in the program.
4. Students must have clothing which complies with the dress code/policy at individual clinical and internship sites. Most commonly this includes khaki slacks and/or shorts, polo shirt, and athletic footwear with a closed toe. At some clinical and internship sites, students may be required to dress business formal which may include a dress shirt or blouse, tie, suit or jacket, and dress shoes.
5. Students are responsible for providing their own transportation to all clinical and internship sites.
6. Students may be responsible for additional immunizations, background checks, or drug screening at some clinical and internship sites. Students will have input on their assignment to these locations.
7. Students who choose to study abroad will be required to pay additional costs associated with obtaining a passport and travel expenses.

Bachelor of Science - Major in Athletic Training

Code	Title	Hours
Bachelor of Science - Major in Athletic Training		
Core Curriculum		
Component Area I (Communication)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Science) [2]		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences) [3]		3
Component Area IX (Component Area Option) [4]		4
Degree Specific Requirements		
BIOL 2401	Human Anatomy [2]	4
or BIOL 2403	Human Anatomy & Physiology I	
BIOL 2402	Human Physiology	4
or BIOL 2404	Human Anatomy & Physiology II	
CHEM 1411	General Chemistry I [2]	4
or CHEM 1406	Inorganic & Envir Chemistry	
PSYC 1301	Introduction To Psychology [3]	3
College Level Math [1]		3
MATH 3379	Statistical Mthods In Practice	3
or STAT 3379	Statistical Methds In Practice	
Athletic Training Major [5]		
ATTR 2300	Intro to Athletic Training	3
ATTR 2110	Taping and Bandaging	1
ATTR 3300	Admin of Athletic Training	3
ATTR 3370	Prevention & Care of Injuries	3
ATTR 3383	Head & Face Injuries in Sport	3
ATTR 3369	Therapeutic Interventions I	3
ATTR 4300	Care of the Lower Extremity	3
ATTR 4310	Care of the Upper Extremity	3
ATTR 4369	Therapeutic Interventions II	3

ATTR 4375	Gen Med Conditions in Sport	3
FACS 2362	Nutrition	3
HLTH 2383	Multicultural Health Issues	3
HLTH 3360	Epidemiology	3
KINE 2114	Wgt Train & Phy Conditioning	1
KINE 2115	Lifetime Health and Wellness [4]	1
KINE 3362	Functional Kinesiology	3
KINE 3373	Physiology Of Exercise	3
KINE 4335	Sport and Exercise Psychology	3
KINE 4373	Adv Tpcs In Physlgy Of Exercis	3
KINE 4377	Prin Exer Testing/Prescription	3
Experiential Learning Courses		
Complete the following in sequence: [6]		
ATTR 3291	Clinical Experiences in Athletic Training I	2
ATTR 3292	Clinical Experiences in Athletic Training II	2
KINE 4394	Internship (Taken for two semesters.)	3
KINE 4394	Internship	3
ATTR 4291	Clinical Experiences in Athletic Training III	2
ATTR 4292	Clinical Experiences in Athletic Training IV	2
The following lab classes are taking concurrently with noted lecture class		
ATTR 3169	Therapeutic Interv I Lab (taken with ATTR 3369)	1
ATTR 3170	Prevention and Care of Injuries LAB (taken with ATTR 3370)	1
ATTR 4100	Lower-Extremity Injuries Lab (taken with ATTR 4300)	1
ATTR 4110	Upper-Extremity Injuries Lab (taken with ATTR 4310)	1
ATTR 4169	Therapeutic Interventions II Lab (taken with ATTR 4369)	1
ATTR 4175	Gen Med Conditions Lab (taken with ATTR 4375)	1
Total Hours		122

1 Satisfies Core Curriculum requirement for Component Area II (Mathematics). MATH 1314 is recommended.

2 Satisfies Core Curriculum requirement for Component Area III (Life and Physical Science).

3 Satisfies Core Curriculum requirement for Component Area VIII (Political Science/Government).

4 Satisfies 1 semester credit hour of Core Curriculum requirement for Component Area IX (Component Area Option).

5 You must earn a "C" or better for all Athletic Training Major courses.

6 Experiential learning courses include laboratory classes, clinical education, and internship experiences. These classes reinforce the sequence of formal instruction of athletic training knowledge, skills, and clinical abilities including clinical decision-making. Clinical experience and internship courses provide students with authentic, real-time opportunities to practice and integrate athletic training knowledge, skills, and clinical abilities, including clinical decision-making.

Notes

Degree must have 120 hours with at least 42 advanced hours (3000 and 4000) taken at a four year institution.

Consult current University catalog for questions concerning transfer courses and residency requirements.

All Athletic Training majors must earn a "C" or better in all major requirement courses.

Students must either take BIOL 2401 and BIOL 2402 as an 8 hour sequence, or they can take BIOL 2403 and BIOL 2404 as an 8 hour sequence.

BIOL 2402 requires a prerequisite of BIOL 2401 and CHEM 1406 or CHEM 1411, must earn a "C" or better.

BIOL 2404 requires a prerequisite of BIOL 2403 must earn a "C" or better.

MATH 3379 requires 3 hours of college Math.

ATTR courses must be taken in prescribed order and sequence with associated lab and clinical courses within the BS in Athletic Training Program.

ATTR 2300 requires department approval.

KINE 4377 requires a prerequisite of KINE 3362 and KINE 3373.

BIOL 2401 or BIOL 2403 is a prerequisite for KINE 3362 and FACS 2362.

All course prerequisites can be located within the course descriptions.

First Year

Fall	Hours	Spring	Hours	Summer	Hours
BIOL 2401 or 2403[1]		4 CHEM 1411 or 1406[1]		4 COMS 1361	3
ENGL 1301[2]		3 ENGL 1302[2]		3 POLS 2305[5]	3
HIST 1301[3]		3 HIST 1302[3]		3	
MATH 1314[4]		3 Component Area V (Creative Arts)		3	
	13		13		6

Second Year

Fall	Hours	Spring	Hours	Summer	Hours
BIOL 2402 or 2404[1]		4 ATTR 2300		3 KINE 3362	3
KINE 2114		1 ATTR 2110		1	
POLS 2306[5]		3 FACS 2362		3	
PSYC 1301		3 HLTH 2383		3	
SOCI 2319 or PHIL 2306		3 KINE 2115		1	
		STAT 3379 or MATH 3379		3	
	14		14		3

Third Year

Fall	Hours	Spring	Hours	Summer	Hours
ATTR 3170		1 ATTR 3169		1 KINE 4394[6]	3
ATTR 3291		2 ATTR 3292		2 KINE 4394[6]	3
ATTR 3370		3 ATTR 3369		3	
ATTR 3383		3 ATTR 4300		3	
KINE 3373		3 ATTR 4100		1	
KINE 4335		3 HLTH 3360		3	
	15		13		6

Fourth Year

Fall	Hours	Spring	Hours
ATTR 4110		1 ATTR 3300	3
ATTR 4169		1 ATTR 4175	1
ATTR 4291		2 ATTR 4292	2
ATTR 4310		3 ATTR 4375	3
ATTR 4369		3 KINE 4377	3
KINE 4373		3	
	13		12

Total Hours: 122

1 Satisfies Core Curriculum requirement for Component Area III (Life and Physical Science).

2 Satisfies Core Curriculum requirement for Component Area I (Communications).

3 Satisfies Core Curriculum requirement for Component Area VI (U.S. History).

4 Satisfies Core Curriculum requirement for Component Area II (Mathematics).

5 Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).

6 3 semester credit hours can be substituted for Study Abroad.

Bachelor of Science, Major in Kinesiology

This degree is considered a generalist degree that will prepare students to enter the profession of Kinesiology. Graduates may be employed in work sites, hospitals, recreational facilities, and/or educational environments. This degree requires a minor.

Code	Title	Hours
Bachelor of Science, Major in Kinesiology		
Core Curriculum		
Component Area I (Communication)		6
Component Area II (Mathematics)		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4
Degree Specific Requirements		
BIOL 1408	Contemporary Biology [1]	4
or BIOL 1411	General Botany	
or BIOL 1413	General Zoology	
BIOL 2401	Human Anatomy [1]	4
or BIOL 2403	Human Anatomy & Physiology I	
BIOL 2402	Human Physiology	4
or BIOL 2404	Human Anatomy & Physiology II	
CHEM 1406	Inorganic & Envir Chemistry	4
or CHEM 1411	General Chemistry I	
or PHYS 1305 & PHYS 1105	Classical Physics & Thermdynmc and Class Phy & Thermodynamics Lab	
or PHYS 1301 & PHYS 1101	General Phy-Mechanics & Heat and General Physics Laboratory I	
MATH 1314	Pre Calculus Algebra [2]	3
or MATH 1332	College Mathematics	
MATH 1369	Elementary Statistics	3
or STAT 1369	Elementary Statistics	
or MATH 3379	Statistical Mthods In Practice	
Major Core		
KINE 1331	Foundations Of Kinesiology	3
KINE 2114	Wgt Train & Phy Conditioning	1
KINE 2115	Lifetime Health and Wellness [3]	1
KINE 3362	Functional Kinesiology	3
KINE 3364	Motor Learning	3
KINE 3373	Physiology Of Exercise	3
Major		
KINE 3363	Assessment In Kinesiology	3
KINE 4369	Adapted Physical Activity	3
KINE 3378	Adm of Kinesiology & Sport	3
KINE 3388	Sports In Contemp Society	3
Select 18 credit hours Advanced Kinesiology electives [4]		18
Select 2 credit hours of Kinesiology activity classes		2
Electives		
Electives as needed to meet 42 advanced hours		4
Minor (required)		
Select 18 hours of Minor courses		18
Total Hours		120

1 Satisfies the Core Curriculum requirement for Component Area III (Life and Physical Science) and degree specific requirements.

2 Satisfies the Core Curriculum requirement for Component Area II (Mathematics) and degree specific requirements.

[3] Satisfies one hour of the Core Curriculum requirement for Component Area IX (Component Area Option) and major requirement.

[4] Advanced KINE electives Must be KINE 3000 or KINE 4000 level courses

Notes:

All KINE/ATTR majors and/or minors must earn a "C" or better for all KINE and ATTR courses.

CHEM 1406 is a prerequisite for CHEM 1407.

KINE 3362 requires a prerequisite of BIOL 2401 (Core) or BIOL 3410.

KINE 3363, KINE 3364, and KINE 3373 require junior standing.

KINE 1331 should be taken Freshman or Sophomore year

KINE activity courses are 1000 or 2000 level 1-hour courses

KINE 4117 and KINE 4392 can be taken for students wanting to gain research experience.

Students must either take BIOL 2401 and BIOL 2402 as an 8 hour sequence, or they can take BIOL 2403 and BIOL 2404 as an 8 hour sequence.

First Year

Fall	Hours	Spring	Hours	Summer	Hours
BIOL 1408[1]	4	Component Area VIII	3	HIST 1301[5]	3
ENGL 1301[2]	3	CHEM 1406[1]	4	POLS 2306[6]	3
KINE 2115[3]	1	ENGL 1302[2]	3		
KINE Activity Elective	1	KINE 1331	3		
MATH 1314 or 1332[4]	3				
	12		13		6

Second Year

Fall	Hours	Spring	Hours	Summer	Hours
BIOL 2401 or 2403	4	Component Area V	3	Advanced KINE	3
HIST 1302[5]	3	Component Area IX	3	KINE 2114	1
MATH 1369 or STAT 1369	3	CHEM 1407 or PHYS 1305 ***and*** PHYS 1105	4	KINE 3362	3
POLS 2305[6]	3	BIOL 2402 or 2404	4		
	13		14		7

Third Year

Fall	Hours	Spring	Hours	Summer	Hours
Component Area IV	3	KINE 3373	3	Advanced KINE	3
KINE 3363	3	KINE 3378	3	Minor Course	3
KINE 3364	3	Minor Courses	6		
KINE 3388	3				
	12		12		6

Fourth Year

Fall	Hours	Spring	Hours
KINE 4369	3	Advanced KINE	6
Advanced KINE	3	Electives	3
Minor Courses	6	KINE activity elective	1
		Minor Course	3
	12		13

Total Hours: 120

[1] Satisfies Core Curriculum requirement for Component Area III (Life and Physical Science).

[2] Satisfies Core Curriculum requirement for Component Area I (Communications).

[3] Satisfies one hour of the Core Curriculum requirement for Component Area IX (Component Area Option).

[4] Satisfies Core Curriculum requirement for Component Area II (Mathematics).

[5] Satisfies Core Curriculum requirement for Component Area VI (U.S.History).

[6] Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).

Notes:

All KINE/ATTR majors and/or minors must earn a "C" or better for all KINE and ATTR courses.

CHEM 1406 is a prerequisite for CHEM 1407.

KINE 3362 requires a prerequisite of BIOL 2401 (Core) or BIOL 3410.

KINE 3363, KINE 3364, and KINE 3373 require junior standing.

KINE 1331 should be taken Freshman or Sophomore year

KINE activity courses are 1000 or 2000 level 1-hour courses

KINE 4117 and KINE 4392 can be taken for students wanting to gain research experience.

Students must either take BIOL 2401 and BIOL 2402 as an 8 hour sequence, or they can take BIOL 2403 and BIOL 2404 as an 8 hour sequence.

Bachelor of Science, Major in Kinesiology (Applied Exercise Science)

This degree will prepare you for a career in corporate and commercial fitness. Future job prospects include wellness coordinator, personal trainer, strength and conditioning specialist, and other fitness specializations. This track is focused on applied settings where you will be working with the general population, such as at a performance center, commercial gym, or recreational facility. This degree will also allow you to complete your prerequisites for entry into an occupational therapy masters program if you take the suggested elective block (PSYC 3331, PSYC 3374, PSYC 3333, PSYC 3133 plus you may need a medical terminology course of 1-3 hours). Minor is not required.

Code	Title	Hours
Bachelor of Science, Major in Kinesiology (Applied Exercise Science)		
Core Curriculum		
Component Area I (Communication)		6
Component Area II (Mathematics)		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4
Degree Specific Requirements		
BIOL 1411	General Botany [1]	4
or BIOL 1413	General Zoology	
BIOL 2401	Human Anatomy	4
or BIOL 2403	Human Anatomy & Physiology I	
BIOL 2402	Human Physiology	4
or BIOL 2404	Human Anatomy & Physiology II	
CHEM 1406	Inorganic & Envir Chemistry [1]	4
or CHEM 1411	General Chemistry I	
COMS 1361	Public Speaking [2]	3
ENGL 3330	Intro To Technical Writing	3
FACS 2362	Nutrition [3]	3
or FACS 1367	Basic Nutrition	
MATH 1314	Pre Calculus Algebra [4]	3-4
or MATH 1316	Plane Trigonometry	
or MATH 1410	Elementary Functions	
MATH 1369	Elementary Statistics	3
or MATH 3379	Statistical Mthods In Practice	
Select one of the following:		4

PHYS 1301 & PHYS 1101	General Phy-Mechanics & Heat and General Physics Laboratory I	
PHYS 1305 & PHYS 1105	Classical Physics & Thermdynmc and Class Phy & Thermodynamics Lab	
PSYC 1301	Introduction To Psychology [5]	3
Major Core		
KINE 1331	Foundations Of Kinesiology	3
KINE 2114	Wgt Train & Phy Conditioning	1
KINE 2115	Lifetime Health and Wellness [2]	1
KINE 3362	Functional Kinesiology	3
KINE 3364	Motor Learning	3
KINE 3373	Physiology Of Exercise	3
Major		
ATTR 3370	Prevention & Care of Injuries	3
KINE 4362	Biomechanical Analysis	3
KINE 4373	Adv Tpcs In Physlgy Of Exercis	3
KINE 4377	Prin Exer Testing/Prescription	3
KINE 4393	Prncples& Prac Of Adlt Fit Mgt	3
KINE 4394	Internship	3
KINE 4394	Internship	3
Applied Exercise Block		
ACCT 2301	Principles Of Financial Acc	3
BUAD 3355	Business Law	3
MGMT 3310	Principles Of Management	3
MKTG 3310	Principles Of Marketing	3
Elective Block [6]		11
Total Hours		120-121

1 Satisfies Core Curriculum requirement for Component Area III (Life and Physical Sciences).

2 Satisfies Core Curriculum requirement for Component Area IX (Component Area Option).

3 FACS 2362 must be taken at SHSU. FACS 1367 will only be accepted if it is a transfer course.

4 Satisfies Core Curriculum requirement for Component Area II (Mathematics).

5 Satisfies Core Component requirement for Component Area VIII (Social and Behavioral Sciences).

6 Occupational Therapy: PSYC 3331, PSYC 3374, & PSYC 3333 & PSYC 3133 plus you may need a medical terminology course of 1-3 hours; Other Suggested Electives: ATTR 3369 ATTR 4369 ATTR 4300, ATTR 4310, ATTR 3383, & KINE 4369, KINE 4117 and KINE 4392 can be taken for students wanting to gain research experience. 6-9 of these electives may need to be upper level to meet 42 advanced hour requirement.

Notes

All KINE/ATTR majors and/or minors must earn a "C" or better for all KINE/ATTR courses.

BIOL 2402 requires a grade of “C” or higher in BIOL 2401 and CHEM 1406.

Students must either take BIOL 2401 and BIOL 2402 as an 8 hour sequence, or they can take BIOL 2403 and BIOL 2404 as an 8 hour sequence.

MATH 1410 or MATH 1316 or MATH 1420 are prerequisites for PHYS 1301 and PHYS 1101. A grade of “C” or higher is required for courses.

ACCT 2301 requires 18 hours of course work completed.

MATH 3379 requires 3 hours of college math.

MKTG 3310, KINE 3364, and KINE 3373 require Junior Standing.

MGMT 3310 requires 50 hours of course work completed.

ENGL 1301 and ENGL 1302 are prerequisites for ENGL 3330 and satisfy Core Curriculum requirement for Component Area I (Communications).

KINE 3373 requires a prerequisite of BIOL 2401 and BIOL 2402 or BIOL 2403 and BIOL 2404.

ATTR 3370 requires Junior Standing in Kinesiology or permission from Instructor.

BIOL 2401 is a prerequisite for FACS 2362 and KINE 3362.

KINE 3362 and ATTR 3370 requires a prerequisite of BIOL 2401 or BIOL 2403.

KINE 4117 and KINE 4392 can be taken for students wanting to gain research experience.

KINE 4373 requires a prerequisite of KINE 3373.

KINE 4377 requires a prerequisite of KINE 3362 and KINE 3373, must earn a "C" or better.

KINE 4362 requires a prerequisite of KINE 3362, PHYS 1305 and PHYS 1105 or PHYS 1301 and PHYS 1101.

KINE 4393 requires Senior Standing; students must take KINE 4393 at least one semester prior to KINE 4394 Internship.

KINE 4394 requires Senior Standing and completion of KINE 4393 and KINE 4377, must earn a "C" or better.

First Year

Fall	Hours	Spring	Hours	Summer	Hours
BIOL 1411 or 1413[1]	4	ENGL 1302[2]	3	HIST 1301[6]	3
CHEM 1411 or 1406[1]	4	COMS 1361[4]	3	KINE 1331	3
ENGL 1301[2]	3	PHYS 1101 or 1105	1	KINE 2114	1
MATH 1314, 1316, or 1410[3]	3-4	PHYS 1301 or 1305	3	KINE 2115[4]	1
		PSYC 1301[4]	3		
	14-15		13		8

Second Year

Fall	Hours	Spring	Hours	Summer	Hours
ACCT 2301	3	BIOL 2402 or 2404	4	HIST 1302[6]	3
BIOL 2401 or 2403	4	FACS 2362	3	KINE 3364	3
MATH 1369 or 3379	3	POLS 2306[7]	3		
POLS 2305[7]	3	Component Area V	3		
	13		13		6

Third Year

Fall	Hours	Spring	Hours	Summer	Hours
ATTR 3370	3	BUAD 3355	3	Electives (See list below)	5
ENGL 3330	3	KINE 3362	3		
KINE 3373	3	MKTG 3310	3		
MGMT 3310	3	Component Area IV	3		
	12		12		5

Fourth Year

Fall	Hours	Spring	Hours
KINE 4377	3	KINE 4362	3
KINE 4393	3	KINE 4373	3
Advanced Electives (See list below)	6	KINE 4394[8]	3
		KINE 4394[8]	3
	12		12

Total Hours: 120-121

1 Satisfies Core Curriculum requirement for Component Area III (Life and Physical Science).

2 Satisfies Core Curriculum requirement for Component Area I (Communications).

3 Satisfies Core Curriculum requirement for Component Area II (Mathematics).

4 Satisfies Core Curriculum requirement for Component Area IX (Component Area Options).

5 Satisfies Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences) .

6 Satisfies Core Curriculum requirement for Component Area VI (U.S. History).

7 Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).

8 Register for 2 sections to complete 6 semester credit hours

9 Occupational Therapy: PSYC 3331, PSYC 3374, & PSYC 3333 & PSYC 3133 plus you may need a medical terminology course of 1-3 hours; Other Suggested Electives: ATTR 3369 ATTR 4369 ATTR 4300, ATTR 4310, ATTR 3383, & KINE 4369, KINE 4117 and KINE 4392 can be taken for students wanting to gain research experience. 6-9 of these electives may need to be upper level to meet 42 advanced hour requirement.

Notes

All KINE/ATTR majors and/or minors must earn a "C" or better for all KINE/ATTR courses.

BIOL 2402 requires a grade of “C” or higher in BIOL 2401 and CHEM 1406.

Students must either take BIOL 2401 and BIOL 2402 as an 8 hour sequence, or they can take BIOL 2403 and BIOL 2404 as an 8 hour sequence.

MATH 1410 or MATH 1316 or MATH 1420 are prerequisites for PHYS 1301 and PHYS 1101. A grade of “C” or higher is required for courses.

ACCT 2301 requires 18 hours of course work completed.

MATH 3379 requires 3 hours of college math.

MKTG 3310, KINE 3364, and KINE 3373 require Junior Standing.

MGMT 3310 requires 50 hours of course work completed.

ENGL 1301 and ENGL 1302 are prerequisites for ENGL 3330 and satisfy Core Curriculum requirement for Component Area I (Communications).

KINE 3373 requires a prerequisite of BIOL 2401 and BIOL 2402 or BIOL 2403 and BIOL 2404.

It is recommended that you take BIOL 2402 before KINE 3373. ATTR 3370 requires Junior Standing in Kinesiology or permission from Instructor.

BIOL 2401 is a prerequisite for FACS 2362 and **KINE 3362.**

KINE 3362.

KINE 3362 and ATTR 3370 requires KINE 4362 requires **a prerequisite of BIOL 2401 or BIOL 2403. KINE 3362.**

KINE 4117 and KINE 4392 can be taken for students wanting to gain research **experience.**

experience.

KINE 4373 requires KINE 4377 requires a prerequisite of **KINE 3373.** KINE 3362 and KINE 3373.

KINE 4377 requires a prerequisite of KINE 3362 and KINE 3373, must earn a "C" or better.

KINE 4362 requires a prerequisite of KINE 3362, PHYS 1305 and PHYS 1105 or PHYS 1301 and PHYS 1101.

KINE 4362 requires a prerequisite of KINE 3362. KINE 4393 requires Senior Standing; students must take KINE 4393 at least one semester prior to KINE 4394 Internship.

KINE 4394 requires Senior Standing and completion of KINE 4393 and **KINE 4377, must earn a "C" or better.** KINE 4377.

Bachelor of Science, Major in Kinesiology (Clinical Exercise Science)

This degree will prepare you for a career in clinical exercise science. Future job prospects include cardiac rehabilitation, hospital/clinic-based fitness and wellness facilities, performance centers, research facilities, and graduate education in exercise science, sport and human performance, and allied health fields (physical therapy, occupational therapy, prosthetics and orthotics, etc.). This track is focused on clinical and research settings; graduates will work with both clinical and general populations in cardiac rehabilitation facilities, research laboratories, or a sport-science based performance facilities. Minor is not required.

Code	Title	Hours
Bachelor of Science, Major in Kinesiology (Clinical Exercise Science)		
Core Curriculum		
Component Area I (Communication)		6
Component Area II (Mathematics)		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3

Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4
Degree Specific Requirements		
BIOL 1413	General Zoology [1]	4
BIOL 2401	Human Anatomy	4
or BIOL 2403	Human Anatomy & Physiology I	
BIOL 2402	Human Physiology	4
or BIOL 2404	Human Anatomy & Physiology II	
CHEM 1411	General Chemistry I [1]	4
CHEM 1412	General Chemistry II	4
COMS 1361	Public Speaking [2]	3
ENGL 3330	Intro To Technical Writing	3
FACS 2362	Nutrition [3]	3
or FACS 1367	Basic Nutrition	
KINE 2115	Lifetime Health and Wellness [2]	1
MATH 1314	Pre Calculus Algebra [4]	3
MATH 1316	Plane Trigonometry	3
PSYC 1301	Introduction To Psychology [5]	3
PHYS 1301 & PHYS 1101	General Phy-Mechanics & Heat and General Physics Laboratory I	4
Select one of the following:		3-4
BIOL 4374	Biostatistics	
MATH 3379	Statistical Mthods In Practice	
PSYC 3401	Research Methods	
Major Core		
KINE 1331	Foundations Of Kinesiology	3
KINE 2114	Wgt Train & Phy Conditioning	1
KINE 3362	Functional Kinesiology	3
KINE 3364	Motor Learning	3
KINE 3373	Physiology Of Exercise	3
Major		
ATTR 3370	Prevention & Care of Injuries	3
KINE 4362	Biomechanical Analysis	3
KINE 4373	Adv Tpcs In Physlgy Of Exercis	3
KINE 4377	Prin Exer Testing/Prescription	3
KINE 4393	Prncples& Prac Of Adlt Fit Mgt	3
KINE 4394	Internship	3
KINE 4394	Internship	3
Elective Block [6]		16
Total Hours		120-121

1. Satisfies Core Curriculum requirement for Component Area III (Life and Physical Science).
2. Satisfies Core Curriculum requirement for Component Area IX (Component Area Option).
3. FACS 2362 must be taken at SHSU. FACS 1367 will only be accepted if it is a transfer course.
4. Satisfies the Core Curriculum requirement for Component Area II (Mathematics). Students interested in attending PT/OT school should take MATH 1314.
5. Satisfies Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).
6. Physical Therapy: PHYS 1302, PHYS 1102, PSYC 3374; Occupational Therapy:, PSYC 3331, PSYC 3374 & PSYC 3333 with PSYC 3133; PT & OT may also need 1-3 hours of medical terminology; Suggested Electives: ATTR 3369 ATTR 4369, ATTR 4300, ATTR 4310, ATTR 3383 & KINE 4369; KINE 4117 and KINE 4392 can be taken for students wanting to gain research experience. 6-9 of these elective hours may need to be advanced hours to meet 42 advanced hour requirement.

Notes

All KINE/ATTR majors and/or minors must earn a "C" or better for all KINE/ATTR courses.

MATH 1410 or MATH 1316 or MATH 1420 are prerequisites for PHYS 1301 and PHYS 1101. A grade of “C” or higher is required for courses.

CHEM 1411, with a "C" or higher, is a prerequisite for CHEM 1412.

BIOL 2402 requires a grade of “C” or higher in BIOL 2401 and CHEM 1406.

Students must take BIOL 2401 and BIOL 2402 as an 8 hour sequence or BIOL 2403 and BIOL 2404 as an 8 hour sequence.

MATH 3379 requires 3 hours of college math.

BIOL 4374 requires 8 hours of advanced BIOL and MATH 1314 or MATH 1420.

ENGL 1301 and ENGL 1302 are prerequisites for ENGL 3330 and satisfy the Core Curriculum requirement for Component Area I (Communications).

ATTR 3370 and KINE 3364 require Junior Standing.

KINE 4117 and KINE 4392 can be taken for students wanting to gain research experience.

KINE 3362, and ATTR 3370, requires a prerequisite of BIOL 2401 or BIOL 2403.

KINE 4393 requires Senior Standing.

KINE 4394 requires Senior Standing and completion of KINE 4393 and KINE 4377, must earn a "C" or better..

KINE 4362 requires a prerequisite of KINE 3362, PHYS 1301 and PHYS 1101.

KINE 4377 requires a prerequisite of KINE 3362 and KINE 3373, must earn a "C" or better.

KINE 4373 requires a prerequisite of KINE 3373.

KINE 3373 requires a prerequisite of BIOL 2401 and BIOL 2402 or BIOL 2403 and BIOL 2404, Junior Standing.

First Year

Fall	Hours	Spring	Hours	Summer	Hours
BIOL 1413	4	COMS 1361[4]	3	KINE 1331	3
CHEM 1411[1]	4	ENGL 1302[1]	3	KINE 2115[6]	1
ENGL 1301[2]	3	HIST 1301[5]	3	HIST 1302[5]	3
MATH 1314[3]	3	KINE 2114[6]	1		
		PSYC 1301[7]	3		
	14		13		7

Second Year

Fall	Hours	Spring	Hours	Summer	Hours
BIOL 2401 or 2403[8]	4	BIOL 2402 or 2404[5]	4	KINE 3364	3
CHEM 1412	4	Electives[10]	1	KINE 3373	3
POLS 2305[9]	3	FACS 2362	3		
MATH 1316	3	POLS 2306[9]	3		
		PHYS 1301	3		
		PHYS 1101	1		
	14		15		6

Third Year

Fall	Hours	Spring	Hours
Component Area IV	3	Component Area V	3
ENGL 3330	3	ATTR 3370	3
KINE 3362	3	Electives[10]	9
MATH 3379, BIOL 4374, or PSYC 3401[11]	3-4		
	12-13		15

Fourth Year

Fall	Hours	Spring	Hours
Electives[10]		6 KINE 4362	3
KINE 4377		3 KINE 4373	3
KINE 4393		3 KINE 4394[12]	3
		KINE 4394	3
	12		12

Total Hours: 120-121

1 Satisfies 4 semester credit hours of the Core Curriculum requirement for Component Area III (Life and Physical Science).

2 Satisfies Core Curriculum requirement for Component Area I (Communications).

3 Satisfies Core Curriculum requirement for Component Area II (Mathematics).

4 Satisfies three hours of the Core Curriculum requirement for Component Area IX (Component Area Option).

5 Satisfies Core Curriculum requirement for Component Area VI (U.S. History).

6 Satisfies one semester credit hour of Core Curriculum requirement for Component Area IX (Component Area Option).

7 Satisfies Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).

8 Must take 8 hour sequence of BIOL 2401 and BIOL 2402 or 8 hour sequence of BIOL 2403 and BIOL 2404

9 Satisfies Core Curriculum requirement for Component Area VII (Political Science/Governent).

10 Physical Therapy: PHYS 1302, PHYS 1102, PSYC 3374; Occupational Therapy:, PSYC 3331, PSYC 3374 & PSYC 3333 with PSYC 3133; PT & OT may also need 1-3 hours of medical terminology; Suggested Electives: ATTR 3369 ATTR 4369, ATTR 4300, ATTR 4310, ATTR 3383 & KINE 4369; KINE 4117 and KINE 4392 can be taken for students wanting to gain research experience. 6-9 of these elective hours may need to be advanced hours to meet 42 advanced hour requirement.

11 PSYC 3401 will add 1 hour to the degree.

12 Register for 2 sections to complete 6 semester credit hours.

Notes

All KINE/ATTR majors and/or minors must earn a "C" or better for all KINE/ATTR courses.

MATH 1410 or MATH 1316 or MATH 1420 are prerequisites for PHYS 1301 and PHYS 1101. A grade of “C” or higher is required for courses.

CHEM 1411, with a "C" or higher, is a prerequisite for CHEM 1412.

BIOL 2402 requires a grade of “C” or higher in BIOL 2401 and CHEM 1406.

Students must take BIOL 2401 and BIOL 2402 as an 8 hour sequence or BIOL 2403 and BIOL 2404 as an 8 hour sequence.

MATH 3379 requires 3 hours of college math.

BIOL 4374 requires 8 hours of advanced BIOL and MATH 1314 or MATH 1420.

ENGL 1301 and ENGL 1302 are prerequisites for ENGL 3330 and satisfy the Core Curriculum requirement for Component Area I (Communications).

ATTR 3370 KINE 3373, ATTR 3370, and KINE 3364 require Junior Standing.

KINE 4117 and KINE 4392 can be taken for students wanting to gain research experience.

KINE 3362, and ATTR 3370, requires a prerequisite of **BIOL 2401 or** BIOL 2403.

KINE 4393 requires Senior Standing.

KINE 4394 requires Senior Standing and completion of KINE 4393 and **KINE 4377, must earn a "C" or better..** KINE 4377.

KINE 4362 requires a prerequisite of **KINE 3362, PHYS 1301 and PHYS 1101.** KINE 3362.

KINE 4377 requires a prerequisite of KINE 3362 and **KINE 3373, must earn a "C" or better.** KINE 3373.

KINE 4373 requires a prerequisite of KINE 3373.

KINE 3373 requires a prerequisite of BIOL 2401 and BIOL 2402 or BIOL 2403 and BIOL 2404, Junior Standing.

Bachelor of Science, Major in Kinesiology, Physical Education Teacher Education (PETE)

This degree will prepare students to teach Physical Education at the Pre-K through 12th grade level in the state of Texas. Students will participate in methods and student teaching as their culminating component of the degree. Students will be prepared to sit for the Texas Physical Education exam. The content of the program is aligned with the Society of Health and Physical Educator Initial PETE standards.

Code	Title	Hours
Bachelor of Science, Major in Kinesiology with PETE		
Core Curriculum		
Component Area I (Communication)		6
Component Area II (Mathematics)		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4
Degree Specific Requirements		
BIOL 1408	Contemporary Biology [1]	4
or BIOL 1436	Foundations Of Science	
BIOL 2401	Human Anatomy [1]	4
or BIOL 2403	Human Anatomy & Physiology I	
BIOL 2402	Human Physiology	4
or BIOL 2404	Human Anatomy & Physiology II	
CHEM 1406	Inorganic & Envir Chemistry	4
or PHYS 1305 & PHYS 1105	Classical Physics & Thermdynmc and Class Phy & Thermodynamics Lab	
or CHEM 1411	General Chemistry I	
FACS 2362	Nutrition [2]	3
Major Core		
KINE 1331	Foundations Of Kinesiology	3
KINE 2115	Lifetime Health and Wellness [3]	1
KINE 3362	Functional Kinesiology	3
KINE 3364	Motor Learning	3
KINE 3373	Physiology Of Exercise	3
Major		
KINE 1114	Rhythmic Activities & Dance	1
KINE 3117	Competency in Motor Skills (PETE majors only) [4]	1
KINE 3363	Assessment In Kinesiology	3
KINE 3367	Lifespan Motor Development	3
KINE 3368	Skill Themes & Mvmnt Concepts (PETE majors only) [2]	3
KINE 3375	Teaching Seconday Physical Edu (PETE majors only) [2]	3
KINE 4363	Elementary Physical Education (PETE majors only) [2]	3
KINE 4364	Fitness Education [2]	3
KINE 4369	Adapted Physical Activity [2]	3
Select 2 of the following restrictive electives [5]		6
ATTR 3370	Prevention & Care of Injuries	
KINE 3372	Team& Indv/Dual Sprt Skll Anal	
KINE 3388	Sports In Contemp Society	
Select two of the following KINE Activity:		2
KINE 1110	Racquet Sports	

KINE 1113	Basketball And Soccer	
KINE 2113	Softball And Volleyball	
KINE 2114	Wgt Train & Phy Conditioning	
Secondary Education Minor Required		
CISE 3384	The Teaching Profession [6]	3
Methods Block		
CISE 4364	Mth Tch Secondary Schools [7]	3
CISE 4378	Content Literacy [8]	3
CISE 4379	Differentiated Pedagogy [7]	3
CISE 4380	Respon Of Pro Educator [8]	3
Student Teaching		
CIEE 4392	Std Tch Elementary School	3
CISE 4394	Creatng Env For Lrng-Secondary	3
CISE 4396	Std Tch Secondary Classroom	3
Total Hours		120

1 Satisfies the Core Curriculum requirement for Component Area III (Life and Physical Science).

2 Field-based experiences required.

3 Satisfies one hour of the Core Curriculum requirement for Component Area IX (Component Area Option).

4 PETE majors must pass the motor skills assessments KINE 3117 to be eligible for Student Teaching.

5 These 6 hours are waived if a 2nd minor is selected.

6 CISE 3384 must be taken before CISE 4378 and CISE 4380

7 CISE 4364 and CISE 4379 must be taken before CISE 4394, CISE 4396, and CIEE 4392.

8 CISE 4380 and CISE 4378 must be taken before CISE 4364 and CISE 4379.

Notes

Physical Education Teacher candidates must be in the *Healthy Fitness Zones* of at least two of the health-related fitness components of the FITNESSGRAM battery test (body composition, muscular strength and endurance, flexibility, and aerobic capacity) before enrolling in student teaching (CISE 4394, CISE 4396, and CIEE 4392 .

All KINE/ATTR majors and/or minors must earn a "C" or better for all KINE and ATTR courses.

KINE 3362, and ATTR 3370, requires a prerequisite of BIOL 2403 or BIOL 2401.

KINE 3373 requires a prerequisite of BIOL 2401/BIOL 2402 OR BIOL 2403/BIOL 2404.

KINE 3363, KINE 3373, KINE 3364, KINE 3368, ATTR 3370, and KINE 3375 require Junior Standing.

KINE 4363 has a prerequisite of KINE 3368. Field-based experiences required.

KINE 1331 should be taken your Freshman or Sophomore year

CISE 3384 is the prerequisite to all Secondary Education Program Courses. The student must have at least 32 hours on the transcript to enroll for this course.

CISE 4380 and CISE 4378 require 20 hours of Field Experience (10 hours per course). Physical Education teacher education candidates must to take their physical education content certification exam and score a minimum of 75% in order to take the 158 TExES Physical Education EC – 12 certification exam. Physical Education teacher education candidates must apply to the Education Preparation Program and meet Ed Prep and the Secondary Education Program requirements including a 2.75 GPA to enroll in CISE 4364 and CISE 4379.

CISE 4364 and CISE 4379 require the following prerequisites: CISE 3384, CISE 4378, & CISE 4380; Admission to the Educator Preparation Program; and 60 hours of Field Experience (30 hours per course). Physical Education Teacher Candidates must apply for Student Teaching during this semester, take the 158 TExES Physical Education EC–12 certification exam, and take the practice Pedagogy and Professional Responsibilities (PPR) certification test.

Students must either take BIOL 2401 and BIOL 2402 as an 8 hour sequence, or they can take BIOL 2403 and BIOL 2404 as an 8 hour sequence.

First Year

Fall	Hours	Spring	Hours
BIOL 1408[1]	4	Component Area IV	3

ENGL 1301[2]	3 ENGL 1302[2]	3
HIST 1301[3]	3 CHEM 1406 or 1411[1]	4
KINE 1110 or 1113	1 HIST 1302[3]	3
KINE 1331	3 KINE 1114	1
MATH 1314 or 1332[4]	3 KINE 2113 or 2114	1
	17	15

Second Year

Fall	Hours	Spring	Hours
Component Area V	3	KINE 3372	3
Component Area VIII	3	BIOL 2402 or 2404	4
Component Area IX	3	FACS 2362	3
BIOL 2401 or 2403	4	KINE 3362	3
KINE 2115[5]	1	POLS 2306[6]	3
POLS 2305[6]	3		
	17		16

Third Year

Fall	Hours	Spring	Hours
CISE 3384[7]	3	CISE 4378[8]	3
KINE 3117	1	CISE 4380[8]	3
KINE 3363	3	KINE 3364	3
KINE 3367	3	KINE 4363	3
KINE 3368	3	KINE 4364	3
KINE 3373	3		
	16		15

Fourth Year

Fall	Hours	Spring	Hours
KINE 3388	3	CIEE 4392	3
CISE 4364[9]	3	CISE 4394	3
CISE 4379	3	CISE 4396	3
KINE 4369	3		
KINE 3375	3		
	15		9

Total Hours: 120

1 Satisfies Core Curriculum requirement for Component Area III (Life and Physical Science).

2 Satisfies Core Curriculum requirement for Component Area I (Communication).

3 Satisfies Core Curriculum requirement for Component Area VI (US History).

4 Satisfies Core Curriculum requirement for Component Area II (Mathematics).

5 Satisfies 1 credit hour of Core Curriculum Component Area IX (Component Area Option).

6 Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).

7 CISE 3384 must be taken before CISE 4378 and CISE 4380.

8 CISE 4380 and CISE 4378 must be taken before CISE 4364 and CISE 4379.

9 CISE 4364 and CISE 4379 must be taken before CISE 4394, CISE 4396, and CIEE 4392

Notes

Physical Education Teacher candidates must be in the *Healthy Fitness Zones* of at least two of the health-related fitness components of the FITNESSGRAM battery test (body composition, muscular strength and endurance, flexibility, and aerobic capacity) before enrolling in student teaching (CISE 4394, CISE 4396, and CIEE 4392 .

All KINE/ATTR majors and/or minors must earn a "C" or better for all KINE and ATTR courses.

KINE 3362, KINE 3362 and **ATTR 3370,** ATTR 3370 requires a prerequisite of **BIOL 2403 or BIOL 2401.** BIOL 2401 (in Core) or BIOL 3410.

KINE 3373 requires a prerequisite of BIOL 2401/BIOL 2402 OR BIOL 2403/BIOL 2404.

KINE 3363, KINE 3373, KINE 3364, KINE 3368, ATTR 3370, and KINE 3375 require Junior Standing.

KINE 4363 has a prerequisite of KINE 3368. Field-based experiences required.

KINE 1331 should be taken your Freshman or Sophomore year

CISE 3384 is the prerequisite to all Secondary Education Program Courses. The student must have at least 32 hours on the transcript to enroll for this course.

CISE 4380 and CISE 4378 require 20 hours of Field Experience (10 hours per course). Physical Education teacher education candidates must to take their physical education content certification exam and score a minimum of 75% in order to take the 158 TExES Physical Education EC – 12 certification exam. Physical Education teacher education candidates must apply to the Education Preparation Program and meet Ed Prep and the Secondary Education Program requirements including a 2.75 GPA to enroll in CISE 4364 and CISE 4379.

CISE 4364 and CISE 4379 require the following prerequisites: CISE 3384, CISE 4378, & CISE 4380; Admission to the Educator Preparation Program; and 60 hours of Field Experience (30 hours per course). Physical Education Teacher Candidates must apply for Student Teaching during this semester, take the 158 TExES Physical Education EC–12 certification exam, and take the practice Pedagogy and Professional Responsibilities (PPR) certification test.

Students must either take BIOL 2401 and BIOL 2402 as an 8 hour sequence, or they can take BIOL 2403 and BIOL 2404 as an 8 hour sequence.

Minor in Kinesiology

Code	Title	Hours
Minor in Kinesiology		
Requirements		
Kinesiology Core:		
KINE 1331	Foundations Of Kinesiology	3
KINE 2114	Wgt Train & Phy Conditioning	1
KINE 2115	Lifetime Health and Wellness [1]	1
KINE 3362	Functional Kinesiology	3
KINE 3364	Motor Learning	3
KINE 3373	Physiology Of Exercise	3
Choose 6 hours advanced KINE 3000 or 4000 level		6
Select one of the following:		1
KINE 1110	Racquet Sports (tennis/badminton)	
KINE 1113	Basketball And Soccer	
KINE 1114	Rhythmic Activities & Dance	
KINE 1115	Track & Field-Gymnastics	
KINE 2111	Golf & Recreational Activities	
KINE 2113	Softball And Volleyball	
KINE 4117	Practicum [2]	
Total Hours		21

[1] Satisfies one hour in Core Curriculum requirement for Component Area IX (Component Area Option)

[2] KINE 4117 is a research-based experience course and you must have a professor willing to work with you on a project.

Notes

All KINE/ATTR majors and/or minors must earn a "C" or better for all KINE and ATTR courses.

Recommended to take KINE 1331 Freshman or Sophomore year.

KINE 3364 and KINE 3373 require Junior Standing.

KINE 3362 has a prerequisite of BIOL 2401.

Department of Population Health

Chair: Dr. (hpe_rsk@shsu.edu) Ray G. Newman (936)-294-3454

Website: Department of Population Health (http://www.shsu.edu/academics/health-sciences/health/index_new.html)

Mission

The mission of the Department of Population Health is to foster student-centered learning for early and advanced health professionals; to conduct applied, evidence-based research in population health; and to improve health and well-being through community engagement at the local and global levels.

Highlights

- Nationally-recognized
- Honorary affiliation (Eta Sigma Gamma)
- Student-focused
- Value student diversity (various ethnic and cultural backgrounds)
- Seeking to create a diverse pool of graduates for successful entry into the workforce
- Outstanding faculty and staff

Career Opportunities

- Hospitals
- Geriatric facilities
- Correctional Health Care
- Corporate health promotion programs
- Federal, state and local health agencies
- Wellness Settings
- School settings
- Voluntary agencies
- Clinical setting

Health Minor (Chosen by Non-Health University Majors)

- Business
- Communication
- Criminal Justice
- Marketing
- Education
- Kinesiology
- Psychology
- Sociology

- Bachelor of Arts, Major in Bilingual Health Care Studies; Minor in Foreign Language
- Bachelor of Science, Major in Health Care Administration
- Bachelor of Science, Major in Health Sciences
- Bachelor of Science, Major in Public Health
- Bachelor of Science, Major in in Wellness Management
- Minor in Health

Student Organizations

Eta Sigma Gamma - National Health Science Honorary Society - requires a 3.0 GPA in Health and an overall 2.5 GPA; focus is research, service, and education; volunteer hours required.

Internships

The undergraduate Health program provides for majors a 200 or 400-hour professional internship and minors a 200-hour internship. The internship will be conducted in either the school, community, medical or corporate health setting under the instruction and supervision of a qualified and experienced health-care professional.

Scholarships

- **Cady/Huskey Health Education Scholarship**-Full-time junior or senior Health major displaying leadership potential with at least a 3.0 GPA.
- **Department of Health & Kinesiology Scholarship—**Health or Kinesiology major demonstrating financial need with a satisfactory GPA.
- **Robert L. Case Health & Kinesiology Wellness Scholarship**—Health or Kinesiology major displaying leadership potential with at least a 3.0 GPA and reflecting a high level of fitness.
- **Roy G. Moss, Jr., Health Education Scholarship**— Majors in Health or Kinesiology, who demonstrate financial need, have an exemplary GPA, display leadership potential and are actively involved in community health issues.

Chair: **Ray Gene Newman**

Stephen L Brown, PHD (sbrown@shsu.edu), *Associate Professor of Health*, *Department of Population Health*, PHD, Univ of Maryland-College Park; MS, Arizona State University; BS, Brigham Young University

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Ray Gene Newman, PHD (rgn006@shsu.edu), *Professor of Health and Chair of Population Health*, *Department of Population Health*, PHD, New York University; MPHIL, New York University; MBA, California St Un-Long Beach; BS, East Central University

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Interim Faculty

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Jack Dennis Runyan, PHD (jxr136@shsu.edu), *Lecturer of Health*, *Department of Population Health*, PHD, Univ of New Mexico; MA, Univ of Houston-Clear Lake; BS, Univ of Texas Medical Branch

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Courtney Nicole Wallace, MA (cnw008@shsu.edu), *Lecturer of Health*, *Department of Population Health*, MA, Sam Houston State University; BS, Sam Houston State University

Kendra Elizabeth Windisch, MA (kxw029@shsu.edu), *Lecturer of Health*, *Department of Population Health*, MA, Sam Houston State University; BS, Sam Houston State University; BS, Sam Houston State University

Bachelor of Arts, Major in Bilingual Health Care Studies

Code	Title	Hours
Bachelor of Arts, Major in Bilingual Health Care Studies; Minor in Foreign Language		
Core Curriculum		
Component Area I (Communication)		6
Component Area II (Mathematics)		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4
Degree Specific Requirements		
BIOL 2401	Human Anatomy [1]	4
or BIOL 2403	Human Anatomy & Physiology I	
FACS 2362	Nutrition [2]	3
or FACS 1367	Basic Nutrition	
KINE 2115	Lifetime Health and Wellness [3]	1
SOCI 2319	Introduction To Ethnic Studies [4]	3
Major		
HLTH 1360	Fund Hlth Promo & Hlth Careers	3
HLTH 2372	Health & Medical Terminology	3
HLTH 2383	Multicultural Health Issues [5]	3
HLTH 3350	Principles of Public Health	3
HLTH 3355	US Health Care Systems	3
HLTH 3391	Human Diseases	3
HLTH 3392	Health Comm & Literacy	3
HLTH 4365	Health Care Policy	3
HLTH 4371	Patient Navigation	3
HLTH 4375	Health Laws and Ethics	3
HLTH 4387	Community Health	3
HLTH 4393	Prof Prep Health Careers [6,7]	3
HLTH 4394	Internship Program [7]	3
Electives		
Select 13 hours of the following:		13
COUN 3331	Intro To Principles Of Counsln	
HLTH 3360	Epidemiology [8]	
HLTH 3390	Family Life & Sex Education	
HLTH 4117	Practicum	
HLTH 4366	Health Informatics	
HLTH 4395	Special Topics in Health	
PHIL 4371	Death And Dying	
3000 or 4000 level courses in SOCI, FACS, COUN, PHIL, or PHYS		6
Minor in a Foreign Language Required		
Students will take a minimum of 23 hours in Spanish, Arabic - Middle Eastern Studies, French, or German, and must include six hours of the advanced coursework in residence [9]		23
Total Hours		120

1 Course satisfies Core Curriculum requirement for Component Area III (Life and Physical Science) and major requirement.

2 FACS 1367 accepted only as a transfer course.

3 Course satisfies Core Curriculum requirement for Component Area IX (Component Area Option) and major requirement..

4 Course satisfies Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture) and major requirement.
5 Course satisfies Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences) and major requirement.
6 HLTH 4393 requires a prerequisite of HLTH 4387 and the completion of 12 hours of HLTH course work.
7 Prerequisite MATH 1369 or MATH 1370 or MATH 3379.
8 Students must earn a grade of "C' or better in HLTH 4393 and HLTH 4394.
9 FOLG 2311 satisfies three hours of the requirement for Component Area IX (Component Area Option).

Notes:

HLTH 3350, HLTH 3355, HLTH 4365, and HLTH 4366 require Junior Standing.

HLTH 3392 requires the prerequisites of HLTH 1360 and HLTH 1366.

HLTH 4394 requires a prerequisite of HLTH 4393.

Students must earn a grade of "C' or better in HLTH 4393 and HLTH 4394.

HLTH 3360 requires a prerequisite of MATH 1369, MATH 1370, MATH 3379, or STAT 3379.

HLTH 4393 requires a prerequisite of HLTH 4387 and 12 completed hours of Health.

HLTH 4371 requires a prerequisite of HLTH 1360 and HLTH 3391.

Key Competency Areas

- Assessing individual and community needs
- Planning effective health education programs
- Implementing health education programs
- Evaluating the effectiveness of health education programs
- Coordinating the provision of health education services
- Acting as a resource person
- Communication of health and health education needs

First Year

Fall	Hours	Spring	Hours
Component Area II	3	BIOL 2401[4]	4
Component Area III	4	ENGL 1302[1]	3
ENGL 1301[1]	3	FOLG 1411	4
HIST 1301[2]	3	HIST 1302[2]	3
KINE 2115[3]	1	SOCI 2319[5]	3
	14		17

Second Year

Fall	Hours	Spring	Hours
Component Area V	3	BCHS Elective[7]	6
FOLG 1412	4	FOLG 2311[8]	3
HLTH 1360	3	HLTH 2383[9]	3
POLS 2305[6]	3	POLS 2306[6]	3
	13		15

Third Year

Fall	Hours	Spring	Hours
FACS 2362	3	3000-4000 Foreign Language	3
FOLG 2312	3	3000-4000 course in SOCI, FACS, COUN, PHIL, PHYS	3
HLTH 2372	3	HLTH 4387	3
HLTH 3350	3	HLTH 3391	3
HLTH 3355	3	HLTH 3392	3
	15		15

Fourth Year		
Fall	**Hours Spring**	**Hours**
BHCS Elective[7]	4 BHCS Elective[7]	3
3000-4000 Foreign Language	3 3000-4000 Foreign Language	3
HLTH 4365	3 HLTH 4375	3
HLTH 4371	3 HLTH 4394	3
HLTH 4393[10]	3 3000-4000 course in SOCI, FACS, COUN, PHIL, PHYS	3
	16	15

Total Hours: 120

1 Satisfies Core Curriculum requirement for Component Area I (Communication).
2 Satisfies Core Curriculum requirement for Component Area VI (U.S. History).
3 Satisfies one hour of the Core Curriculum requirement for Component Area IX (Component Area Option).
4 Satisfies Core Curriculum requirement for Component Area III (Life and Physical Sciences).
5 Satisfies Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture).
6 Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).
7 Satisfies three hours of the requirement for Component Area IX (Component Area Option).
8 Satisfies the requirement for Component Area VIII (Social and Behavioral Sciences).
9 BCHS Electives: COUN 3331, HLTH 3360, HLTH 3390, HLTH 4117, HLTH 4366, HLTH 4395, PHIL 4371.
10 HLTH 4393 requires a prerequisite of HLTH 4387.

Notes:
Students must earn a grade of "C' or better in HLTH 4393 and HLTH 4394.

HLTH 3350, HLTH 3355, HLTH 4365, and HLTH 4366 require Junior Standing.

HLTH 3392 requires the prerequisites of HLTH 1360 and HLTH 1366.

HLTH 4393 requires a prerequisite of HLTH 4387, and the completion of 12 hours of HLTH course work.

HLTH 4394 requires a prerequisite of HLTH 4393, and the completion of 18 hours of HLTH course work.

HLTH 3360 requires a prerequisite of MATH 1369, MATH 1370, MATH 3379, or STAT 3379.

Key Competency Areas

- Assessing individual and community needs
- Planning effective health education programs
- Implementing health education programs
- Evaluating the effectiveness of health education programs
- Coordinating the provision of health education services
- Acting as a resource person
- Communication of health and health education needs

Bachelor of Science, Major in Health Care Administration

Code	Title	Hours
Bachelor of Science, Major in Health - Health Care Administration		
Core Curriculum		
Component Area I (Communication)		6
Component Area II (Mathematics)		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3

Component Area IX (Component Area Option)		4
Degree Specific Requirements		
BIOL 2401	Human Anatomy [1]	4
or BIOL 2403	Human Anatomy & Physiology I	
BIOL 2402	Human Physiology	4
or BIOL 2404	Human Anatomy & Physiology II	
CHEM 1406	Inorganic & Envir Chemistry [1]	4
FACS 2362	Nutrition [2]	3
or FACS 1367	Basic Nutrition	
KINE 2115	Lifetime Health and Wellness [3]	1
MATH 1314	Pre Calculus Algebra [4]	3
MATH 1369	Elementary Statistics	3
or MATH 1370	Intro to Biomedical Statistics	
or MATH 3379	Statistical Mthods In Practice	
PSYC 1301	Introduction To Psychology [5]	3
Major		
HCA Core Courses		
HLTH 1360	Fund Hlth Promo & Hlth Careers	3
HLTH 2372	Health & Medical Terminology	3
HLTH 2383	Multicultural Health Issues	3
HLTH 3350	Principles of Public Health	3
HLTH 3355	US Health Care Systems	3
HLTH 3360	Epidemiology	3
HLTH 3361	Health Planning & Evaluation	3
HLTH 3391	Human Diseases	3
HLTH 4365	Health Care Policy	3
HLTH 4366	Health Informatics	3
HLTH 4367	Economics for Health Managers [6]	3
or ECON 4350	Health Economics and Finances	
HLTH 4375	Health Laws and Ethics	3
HLTH 4393	Prof Prep Health Careers [7]	3
HLTH 4394	Internship Program [7]	3
HCA Administration Courses		
ACCT 2301	Principles Of Financial Acc	3
BUAD 2301	Business Legal Environment	3
BUAD 3335	Business Communication	3
ECON 2302	Principles Of Microeconomics	3
MGMT 3310	Principles Of Management	3
MGMT 3330	Human Resource Management	3
MKTG 3310	Principles Of Marketing	3
Prescribed Electives		
Select 5 hours of the following:		5
ACCT 2302	Principles Of Managerial Acc	
BANA 2372	Business Analysis	
BIOL 2420	Intro Applied Microbiology	
ECON 2301	Principles Of Macroeconomics	
FINC 3320	Business Finance	
HLTH 2330	First Aid & CPR - Am Red Cross	
HLTH 3385	Safety Education	
HLTH 3390	Family Life & Sex Education	
HLTH 3392	Health Comm & Literacy	
HLTH 4117	Practicum (may be repeated)	

HLTH 4371	Patient Navigation
HLTH 4380	Global Health
HLTH 4387	Community Health
HLTH 4390	Environmental Health
HLTH 4395	Special Topics in Health
PSYC 3374	Development Psychology
Total Hours	120

1 Satisfies Core Curriculum requirement for Component Area III (Life and Physical Science) and major requirement.

2 FACS 1367 accepted only as a transfer course.

3 Satisfies Core Curriculum requirement for Component Area IX (Component Area Option) and major requirement.

4 Satisfies Core Curriculum requirement for Component Area II (Mathematics) and major requirement.

5 Satisfies Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences) and major requirement.

6 ECON 4350 is only offered during the fall and spring term.

7 HLTH 4393 & HLTH 4394 student must earn a “C” grade or better.

Notes

Degree must have 120 hours with at least 42 advanced hours (3000 and 4000) taken at a four year institution,

Consult current University catalog for questions concerning transfer courses and residency requirements.

Students must earn a grade of "C' or better in HLTH 4393 and HLTH 4394.

ACCT 2301 requires 18 hours of course work completed.

BIOL 2402 requires a grade of “C” or higher in BIOL 2401 and CHEM 1406.

BIOL 2404 requires a "C" of higher in BIOL 2402.

HLTH 3350, HLTH 3361, MKTG 3310, HLTH 4365, HLTH 4366, HLTH 4390, and HLTH 4387 require Junior Standing.

HLTH 3360 requires a prerequisite of MATH 1369, MATH 1370, MATH 3379 or STAT 3379.

MGMT 3310 requires 50 hours of course work completed.

MGMT 3330 requires a prerequisite of MGMT 3310.

BUAD 3335 requires a prerequisite of ENGL 1302 which satisfies 3 hours of the Core Curriculum requirement for Component Area I (Communications).

HLTH 4366 requires a prerequisite of HLTH 3350 and HLTH 3355.

HLTH 4393 requires the completion of 12 hours of HLTH course work, HLTH 4387 not required for degree plan.

HLTH 4394 requires a prerequisite of HLTH 4393.

HLTH 3392 requires the prerequisites of HLTH 1360 and HLTH 1366.

ACCT 2302 requires a prerequisite of ACCT 2301.

FINC 3320 requires the prerequisites of ACCT 2302 and MATH 1324 or equivalent. MATH 1324 satisfies the Core Curriculum requirement for Component Area II (Mathematics).

First Year

Fall	Hours	Spring	Hours
CHEM 1406[1]	4	BIOL 2401 or 2402[1]	4
ENGL 1301[2]	3	ENGL 1302[2]	3
KINE 2115[3]	1	MATH 1369, 1370, or 3379	3
MATH 1314[4]	3	HIST 1301[6]	3
PSYC 1301[5]	3	Component Area IV	3
	14		16

Second Year

Fall	Hours	Spring	Hours
BIOL 2402 or 2404	4	HLTH 2383	3
FACS 2362	3	HLTH 3391	3
HIST 1302[6]	3	POLS 2306[7]	3
HLTH 1360	3	Component Area V	3
POLS 2305[7]	3	Component Area IX	3
	16		15

Third Year

Fall	Hours	Spring	Hours
HLTH 2372	3	ACCT 2301	3
HLTH 3350	3	BUAD 2301	3
HLTH 3355	3	HLTH 3361	3
HLTH 3360	3	MGMT 3310	3
ECON 2302	3	Prescribed Elective[8]	3
	15		15

Fourth Year

Fall	Hours	Spring	Hours
BUAD 3335	3	HLTH 4367	3
HLTH 4365	3	HLTH 4375	3
HLTH 4366	3	HLTH 4394[9]	3
HLTH 4393[9]	3	MKTG 3310	3
MGMT 3330	3	Prescribed Elective[8]	2
	15		14

Total Hours: 120

1 Satisfies Core Curriculum requirement for Component Area III. (Life and Physical Science).

2 Satisfies Core Curriculum requirement for Component Area I (Communications).

3 Satisfies one semester credit hour of the Core Curriculum requirement for Component Area IX (Component Area Option).

4 Satisfies Core Curriculum requirement for Component Area II (Mathematics).

5 Satisfies Core Curriculum requirement for Component Area VIII (Social and Behavioral l Sciences).

6 Satisfies Core Curriculum requirement for Component Area VI (U.S. History).

7 Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).

8 Prescribed Electives: ACCT 2302, BANA 2372, BIOL 2420, ECON 2301, FINC 3320, HLTH 2330, HLTH 3385, HLTH 3390 HLTH 4117, HLTH 4371,HLTH 4380, HLTH 4387, HLTH 4390, HLTH 4395, PSYC 3374

9 HLTH 4393 & HLTH 4394 student must earn a “C” grade or better.

Notes

Degree must have 120 hours with at least 42 advanced hours (3000 and 4000) taken at a four year institution,

Consult current University catalog for questions concerning transfer courses and residency requirements.

Students must earn a grade of "C' or better in HLTH 4393 and HLTH 4394.

ACCT 2301 requires 18 hours of course work completed.

BIOL 2402 requires a grade of “C” or higher in BIOL 2401 and CHEM 1406.

BIOL 2404 requires a "C" of higher in BIOL 2402.

HLTH 3350, HLTH 3361, MKTG 3310, HLTH 4365, HLTH 4366, HLTH 4390, and HLTH 4387 require Junior Standing.

HLTH 3360 requires a prerequisite of MATH 1369, MATH 1370, MATH 3379 or STAT 3379.

MGMT 3310 requires 50 hours of course work completed.

MGMT 3330 requires a prerequisite of MGMT 3310.

BUAD 3335 requires a prerequisite of ENGL 1302 which satisfies 3 hours of the Core Curriculum requirement for Component Area I (Communications).

HLTH 4366 requires a prerequisite of HLTH 3350 and HLTH 3355.

HLTH 4393 requires the completion of 12 hours of HLTH course work, HLTH 4387 not required for degree plan.

HLTH 4394 requires a prerequisite of HLTH 4393.

HLTH 3392 requires the prerequisites of HLTH 1360 and HLTH 1366.

ACCT 2302 requires a prerequisite of ACCT 2301.

FINC 3320 requires the prerequisites of ACCT 2302 and MATH 1324 or equivalent. MATH 1324 satisfies the Core Curriculum requirement for Component Area II (Mathematics).

Bachelor of Science, Major in Health Sciences

Code	Title	Hours
Bachelor of Science, Major in Health Sciences		
Core Curriculum		
Component Area I (Communication)		6
Component Area II (Mathematics)		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4
Degree Specific Requirements: 13 Credits Hours		
BIOL 2401	Human Anatomy (core) [1]	4
or BIOL 2403	Human Anatomy & Physiology I	
BIOL 2402	Human Physiology	4
or BIOL 2404	Human Anatomy & Physiology II	
CHEM 1411	General Chemistry I (core) [1]	4
FACS 2362	Nutrition [2]	3
or FACS 1367	Basic Nutrition	
KINE 2115	Lifetime Health and Wellness (core) [3]	1
MATH 1314	Pre Calculus Algebra (core) [4]	3
or MATH 1410	Elementary Functions	
or MATH 1420	Calculus I	
MATH 1370	Intro to Biomedical Statistics	3
or MATH 3379	Statistical Mthods In Practice	
PSYC 1301	Introduction To Psychology (core) [5]	3
PSYC 3374	Development Psychology	3
Major Required Courses: 27 Credit Hours		
HLTH 1360	Fund Hlth Promo & Hlth Careers	3
HLTH 2372	Health & Medical Terminology	3
HLTH 2383	Multicultural Health Issues	3
HLTH 3391	Human Diseases	3
HLTH 3350	Principles of Public Health	3
HLTH 3355	US Health Care Systems	3
HLTH 3360	Epidemiology	3
HLTH 4393	Prof Prep Health Careers [6]	3
HLTH 4394	Internship Program [7]	3
Electives Block: [7]		

Select 38 hours of Electives from the list below. Students may select no more than 20 credit hours of science and math. The remainder of the electives must be from outside science and math. See an advisor for permission to count electives not on this list.	38
Total Hours	120

1 Satisfies Core Curriculum requirement for Component Area III (Life and Physical Science).

2 FACS 1367 accepted only as a transfer course.

3 Satisfies Core Curriculum requirement for Component Area IX (Component Area Option)

4 Satisfies Core Curriculum requirement for Component Area II (Mathematics).

5 Satisfies Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).

6 Students must earn a grade of "C' or better in HLTH 4393 and HLTH 4394.

7 Select 38 hours of track specific requirements not to exceed 20 combined credit hours of Biology, Chemistry, Physics, or Math/Statistics course credit. Must complete 42 credit hours of advanced credit (3000-4000),

Code	Title	Hours
Electives		
HLTH 1366	Lifestyle And Wellness	3
HLTH 2330	First Aid & CPR - Am Red Cross	3
HLTH 3361	Health Planning & Evaluation	3
HLTH 3380	Drug Use and Abuse	3
HLTH 3382	Child & Adolescent Health	3
HLTH 3390	Family Life & Sex Education	3
HLTH 4117	Practicum	1
HLTH 4365	Health Care Policy	3
HLTH 4367	Economics for Health Managers	3
HLTH 4371	Patient Navigation	3
HLTH 4375	Health Laws and Ethics	3
HLTH 4380	Global Health	3
HLTH 4387	Community Health	3
HLTH 4390	Environmental Health	3
HLTH 4394	Internship Program	3
BIOL 1411	General Botany	4
BIOL 1413	General Zoology	4
BIOL 2320	Sustainability and Environment	3
BIOL 2440	Introductory Cell Biology	4
BIOL 3450	Introductory Genetics	4
BIOL 3470	General Microbiology	4
BIOL 4350	Immunology	3
BIOL 4360	Genetic Anlys of Human Disease	3
CHEM 1412	General Chemistry II	4
CHEM 2323 & CHEM 2123	Organic Chemistry I: Lecture and Organic Chemistry I Lab	4
CHEM 2325 & CHEM 2125	Organic Chemistry II: Lecture and Organic Chemistry II: Lab	4
CHEM 3438	Biochemistry I	4
COMS 1361	Public Speaking	3
COMS 3372	Interpersonal Health Comm	3
ENGL 3330	Intro To Technical Writing	3
FORS 3420	Hum Osteol Analys of Hum Bone	4
KINE 3362	Functional Kinesiology	3
KINE 3364	Motor Learning	3
KINE 3367	Lifespan Motor Development	3
KINE 3373	Physiology Of Exercise	3
KINE 4362	Biomechanical Analysis	3

MATH 1316	Plane Trigonometry	3
MATH 1420	Calculus I	4
PHYS 1301 & PHYS 1101	General Phy-Mechanics & Heat and General Physics Laboratory I	4
PHYS 1302 & PHYS 1102	Gen Phy-Snd,Lght, Elec, & Mag and General Physics Laboratory II	4
PSYC 3331	Abnormal Psychology	3
PSYC 3333	Physiological Psychology	3
SOCI 1301	Principles Of Sociology	3
SOCI 3365	Sociology Of Health & Illness	3

Notes

Students must meet with advisor to discuss elective requirements that are necessary for advanced degree in Occupational Therapy, Physical Therapy and Chiropractic.

HLTH 3360 requires a prerequisite of MATH 3379 or STAT 3379.

ENGL 1301 and ENGL 1302 are prerequisites for ENGL 3330 and satisfy the Core Curriculum requirement for Component Area I (Communications).

BIOL 3470 requires the prerequisite of BIOL 1411, BIOL 1413, BIOL 2440, CHEM 1412, BIOL 1411 and BIOL 1413 satisfy 4 to 8 hours of the Core Curriculum requirement for Component Area III (Life and Physical Science).

HLTH 3350, HLTH 4380, HLTH 4387, HLTH 4390, and KINE 3375 require Junior Standing.

MATH 1410 or MATH 1316 or MATH 1420 are prerequisites for PHYS 1301 and PHYS 1101 and satisfy the Core Curriculum requirement for Component Area II (Mathematics). A grade of “C” or higher is required for courses.

KINE 3362 requires a prerequisite of BIOL 2401 (in Core) or BIOL 3410.

BIOL 2402 requires a grade of “C” or higher in BIOL 2401 and CHEM 1406.

BIOL 2404 requires a "C" of higher in BIOL 2403.

Students must earn a grade of "C' or better in HLTH 4393 and HLTH 4394.

First Year

Fall	Hours	Spring	Hours
BIOL 2401 or 2403[1]	4	BIOL 2402 or 2404	4
CHEM 1411[1]	4	ENGL 1302[2]	3
ENGL 1301[2]	3	HIST 1302[3]	3
HIST 1301[3]	3	HLTH 2372	3
MATH 1314, 1410, or 1420[4]	3	KINE 2115[5]	1
	17		13

Second Year

Fall	Hours	Spring	Hours
Component Area IX	3	Component Area IV	3
FACS 2362 or 1367	3	Component Area V	3
HLTH 1360	3	HLTH 2383[6]	3
MATH 3379 or 1370	3	POLS 2306[6]	3
POLS 2305[6]	3	PSYC 3374	3
PSYC 1301	3		
	18		15

Third Year

Fall	Hours	Spring	Hours
Elective Block[7, 8]	9	Elective Block[7, 8]	12
HLTH 3391	3	HLTH 3355	3
HLTH 3350	3	HLTH 3360	3
	15		18

Fourth Year

Fall	Hours Spring	Hours
Elective Block[7, 8]	9 Elective Block[7, 8]	9
HLTH 4393	3 HLTH 4394	3
	12	12

Total Hours: 120

1 Satisfies Core Curriculum requirement for Component Area III (Life and Physical Science).

2 Satisfies Core Curriculum requirement for Component Area I (Communications).

3 Satisfies Core Curriculum requirement for Component Area VI (U.S. History).

4 Satisfies Core Curriculum requirement for Component Area II (Mathematics).

5 Satisfies 1 SCH of Core Curriculum requirement for Component Area IX (Component Area Option).

6 Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).

7 Select 38 hours of Electives from the list below. Students may select no more than 20 credit hours of science and math. The remainder of the electives must be from outside science and math. See an advisor for permission to count electives not on this list.

8 Select 38 hours of track specific requirements not to exceed 20 combined credit hours of Biology, Chemistry, Physics, or Math/Statistics course credit. Must complete 42 credit hours of advanced credit (3000-4000),

Code	Title	Hours
Electives		
HLTH 1366	Lifestyle And Wellness	3
HLTH 2330	First Aid & CPR - Am Red Cross	3
HLTH 3361	Health Planning & Evaluation	3
HLTH 3380	Drug Use and Abuse	3
HLTH 3382	Child & Adolescent Health	3
HLTH 3390	Family Life & Sex Education	3
HLTH 4117	Practicum	1
HLTH 4365	Health Care Policy	3
HLTH 4367	Economics for Health Managers	3
HLTH 4371	Patient Navigation	3
HLTH 4375	Health Laws and Ethics	3
HLTH 4380	Global Health	3
HLTH 4387	Community Health	3
HLTH 4390	Environmental Health	3
HLTH 4394	Internship Program	3
BIOL 1411	General Botany	4
BIOL 1413	General Zoology	4
BIOL 2320	Sustainability and Environment	3
BIOL 2440	Introductory Cell Biology	4
BIOL 3450	Introductory Genetics	4
BIOL 3470	General Microbiology	4
BIOL 4350	Immunology	3
BIOL 4360	Genetic Anlys of Human Disease	3
CHEM 1412	General Chemistry II	4
CHEM 2323 & CHEM 2123	Organic Chemistry I: Lecture and Organic Chemistry I Lab	4
CHEM 2325 & CHEM 2125	Organic Chemistry II: Lecture and Organic Chemistry II: Lab	4
CHEM 3438	Biochemistry I	4
COMS 1361	Public Speaking	3
COMS 3372	Interpersonal Health Comm	3
ENGL 3330	Intro To Technical Writing	3
FORS 3420	Hum Osteol Analys of Hum Bone	4

KINE 3362	Functional Kinesiology	3
KINE 3364	Motor Learning	3
KINE 3367	Lifespan Motor Development	3
KINE 3373	Physiology Of Exercise	3
KINE 4362	Biomechanical Analysis	3
MATH 1316	Plane Trigonometry	3
MATH 1420	Calculus I	4
PHYS 1302 & PHYS 1101	Gen Phy-Snd,Lght, Elec, & Mag and General Physics Laboratory I	4
PHYS 1301 & PHYS 1102	General Phy-Mechanics & Heat and General Physics Laboratory II	4
PSYC 3331	Abnormal Psychology	3
PSYC 3333	Physiological Psychology	3
SOCI 1301	Principles Of Sociology	3
SOCI 3365	Sociology Of Health & Illness	3

Notes

Students must meet with advisor to discuss elective requirements that are necessary for advanced degree in Occupational Therapy, Physical Therapy and Chiropractic.

HLTH 3360 requires a prerequisite of MATH 3379 or STAT 3379.

ENGL 1301 and ENGL 1302 are prerequisites for ENGL 3330 and satisfy the Core Curriculum requirement for Component Area I (Communications).

BIOL 3470 requires the prerequisite of BIOL 1411, BIOL 1413, BIOL 2440, CHEM 1412, BIOL 1411 and BIOL 1413 satisfy 4 to 8 hours of the Core Curriculum requirement for Component Area III (Life and Physical Science).

HLTH 3350, HLTH 4380, HLTH 4387, HLTH 4390, and KINE 3375 require Junior Standing.

MATH 1410 or MATH 1316 or MATH 1420 are prerequisites for PHYS 1301 and PHYS 1101 and satisfy the Core Curriculum requirement for Component Area II (Mathematics). A grade of “C” or higher is required for courses.

KINE 3362 requires a prerequisite of BIOL 2401 (in Core) or BIOL 3410.

BIOL 2402 requires a grade of “C” or higher in BIOL 2401 and CHEM 1406.

BIOL 2404 requires a "C" of higher in BIOL 2403.

Students must earn a grade of "C' or better in HLTH 4393 and HLTH 4394.

Bachelor of Science, Major in Public Health

Code	Title	Hours
Bachelor of Science in Public Health		
Core Curriculum		
Component Area I (Communication)		6
Component Area II (Mathematics)		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4
Degree Specific Requirements		
BIOL 2401	Human Anatomy [1]	4
or BIOL 2403	Human Anatomy & Physiology I	
BIOL 2402	Human Physiology	4
or BIOL 2404	Human Anatomy & Physiology II	

CHEM 1406	Inorganic & Envir Chemistry [1]	4
or CHEM 1411	General Chemistry I	
FACS 2362	Nutrition [2]	3
or FACS 1367	Basic Nutrition	
KINE 2115	Lifetime Health and Wellness [3]	1
MATH 1314	Pre Calculus Algebra [4]	3
or MATH 1410	Elementary Functions	
or MATH 1420	Calculus I	
MATH 1369	Elementary Statistics	3
or MATH 1370	Intro to Biomedical Statistics	
or MATH 3379	Statistical Mthods In Practice	
PSYC 1301	Introduction To Psychology [5]	3
Major		
HLTH 1360	Fund Hlth Promo & Hlth Careers (Freshman)	3
HLTH 2383	Multicultural Health Issues	3
HLTH 3391	Human Diseases	3
HLTH 3350	Principles of Public Health	3
HLTH 3355	US Health Care Systems	3
HLTH 3360	Epidemiology	3
HLTH 3361	Health Planning & Evaluation	3
HLTH 3392	Health Comm & Literacy	3
HLTH 4380	Global Health	3
HLTH 4387	Community Health	3
HLTH 4390	Environmental Health	3
HLTH 4393	Prof Prep Health Careers [6]	3
HLTH 4394	Internship Program	3
Prescribed Electives		
Select 29 hours of the following:		29
HLTH 1366	Lifestyle And Wellness	
HLTH 2330	First Aid & CPR - Am Red Cross	
HLTH 2372	Health & Medical Terminology	
HLTH 3380	Drug Use and Abuse	
HLTH 3385	Safety Education	
HLTH 3390	Family Life & Sex Education	
HLTH 4117	Practicum	
HLTH 4360	Research Methods/Grantsmanship	
HLTH 4361	Mgng Hlth Promo In Workplace	
HLTH 4363	Interventions for Wellness	
HLTH 4364	Directing Wellness Programs	
HLTH 4365	Health Care Policy	
HLTH 4366	Health Informatics	
HLTH 4367	Economics for Health Managers	
HLTH 4371	Patient Navigation	
HLTH 4375	Health Laws and Ethics	
HLTH 4392	Problems In Health	
HLTH 4394	Internship Program	
HLTH 4395	Special Topics in Health	
BIOL 1401	Environmental Science	
BIOL 2420	Intro Applied Microbiology	
CRIJ 4338	Child Abuse And Neglect	
ENGL 3330	Intro To Technical Writing (WE) [1]	
KINE 3362	Functional Kinesiology	

KINE 3373	Physiology Of Exercise
MATH 1316	Plane Trigonometry
PHYS 1101	General Physics Laboratory I
PHYS 1301	General Phy-Mechanics & Heat
POLS 3335	Pol Ethnic Minorities & Gender
POLS 3366	Public Administration
PSYC 3331	Abnormal Psychology
PSYC 3333	Physiological Psychology
PSYC 3374	Development Psychology
SOCI 1301	Principles Of Sociology
SOCI 3365	Sociology Of Health & Illness
SOCI 4334	Sociology Of Disaster
Or other courses approved by Department	
Total Hours	120

1 Satisfies Core Curriculum requirement for Component Area III (Life and Physical Science) and major requirement.

2 FACS 1367 accepted only as a transfer course.

3 Satisfies Core Curriculum requirement for Component Area IX (Component Area Opting) and major requirement.

4 Satisfies Core Curriculum requirement for Component Area II (Mathematics) and major requirement.

5 Satisfies Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences) and major requirement.

6 Students must earn a grade of "C" or better in HLTH 4393 and HLTH 4394.

Notes

Consult current University catalog for questions concerning transfer courses and residency requirements.

Students must earn a grade of "C' or better in HLTH 4393 and HLTH 4394.

BIOL 2402 requires a grade of “C” or higher in BIOL 2401 and CHEM 1406.

HLTH 3350, HLTH 3361, HLTH 4380, HLTH 4387, HLTH 4390, HLTH 4360, HLTH 4363, HLTH 4364, HLTH 4365, HLTH 4366, KINE 3373 require Junior Standing.

HLTH 3360 requires a prerequisite of MATH 1369, MATH 1370, MATH 3379 or STAT 3379.

HLTH 3392 requires the prerequisites of HLTH 1360 and HLTH 1366.

HLTH 4393 requires a prerequisite of HLTH 4387, and the completion of 12 hours of HLTH course work.

HLTH 4392 requires a prerequisite of HLTH 4393 and departmental approval.

HLTH 4394 requires a prerequisite of HLTH 4393.

HLTH 4375 requires a prerequisite of HLTH 1360, HLTH 3355, Senior standing.

FACS 3339 requires a prerequisite of FACS 1367 or FACS 2362.

SOCI 3365 requires a prerequisite of SOCI 1301 which satisfies 3 hours of the Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).

MATH 3379 requires 3 hours of completed course work in college Math.

POLS 3366 requires a prerequisite of POLS 2305.

ENGL 1301 and ENGL 1302 are prerequisites for ENGL 3330 and satisfies the Core Curriculum requirement for Component Area I (Communications).

KINE 3362 requires a prerequisite of BIOL 2401 (in Core) or BIOL 3410.

PHYS 1301 has a prerequisite of MATH 1410 or MATH 1316 or MATH 1420 with a grade of “C” or higher for the course. MATH 1316 and MATH 1410 satisfy the 3 hours of Math required for the Core Competency Area II.

PSYC 3331 requires 3 hours of completed coursework in Psychology.

PSYC 3333 requires 3 hours of completed course work in Psychology and 4 hours of completed course work in Biology or permission of the instructor.

First Year

Fall	Hours	Spring	Hours
BIOL 2401 or 2403[1]	4	BIOL 2402 or 2404	4
CHEM 1406 or 1411[1]	4	ENGL 1302[2]	3
ENGL 1301[2]	3	HIST 1301[5]	3
KINE 2115[3]	1	MATH 1369, 1370, or 3379	3
MATH 1314, 1410, or 1420[4]	3	Component Area IV	3
	15		16

Second Year

Fall	Hours	Spring	Hours
POLS 2305[6]	3	FACS 2362	3
HLTH 1360	3	HLTH 2383[7]	3
PSYC 1301	3	POLS 2306[6]	3
HLTH 3391	3	Prescribed Elective[8]	3
HIST 1302[5]	3	Component Area IX	3
	15		15

Third Year

Fall	Hours	Spring	Hours
HLTH 3350	3	HLTH 3361	3
HLTH 3355	3	HLTH 4380	3
HLTH 3360	3	HLTH 4387	3
HLTH 3392	3	HLTH 4390	3
Component Area V	3	HLTH 4393[9]	3
	15		15

Fourth Year

Fall	Hours	Spring	Hours
Prescribed Electives[8]	15	HLTH 4394	3-6
		Prescribed Electives[8]	8-11
	15		14

Total Hours: 120

1 Satisfies Core Curriculum requirement for Component Area III (Life and Physical Science).

2 Satisfies Core Curriculum requirement for Component Area I (Communications).

3 Satisfies one hour of the Core Curriculum requirement for Component Area IX (Component Area Option).

4 Satisfies Core Curriculum requirement for Component Area II (Mathematics).

5 Satisfies Core Curriculum requirement for Component Area VI U.S. History).

6 Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).

7 Satisfies Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).

8 Prescribed Electives: BIOL 1401, BIOL 2420, CRIJ 4338, ENGL 3330, HLTH 1366, HLTH 2372 HLTH 3380, HLTH 3385, HLTH 3390, HLTH 4117, HLTH 4360 HLTH 4363, HLTH 4395, KINE 3362, KINE 3373, MATH 1316, PHYS 1101 PHYS 1301, POLS 3335, POLS 3366, PSYC 3331, PSYC 3333, PSYC 3374, SOCI 1301, SOCI 3365, SOCI 4334. HLTH 2330, HLTH 4361, HLTH 4365, HLTH 4366, HLTH 4367, HLTH 4371, HLTH 4375, HLTH 4392.

9 Students must earn a grade of "C" or better in HLTH 4393 and HLTH 4394.

Bachelor of Science, Major in Wellness Management

This degree option prepares students for employment as managers of wellness and health promotion programs that include corporate wellness programs, private health clubs, senior living facilities, and community and private health/wellness programs.

Code	Title	Hours
Bachelor of Science in Wellness Management		
Core Curriculum		
Component Area I (Communication)		6
Component Area II (Mathematics)		3

Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4
Degree Specific Requirements		
BIOL 2401	Human Anatomy [1]	4
or BIOL 2403	Human Anatomy & Physiology I	
BIOL 2402	Human Physiology	4
or BIOL 2404	Human Anatomy & Physiology II	
CHEM 1406	Inorganic & Envir Chemistry [1]	4
CHEM 1407	Intro Organic and Biochemistry	4
CSTE 1330	Introduction To Computers	3
or BUAD 1305	Electronic Communications Tech	
FACS 2362	Nutrition [2]	3
or FACS 1367	Basic Nutrition	
MATH 1369	Elementary Statistics	3
or MATH 1370	Intro to Biomedical Statistics	
or MATH 3379	Statistical Mthods In Practice	
Major		
Wellness Management Health Courses		
HLTH 2381	Consumer Health Education	3
or HLTH 1360	Fund Hlth Promo & Hlth Careers	
or HLTH 1366	Lifestyle And Wellness	
HLTH 2383	Multicultural Health Issues [3]	3
HLTH 3219	Group Exercise Instruction	2
HLTH 3361	Health Planning & Evaluation	3
HLTH 3380	Drug Use and Abuse	3
HLTH 3391	Human Diseases	3
HLTH 3392	Health Comm & Literacy	3
HLTH 4363	Interventions for Wellness	3
HLTH 4364	Directing Wellness Programs	3
HLTH 4384	Internship Preparation	3
or HLTH 4393	Prof Prep Health Careers	
HLTH 4387	Community Health	3
HLTH 4394	Internship Program [4]	3
HLTH 4394	Internship Program [4]	3
Wellness Management Interdisciplinary Courses		
ATTR 3370	Prevention & Care of Injuries	3
BUAD 3355	Business Law	3
KINE 2114	Wgt Train & Phy Conditioning	1
KINE 2115	Lifetime Health and Wellness [5]	1
KINE 2119	Kinesiology Activities	1
KINE 2330	First Aid & CPR - Am Red Cross	3
KINE 3373	Physiology Of Exercise	3
KINE 4377	Prin Exer Testing/Prescription	3
MGMT 3310	Principles Of Management	3
MGMT 3330	Human Resource Management	3

MKTG 3310	Principles Of Marketing	3
Total Hours		120

1 Satisfies Core Curriculum requirement for Component Area III (Life and Physical Science) and major requirement.

2 FACS 1367 accepted only as a transfer course.

3 Students must enroll for two sections of HLTH 4394, for a total of 6 semester credit hours.

4 Satisfies Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).

5 Satisfies one semester credit hour of the of Core Curriculum requirement for Component Area IX (Component Area Option).

Notes

Degree must have 120 hours with at least 42 advanced hours (3000 and 4000) taken at a four year institution.

Consult current University catalog for questions concerning transfer courses and residency requirements.

Students must earn a grade of "C' or better in HLTH 4394.

HLTH 4393 requires a prerequisite of HLTH 4387, and the completion of 12 hours of HLTH course work.

HLTH 4384 OR HLTH 4393 must be completed prior to enrollment in HLTH 4394 (internship).

HLTH 4394 (internship) is the Wellness Management Internship that requires 400 hours of work in the internship location. Internships are performed during the final semester prior to students anticipated graduation date.

BIOL 2402 requires a grade of “C” or higher in BIOL 2401 and CHEM 1406.

CHEM 1407 requires a prerequisite of CHEM 1406 or the Health Sciences Chemistry. CHEM 1406 satisfies 4 semester credit hours of the Core Curriculum requirement of Component Area III (Life and Physical Science).

HLTH 3361, HLTH 4363, HLTH 4364, HLTH 4387, KINE 3373 and MKTG 3310 require Junior Standing.

ATTR 3370 requires Junior Standing or permission of the instructor.

MGMT 3310 requires 50 hours of course work completed.

MGMT 3330 requires a prerequisite of MGMT 3310.

First Year

Fall	Hours	Spring	Hours
CHEM 1406[1]	4	CHEM 1407[1]	4
ENGL 1301[2]	3	ENGL 1302[2]	3
HIST 1301[3]	3	HIST 1302[3]	3
KINE 2115[4]	1	MATH 1369, 1370, or 3379	3
Component Area II	3	Component Area IV	3
	14		16

Second Year

Fall	Hours	Spring	Hours
BIOL 2401 or 2403	4	BIOL 2402 or 2404	4
BUAD 1305 or CSTE 1330	3	HLTH 2381, 1360, or 1366	3
FACS 1367 or 2362	3	HLTH 2383[6]	3
KINE 2114	1	KINE 2330	3
KINE 2119	1	POLS 2306[5]	3
POLS 2305[5]	3		
	15		16

Third Year

Fall	Hours	Spring	Hours
HLTH 3219	2	HLTH 3392	3
HLTH 3361	3	HLTH 4363	3
HLTH 3391	3	HLTH 4387	3
KINE 3373	3	MKTG 3310	3
MGMT 3310	3	Component Area IX	3

Component Area V	3	
	17	15

Fourth Year

Fall	Hours	Spring	Hours
ATTR 3370	3	HLTH 3380	3
BUAD 3355	3	HLTH 4394	3
HLTH 4364	3	HLTH 4394	3
HLTH 4384 or 4393	3	MGMT 3330	3
KINE 4377	3		
	15		12

Total Hours: 120

1 Satisfies Core Curriculum requirement for Component Area III (Life and Physical Science).

2 Satisfies Core Curriculum requirement for Component Area I (Communications).

3 Satisfies Core Curriculum requirement for Component Area VI (U.S. History).

4 Satisfies one semester credit hour of the of Core Curriculum requirement for Component Area IX (Component Area Option).

5 Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).

6 Satisfies Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).

Minor in Health

A **Minor in Health** serves as an excellent support field for many majors. The minor consists of 21 hours in health including HLTH 1366, HLTH 3391, and fifteen additional hours from health courses with at least 9 of those hours advanced. If an internship in the minor is desired, students must include HLTH 4393 and HLTH 4394 in their course selections.

Non-Health University Majors selecting a Health Minor: Business, Communication, Criminal Justice, Education, History, Kinesiology, Psychology, Sociology, and others.

The health minor may also be selected as one of the three minors required of the Bachelor of General Studies degree and may also be combined with an Associate Degree in Allied Health for a Bachelor of Applied Arts and Sciences Degree. Interested students should see the advisors for the B.G.S or B.A.A.S degrees for specific degree requirements.

Code	Title	Hours
Minor in Health		
Degree Specific Requirements		6
HLTH 1366	Lifestyle And Wellness	
HLTH 3391	Human Diseases	
Minor Electives - Select 15 credits from the following:		15
HLTH 1360	Fund Hlth Promo & Hlth Careers	
HLTH 2372	Health & Medical Terminology	
HLTH 2383	Multicultural Health Issues	
HLTH 3350	Principles of Public Health	
HLTH 3355	US Health Care Systems	
HLTH 3361	Health Planning & Evaluation	
HLTH 3380	Drug Use and Abuse	
HLTH 3385	Safety Education	
HLTH 3390	Family Life & Sex Education	
HLTH 3392	Health Comm & Literacy	
HLTH 4361	Mgng Hlth Promo In Workplace	
HLTH 4364	Directing Wellness Programs	
HLTH 4380	Global Health	
HLTH 4390	Environmental Health	
HLTH 4393	Prof Prep Health Careers (Required for HLTH 4394)	

HLTH 4394	Internship Program (Will be health related only)	
Total Hours		21

Notes:

HLTH 3361, HLTH 4380, and HLTH 4390 require Junior Standing.

HLTH 4393 requires a prerequisite of HLTH 3350 or HLTH 4387, and the completion of 12 hours of HLTH course work.

HLTH 4394 requires a prerequisite of HLTH 4393, and the completion of 18 hours of HLTH course work.

Students must earn a grade of "C' or better in HLTH 4393 and HLTH 4394.

School of Nursing

Director: Denise Neill (denise.neill@shsu.edu) (936) 294-2379

Website: School of Nursing (http://www.shsu.edu/academics/nursing)

The School of Nursing (SON) currently has three programs, all leading to the Bachelor of Science in Nursing degree (BSN). The programs are BSN (pre-licensure), RN to BSN (post RN licensure), and LVN to BSN (post LVN licensure).

Vision Statement

The Nursing Program will provide a professional educational program that will stimulate learners to promote, maintain, and restore the health of individuals, diverse communities, and the environment now and in the future through evidence-based practice and the use of technology.

Mission

Our mission is to provide a quality education to a diverse body of accountable, competent, critical thinking students who are preparing to function independently and collaboratively as nursing leaders in the changing world. The program provides a nursing foundation which promotes holistic, evidence-based health care in a professional community. The faculty promote the concept of lifelong learning based on scholarly teaching, research, practice, and service in order to maintain competence and achieve new competencies as the profession evolves.

Program Outcomes for Graduates

1. Integrate knowledge from liberal arts studies and nursing science to practice professional nursing in a holistic caring manner.
2. Develop, implement, and evaluate safe quality patient care through collaboration with patients and members of the inter-professional healthcare delivery team in various healthcare settings.
3. Demonstrate ethical accountability and legal responsibilities using cultural parameters and professional nursing standards of practice and care in order to provide care to individuals, families, groups, and populations.
4. Use therapeutic communication in formal and informal interaction with patients, families, groups, colleagues, and other members of the healthcare team in the delivery of nursing care.
5. Demonstrate professional leadership and management skills while implementing safety principles in the delivery of nursing care.
6. Provide safe patient care using evidence-based practice and clinical reasoning.
7. Advocate for clients across the lifespan and for the nursing profession while incorporating dynamic healthcare system practices, health policies, and global healthcare factors.
8. Demonstrate accountability for lifelong learning and professional growth.
9. Demonstrate competency with technology and information management in the delivery of safe care, while maintaining confidentiality and protecting patient rights.
10. Collaborate with other professionals on the healthcare team to provide health promotion and disease, and injury prevention across the lifespan for individuals, families, groups and populations.

Highlights

The School of Nursing offers a Bachelor of Science in Nursing degree. Since beginning in January 2011, the upper division program is fully approved by the Texas Board of Nursing and accredited by the Commission on Collegiate Nursing Education (CCNE). The NCLEX first-time pass rate consistently exceeds that of the state and nation. Graduates are sought for positions regionally and statewide. Many are employed in high acuity areas and enrolled in nurse internships within six months of graduation. The faculty include doctoral prepared and advanced practice nurses, and those engaged in active clinical practice which enhances the educational environment.

Progam Specific Requirements

BSN (Pre-licensure program)

Process for Nursing Program Admission

1. Apply to SHSU (http://shsu.edu/admissions/undergraduate) through Undergraduate Admissions, for the semester you wish to begin the Nursing program.
2. Submit your application to the Nursing Program (https://samweb.shsu.edu/heal01wp) for the semester you wish to begin the School of Nursing.
3. Take the Test of Essential Academic Skills (TEAS) (https://www.atitesting.com/home.aspx) and have results sent to the SHSU School of Nursing. (The TEAS is not required for the RN to BSN program.)
4. Review immunization (http://www.shsu.edu/academics/health-sciences/nursing/documents/SHSU%20SON%20Immunizations%20%20Health%20Screenings.pdf) status. Minimum two (2) of three (3) Hepatitis B vaccination series completed by application deadline.
   DO NOT WAIT UNTIL CONFIRMATION OF ACCEPTANCE TO REVIEW YOUR IMMUNIZATION STATUS. Some vaccine series, such as Hepatitis B, require four (4) to six (6) months to complete. Incomplete immunizations may cause students to delay their start in the nursing program.

Virtual or distance-learning course offerings for the following courses will not be accepted. Hybrid courses, with face-to-face labs will be accepted.

Code	Title	Hours
Courses Require Face-to-Face Mode of Delivery		
BIOL 2401	Human Anatomy	4
or BIOL 2403	Human Anatomy & Physiology I	
BIOL 2402	Human Physiology	4
or BIOL 2404	Human Anatomy & Physiology II	
BIOL 2420	Intro Applied Microbiology	4
or BIOL 3470	General Microbiology	
CHEM 1406	Inorganic & Envir Chemistry	4
or CHEM 1411	General Chemistry I	

Students must complete 46 credit hours with a minimum 3.0 GPA and no grade less than a C, prior to making application to the School of Nursing. The 46 credit hours must include the following courses of the pre-nursing curriculum.

Code	Title	Hours
Required Courses		
BIOL 2401	Human Anatomy	4
or BIOL 2403	Human Anatomy & Physiology I	
BIOL 2402	Human Physiology	4
or BIOL 2404	Human Anatomy & Physiology II	
BIOL 2420	Intro Applied Microbiology	4
CHEM 1406	Inorganic & Envir Chemistry	4
or CHEM 1411	General Chemistry I	
MATH 1314	Pre Calculus Algebra	3
or MATH 1410	Elementary Functions	
or MATH 1420	Calculus I	
MATH 1369	Elementary Statistics	3
or MATH 1370	Intro to Biomedical Statistics	
or STAT 1369	Elementary Statistics	
Total Hours		22

All natural science courses must be completed within 5 years of application to the School of Nursing.

Admission consideration to the School of Nursing requires an overall GPA of 3.0 in the School of Nursing prerequisites. All grades must be a 'C' or better.

Students must score a minimum of 70 on the ATI-TEAS for admission consideration. The TEAS exam may be taken every 30 days **prior** the application period in which you are applying. During the application period, the TEAS exam can only be taken one (1) time. Given multiple test scores for a nursing applicant, the highest score will be the one used for the student's application.

If you meet the preliminary requirements for acceptance, you will receive instructions for completing a criminal background check and fingerprint scanning with the agency specified by the Texas Board of Nursing

Students are conditionally accepted pending satisfactory completion of drug screening and criminal background checks and any relevant courses in progress.

Once accepted, the following curriculum applies.

Code	Title	Hours
Required Courses		
NURS 3310	Health Assessment	3
NURS 3340	Older Adult Health Management	3
NURS 3351	Nursing Concepts I	3
NURS 3360	Introduction to Research	3
NURS 3540	Psychiatric/Mental Health Nursing	5
NURS 3620	Adult Health 1	6

NURS 3631	Nursing Fundamentals	6
NURS 4030	Community Nursing	5
NURS 4060	Leadership and Management	4
NURS 4250	Concepts in Nursing Practice II	2
NURS 4520	Nursing Care of Infants, Children & Adolescents	5
NURS 4540	Women's Hlth and Matern NB Nur	5
NURS 4620	Adult Health II	6
Total Hours		56

Excerpts from Texas Board of Nursing website and Petition for Declaratory Order Form

- Applicants seeking licensure in Texas by Endorsement or Examination are required to submit a complete and legible set of scanned fingerprints on a form prescribed by the board for the purpose of obtaining a criminal history from the Texas Department of Public Safety and the Federal Bureau of Investigations. (Section 301.252 (b) and Section 301.252 (e) of the Texas Occupations Code).
- Applicants with outstanding eligibility issues (a positive criminal background screen) that could prevent them from taking the NCLEX examination upon completion of a nursing program must complete a Declaratory Order application. If you have a positive criminal background screen, you will **NOT** be admitted into SHSU's Nursing program **without a Declaratory Order from the Board of Nursing for the State of Texas stating that you have been granted permission to write the National Council Licensure Examination for Registered Nurses (NCLEX-RN).** The Declaratory Order process permits the Board to make decisions regarding an applicant's eligibility for licensure prior to entering or completing a nursing program.
- Further information:
  http://www.shsu.edu/~nursing/pre_admission.html
  https://www.bon.texas.gov/forms_declaratory_order.asp

Health

Students must provide evidence of being in good physical health, free of disease, and of having received all required immunizations. Prior to beginning classes students must pass a criminal background and drug check.

Core Performance Standards for Admission and Progression

****** Please Read Carefully ******

Below are listed the performance standards of the professional nursing program. Applicants to the Sam Houston State University (SHSU) School of Nursing (SON) should read these standards carefully, and be sure that you can comply with them. The SHSU SON expects all applicants for admission to possess and demonstrate the skills, attributes, and qualities set forth below, without unreasonable dependence on technology or intermediaries.

Critical Thinking: Critical thinking ability sufficient for clinical judgment, sufficient powers of intellect to acquire, assimilate, apply, and evaluate information and solve problems. For example, identify cause-effect relationships in clinical situations; develop and implement nursing care plans according to the nursing process; respond without delay to emergency situations

Interpersonal: Interpersonal abilities sufficient enough for interaction with individuals, families, and groups from a variety of social, emotional, cultural, economic, and intellectual backgrounds. For example, Establish rapport with patients/clients, colleagues, and other health care professionals. Respect cultural diversity and the rights of others.

Communication: Communication abilities sufficient for interaction with others in verbal and written form. Utilizes effective communication skills to interact with patient/client, peers, and other health care personnel of various ages, cultural, economic, and intellectual backgrounds in a variety of settings. For example, read, write and speak English effectively so as to be understood. Explain treatment and procedures; provide health teaching to individual clients and groups of clients based on assessed needs, available resources, age, lifestyle and cultural considerations; documents and interprets nursing actions and patient/client responses. Communicate information accurately and effectively with other Schools, colleagues, clients, and client families. Evaluate written orders, care plans, and treatment requests.

Mobility: Ability to reach assigned clinical sites. Gross and fine motor abilities sufficient to provide safe and effective nursing care. Sufficient physical abilities to function in the patient care settings, such as, physical health and stamina needed to carry out nursing procedures. Ability to calibrate and use equipment effectively. Ability to grasp small objects and perform electronic keyboarding/documentation. Ability to move around the patients/ clients' rooms, workspaces, treatment areas, and be able to move, position, and transport patients without causing harm, minimal pain, and discomfort for patient and staff alike.

Sensory: Sufficient use of the senses of vision, hearing, touch, and smell to observe, assess, and evaluate effectively (both close and at a distance) in the classroom, laboratory, and clinical settings. For example, hear monitor alarms, emergency signals, auscultation sounds and cries for help. Observe patient/client responses. Perform tactile/palpation functions of physical examination or those functions related to therapeutic intervention, e.g., insertion of catheters and IVs for therapy.

Behavioral: Sufficient motivation, responsibility, and flexibility to function in new, ever-changing, and stressful environments. Adapts appropriately to ever-changing needs of clients and client families. Adapts to assignment change of patient, clinical, or laboratory area in a manner that allows the

student to meet objectives while providing safe, adequate patient care. Accountable for clinical preparation and independent study. Performs nursing functions in a safe, responsible manner. Ability to recognize the need for further research and respond accordingly based on changes in patient/client status since assignment was made.

- Bachelor of Science, Major in Nursing (BSN)
- RN to BSN
- LVN to BSN

Student Organizations

Student Nursing Association

Students enrolled in the Nursing School and in pre-nursing courses are eligible to participate as members of the SHSU chapter of the Texas Nursing Students' Association (TNSA). The TNSA is the student component of the American Nurses' Association, a national professional nursing organization with state and local constituencies, and a subsidiary of the National Student Nurses' Association (NSNA). Participation locally affords membership in the largest independent health organization in the nation and the only one for nursing students. TNSA offers numerous benefits to those students members. More information on meetings and activities can be obtained from the School of Nursing website.

Scholarships

SHSU offers scholarships to students in the School of Nursing. A complete list of scholarship opportunities can be found on the Scholarships for Kats (http://www.shsu.edu/dept/financial-aid/scholarships) webpage. Search for nursing to identify competitive scholarships based on student performance in nursing and pre-requisite coursework. Assistance is also available through Financial Aid, including scholarships, loans, and grants outside of SHSU. Priority deadline for scholarships is November 1. You must complete the current year FAFSA to be considered for nursing scholarships.

Chair: **Cheryl Denise Neill**

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Bachelor of Science, Major in Nursing (BSN)

Code	Title	Hours
Bachelor of Science, Major in Nursing		
Core Curriculum		
Component Area I (Communication)		6
Component Area II (Mathematics)		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture) [1]		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option) [2]		4
Degree Specific Requirements		
BIOL 2401	Human Anatomy [3]	4
or BIOL 2403	Human Anatomy & Physiology I	
BIOL 2402	Human Physiology	4
or BIOL 2404	Human Anatomy & Physiology II	
BIOL 2420	Intro Applied Microbiology	4
or BIOL 3470	General Microbiology	
CHEM 1406	Inorganic & Envir Chemistry [3]	4
or CHEM 1411	General Chemistry I	
FACS 2362	Nutrition [4]	3
or FACS 1367	Basic Nutrition	
MATH 1314	Pre Calculus Algebra [5]	3
or MATH 1410	Elementary Functions	
or MATH 1420	Calculus I	
MATH 1369	Elementary Statistics	3
or MATH 1370	Intro to Biomedical Statistics	
or STAT 1369	Elementary Statistics	
PSYC 1301	Introduction To Psychology [6]	3
PSYC 3374	Development Psychology	3
Major		
NURS 3320	Pathophysiology for Nursing	3
NURS 3321	Pharmacology for Nursing	3
NURS 3340	Older Adult Health Management	3
NURS 3351	Nursing Concepts I	3
NURS 3360	Introduction to Research	3
NURS 3540	Psychiatric/Mental Health Nursing	5
NURS 3310	Health Assessment	3
NURS 3620	Adult Health 1	6
NURS 3631	Nursing Fundamentals	6
NURS 4030	Community Nursing	5
NURS 4060	Leadership and Management	4
NURS 4250	Concepts in Nursing Practice II	2
NURS 4520	Nursing Care of Infants, Children & Adolescents	5
NURS 4540	Women's Hlth and Matern NB Nur	5
NURS 4620	Adult Health II	6
Total Hours		121

1 PHIL 1301 recommended.

2 SOCI 2319 recommended.

3 Satisfies Core Curriculum requirement for Component Area III (Life and Physical Science) and major.

4 FACS 1367 accepted only as a transfer course.

5 Satisfies Core Curriculum requirement for Component Area II (Mathematics) and major.

6 Satisfies Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture) and major.

Notes

BIOL 2404 requires a "C" of higher in BIOL 2403.

Code	Title	Hours
Nursing Prerequisites and Texas Core		59
Nursing Credit Hours		62
Total Hours		121

The Plan of Study is based on Fall admission. For Spring admission third year, semesters 2 & 3 are to be alternated.

First Year

First Semester	Hours	Second Semester	Hours
Component Area IX	1	BIOL 2402 or 2404	4
BIOL 2401 or 2403[1]	4	ENGL 1302[2]	3
CHEM 1406 or 1411[1]	4	HIST 1301[4]	3
ENGL 1301[2]	3	MATH 1369, STAT 1369, or MATH 1370	3
MATH 1314, 1410, or 1420[3]	3	PSYC 1301[5]	3
	15		16

Second Year

First Semester	Hours	Second Semester	Hours
BIOL 2420 or 3470	4	Component Area IV (Recommend PHIL 1301)	3
FACS 2362	3	Component Area IX (Recommend SOCI 2319)	3
HIST 1302[4]	3	Component Area V	3
POLS 2305[6]	3	POLS 2306[6]	3
PSYC 3374	3		
	16		12

Third Year

First Semester	Hours	Second Semester	Hours	Third Semester	Hours
NURS 3310	3	NURS 3540	5	NURS 3351	3
NURS 3320	3	NURS 3620	6	NURS 3340	3
NURS 3321	3	NURS 3360	3		
NURS 3631	6				
	15		14		6

Fourth Year

First Semester	Hours	Second Semester	Hours
NURS 4030	5	NURS 4060	4
NURS 4520	5	NURS 4250	2
NURS 4540	5	NURS 4620	6
	15		12

Total Hours: 121

1 Satisfies Core Curriculum requirement for Component Area III (Life and Physical Science) and major.

2 Satisfies Core Curriculum requirement for Component Area I (Communications).

3 Satisfies Core Curriculum requirement for Component Area II (Mathematics) and major.

4 Satisfies Core Curriculum requirement for Component Area VI (U.S. History).

5 Satisfies Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture) and major.

6 Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).

Notes

BIOL 2404 requires a "C" of higher in BIOL 2403.

LVN to BSN

Code	Title	Hours
LVN to BSN		
Core Curriculum		
Component Area I (Communication)		6
Component Area II (Mathematics)		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences) [1]		3
Component Area IX (Component Area Option)		4
Degree Specific Requirements		
BIOL 2401	Human Anatomy [2]	4
or BIOL 2403	Human Anatomy & Physiology I	
BIOL 2402	Human Physiology	4
or BIOL 2404	Human Anatomy & Physiology II	
BIOL 2420	Intro Applied Microbiology	4
or BIOL 3470	General Microbiology	
CHEM 1406	Inorganic & Envir Chemistry [2]	4
or CHEM 1411	General Chemistry I	
FACS 2362	Nutrition [3]	3
or FACS 1367	Basic Nutrition	
MATH 1314	Pre Calculus Algebra [2]	3
MATH 1370	Intro to Biomedical Statistics	3
or MATH 1369	Elementary Statistics	
or STAT 1369	Elementary Statistics	
or PSYC 3402	Psychological Statistics	
PSYC 3374	Development Psychology	3
Track Specific Requirements		
NURS 3320	Pathophysiology for Nursing	3
NURS 3340	Older Adult Health Management	3
NURS 3321	Pharmacology for Nursing	3
NURS 3351	Nursing Concepts I	3
NURS 3360	Introduction to Research	3
NURS 3540	Psychiatric/Mental Health Nursing	5
NURS 3310	Health Assessment	3
NURS 3620	Adult Health 1	6
NURS 3660	LVN-to-BSN Role Transition	6
NURS 4030	Community Nursing	5
NURS 4520	Nursing Care of Infants, Children & Adolescents	5
NURS 4540	Women's Hlth and Matern NB Nur	5
NURS 4250	Concepts in Nursing Practice II	2
NURS 4060	Leadership and Management	4

NURS 4620	Adult Health II	6
Total Hours		121

Code	Title	Hours
Nursing Prerequisites and Texas Core		59
Nursing Credit Hours		62
Total Hours		121

1 PSYC 1301 recommended.

2 Prerequisite courses from the Texas Core

3 FACS 1367 accepted only as a transfer course.

Notes

Math and Science courses do not require a 5 year renewal for practicing LVNs.

LVN-to-BSN Role Transition (NURS 3660) is a hybrid course. The classroom content is online. The clinical component is face-to-face. All other courses are integrated with the pre-licensure BSN students.

The Plan of Study is based on Fall admission. For Spring admission third year, semesters 2 & 3 are to be alternated.

First Year

First Semester	Hours	Second Semester	Hours
BIOL 2401 or 2403[1]	4	BIOL 2402 or 2404	4
CHEM 1406 or 1411[1]	4	ENGL 1302[2]	3
ENGL 1301[2]	3	HIST 1301[4]	3
MATH 1314, 1410, or 1420[3]	3	MATH 1369, STAT 1369, MATH 1370, or PSYC 3402	3
Component Area IX	1	Component Area VIII (Recommend PSYC 1301)	3
	15		16

Second Year

First Semester	Hours	Second Semester	Hours
BIOL 2420 or 3470	4	POLS 2306[5]	3
FACS 2362 or 1367	3	Component Area IV (Recommend PHIL 1301)	3
HIST 1302[4]	3	Component Area IX (Recommend SOCI 2319)	3
POLS 2305[5]	3	Component Area V	3
PSYC 3374	3		
	16		12

Third Year

First Semester	Hours	Second Semester	Hours	Third Semester	Hours
NURS 3320	3	NURS 3540	5	NURS 3351	3
NURS 3321	3	NURS 3360	3	NURS 3340	3
NURS 3660	6	NURS 3620	6		
NURS 3310	3				
	15		14		6

Fourth Year

First Semester	Hours	Second Semester	Hours
NURS 4030	5	NURS 4060	4
NURS 4520	5	NURS 4250	2

NURS 4540		5 NURS 4620	6
	15		12

Total Hours: 121

Code	Title	Hours
Nursing Prerequisites and Texas Core		59
Nursing Credit Hours		62
Total Hours		121

1 Satisfies Core Curriculum for Component Area III (Life and Physical Science).

2 Satisfies Core Curriculum for Component Area I (Communication).

3 Satisfies Core Curriculum for Component Area II (Mathematics).

4 Satisfies Core Curriculum for Component Area VI (U.S. History).

5 Satisfies Core Curriculum for Component Area VII (Political Science/Government).

Notes

NURS 3360 is a hybrid course. The classroom content is online. The clinical component is face-to-face. All other courses are integrated with the pre-licensure BSN students.

Math and Science courses do not require a 5 year renewal for practicing LVNs.

RN to BSN

The RN to BSN program courses are 100% online to accommodate a working nurse's schedule. Full and part-time options are available to provide flexibility for the working registered nurse. Faculty are available at SHSU main campus and at The Woodlands Center for questions and advising.

The RN-BSN Online Track is designed for the student who is enrolled in or graduated from a community college with a degree in nursing and is eligible to sit for the NCLEX-RN, or who has passed the NCLEX-RN, holds a current, unencumbered license as a registered nurse and wishes to obtain the baccalaureate degree. Earning a baccalaureate degree will open more doors in an RNs nursing career, allowing for positions of leadership and possibly further academic degrees.

There are three types of admission to SHSU's RN to BSN program:

1) Unconditional Admission

2) Conditional Admission

3) Joint Admission while enrolled in a community college nursing program.

The table below illustrates the requirements for each type of admission.

Admission Type	Application to SHSU	Application to RN BSN	Texas RN License	Cumulative GPA	Prerequisiste GPA	[1]Proof of Clinical Readiness	Completion of all Prerequisite Courses
Unconditional	X	X	X	2.5	2.5	X	X
Conditional	X	X	WITHIN 1 SEMESTER	2.5	2.5	X	ALL BUT 4 COURSES*
Joint	X	X	WITHIN 1 SEMESTER AFTER GRADUATION WITH ADN	2.75	2.5	X	ALL BUT 4 COURSES*

Notes

Proof of clinical readiness: Completion of all immunizations, CPR, liability and health insurance, background check, and drug screen prior to enrolling in clinical courses.

* Four of the pre-requisite courses may be taken at SHSU following enrollment in RN-BSN program, but must be taken within one year.

Code	Title	Hours
RN to BSN		
Core Curriculum		

Component Area I (Communication)		6
Component Area II (Mathematics)		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4
Degree Specific Requirements		
BIOL 2401	Human Anatomy (core) [1]	4
or BIOL 2403	Human Anatomy & Physiology I	
BIOL 2402	Human Physiology	4
or BIOL 2404	Human Anatomy & Physiology II	
BIOL 2420	Intro Applied Microbiology	4
or BIOL 3470	General Microbiology	
CHEM 1406	Inorganic & Envir Chemistry (core) [1]	4
or CHEM 1411	General Chemistry I	
FACS 2362	Nutrition	3
MATH 1314	Pre Calculus Algebra (core) [2]	3
or MATH 1369	Elementary Statistics	
or MATH 1410	Elementary Functions	
or MATH 1420	Calculus I	
MATH 1369	Elementary Statistics	3
or STAT 1369	Elementary Statistics	
or MATH 1370	Intro to Biomedical Statistics	
or PSYC 3402	Psychological Statistics	
PSYC 1301	Introduction To Psychology (core) [3]	3
PSYC 3374	Development Psychology	3
Track Specific Requirements		
NURS 3340	Older Adult Health Management	3
NURS 3360	Introduction to Research	3
NURS 3370	RN-to-BSN Role Transition	3
NURS 4030	Community Nursing	3
NURS 4060	Leadership and Management	3
NURS 4372	RN-to-BSN Capstone	3
NURS 4381	Legal & Ethical Issues in Nurs	3
NURS 4382	Informatics	3
NURS 4383	Rural Health Nursing	3
NURS 4384	Nursing Genetics and Genomics	3
Articulation Credit		
ADN/Diploma Nursing courses applied to the RN-BSN degree		32
Total Hours		121

1 Satisfies Core Curriculum requirement for Component Area III (Life and Physical Science) and major requirement.

2 Satisfies Core Curriculum requirement for Component Area II (Mathematics) and the major requirement.

3 Satisfies Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences) and major requirement.

Code	Title	Hours
Prenursing Prerequisites and Texas Core		59
Nursing Credit Hours		62
Total Hours		121

Notes

Students admitted not core complete, must meet the SHSU core curriculum requirements. For students who are taking pre-requisite hours at SHSU, see the pre-licensure BSN requirements.

NURS 3370 requires admittance to the RN to BSN program and is a pre or co-requisite course for all RN-BSN courses.

NURS 4372 is taken in the final semester.

The nursing credit hours include 32 articulation credits and 30 hours taken at SHSU. Course substitutions in the degree specific credit hours may require additional elective credit hours to reach the total 121 credits required for the degree.

For more information on the RN-BSN option, contact:

prenursing@shsu.edu

First Year

First Semester	Hours	Second Semester	Hours
BIOL 2401[1]	4	BIOL 2402	4
CHEM 1406 or 1411[1]	4	ENGL 1302[2]	3
ENGL 1301[2]	3	HIST 1301[4]	3
MATH 1314[3]	3	MATH 1369, STAT 1369, MATH 1370, or PSYC 3402	3
Component Area IX	1	PSYC 1301[5]	3
	15		16

Second Year

First Semester	Hours	Second Semester	Hours
BIOL 2420 or 3470	4	POLS 2306[6]	3
FACS 2362	3	Component Area IV (Recommend PHIL 1301)	3
HIST 1302[4]	3	Component Area IX (Recommend SOCI 2319)	3
POLS 2305[6]	3	Component Area V	3
PSYC 3374	3		
	16		12

Third Year

First Semester	Hours	Second Semester	Hours	Third Semester	Hours
NURS 3360	3	NURS 4030	3	NURS 3340	3
NURS 3370	3	NURS 4383	3	NURS 4381	3
NURS 4382	3	NURS 4384	3		
	9		9		6

Fourth Year

First Semester	Hours	Second Semester	Hours
NURS 4060	3	ADN/Diploma Nursing courses applied to RN-BSN Degree	32
NURS 4372	3		
	6		32

Total Hours: 121

Code	Title	Hours
Nursing Prerequisites and Texas Core		59
Nursing Credit Hours (32 credits transferred in from ADN and 30 credits in nursing taken at SHSU)		62
Total Hours		121

1 Satisfies Core Curriculum requirement for Component Area III (Life and Physical Science).
2 Satisfies Core Curriculum requirement for Component Area I (Communications).
3 Satisfies Core Curriculum requirement for Component Area II (Mathematics).
4 Satisfies Core Curriculum requirement for Component Area VI (U.S. History).
5 Satisfies Core Curriculum requirement Component Area VIII (Social and Behavioral Sciences).
6 Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).

COLLEGE OF HUMANITIES AND SOCIAL SCIENCES

Administrative Officers

Title/Department	Officer
Dean	Abbey Zink, Ph.D. alz007@shsu.edu; (936) 294-2200
Interim Associate Dean	Rick Bello, Ph.D. bello@shsu.edu; (936) 294-2202
Associate Dean	Carroll Nardone, Ph.D. cfnardone@shsu.edu; (936) 294-2203
Associate Dean	Glenn M. Sanford, Ph.D. sanford@shsu.edu; (936) 294-2455
Department of Communication Studies	Terry Thibodeaux, Ph.D., Chair scm_tmt@shsu.edu; (936) 294-1356
Department of English	Jacob Blevins, Ph.D., Chair jbelvins@shsu.edu; (936) 294-1402
Department of History	Pinar Emiralioglu, Ph.D., Chair mpe005@shsu.edu; (936) 294-1474
Department of Political Science	Tamara Waggener, Ph.D., Chair pol_taw@shsu.edu; 936) 294-1466
Department of Psychology and Philosophy	James Crosby, Ph.D., Interim Chair jwc014@shsu.edu; (936) 294- 3052
Department of Sociology	Furjen Deng, Ph.D., Chair soc_fjd@shsu.edu; (936) 294-1515
Department of World Languages and Cultures	Leif French, Ph.D., Chair french@shsu.edu; (936) 294-1442

About the College

The College of Humanities and Social Sciences consists of seven academic units:

- Communication Studies
- English
- History
- Political Science
- Psychology and Philosophy
- Sociology
- World Languages and Cultures

Mission

The College of Humanities and Social Sciences (CHSS) provides an essential component to a liberal arts education: understanding human beings in their diversity as expressed in their literatures, histories, ideas, values, oral and written expressions, and behavior. By promoting analytic, interpretive, interpersonal research and communication skills, the College of Humanities and Social Sciences facilitates personal growth and educates competent professionals, and responsible citizens.

Highlights

- Faculty in the College of Humanities and Social Sciences have been recognized for their teaching excellence and scholarly achievements at local, regional, state, national, and international levels. CHSS is home to five Minnie Stevens Piper Professors. Only 10 Piper Professors are identified each year across Texas.
- Courses in the College of Humanities and Social Sciences exceed the national norms in teacher effectiveness and course excellence.
- Faculty in the College of Humanities and Social Sciences have been recognized for their research and scholarship with national awards. Among these awards is a finalist for the 2016 Pulitzer Prize in History, a National Endowment for the Arts Literature Fellow, and a National Endowment for the Arts Creative Writing Fellow.
- CHSS prides itself in the number of opportunities for undergraduate students to conduct research with recognized scholars. In the past year, undergraduate students have presented and published with faculty in a variety of venues, including the London School of Economics Daily Blog on American Politics and Policy.

- CHSS publishes its own academic journal, *The Measure: A Journal of Undergraduate Research*.
- Interdisciplinary minors housed in the college include American Studies, Applied Ethics and Critical Thinking (THNK), Community Leadership, and Legal Studies.
- CHSS students have the opportunity to take Academic Community Engagement (ACE) courses across the curriculum. In these courses, students gain applied skills while serving their communities.
- Courses offered through the Ethics, Western Civilization, and American Traditions (EWCAT) program provide students with the opportunity to explore classic texts and participate in peer-led discussions. EWCAT sections are among our most popular in nearly every discipline.
- CHSS is home to many student organizations, both honorary and professional, to help build student resumes with active learning opportunities. Several of these clubs have been recognized regionally and nationally.
- CHSS also houses the Ronald E. McNair Post-Baccalaureate Achievement Program. This program is designed to provide talented first-generation, low income or ethnic minority undergraduate students with effective preparation for doctoral study. The program encourages students to engage in research with a faculty mentor and to acquire the skills necessary to succeed in doctoral studies.

Academic Programs

Departments	Programs
Major	**Degree(s)**
Communication Studies	B.A., B.S.
English	B.A.
French	B.A.
Liberal Studies	B.G.S.
History	B.A., B.S.
Philosophy	B.A.
Political Science	B.A., B.S.
Psychology	B.S.
Sociology	B.A., B.S.
Spanish	B.A.

Scholarships

The College of Humanities and Social Sciences and its member departments are committed to supporting undergraduate students through scholarships. Please see the SHSU website under Financial Aid and Scholarships (http://www.shsu.edu/~fao_www/scholarships). General scholarships are distributed through the Scholarships4kats system. Application deadlines are posted on this website. Please also refer to individual department websites for information on any additional scholarship opportunities in specific disciplines.

Course-based Opportunities

- Take Writing-Enhanced Courses (W-courses) to augment learning opportunities and enhance employable soft skills. Students take six hours at the advanced level in their major field of study, as well as six hours from other areas of study.
- Conduct research with recognized scholars.
- Publish in *The Measure: An Journal of Undergraduate Research.*
- Choose from among several interdisciplinary minors such as, American Studies, Applied Ethics and Critical Thinking (THNK), Community Leadership, and Legal Studies.
- Join one (or more) CHSS student organizations, both honorary and professional, to help build a strong resume with active learning opportunities.
- Study abroad in such locations as Canada, Central America, Europe, and Mexico.
- Gain course skills while serving your community through Academic Community Engagement (ACE) courses.
- Explore classic texts and participate in peer-led discussion through courses in our Ethics, Western Civilization, and American Traditions (EWCAT) courses, which are among our most popular in nearly every discipline.
- Discover the Ronald E. McNair Post-Baccalaureate Achievement Program--a program designed to provide talented, first generation, low income or ethnic minority undergraduates with preparation for doctoral study. The program links students with a faculty mentor to help them acquire the skills needed to succeed in doctoral studies.

College Requirements

The College of Humanities and Social Sciences (CHSS) offers two degrees at the undergraduate level: Bachelor of Arts (BA) and Bachelor of Science (BS). The standard for the two degrees are given below. Both the BA and the BS degrees require:

- 42 hours of the Core Curriculum
- 120 hours minimum requirement for a degree

- 42 advanced hours
- 30 hours (typically) residency credit[1] (25% of credit hours required of degree), 24 must be advanced, 12 in major, 6 in minor

> Residency credit is given to courses taken at Sam Houston State University. This includes campus courses, courses taken at the Woodlands Center, courses abroad taught by SHSU faculty, and online courses. Correspondence courses are not considered residency credit courses

The BA and the BS degrees differ in their emphases on liberal arts versus natural science and mathematics.

Bachelor of Arts

The Bachelor of Arts (BA) degree is one that focuses on the traditional liberal arts. The BA degree develops graduates with broad knowledge of language, humanities, fine arts, and social sciences. The requirements for this degree include:

- 30-36 hours in a major area
- 18-24 hours in minor (Most majors require a minor—check with specific departments)
- 3 hours of an additional course in Philosophy, Fine Arts, or Communication Studies, beyond the courses in the Core Curriculum.
- 14 hours in one Foreign Language

Bachelor of Science

The Bachelor of Science (BS) degree focuses on scientific investigation; therefore, courses that emphasize the scientific methods are included. The requirements for this degree include:

- 30-42 hours in a major area
- 18-24 hours in minor (Most majors require a minor—check with specific departments)
- 8 hours (two additional courses) in Natural Science, beyond the courses in the Core Curriculum
- 3 hours of an additional course in in Mathematics, Computer Science, or Logic, beyond the Core Curriculum

It should be noted that these requirements are minimum requirements and specific departments may require additional courses.

Bachelor of General Studies in Liberal Studies

Program Coordinator: Dr. Bill Fleming (ENG_WPF@shsu.edu), Department of English

Information:
Email: bgs@shsu.edu
Physical Address: Evans Complex, Office 457

Academic Programs

The Bachelor of General Studies in Liberal Studies degree is an interdisciplinary degree that allows students to design a curriculum to meet individual goals by connecting the Texas core curriculum, 3 academic minors, one General Studies capstone course, and appropriate supporting courses. During the last semester of senior year, BGS majors will complete a capstone course (UNIV 4301) in which the student will complete a project that requires the integration of knowledge and ideas from the three areas of study.

- Students must be in good standing with at least a 2.0 overall GPA to declare a BGS major.
- Prior to declaration, students must attend an information session with an academic advisor.
- Students must have senior hours, be in good academic standing, have completed their required upper level English writing course, and receive coordinator approval to register for UNIV 4301.

Available Minors

A list of all available classroom based minors for the Bachelor of General Studies in Liberal Studies degree can be found here (http://www.shsu.edu/programs/bachelor-of-general-studies/classroom.html), and a list of available on-line minors can be found here (http://www.shsu.edu/programs/bachelor-of-general-studies/online.html). Certain minor combinations may not be allowed if coursework is duplicative. Please consult with the BGS coordinator to insure that the proposed combination of minors is appropriate.

Code	Title	Hours
Bachelor of General Studies in Liberal Studies		
Core Curriculum		
Component Area I (Communication) 1st year		6
Component Area II (Mathematics) 1st or 2nd year		3
Component Area III (Life and Physical Science) 1st or 2nd year		8
Component Area IV (Language, Philosophy, and Culture) 1st or 2nd year		3
Component Area V (Creative Arts) 1st or 2nd year		3
Component Area VI (U.S. History) 1st or 2nd year		6
Component Area VII (Political Science/Government) 1st or 2nd year		6
Component Area VIII (Social and Behavioral Sciences) 1st or 2nd year		3
Component Area IX (Component Area Option) 1st or 2nd year		4
Degree Specific		
CSTE 1330	Introduction To Computers	3
or BUAD 1305	Electronic Communications Tech	
Select one of the following:		3
ENGL 3330	Intro To Technical Writing	
ENGL 3377	Argument And Persuasion	
ENGL 3378	Designing Written Documents	
ENGL 3380	Advanced Composition	
Major Core		
UNIV 4301	Gen Studies Capstone Project	3
Minor Area 1 - 3rd or 4th year		18
Minor Area 2 - 3rd or 4th year 1		18
Minor Area 3 - 3rd or 4th year		18
Elective [1]		
Select 15 hours of electives		15
Total Hours		120

[1] Some minors require more than 18 semester credit hours. This will impact the number of elective hours required and the total hours required for the BLS.

Minor in Applied Ethics and Critical Thinking

The minor in Applied Ethics and Critical Thinking departs significantly from tradition. Rather than a concentration of content in a specific discipline, it provides students with a cross-disciplinary intellectual experience. The courses constituting the minor are designed to foster evaluation of competing discourses surrounding complex societal issues through various disciplinary lenses. To give a more concrete example of what this means, a student might complete a Philosophy course focused on racial disparities in environmental policy, an English course focused on literary treatments of economic inequality, and a Sociology course focused on water scarcity. Thus, the student would have the opportunity to think critically about three distinct, ethically fraught issues in three disciplinary milieus.

The courses in the minor may be focused on disparate topics and discourses, but they are united in their method of instruction, which is uniquely suited to serving the minor's aim. This minor is comprised of courses that incorporate Peer-Led Team Learning (PLTL) on the Ethics, Western Civilization, and American Traditions (EWCAT) model. Each course in the sequence is designed to encourage student ownership of learning and engagement with original texts. EWCAT courses are currently taught in various departments in the College of Humanities and Social Sciences (CHSS).

Code	Title	Hours
Minor in Applied Ethics and Critical Thinking		
THNK 3333	Foundations of Inquiry	3
THNK 4396	Capstone Seminar	3
Four additional EWCAT courses [1]		12
Total Hours		18

[1] EWCAT courses, choose from the following:

Code	Title	Hours
ENGL 1301	Composition I	3
ENGL 1302	Composition II	3
ENGL 2332	Wrld Lit I: Before 17 Century	3
ENGL 2333	World Lit II: 17th C & After	3
ENGL 3334	Literature And Film	3
ENGL 3338	Studies In Multicultural Lit	3
ENGL 3391	Shakespeare: Tragedies & Hist	3
HIST 1301	United States History To 1876	3
HIST 1302	United States History Sn 1876	3
HIST 2311	World History to 1500	3
HIST 2312	World History since 1500	3
HIST 3369	The World In The 20Th Century	3
PHIL 1301	Introduction To Philosophy	3
PHIL 2303	Critical Thinking	3
PHIL 2306	Contemporary Moral Issues	3
PHIL 4333	Bioethics	3
PHIL 4363	Ethical Theories	3
PHIL 4371	Death And Dying	3
POLS 2305	American Government	3
PSYC 3371	Humanistic Psychology	3
POLS 3373	Ideologies and Democracy	3
POLS 3377	Survey of Political Theory	3
POLS 3378	American Political Thought	3
PSYC 3381	Social Psychology	3
PSYC 3383	Psychology And The Law	3
PSYC 4334	Applied Social Psychology	3
PSYC 4393	Positive Psychology	3
SOCI 1301	Principles Of Sociology	3
SOCI 1306	Social Problems	3

SOCI 2319	Introduction To Ethnic Studies	3
SOCI 3324	Social Inequality	3
SOCI 3376	Rural And Urban Sociology	3

Department of Communication Studies

Chair: Dr. Terry Thibodeaux (scm_tmt@shsu.edu) (936) 294-1356

Information: (936) 294-1497; Suite 410 College of Humanities and Social Sciences Building (CHSS)

Website: Department of Communication Studies (http://www.shsu.edu/commstudies)

Communication Studies is the modern heir to one of the world's oldest disciplines. Its connection to thought and language is fundamental, and its primacy in marriage and the family, in obtaining employment, and in advancing a career regardless of one's field are well documented.

Mission

Communication Studies students learn how to prepare and present informative and persuasive speeches using the latest technologies and learn the skills necessary to effectively engage in interpersonal, small group, and organizational forms of communication in a variety of contexts. They study the nuances of nonverbal communication, the dynamics of communication in the family, the principles of persuasion, the influence and power of culture on communication, as well as lying and other forms of deception, and theories of communication and how to apply them to various contexts in today's rapidly changing world.

Highlights

The Department of Communication Studies provides a rich climate in which to pursue the study of communication with a highly qualified faculty who take a personal interest in each student's learning. The friendly, cooperative climate among faculty is reflective of the general climate of collaborative learning throughout the department. Faculty participate in collaborative research projects with departmental colleagues and those from other departments, as well as providing opportunities for graduate and undergraduate students. All classrooms are equipped with the latest classroom and presentational technology. A state-of-the-art research laboratory in the department enhances research.

Suggested Minors

There is no preferred minor for Communication Studies. Students should select a minor that suits their interests and career needs. Common minors include English, Political Science, Foreign Languages, Psychology, Criminal Justice, Human Services, and Sociology.

Career Opportunities

The Department of Communication Studies offers coursework that provides for a wide variety of career choices. Faculty members and students have ongoing research programs in such areas as relationship maintenance and repair, health communication, intercultural communication, new communication technologies, and visual persuasion. The program is actively involved in advising students about course sequences available to prepare them for careers in both public and private organizations and agencies.

Communication Studies graduates enter a variety of fields, including teaching at all levels, public advocacy and public relations, governmental relations, the ministry, motivational speaking, education, event planning, website development, and marketing. Many continue their studies in Communication Studies graduate programs and in law schools.

Curriculum

Required Courses for Major

Communication Studies offers both the Bachelor of Arts (B. A.) and Bachelor of Science (B. S.) degree options. The B. A. option requires 14 hours of a foreign language plus a Philosophy course, while the B. S. option instead requires 8 hours of natural science plus a math/statistics or computer science course beyond the core curriculum science requirement.

Students choosing to pursue a Bachelor of Arts degree with a major in Communication Studies must complete at least 30 hours of credit in Communication Studies (COMS) courses, including at least 9 hours of advanced courses and 6 hours of elective courses in the program. To satisfy the foreign language requirement, all hours must be taken in the same language.

If students choose the Bachelor of Science degree option they must complete at least 30 hours of credit in Communication Studies courses, including at least 9 hours of advanced courses and 6 hours of elective courses in the program.

All students must take the following courses:

Code	Title	Hours
Required Courses		
COMS 1361	Public Speaking	3
COMS 2331	Intro - Comm Theory & Research	3
COMS 2386	Interpersonal Communication	3
COMS 4381	Communication Theory	3

12 hours Advanced COMS credits	12
6 hours COMS elective credits	6
Total Hours	30

COMS 2382 does not count toward the 30 hour requirement for majors.

- Bachelor of Arts, Major in Communication Studies
- Bachelor of Science, Major in Communication Studies
- Minor in Communication Studies

Student Organizations

Students may take advantage of the department's student organization, Speakeasies. The department is also home to the Lambda Beta chapter of Lambda Pi Eta, the official honor society of the National Communication Association.

Internships

The department offers internship opportunities for qualified students through COMS 4378.

Scholarships

The Department of Communication Studies offers several scholarships. Most scholarship deadlines are in March for the following academic at: Scholarships4Kats.

Chair: **Terry Thibodeaux**

Richard S Bello, PHD (scm_rsb@shsu.edu), *Professor of Communication Studies; Associate Dean of CHSS*, *Department of Communication Studies*, PHD, LSU AM College; MA, LSU AM College; BA, LSU AM College

Frances Elizabeth Brandau, PHD (scm_feb@shsu.edu), *Professor of Communication Studies*, *Department of Communication Studies*, PHD, LSU AM College; MA, Univ of Southern Mississippi; BS, Univ of Southern Mississippi

Yixin Chen, PHD (cindychen@shsu.edu), *Assistant Professor of Communication Studies*, *Department of Communication Studies*, PHD, University of Buffalo, Suny; MA, Univ of Texas-El Paso; ME, Huaqiao University; BE, Huaqiao University

Terry Thibodeaux, PHD (scm_tmt@shsu.edu), *Professor and Chair of Communication Studies*, *Department of Communication Studies*, PHD, Univ of Southern Mississippi; MED, McNeese State University; BA, McNeese State University

Lisa Joanne Van Raalte, PHD (lxv024@shsu.edu), *Assistant Professor of Communication Studies*, *Department of Communication Studies*, PHD, Arizona State University; MA, Univ of Hawaii At Manoa; BA, Univ of Hawaii At Manoa

Melinda Rachelle Weathers, PHD (mweathers@shsu.edu), *Assistant Professor of Communication Studies*, *Department of Communication Studies*, PHD, George Mason University; MA, Univ of Houston-Main; BA, Texas AM University

Shuangyue Zhang, PHD (sxz002@shsu.edu), *Associate Professor of Communication Studies*, *Department of Communication Studies*, PHD, Ohio State Univ; MA, Kent State University; MA, Shandong University; BA, Shandong Normal University

Interim Faculty

Carlton G Abernathy, MA (stdcga11@shsu.edu), *Lecturer of Communication Studies*, *Department of Communication Studies*, MA, Sam Houston State University; MA, Texas State Univ-San Marcos; BA, Sam Houston State University

Shelby Nicole Alverson, MA (sna013@shsu.edu), *Lecturer of Communication Studies*, *Department of Communication Studies*, MA, Sam Houston State University; BA, Texas AM University

Patricia J Capps, MA (scm_pjc@shsu.edu), *Lecturer of Communication Studies*, *Department of Communication Studies*, MA, Louisiana Tech University; MFA, Florida State University; BFA, Univ of Southern Mississippi

Terri Elaine Jaggers, MA (tej003@shsu.edu), *Clinical Assistant Professor of Communication Studies*, *Department of Communication Studies*, MA, Sam Houston State University; BS, U-Houston Downtown

Kristi Denise Johnson, MA (kdj029@shsu.edu), *Lecturer of Communication Studies*, *Department of Communication Studies*, MA, Texas Southern University; BA, Grambling State Univ

Candice Marie Shivers, PHD (stdcms17@shsu.edu), *Lecturer of Communication Studies*, *Department of Communication Studies*, PHD, Walden University; MA, Texas Southern University; BA, Sam Houston State University

Bachelor of Arts, Major in Communication Studies

Code	Title	Hours
Bachelor of Arts, Major in Communication Studies		
Core Curriculum		
Component Area I (Communication)		6
Component Area II (Mathematics)		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4
Degree Specific Requirements		
PHIL elective		3
Fine Arts Course		3
Foreign Language (one field)		14
Major Core		
COMS 1361	Public Speaking	3
COMS 2331	Intro - Comm Theory & Research	3
COMS 2386	Interpersonal Communication	3
COMS 4381	Communication Theory	3
Major		
COMS Electives (Advanced)		12
COMS Electives (Non-advanced)		6
Minor		
Minor (required)		18
Electives		10-19
Total Hours		120

Note

Minor and elective hours should be chosen with the university requirement of 42 advanced hours in mind.

First Year

Fall	Hours	Spring	Hours
Component Area II	3	Component Area IX	1
COMS 1361	3	COMS 2331	3
ENGL 1301[1]	3	ENGL 1302[1]	3
Foreign Language 1411[2]	4	Foreign Language 1412[2]	4
HIST 1301[3]	3	HIST 1302[3]	3
	16		14

Second Year

Fall	Hours	Spring	Hours
Component Area III	4	Component Area III	4
Component Area IV	3	Component Area IX	3
COMS 2386	3	COMS Advanced Elective	3
Foreign Language 2311[2, 4]	3	Foreign Language 2312[2, 4]	3
POLS 2305[5]	3	POLS 2306[5]	3
	16		16

Third Year

Fall	Hours	Spring	Hours
COMS Advanced Elective	3	COMS Advanced Elective	3

COMS Elective	3 COMS Elective	3
Fine Arts Course	3 COMS 4381	3
Minor	3 Minor	6
PHIL Elective	3	
	15	15

Fourth Year

Fall	Hours Spring	Hours
Component Area VIII	3 General Electives	10
COMS elective	3 Minor	3
General Electives	3	
Minor	6	
	15	13

Total Hours: 120

1 Satisfies Core Curriculum requirement for Component Area I (Communication).

3 Satisfies Core Curriculum requirement for Component Area VI (U.S. History).

2 Four courses in one language required.

4 Satisfies Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture).

5 Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).

Note:
Minor and elective hours should be chosen with the university requirement of 42 advanced hours in mind.

Bachelor of Science, Major in Communication Studies

Code	Title	Hours
Bachelor of Science, Major in Communication Studies		
Core Curriculum		
Component Area I (Communication)		6
Component Area II (Mathematics)		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4
Degree Specific Requirements		
MATH, STATS, or COSC elective		3
Natural Sciences		8
Major Core		
COMS 1361	Public Speaking	3
COMS 2331	Intro - Comm Theory & Research	3
COMS 2386	Interpersonal Communication	3
COMS 4381	Communication Theory	3
Major Core		
COMS Electives (Advanced)		12
COMS Electives (Non-advanced)		6
Minor		
Minor (required)		18
General Electives		19
Total Hours		120

Note
Minor and elective hours should be chosen with the university requirement of 42 advanced hours in mind.

First Year

Fall	Hours Spring	Hours
Component Area II	3 Component Area IX	1
Component Area III	4 Component Area III	4
COMS 1361	3 COMS 2331	3
ENGL 1301[1]	3 ENGL 1302[1]	3
HIST 1301[2]	3 HIST 1302[2]	3
	16	14

Second Year

Fall	Hours Spring	Hours
Component Area IV	3 Component Area VII	3
COMS 2386	3 Component Area IX	3
General Elective	3 MATH, STAT, or COSC Elective	3
Natural Sciences	4 Natural Sciences	4
POLS 2305[3]	3 POLS 2306[3]	3
	16	16

Third Year

Fall	Hours Spring	Hours
Component Area V	3 COMS Advanced Elective	3
COMS Advanced Elective	3 COMS Elective	3
COMS Elective	3 COMS 4381	3
General Elective	3 Minor	6
Minor	3	
	15	15

Fourth Year

Fall	Hours Spring	Hours
COMS Advanced Elective	3 Minor	3
COMS Elective	3 General Electives	7
General Electives	3 COMS Advanced Elective	3
Minor	6	
	15	13

Total Hours: 120

1 Satisfies Core Curriculum requirement for Component Area I (Communication).

2 Satisfies Core Curriculum requirement for requirement for Component Area VI (U.S. History).

3 Satisfies Core Curriculum requirement for requirement for Component Area VII (Political Science/Government).

Note: Minor and elective hours should be chosen with the university requirement of 42 advanced hours in mind.

Minor in Communication Studies

Students choosing a minor in Communication Studies must complete at least 18 hours in the program, including:

Code	Title	Hours
Minor in Communication Studies		
COMS 1361	Public Speaking	3
COMS 2331	Intro - Comm Theory & Research	3
COMS 2386	Interpersonal Communication	3
Advanced COMS Hours		9
Total Hours		18

COMS 2382 does not count toward the 18 hour requirement for minors.

Department of English

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Website: Department of English (http://www.shsu.edu/academics/english)

The Department of English offers students the opportunity to study language, literature, composition, and cultures.

Mission

The Department of English strives to provide students with opportunities to grow as learners and as individuals. Students in the English Program may, through study of literature, gain an awareness and knowledge of themselves and their contemporary world. English students may also combine their cultural interests with specific vocational objectives, such as professional writing, teaching, or pre-professional training for law, business, or medicine.

English forms the cornerstone of the humanities. In a variety of courses in literature, writing, and the English language, students find a source of personal enrichment, and they develop verbal, analytic, and cultural skills readily adaptable to a variety of careers.

English students learn to write with precision, to read and analyze texts with accuracy, to conduct research and organize a welter of materials, to speak and listen well — in short, to sharpen critical thinking and inquiry skills. These skills are highly valued by prospective employers. Most professions, while expecting new employees to be familiar with their specific fields, stress above all else the ability of their employees to read, write, think, and speak proficiently. Similarly, professional schools are interested in the student who reads, writes, thinks, and speaks well. Brochures from medical and law schools, for example, reflect an increasing awareness of the importance of an English background for future physicians and attorneys.

Academic Programs

Students in English may choose the Bachelor of Arts in English with an approved minor or may choose composite teacher certification in English, Language Arts, and Reading. Students may also opt to minor in English (with or without Secondary Education Certification), in Creative Writing, in Professional Writing, or in American Studies.

Highlights

- The English Department focuses on excellent teaching, featuring numerous Sam Houston State University Teaching Excellence Award winners.
- Faculty actively publish in national and international journals, win national literary awards, and serve as editors of scholarly journals.
- Nationally recognized writers are brought to campus each year to read their works to students and discuss the writing and publishing process. Such writers have included Richard Bausch, Alan Cheuse, George Garrett, Allison Joseph, X.J. Kennedy, Maurice Kilwein, Galway Kinnell, Alex Lemon, Larry McMurtry, Marilyn Nelson and Tim O'Brien.
- Students may publish and present their writing and enter writing contests. Numerous students have published works in regional and national journals.
- Academy of American Poets Prize - Students may compete for a poetry-writing prize judged by a nationally recognized poet.
- Students may gain professional experience as they participate in course projects to write technical documents for non-profit and other community groups.
- Students enrolled in English classes may use Iris, a digital humanities creative suite offering state of the art facilities for multi-modal production.

Suggested Minors

SHSU offers a wide range of courses and areas students may use to structure a minor, and students should choose a minor to fit their individual interests and career goals. English majors may minor in Creative Writing, Professional Writing, or American Studies. Other common minors for English majors include Communication Studies, History, Mass Communication, Political Science, and Education.

Career Opportunities

When graduates leave SHSU with a degree in English, they are prepared for career opportunities or advanced study in teaching, technical and professional communication, journalism, government service, editing, scholarly and trade publishing, law, and business.

- Bachelor of Arts - Major in English
- Bachelor of Arts - Major in English, Major in Secondary Education
- Minor in English (without Secondary Certification)
- Minor in English (Standard Certification)
- Minor in Creative Writing
- Minor in Technical and Professional Writing

- Minor in American Studies
- Minor in Applied Ethics and Critical Thinking

Student Organizations and Activities

Students in English may participate in many activities that will enrich their undergraduate experience and support the courses that they take:

- **English Club** offers a platform for SHSU students to build intellectual community and engage in meaningful acts of service to campus and local communities. English Club sponsors regular academic programs, community outreach events, and social events, all of which are open to SHSU undergraduates, regardless of major. Faculty Sponsor: Dr. Jason M. Payton
- ***The Beacon*** is a literary magazine that publishes the writing of SHSU students. The journal staff consists of SHSU students working closely with a faculty advisor.
- **Sigma Tau Delta**, the English honor society, invites junior and senior English majors and minors to become members of this prestigious national organization, with membership in the society recorded on each student's transcript. Sigma Tau Delta is an active student organization, sponsoring an annual food drive and readings throughout the school year. Applications for Sigma Tau Delta are available in the English office. Faculty Sponsor: Dr. Diane Dowdy
- ***The Texas Review*** is a nationally recognized literary magazine that, twice a year, publishes fiction, poetry, nonfiction prose, and reviews by writers from around the world. Texas Review Press sponsors the publication of eighteen to twenty-four books a year. Students may serve as interns while working as members of the *Review* and Press staff. Journal Editor: Nick Lantz
- **The Writer's Forum** provides opportunities for all SHSU students to publish their writing.

Internships and Study Abroad

- **Texas Review Press** - Students may serve as interns at Texas Review Press. Interns are involved in a variety of tasks, ranging from charting the development of a manuscript to evaluating submissions to the literary journal.
- **Internships** in business and industry may be available for qualified students who are working on a minor in Technical and Professional Writing.
- A **student exchange program** with the English Department at the University of Turku, Finland, provides students with an opportunity to study abroad for either a semester or a full year and transfer coursework toward their SHSU degree.

Scholarships

Several English scholarships are available for outstanding undergraduate students. Information on University scholarships may be obtained at Scholarship4kats (http://www.shsu.edu/dept/financial-aid/scholarships) or telephone 936-294-1672. You may also call the English Department Office (936-294-1403) for more information.

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Bachelor of Arts - Major in English

Code	Title	Hours
Bachelor of Arts - Major in English		
Core Curriculum		
Component Area I (Communication)		6
Component Area II (Mathematics)		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4
Degree-Specific Requirements		
Foreign Language		14
PHIL		3
ARTS, DANC, MUSI, THEA -OR- PHIL 3366		3
Major Core		
ENGL 2332	Wrld Lit I: Before 17 Century	3
ENGL 2333	World Lit II: 17th C & After	3
ENGL 3360	Survey Of American Lit To 1865	3
ENGL 3361	Survey Amer Lit From 1865-Pres	3
ENGL 3372	Introduction to Linguistics	3
or ENGL 3373	English Grammar	
ENGL 3384	Early English Masterworks	3
ENGL 3385	Later English Masterworks	3
Major		
4000-level ENGL		9
3000- or 4000-level ENGL		9
Minor (Required)		18
Electives		4
Total Hours		120

Notes

1. The English major requires a total of 36 hours of English coursework, including a minimum of 15 upper-division hours (6 hours at the 4000-level). [Note: ENGL 1301 and ENGL 1302 may not be used to meet this requirement.] All general requirements, including a minor, must be met.

2. Students with a grade of "A" in ENGL 1301, ENGL 1302, and either ENGL 2332 or ENGL 2333 may take any 3000-level course in lieu of a second 2000-level course. Students must receive a “C” or better in all English coursework in order to apply it to any English major or minor.

First Year

Fall	Hours	Spring	Hours
Component Area II	3	Component Area IX	4
Component Area V	3	ENGL 1302[1]	3
ENGL 1301[1]	3	Foreign Language 1412[2]	4
Foreign Language 1411[2]	4	HIST 1302[3]	3
HIST 1301[3]	3		
	16		14

Second Year

Fall	Hours	Spring	Hours
Component Area III[6]	4	Component Area III[6]	4
Component Area VIII	3	ENGL 2333	3

ENGL 2332	3	Foreign Language 2312 [2,4]	3
Foreign Language 2311 [2,4]	3	PHIL elective	3
POLS 2305[5]	3	POLS 2306[5]	3
	16		16

Third Year

Fall	Hours	Spring	Hours
ARTS, DANC, MUSI, THEA, or PHIL 3366	3	ENGL 3361	3
ENGL 3360	3	ENGL 3385	3
ENGL 3372 or 3373	3	ENGL 3000- or 4000-level elective	3
ENGL 3384	3	Minor electives	6
Minor elective	3		
	15		15

Fourth Year

Fall	Hours	Spring	Hours
ENGL 3000- or 4000-level electives	6	ENGL 4000-level elective	6
ENGL 4000-level elective	3	Elective	4
Minor elective	6	Minor elective	3
	15		13

Total Hours: 120

1 Satisfies Core Curriculum requirement for Component Area I (Communication).

2 Four courses required in one language.

3 Satisfies Core Curriculum requirement for Component Area VI (U.S. History).

4 Satisfies Core Curriculum requirement for Component Area IV Language, Philosophy, and Culture).

5 Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).

6 Two courses required.

Notes:

- The English major requires a total of 36 hours of English coursework, including a minimum of 15 upper-division hours (6 hours at the 4000-level). [Note: ENGL 1301 and ENGL 1302 may not be used to meet this requirement.] All general requirements, including a minor, must be met.
- Students with a grade of "A" in ENGL 1301, ENGL 1302, and either ENGL 2332 or ENGL 2333 may take any 3000-level course in lieu of a second 2000-level course. Students must receive a “C” or better in all English coursework in order to apply it to any English major or minor.

Bachelor of Arts - Major in English, Minor in Secondary Education

Code	Title	Hours
Bachelor of Arts - Major in English, Minor in Secondary Education		
Core Curriculum		
Component Area I (Communication)		6
Component Area II (Mathematics)		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4
Degree-Specific Requirements		
Foreign Language		14
PHIL		3
ARTS, DANC, MUSI, THEA , or PHIL 3366		3
Major Core		
ENGL 2332	Wrld Lit I: Before 17 Century	3

ENGL 2333	World Lit II: 17th C & After	3
ENGL 3360	Survey Of American Lit To 1865	3
ENGL 3361	Survey Amer Lit From 1865-Pres	3
ENGL 3373	English Grammar	3
ENGL 3374	Teaching Writing and Lit	3
ENGL 3384	Early English Masterworks	3
ENGL 3385	Later English Masterworks	3
ENGL 4364	Mth Tch Eng In Sec Sch	3
Major		
4000-level ENGL		6
3000- or 4000-level ENGL		9
Minor in Secondary Education		
CISE 3384	The Teaching Profession	3
CISE 4364	Mth Tch Secondary Schools	3
CISE 4378	Content Literacy	3
CISE 4379	Differentiated Pedagogy	3
CISE 4380	Respon Of Pro Educator	3
CISE 4394	Creatng Env For Lrng-Secondary	3
CISE 4396	Std Tch Secondary Classroom	3
CISE 4397	Std Tch Secondary Classroom	3
Total Hours		125

Notes:

1. The English major with a minor in Secondary Education requires a total of 36 hours of English coursework, including a minimum of 15 upper-division hours (6 hours at the 4000-level) and a 24-hour minor in Secondary Education. [Note: ENGL 1301 and ENGL 1302 may not be used to meet this requirement.] All general requirements must be met.

2. Students with a grade of "A" in ENGL 1301, ENGL 1302, and eitherENGL 2332 or ENGL 2333 may take any 3000-level course in lieu of a second 2000-level course. Students must receive a “C” or better in all English coursework in order to apply it to any English major or minor.

First Year

Fall	Hours	Spring	Hours
Component Area II	3	Component Area IX	4
Component Area V	3	ENGL 1302[1]	3
ENGL 1301[1]	3	Foreign Language 1412[2]	4
Foreign Language 1411[2]	4	HIST 1302[3]	3
HIST 1301[3]	3	PHIL elective	3
	16		17

Second Year

Fall	Hours	Spring	Hours
Component Area III[6]	4	Component Area III[6]	4
Component Area VIII	3	ARTS, DANC, MUSI, THEA, or PHIL 3366	3
ENGL 2332	3	ENGL 2333	3
Foreign Language 2311[2,4]	3	Foreign Language 2312[2,4]	3
POLS 2305[5]	3	POLS 2306[5]	3
	16		16

Third Year

Fall	Hours	Spring	Hours
CISE 3384	3	CISE 4378	3
ENGL 3360	3	ENGL 3361	3
ENGL 3373	3	ENGL 3374	3
ENGL 3384	3	ENGL 3385	3
ENGL 3000- or 4000-level elective	3	ENGL 3000- or 4000-level elective	3

	CISE 4380	3
	15	18

Fourth Year

Fall	Hours	Spring	Hours
ENGL 4364	3	CISE 4394	3
ENGL 3000- or 4000-level elective	3	CISE 4396	3
ENGL 4000-level elective	6	CISE 4397	3
CISE 4364	3		
CISE 4379	3		
	18		9

Total Hours: 125

1 Satisfies Core Curriculum requirement for Component Area I (Communication).

2 Four courses required in one language.

3 Satisfies Core Curriculum requirement for Component Area VI (U.S. History).

4 Satisfies Core Curriculum requirement in Component Area IV (Language, Philosophy, and Culture).

5 Satisfies Core Curriculum requirement in Component Area VII (Political Science/Government).

6 Two courses required.

Notes:

1.The English major with a minor in Secondary Education requires a total of 36 hours of English coursework, including a minimum of 15 upper-division hours (6 hours at the 4000-level) and a 24-hour minor in Secondary Education. [Note: ENGL 1301 and ENGL 1302 may not be used to meet this requirement.] All general requirements must be met.

2. Students with a grade of "A" in ENGL 1301, ENGL 1302, and eitherENGL 2332 or ENGL 2333 may take any 3000-level course in lieu of a second 2000-level course. Students must receive a “C” or better in all English coursework in order to apply it to any English major or minor.

Minor in American Studies

The American Studies Minor explores aspects of the American experience locally, nationally, and within the global community from various perspectives and disciplines, including literature, history, political science, psychology, sociology, communication studies, and criminal justice. Minors will complete 18 semester credit hours of study.

Code	Title	Hours
Minor in American Studies		
AMST 3311	Intro to American Studies	3
Five Elective Courses (See list below)		15
Total Hours		18

The elective courses will be drawn from three categories of concentration, and students will select two courses from any two of these categories and one course from a third category to constitute their fifteen elective hours.

1. Regional and Borderland Studies (studies of Texas, the Southwest, and border culture);
2. Ethnicity and Race in America (racial and ethnic minority experiences, history, and cultural expression); and
3. Gender in America (women's and masculinity studies).

In keeping with the intent of a minor to broaden students' knowledge, none of the courses taken by American Studies minors may be used to satisfy the requirement of any other major or minor. At least nine of the eighteen hours constituting the minor must be writing-intensive courses.

Code	Title	Hours
Minor in American Studies		
1. Regional and Borderland Studies		
CRIJ 3394	Glbl Terrorism& Homlnd Securty	3
ENGL 3388	Texas Crossroads	3
ENGL 4370	American Regional Literature	3
HIST 3326	The History Of The West	3
HIST 3391	Colonial Latin America	3

HIST 3396	The American South	3
HIST 3398	Texas And The Southwest	3
SOCI 4332	Soc Of Demography & Migration	3
SPAN 3374	Intro-Lit Of Spanish America	3
SPAN 3385	Span-Amer Culture & Civilizatn	3
2. Ethnicity and Race in America		
COMS 3370	Intercultural Communication	3
CRIJ 4385	Criminl Justc & Social Divrsty	3
ENGL 3337	African-American Literature	3
ENGL 3338	Studies In Multicultural Lit	3
GERM 2364	Multicultures Of Amer-German	3
HIST 3322	Black Civil Rights Movement	3
HIST 3323	History Of American Slavery	3
HIST 3382	Immigration Ethnicity Amer His	3
HIST 3392	American Indian History	3
HIST 3393	African-American History	3
POLS 3335	Pol Ethnic Minorities & Gender	3
SOCI 3324	Social Inequality	3
SOCI 3355	Race/Ethnic Inequality	3
3. Gender in America		
COMS 4386	Family Communication	3
ENGL 3336	Studies In Women's Literature	3
HIST 3383	American Women's History	3
SOCI 3325	Gender And Inequality	3
POLS 3335	Pol Ethnic Minorities & Gender	3
PSYC 4334	Applied Social Psychology	3
PSYC 4391	Divorce: Psychological Impact	3

Minor in Creative Writing

Students who major in other fields of study may elect one of four minors in English. Each minor requires 18 hours of course work in English, as outlined below; the English minor with Standard Secondary Certification requires an additional 24 hours. In keeping with the intent of a minor to broaden students' knowledge, none of the courses taken toward any English minor (minor in English, minor in Creative Writing, minor in Technical Writing, or Minor in American Studies) may be used to satisfy the requirement of any other major, minor, or core curriculum course.

Code	Title	Hours
Minor in Creative Writing		
ENGL 3380	Advanced Composition	3
ENGL 3381	Intro Creative Writing:Fiction	3
ENGL 3382	Intro Creative Writing: Poetry	3
ENGL 3383	Practicum In Publishing	3
Select one of the following:		3
ENGL 4380	Adv Creative Wrtng: Nonfiction	
ENGL 4381	Adv Creative Writing: Fiction	
ENGL 4382	Adv Creative Writing: Poetry	
3000- or 4000-level elective in ENGL		3
Total Hours		18

Minor in English (Standard Certification)

Students who major in other fields of study may elect one of four minors in English. Each minor requires 18 hours of course work in English, as outlined below; the English minor with Standard Secondary Certification requires an additional 24 hours. In keeping with the intent of a minor to broaden students' knowledge, none of the courses taken toward any English minor (minor in English, minor in Creative Writing, minor in Technical Writing, or Minor in American Studies) may be used to satisfy the requirement of any other major, minor, or core curriculum course.

Code	Title	Hours
Minor in English (Standard Secondary Certification)		
ENGL 2332	Wrld Lit I: Before 17 Century	3
or ENGL 2333	World Lit II: 17th C & After	
ENGL 3373	English Grammar	3
ENGL 3374	Teaching Writing and Lit	3
ENGL 4364	Mth Tch Eng In Sec Sch	3
3000- or 4000-level electives in ENGL		3
4000-level elective in ENGL (except ENGL 4364)		3
Minor in Secondary Education		24
Total Hours		42

Notes

A student pursuing the minor in English with Secondary Certification may obtain teaching certification by completing the English certification courses and the required coursework in Secondary Education. Students who choose this minor will also be required to complete the requirements for a minor in Secondary Education.

Minor in English (without Secondary Certification)

Students who major in other fields of study may elect one of four minors in English. Each minor requires 18 hours of course work in English, as outlined below; the English minor with Standard Secondary Certification requires an additional 24 hours. In keeping with the intent of a minor to broaden students' knowledge, none of the courses taken toward any English minor (minor in English, minor in Creative Writing, minor in Technical Writing, or Minor in American Studies) may be used to satisfy the requirement of any other major, minor, or core curriculum course.

Code	Title	Hours
Minor in English (without Secondary Certification)		
ENGL 2332	Wrld Lit I: Before 17 Century	3
or ENGL 2333	World Lit II: 17th C & After	
Select three of the following:		9
ENGL 3360	Survey Of American Lit To 1865	
ENGL 3361	Survey Amer Lit From 1865-Pres	
ENGL 3384	Early English Masterworks	
ENGL 3385	Later English Masterworks	
3000- or 4000-level elective ENGL		3
4000-level Elective in ENGL(except ENGL 4364)		3
Total Hours		18

Minor in Technical and Professional Writing

Students who major in other fields of study may elect one of four minors in English. Each minor requires 18 hours of course work in English, as outlined below; the English minor with Standard Secondary Certification requires an additional 24 hours. In keeping with the intent of a minor to broaden students' knowledge, none of the courses taken toward any English minor (minor in English, minor in Creative Writing, minor in Technical Writing, or Minor in American Studies) may be used to satisfy the requirement of any other major, minor, or core curriculum course.

Code	Title	Hours
Minor in Technical and Professional Writing		
ENGL 3330	Intro To Technical Writing	3
ENGL 3377	Argument And Persuasion	3
ENGL 3378	Designing Written Documents	3
ENGL 4330	Writing In The Professions	3
ENGL 4335	Studies In Rhetoric	3
ENGL 4340	Professional Style and Editing	3
Total Hours		18

Department of World Languages and Cultures

Chair: Dr. Leif French (lmf027@shsu.edu) (936) 294-1414

Information: (936) 294-1441; ABIV 315; foreignlanguages@shsu.edu

Website: Department of World Languages and Cultures (http://www.shsu.edu/~fol_www)

Foreign language study not only enables communication across languages and cultures but opens doors to insights about different cultures and their diverse perspectives of life. Knowledge of languages and cultures provides exciting opportunities for travel and careers.

Highlights

All languages

- Cultural celebrations
- Foreign film festivals
- Study Abroad

French

- National French Week: November
- French Film Club

German

- Oktoberfest: October
- German Film Club

Spanish

- Grito de Dolores: September
- Día de la Raza: October
- Día de los Muertos: November
- Navidad: December
- Semana Santa: spring

Suggested Minors

SHSU offers a wide range of courses and area studies particularly applicable to language study minors for individual interests and career goals, especially in Business, Criminal Justice, Education, Health Professions, History, International Business, Journalism, Mass Media, Music, and Political Science.

Career Opportunities

Professionals with competence in one or more foreign languages are needed in almost all professions:

- agriculture
- business
- computer science
- criminology
- education
- the fine arts
- government service
- industry
- international business
- medicine
- mass media
- science
- related areas

The Department of World Languages and Cultures prepares students for professions requiring a foreign language as a major skill, for graduate school and functions as a service area in career preparation.

Department Specific Requirements

A major in Spanish requires a total of 36 hours of coursework. These include:

Code	Title	Hours
Required Courses		
SPAN 1411	Elementary Spanish I	4
SPAN 1412	Elementary Spanish II	4
SPAN 2311	Intermediate Spanish I	3
SPAN 2312	Intermediate Spanish II	3
Advanced courses (12 hours of which must be taken in residence.)		22
Total Hours		36

Foreign language majors and language students in the teacher certification program must take at least one history or geography course dealing with the country or countries whose language they are studying in order to promote interdisciplinary and international education. **Students are required to have a 3.0 or the equivalent in their advanced major/minor teaching areas prior to being permitted to take the certification examinations.**

- Bachelor of Arts - Major in Spanish
- Bachelor of Arts - Major in Spanish with Teaching Certification
- Minor in French
- Minor in Spanish
- Minor in German
- Minor in Middle Eastern Studies

Student Organizations and Activities

The Foreign Languages Program sponsors many activities designed to enhance the language student's linguistic and cultural experiences at Sam Houston State University.

The Foreign Languages Program sponsors, Delta Phi Alpha, Pi Delta Phi, the national French honor society and Sigma Delta Pi, the national Spanish honor society. Students also may participate in the Arabic, ASL, French, German, and Spanish Clubs.

Internships and Study Abroad

Students have the opportunity to study abroad. Students and faculty come together as a community of scholars to study language and different aspects of culture and interact with the community during the summer. SHSU offers courses in countries like Costa Rica, Germany, and Canada (Quebec). Students may take intermediate and advanced courses and courses at all levels in not only language but in such disciplines as Art, Business, Family & Consumer Sciences and Agriculture.

Full semester study abroad experiences in many target-language areas are available through SHSU agreements with universities throughout the world; for more information visit International Programs (http://www.shsu.edu/dept/international-programs).

Various credit-bearing internships are also available; for more information visit the Department of World Languages. (http://www.shsu.edu/~fol_www)

Scholarships

Scholarships: Students in languages may apply for the Foreign Languages Scholarship, for the Mozelle Powell Spanish Scholarship, and/or for the Seola Arnaud & R.V. Edwards, Jr. Endowed French Scholarship. For more information, apply on line at Scholar X and contact the Department of World Languages and Cultures office or visit Foreign Languages (http://www.shsu.edu/academics/foreign-languages). Information on University scholarships may be obtained at the Office of Academic Scholarships or by telephone (936) 294-1672.

Chair: **Leif M French**

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Bachelor of Arts - Major in Spanish

Code	Title	Hours
Bachelor of Arts - Major in Spanish		
Core Curriculum		
Component Area I (Communication)		6
Component Area II (Mathematics)		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4
Degree Specific Requirements		
PHIL		3
Fine Arts Course		3
HIST or GEOG (Related to major/with department approval)		3
Major Core		
SPAN 1411	Elementary Spanish I	4
SPAN 1412	Elementary Spanish II	4
SPAN 2311	Intermediate Spanish I [1]	3
SPAN 2312	Intermediate Spanish II	3
Major		
SPAN Advanced Electives		22
Minor (required)		
SPAN 3361	Spanish Grammar & Composition	3
Minor Electives		15
Electives		
SPAN Electives		15
Total Hours		120

[1] Satisfies Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture) and the major.

Note:

Students should use elective and/or minor hours to satisfy the 42 advanced hour requirement. All students must complete at least 120 hours to graduate.

First Year

Fall	Hours	Spring	Hours
Component Area II	3	Component Area III	4
Component Area IX	1	Component Area IX	3
ENGL 1301[1]	3	ENGL 1302[1]	3
HIST 1301[2]	3	HIST 1302[2]	3
SPAN 1411	4	SPAN 1412	4
	14		17

Second Year

Fall	Hours	Spring	Hours
Component Area III	4	Component Area V	3
Component Area VIII	3	PHIL course	3
Fine Arts	3	POLS 2306[3]	3
POLS 2306[3]	3	SPAN 2312	3

SPAN 2311	3	SPAN 3361	3
	16		15

Third Year

Fall	Hours	Spring	Hours
Component Area IV	3	HIST or GEOG Course[4]	3
Minor	6	Minor	3
SPAN Advanced Electives	6	SPAN Advanced Electives	4
		SPAN Electives	3
	15		13

Fourth Year

Fall	Hours	Spring	Hours
Minor	3	Minor	3
SPAN Advanced Electives	6	SPAN Advanced Electives	6
SPAN Electives	6	SPAN Electives	6
	15		15

Total Hours: 120

1 Satisfies Core Curriculum requirement for Component Area I (Communication).

2 Satisfies Core Curriculum requirement for Component Area VI (U.S. History).

3 Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).

4 Related to major with departmental approval.

Note:

Students should use elective and/or minor hours to satisfy the 42 advanced hour requirement. All students must complete at least 120 hours to graduate.

Minor in Middle Eastern Studies

The Middle Eastern Studies minor includes a track A (Arabic language) and a track B (non-language).

Code	Title	Hours
Minor in Middle Eastern Studies		
Track A		
ARAB 1412	Elementary Arabic II	4
ARAB 2311	Intermediate Arabic I	3
ARAB 2312	Intermediate Arabic II	3
Select two of the following:		6
HIST 3336	Middle East Since 1700	
POLS 3375	Politics Of The Middle East	
SOCI 3336	Social Change And Development	
Select one of the following:		3
ARAB 3380	The Contemporary Arab World	
FACS 4373	Cultural Food Practices	
SOCI 3342	Sociology Of Religion	
Total Hours		19

Code	Title	Hours
Track B		
Select three of the following:		9
HIST 3335	Germany & Cen Europe Sn 1815	
HIST 3336	Middle East Since 1700	
POLS 3375	Politics Of The Middle East	
SOCI 3336	Social Change And Development	
Select three of the following:		9

ARAB 4075	Individual Readings in Arabic
HIST 3326	The History Of The West
POLS 4081	Problems in Political Science
SOCI 3342	Sociology Of Religion
Total Hours	18

Students may take POLS 4081 orHIST 3326 or ARAB 4075 more than once for credit toward the minor if the topics are different. Topics in these courses must be on the Middle East. Departments will offer the courses with a Middle East focus once a year. In addition, ARAB 1411, ARAB 1412, ARAB 2311, or ARAB 2312 may be substituted for any six hours in block 2 classes of Track B. FOLG 4363 may also be counted as an advanced course for the minor for Tracks A & B.

Foreign Language Requirement

The 12-14 semester hour requirement consists of four courses in one language: 1411, 1412, 2311, and 2312. These courses must be taken in sequence. No two courses in the series may be taken concurrently without the written approval of the Department Chair. The requirement reads “12-14 hours” to accommodate transfer students from institutions that award only 3 hours credit for each semester of the first year.

Credit-by-Examination/Placement Examination

The University offers a CLEP subject exam in order to determine the amount of credit to be given for courses which need not be taken because of adequate performance on the examination. Inquiries should be directed to the Office of Testing.

Minor in French

A minor in French requires a total of 23 hours of coursework. These include:

Code	Title	Hours
Minor in French		
FREN 1411	Elementary French	4
FREN 1412	Elementary French	4
FREN 2311	Intermediate French I	3
FREN 2312	Intermediate French II	3
Advanced courses (six hours of which must be taken in residence.) [1]		9
Total Hours		23

[1] FOLG 4363 may also be counted as an advanced course for the minor.

Foreign Language Requirement

The 12-14 semester hour requirement consists of four courses in one language: 1411, 1412, 2311, and 2312. These courses must be taken in sequence. No two courses in the series may be taken concurrently without the written approval of the Department Chair. The requirement reads “12-14 hours” to accommodate transfer students from institutions that award only 3 hours credit for each semester of the first year.

Credit-by-Examination/Placement Examination

The University offers a CLEP subject exam in order to determine the amount of credit to be given for courses which need not be taken because of adequate performance on the examination. Inquiries should be directed to the Office of Testing.

Minor in German

Code	Title	Hours
Minor in German		
GERM 1411	Elementary German	4
GERM 1412	Elementary German	4
GERM 2311	Intermediate German I	3
GERM 2312	Intermediate German II	3
GERM 3368	German Media	3
GERM 3380	Modern German Culture	3

GERM 4360	Modern German Literature	3
Total Hours		23

Note: FOLG 4363 may also be counted as an advanced course for the minor.

Foreign Language Requirement

The 12-14 semester hour requirement consists of four courses in one language: 1411, 1412, 2311, and 2312. These courses must be taken in sequence. No two courses in the series may be taken concurrently without the written approval of the Department Chair. The requirement reads "12-14 hours" to accommodate transfer students from institutions that award only 3 hours credit for each semester of the first year.

Credit-by-Examination/Placement Examination

The University offers a CLEP subject exam in order to determine the amount of credit to be given for courses which need not be taken because of adequate performance on the examination. Inquiries should be directed to the Office of Testing.

Minor in Spanish

A minor in Spanish requires a total of 23 hours of coursework. These include:

Code	Title	Hours
Minor in Spanish		
SPAN 1411	Elementary Spanish I	4
SPAN 1412	Elementary Spanish II	4
SPAN 2311	Intermediate Spanish I	3
SPAN 2312	Intermediate Spanish II	3
Advanced courses (six hours of which must be taken in residence.) [1]		9
Total Hours		23

[1] FOLG 4363 may also be counted as an advanced course for the minor.

Foreign Language Requirement

The 12-14 semester hour requirement consists of four courses in one language: 1411, 1412, 2311, and 2312. These courses must be taken in sequence. No two courses in the series may be taken concurrently without the written approval of the Department Chair. The requirement reads "12-14 hours" to accommodate transfer students from institutions that award only 3 hours credit for each semester of the first year.

Credit-by-Examination/Placement Examination

The University offers a CLEP subject exam in order to determine the amount of credit to be given for courses which need not be taken because of adequate performance on the examination. Inquiries should be directed to the Office of Testing.

Department of History

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Website: Department of History (http://www.shsu.edu/academics/history)

Mission

The Department of History prepares students to learn about and analyze historical events; evaluate change over time; assess complex forces at work in the past; and learn how, in written and oral expression, to explain these various phenomena. In doing so, the department prepares students for any career requiring critical and analytical skills. The Department of History is a vehicle—through teaching, research and service—for exploring the past on its own terms and understanding the present.

Highlights

The Department offers a wide range of undergraduate courses in US, European, and World histories. Our diverse faculty demonstrates high standards of quality in both teaching and research. Four members have won SHSU's Excellence in Teaching Award; two have won the Minnie Stevens Piper Award; another has won the Carnegie Foundation for the Advancement of Teaching Texas Professor of the Year Award; another has won the Ottis Lock Award for Educator of the Year from the East Texas Historical Association; and in 2016, one was a finalist for History's highest honor, the Pulitzer Prize. Nine members have received more than $2.6 million in federal grants to train Texas high school teachers in Traditional American History. Faculty enjoy engaging in innovative historical research in Huntsville, in Texas broadly, across the United States, and around the world. They regularly publish scholarly books and articles that are read by academic and popular audiences alike. Our students have won the Houston history Challenge Bowl (netting thousands of dollars in scholarships) and experienced living history throughout the region via our popular Bearkat History Club.

Suggested Minors

History majors can minor in a wide variety of disciplines, including:

- Communication Studies
- Computing Science
- Criminal Justice
- Economics
- English
- General Business
- Geography
- Journalism
- Mass Communication
- Math
- Philosophy
- Photography
- Political Science
- Psychology
- Sociology
- Theater
- World Languages

Career Opportunities

The study of history is the gateway to a wide range of careers. The analytical and communications skills at the heart of historical inquiry are natural springboards to vocations in education, museums and archives, journalism, public relations, government service, law, and business, just to name a few. SHSU's rigorous History major, culminating in a capstone research seminar, also provides structured preparation for students intending to pursue graduate studies in the humanities or social sciences.

Program Specific Requirements

History majors pursuing a Bachelor of Arts degree are required to take four semesters of a single foreign language at SHSU. However, any languages can be accepted in transfer.

Curriculum

Required History Courses for Majors

The Bachelor of Arts degree requires 36 semester credit hours in History, including but not limited to: HIST 1301 HIST 1302, HIST 2311 HIST 2312, and upper-level courses in US, European, and World History. All History majors are required to take a capstone research seminar at the 4000-level. At least 12 hours of upper-level history courses must be taken at SHSU.

- Bachelor of Arts, Major in History
- Bachelor of Science, Major in History
- Minor in History (without Teacher Certification)
- Minor in History (with Teacher Certification)
- Minor in Applied Ethics and Critical Thinking

Student Organizations and Activities

The History Department sponsors the Bearkat History Club and Phi Alpha Theta.The Bearkat History Club has a large student membership with its own officers and organizes a wide variety of fun and educational activities, including: various speaking engagements, film nights, and excursions to historical sites including New Orleans, Dallas, and East Texas. Members of Phi Alpha Theta, national history honor society, won the Division 5 Best Chapter Award for 2017. Phi Alpha Theta organizes variety of events including training seminars and offers scholarships to attend the national Phi Alpha Theta biennial convention.

Internships and Study Abroad

History majors interested in museum careers have the opportunity of completing a museum internship as part of their undergraduate curriculum. In recent years, interns have served at the Sam Houston Memorial Museum, the Star of the Republic Museum at Washington-on-the-Brazos, the Contemporary Art Museum of Houston, the Texas Prison Museum, and the Baseball Hall of Fame in Cooperstown, New York among others.

History faculty offers summer study abroad programs on a yearly basis. Check the department website for availability.

Scholarships

A variety of scholarships are available. Departmental scholarships are arranged by faculty nomination. However, to be nominated, students must register with Scholarships4Kats (http://www.shsu.edu/dept/financial-aid/scholarships). For information on university scholarships, please, visit the Office of Academic Scholarships (http://www.shsu.edu/dept/financial-aid/scholarships) or telephone (936) 294-1672.

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Bachelor of Arts, Major in History

Code	Title	Hours
Bachelor of Arts, Major in History		
Core Curriculum		
Component Area I (Communication)		6
Component Area II (Mathematics)		3
Component Area III (Natural Sciences)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4
Degree Specific Requirements		
Foreign Language first two courses		8
Foreign Language second two courses		6
Fine Arts - Art, Dance, Theatre, Music, PHIL 3366		3
Major		
HIST 1301	United States History To 1876 [1]	3
HIST 1302	United States History Sn 1876 [1]	3
HIST 2311	World History to 1500	3
HIST 2312	World History since 1500	3
American History - select one of the following: [2]		3
HIST 3322	Black Civil Rights Movement	
HIST 3323	History Of American Slavery	
HIST 3325	Era Of Amer Revoltn 1763-1789	
HIST 3326	The History Of The West	
HIST 3338	Eco His: Ind Rev To Present	
HIST 3340	Mexican Americans Since 1848	
HIST 3355	Urban and Suburban History	
HIST 3361	The U. S. And The Vietnam War	
HIST 3376	Early America To 1783	
HIST 3377	America In Midpassge 1783-1877	
HIST 3378	Emergence Mod Amerca 1877-1945	
HIST 3379	Recent America, 1945 To Presnt	
HIST 3380	The American Civil War	
HIST 3382	Immigration Ethnicity Amer His	
HIST 3383	American Women's History	
HIST 3385	American Diplomatic History	
HIST 3386	Military & War In America	
HIST 3392	American Indian History	
HIST 3393	African-American History	
HIST 3394	America in the 1960s	
HIST 3395	American Environmental History	
HIST 3396	The American South	
HIST 3398	Texas And The Southwest	
European History - select one of the following: [2]		3
HIST 3328	Mod France: From Rev To Presnt	
HIST 3334	Renaissance Europe	
HIST 3335	Germany & Cen Europe Sn 1815	
HIST 3337	The Bible and Reform in Europe	

HIST 3338	Eco His: Ind Rev To Present	
HIST 3339	French Revol & Napoleonic Wars	
HIST 3363	Britain To 1714	
HIST 3364	Modern Britain 1714-Present	
HIST 3365	Russian History	
HIST 3366	Modern European Military Hist	
HIST 3367	Eur-Age Absoltsm/Rev:1648-1815	
HIST 3368	European History 1815 1914	
HIST 3370	Ancient History	
HIST 3371	Medieval History	
HIST 3381	British Empire & Commonwealth	
World History - select one of the following: [2]		3
HIST 3329	Contemporary Latin America	
HIST 3330	Modern China And Japan	
HIST 3332	Modern Asian History	
HIST 3333	Religion In World History	
HIST 3336	Middle East Since 1700	
HIST 3350	Early Christianities	
HIST 3358	Silk Roads to Atlantic World	
HIST 3362	The Middle East, 500 - 1700	
HIST 3389	Africa - Past & Present	
HIST 3391	Colonial Latin America	
HIST 3397	Modern Mexico	
Additional Advanced Hours in History (one course at 4000 level if not yet taken from above categories in Major)		15
Minor		
Minor (required)		18
Electives		13
Total Hours		120

[1] Satisfies Core Curriculum requirement for Component Area VI (U.S. History) and major. .

[2] Pre-Modern History Requirement: Among the 3000-level courses a student takes in American, European, and World History one course must have a primary focus on content in pre-modern history (content dating to before 1600); this can overlap with other requirements. The following are courses that fulfill the pre-modern history requirement: HIST 3334, HIST 3337, HIST 3350, HIST 3358, HIST 3362, HIST 3363, HIST 3370 HIST 3371, HIST 3376, HIST 3391, HIST 3392

First Year

Fall	Hours	Spring	Hours
Component Area II	3	Component Area VIII	3
Component Area V	3	Component Area IX	1
ENGL 1301[1]	3	ENGL 1302[1]	3
Foreign Language[2]	4	Foreign Language[2]	4
HIST 1301[3]	3	HIST 1302[3]	3
	16		14

Second Year

Fall	Hours	Spring	Hours
Component Area III	4	Component Area III	4
Foreign Language[2]	3	Foreign Language[2]	3
HIST 2311	3	HIST Advanded Elective	3
PHIL 3366 (DANC, THEA, or MUSI)	3	HIST 2312	3
POLS 2305[4]	3	POLS 2306[4]	3
	16		16

Third Year

Fall	Hours	Spring	Hours
Component Area IV	3	Elective	3
Component Area IX	3	HIST Advanced Elective	3
HIST: American History course[5,8]	3	HIST: European History course[6,8]	3
HIST Advanced Elective	3	Minor	6
Minor	3		
	15		15

Fourth Year

Fall	Hours	Spring	Hours
Advanced Elective	3	Elective	4
Elective	6	HIST Advanced Elective	3
HIST: World History Course[7, 8]	3	Minor	6
Minor	3		
	15		13

Total Hours: 120

1 Satisfies Core Curriculum requirement for Component Area I (Communication).

2 Four courses in one language required.

3 Satisfies both the Core Curriculum requirement for Component Area VI (U.S. History) and the major.

4 Satisfies both the Core Curriculum requirement for Component Area VII (Political Science/Government) and the major.

5 American History select one of the following: HIST 3322, HIST 3323, HIST 3325, HIST 3326 HIST 3338 HIST 3340 HIST 3355 HIST 3361, HIST 3376, HIST 3377, HIST 3378, HIST 3379, HIST 3380, HIST 3382, HIST 3383, HIST 3385, HIST 3386, HIST 3392 HIST 3393, HIST 3394, HIST 3395, HIST 3396, HIST 3398.

6 European History select one of the following: HIST 3334, HIST 3335, HIST 3337, HIST 3338, HIST 3339, HIST 3363, HIST 3364, HIST 3365, HIST 3366 HIST 3367, HIST 3368, HIST 3370, HIST 3371, HIST 3381, or HIST 3328.

7 World History select one of the following: HIST 3332, HIST 3336, HIST 3350, HIST 3358, HIST 3362, HIST 3389, HIST 3391, HIST 3397, HIST 3330 or HIST 3329

8 Pre-Modern History Requirement: Among the 3000-level courses a student takes in American, European, and World History one course must have a primary focus on content in pre-modern history (content dating to before 1600); this can overlap with other requirements. The following are courses that fulfill the pre-modern history requirement: HIST 3334, HIST 3337, HIST 3350, HIST 3358HIST 3358HIST 3358HIST 3358HIST 3358HIST 3358, HIST 3362HIST 3362HIST 3362HIST 3362HIST 3362HIST 3362, HIST 3363HIST 3363HIST 3363HIST 3363HIST 3363HIST 3363, HIST 3370HIST 3370HIST 3370HIST 3370HIST 3370HIST 3370, HIST 3371, HIST 3376HIST 3376HIST 3376HIST 3376HIST 3376HIST 3376, HIST 3391, HIST 3392HIST 3392HIST 3392HIST 3392HIST 3392HIST 3392.

Bachelor of Science, Major in History

The Bachelor of Science degree requires 30 semester credit hours in History, including: HIST 1301, HIST 1302, HIST 2311 HIST 2312, three Advanced hours in American history, three Advanced hours in European history, and three advanced hours in World history. All History majors are required to complete at least one 4000-level history course. At least 12 Advanced hours must be taken in residence.

Code	Title	Hours
Bachelor of Science, Major in History		
Core Curriculum		
Component Area I (Communication)		6
Component Area II (Mathematics)		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4
Degree Specific Requirements		

Header		
BIOL 1411	General Botany	4
BIOL 1413	General Zoology	4
BIOL 2440	Introductory Cell Biology	4
CHEM 1411	General Chemistry I	4
CHEM 1412	General Chemistry II	4
CHEM 2323 & CHEM 2123	Organic Chemistry I: Lecture and Organic Chemistry I Lab	4
CHEM 2325 & CHEM 2125	Organic Chemistry II: Lecture and Organic Chemistry II: Lab	4
CHEM 3438	Biochemistry I (Junior)	4
PHYS 1301 & PHYS 1101	General Phy-Mechanics & Heat and General Physics Laboratory I	4
PHYS 1302 & PHYS 1102	Gen Phy-Snd,Lght, Elec, & Mag and General Physics Laboratory II	4
Select two of the following:		8
BIOL 3420	Comparative Vertebrate Anatomy	
BIOL 3440	General Physiology	
BIOL 3450	Introductory Genetics	
BIOL 3470	General Microbiology	
BIOL 3490	Histology	
Major		
HIST 1301	United States History To 1876 [1]	3
HIST 1302	United States History Sn 1876 [1]	3
HIST 2311	World History to 1500	3
HIST 2312	World History since 1500	3
American History - select one of the following: [2]		3
HIST 3322	Black Civil Rights Movement	
HIST 3323	History Of American Slavery	
HIST 3325	Era Of Amer Revoltn 1763-1789	
HIST 3326	The History Of The West	
HIST 3338	Eco His: Ind Rev To Present	
HIST 3340	Mexican Americans Since 1848	
HIST 3355	Urban and Suburban History	
HIST 3361	The U. S. And The Vietnam War	
HIST 3376	Early America To 1783	
HIST 3377	America In Midpassge 1783-1877	
HIST 3378	Emergence Mod Amerca 1877-1945	
HIST 3379	Recent America, 1945 To Presnt	
HIST 3380	The American Civil War	
HIST 3382	Immigration Ethnicity Amer His	
HIST 3383	American Women's History	
HIST 3385	American Diplomatic History	
HIST 3386	Military & War In America	
HIST 3392	American Indian History	
HIST 3393	African-American History	
HIST 3394	America in the 1960s	
HIST 3395	American Environmental History	
HIST 3396	The American South	
HIST 3398	Texas And The Southwest	
European History - select one of the following: [2]		3
HIST 3328	Mod France: From Rev To Presnt	
HIST 3334	Renaissance Europe	

HIST 3335	Germany & Cen Europe Sn 1815	
HIST 3337	The Bible and Reform in Europe	
HIST 3338	Eco His: Ind Rev To Present	
HIST 3339	French Revol & Napoleonic Wars	
HIST 3363	Britain To 1714	
HIST 3364	Modern Britain 1714-Present	
HIST 3365	Russian History	
HIST 3366	Modern European Military Hist	
HIST 3367	Eur-Age Absoltsm/Rev:1648-1815	
HIST 3368	European History 1815 1914	
HIST 3370	Ancient History	
HIST 3371	Medieval History	
HIST 3381	British Empire & Commonwealth	
World History - select one of the following: [2]		3
HIST 3329	Contemporary Latin America	
HIST 3330	Modern China And Japan	
HIST 3332	Modern Asian History	
HIST 3333	Religion In World History	
HIST 3336	Middle East Since 1700	
HIST 3350	Early Christianities	
HIST 3358	Silk Roads to Atlantic World	
HIST 3362	The Middle East, 500 - 1700	
HIST 3389	Africa - Past & Present	
HIST 3391	Colonial Latin America	
HIST 3397	Modern Mexico	
Additional Advanced Hours in History (one course at the 4000 level if not already taken from above categories in History Major)		9
Minor (not required)		
Electives (Advanced General)		6
Total Hours		120

[1] Satisfies both the Core Curriculum requirement for Component Area VI (U.S. History) and the major.

[2] Pre-Modern History Requirement: Among the 3000-level courses a student takes in American, European, and World History one course must have a primary focus in content in pre-modern history (content dating to before 1600); this can overlap with other requirements. The following are courses that fulfill the pre-modern history requirement: HIST 3334 HIST 3337 HIST 3350HIST 3358, HIST 3362, HIST 3363 HIST 3370, HIST 3371HIST 3376HIST 3391, HIST 3392.

Note

Students should use elective and/or minor hours to satisfy the 42 advanced hour requirement. All students must complete at least 120 hours to graduate.

First Year

Fall	Hours	Spring	Hours
BIOL 1411	4	BIOL 1413	4
Component Area II	3	Component Area VIII	3
Component Area V	3	Component Area IX	1
ENGL 1301[1]	3	ENGL 1302[1]	3
HIST 1301[2]	3	HIST 1302[2]	3
	16		14

Second Year

Fall	Hours	Spring	Hours
BIOL 2440	4	CHEM 1412	4
CHEM 1411	4	Component Area III	4
Component Area III	4	HIST Advanced Elective	3
HIST 2311	3	HIST 2312	3

POLS 2305[3]	3	POLS 2306[3]	3
	18		17

Third Year

Fall	Hours	Spring	Hours
CHEM 2323 & CHEM 2123	4	CHEM 2325 & CHEM 2125	4
Component Area IX	3	HIST European History course[5, 7]	3
HIST American History course[4, 7]	3	HIST 4000-level Elective	3
PHYS 1301 & PHYS 1101	4	PHYS 1302 & PHYS 1102	4
	14		14

Fourth Year

Fall	Hours	Spring	Hours
BIOL 3420, 3440, 3450, 3470, or 3490	4	BIOL 3420, 3420, 3440, 3450, 3470, or 3490	4
HIST Advanced Elective	3	CHEM 3438	4
HIST World History course[6,7]	3	HIST 3329	3
Advanced Elective	3	HIST 4000-level course (if not yet taken)	3
	13		14

Total Hours: 120

1 Satisfies Core Curriculum requirement for Component Area I (Communication).

2 Satisfies both the Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture) and the major.

3 Satisfies both the Core Curriculum requirement for Component Area VII (Political Science/Government) and the major.

4 American History select one of the following: HIST 3338, HIST 3340, HIST 3355, , HIST 3361, HIST 3376, HIST 3377, HIST 3378, HIST 3379, HIST 3380, HIST 3382, HIST 3383, HIST 3385, HIST 3386, HIST 3392 HIST 3393, HIST 3394, or HIST 3395.

5 European History select one of the following: HIST 3334, HIST 3335 HIST 3337,HIST 3338 HIST 3339, HIST 3363, HIST 3364, HIST 3365, HIST 3366 HIST 3367, HIST 3368, HIST 3370 HIST 3371 HIST 3381, or HIST 4380.

6 World History select one of the following:HIST 3330, HIST 3332, HIST 3336, HIST 3350, HIST 3358, HIST 3362, HIST 3389, HIST 3391, HIST 3397, or HIST 4395

7 Pre-Modern History Requirement: Among the 3000-level courses a student takes in American, European, and World History one course must have a primary focus on content in pre-modern history (content dating to before 1600); this can overlap with other requirements. The following are courses that fulfill the pre-modern history requirement: HIST 3334, HIST 3337HIST 3337HIST 3337HIST 3337, HIST 3350HIST 3350HIST 3350HIST 3350, HIST 3358HIST 3358HIST 3358HIST 3358, HIST 3362HIST 3362HIST 3362HIST 3362, HIST 3363HIST 3363HIST 3363HIST 3363, HIST 3370, HIST 3371, HIST 3376 HIST 3391, HIST 3392HIST 3392HIST 3392HIST 3392.

Note:
Students should use elective and/or minor hours to satisfy the 42 advanced hour requirement. All students must complete at least 120 hours to graduate.

Minor in History (with Teacher Certification)

A history minor with teacher certification requires 27 semester credit hours, including:

Code	Title	Hours
Minor in History (with Teacher Certification)		
HIST 1301	United States History To 1876 [1]	3
HIST 1302	United States History Sn 1876 [1]	3
HIST 2311	World History to 1500 [2]	3
HIST 2312	World History since 1500 [2]	3
HIST 3398	Texas And The Southwest	3
American History - select one of the following: [3]		3
HIST 3322	Black Civil Rights Movement	
HIST 3323	History Of American Slavery	
HIST 3325	Era Of Amer Revoltn 1763-1789	
HIST 3326	The History Of The West	
HIST 3338	Eco His: Ind Rev To Present	

HIST 3340	Mexican Americans Since 1848	
HIST 3355	Urban and Suburban History	
HIST 3361	The U. S. And The Vietnam War	
HIST 3376	Early America To 1783	
HIST 3377	America In Midpassge 1783-1877	
HIST 3378	Emergence Mod Amerca 1877-1945	
HIST 3379	Recent America, 1945 To Presnt	
HIST 3380	The American Civil War	
HIST 3382	Immigration Ethnicity Amer His	
HIST 3383	American Women's History	
HIST 3385	American Diplomatic History	
HIST 3386	Military & War In America	
HIST 3392	American Indian History	
HIST 3393	African-American History	
HIST 3394	America in the 1960s	
HIST 3395	American Environmental History	
HIST 3396	The American South	
European History - select one of the following: [3]		3
HIST 3328	Mod France: From Rev To Presnt	
HIST 3334	Renaissance Europe	
HIST 3335	Germany & Cen Europe Sn 1815	
HIST 3337	The Bible and Reform in Europe	
HIST 3338	Eco His: Ind Rev To Present	
HIST 3339	French Revol & Napoleonic Wars	
HIST 3363	Britain To 1714	
HIST 3364	Modern Britain 1714-Present	
HIST 3365	Russian History	
HIST 3366	Modern European Military Hist	
HIST 3367	Eur-Age Absoltsm/Rev:1648-1815	
HIST 3368	European History 1815 1914	
HIST 3370	Ancient History	
HIST 3371	Medieval History	
HIST 3381	British Empire & Commonwealth	
World History - select one of the following [3]		3
HIST 3329	Contemporary Latin America	
HIST 3330	Modern China And Japan	
HIST 3332	Modern Asian History	
HIST 3333	Religion In World History	
HIST 3336	Middle East Since 1700	
HIST 3350	Early Christianities	
HIST 3358	Silk Roads to Atlantic World	
HIST 3362	The Middle East, 500 - 1700	
HIST 3389	Africa - Past & Present	
HIST 3397	Modern Mexico	
HIST 3391	Colonial Latin America	
Additional Advanced Hours in History		9
Total Hours		27

1 Satisfies both the Core Curriculum requirement for Component Area VI (U.S. History) and the minor requirement.

2 Satisfies both the Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture) & IX (Component Area Option) and the minor requirement.

[3] Pre-Modern History Requirement: Among the 3000-level courses a student takes in American, European, and World History one course must have a primary focus on content in pre-modern history (content dating to before 1600); this can overlap with other requirements. The following are courses that fulfill the pre-modern history requirement: HIST 3334, HIST 3337 HIST 3350, HIST 3358, HIST 3362 HIST 3363, HIST 3370, HIST 3371, HIST 3376, HIST 3391, HIST 3392

Note:
For history courses, no grade below C is accepted.

Minor in History (without Teacher Certification)

A minor in history requires 21 semester credit hours, including:

Code	Title	Hours
Minor in History (without Teacher Certification)		
HIST 1301	United States History To 1876 [1]	3
HIST 1302	United States History Sn 1876 [1]	3
HIST 2311	World History to 1500 [2]	3
HIST 2312	World History since 1500 [2]	3
American History - select one of the following: [3]		3
HIST 3322	Black Civil Rights Movement	
HIST 3323	History Of American Slavery	
HIST 3325	Era Of Amer Revoltn 1763-1789	
HIST 3326	The History Of The West	
HIST 3338	Eco His: Ind Rev To Present	
HIST 3340	Mexican Americans Since 1848	
HIST 3355	Urban and Suburban History	
HIST 3361	The U. S. And The Vietnam War	
HIST 3376	Early America To 1783	
HIST 3377	America In Midpassge 1783-1877	
HIST 3378	Emergence Mod Amerca 1877-1945	
HIST 3379	Recent America, 1945 To Presnt	
HIST 3380	The American Civil War	
HIST 3382	Immigration Ethnicity Amer His	
HIST 3383	American Women's History	
HIST 3385	American Diplomatic History	
HIST 3386	Military & War In America	
HIST 3392	American Indian History	
HIST 3393	African-American History	
HIST 3394	America in the 1960s	
HIST 3395	American Environmental History	
HIST 3396	The American South	
HIST 3398	Texas And The Southwest	
European History - select one of the following: [3]		3
HIST 3328	Mod France: From Rev To Presnt	
HIST 3334	Renaissance Europe	
HIST 3335	Germany & Cen Europe Sn 1815	
HIST 3337	The Bible and Reform in Europe	
HIST 3338	Eco His: Ind Rev To Present	
HIST 3339	French Revol & Napoleonic Wars	
HIST 3363	Britain To 1714	
HIST 3364	Modern Britain 1714-Present	
HIST 3365	Russian History	
HIST 3366	Modern European Military Hist	
HIST 3367	Eur-Age Absoltsm/Rev:1648-1815	

HIST 3368	European History 1815 1914	
HIST 3370	Ancient History	
HIST 3371	Medieval History	
HIST 3381	British Empire & Commonwealth	
World History - select one of the following: [3]		3
HIST 3329	Contemporary Latin America	
HIST 3330	Modern China And Japan	
HIST 3332	Modern Asian History	
HIST 3333	Religion In World History	
HIST 3336	Middle East Since 1700	
HIST 3350	Early Christianities	
HIST 3358	Silk Roads to Atlantic World	
HIST 3362	The Middle East, 500 - 1700	
HIST 3389	Africa - Past & Present	
HIST 3391	Colonial Latin America	
HIST 3397	Modern Mexico	
Additional Advanced Hours in History		6
Total Hours		21

1 Satisfies both the Core Curriculum requirement for Component Area VI (U.S. History) and the minor requirement.

2 Satisfies both the Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture) & IX (Component Area Option) and the minor requirement.

3 Pre-Modern History Requirement: Among the 3000-level courses a student takes in American, European, and World History one course must have a primary focus on content in pre-modern history (content dating to before 1600); this can overlap with other requirements. The following are courses that fulfill the pre-modern history requirement: HIST 3334, HIST 3337, HIST 3350, HIST 3358, HIST 3362, HIST 3363, HIST 3370, HIST 3371, HIST 3376, HIST 3391, HIST 3392

For history courses, no grade below C is accepted.

Department of Political Science

Chair: Tamara Waggener (POL_TAW@shsu.edu)

Department Contact Information: polsci@shsu.edu (936) 294-1457

On Campus: Building CHSS, Rm. 490

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Website: Department of Political Science (http://www.shsu.edu/academics/political-science)

Political Science is an exciting discipline, mixing the drama of politics with the development of analytical and communication skills. Students examine:

- elections and campaigns
- the causes and impact of war
- the creation, implementation, and adjudication of law
- the interplay among government, business, and nonprofit sectors

The discipline prepares students to compete in a changing global economy, helping them land jobs in the fields of law, government, nonprofits, and business.

Mission

The mission of the Political Science Department is to provide students with theoretical knowledge and understanding of core concepts and principles in Political Science while helping students develop practical experience and skills that are necessary for the marketplace. Within that context, the department focuses on programs and courses that emphasize civic engagement, public service, and citizenship and ethics at the local, state, national, and global levels.

To carry out this mission, the Political Science faculty endeavor to:

- Develop students' analytical, writing, speaking, interpersonal, and professional skills;
- Prepare students for professional careers in the 21st century;
- Build students' citizenship skills, knowledge, and activism;
- Help students understand human beings in their diversity and appreciate democratic values;
- Expand the frontiers of knowledge in Political Science and public and nonprofit administration; and
- Contribute to a better community within the university and the society.

Academic Programs

The department offers courses in five areas:

- American government and politics
- international relations and foreign policy
- comparative politics
- public administration and policy
- political theory and methodology

Highlights

Political Science faculty members bring unique backgrounds to the classroom. They have strong academic and real-world credentials, with doctorates from top schools and practical experience in government and politics.

Suggested Minors

The Legal Studies minor is offered through the Political Science department and is designed to help prepare students for law school and the legal profession.

Beyond considering Legal Studies as a minor, students should select a minor that suits their interests and career needs. Common minors include:

- Agriculture
- American Studies
- Communication Studies
- Criminal Justice

- Economics
- English
- Environmental Science
- General Business
- Geography
- History
- Legal Studies
- Mass Communication (Journalism)
- Middle Eastern Studies
- Philosophy
- Psychology
- Sociology
- Foreign Language
- Statistics

Career Opportunities

The Political Science curriculum lays the foundation for numerous exciting careers. By developing students' critical thinking, writing, and awareness of public problems, students graduate well prepared for jobs in business, government, nonprofits, and teaching. Recent graduates currently work as lawyers, judges, elected officials, lobbyists, nonprofit managers, business leaders, teachers, professors, talk-show hosts, military officers, and in many other fields.

Political Science also helps prepare students for graduate school or law school. Recent graduates have matriculated at top graduate schools across the country in political science, campaign management, and public administration, and SHSU is one of the top seven percent of national universities in producing law-school students.

- Bachelor of Arts, Major in Political Science
- Bachelor of Science, Major in Political Science
- Minor in Political Science
- Minor in Legal Studies
- Minor in Applied Ethics and Critical Thinking

Student Organizations and Activities

The Political Science department promotes student activities on campus and in the community. Our students hold positions in student government, campus social service, and political organizations. Our students volunteer with local organizations such as Boys and Girls Club, the SAAFE House, the Wounded Warrior Project, and Habitat for Humanity. The department recognizes student achievement with membership in Pi Sigma Alpha, the national Political Science honor society.

Internships

Advanced students are encouraged to gain professional experience, make contacts, and explore career options through the department's successful internship program. Recently, students have interned in city and county governments, the state legislature, the U.S. Congress, the U.S. Department of State, nonprofit groups, both major political parties, and law offices.

Scholarships

In addition to the University's student financial aid programs, the Department of Political Science also offers scholarships to majors and minors. For information, contact the department secretary. Information on University scholarships is available on the Office of Academic Scholarships website at http://www.shsu.edu/~fao_www/scholarships/index.html or by phone at (936) 294-1672.

Chair: **Tamara A. Waggener**

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Bachelor of Arts, Major in Political Science

Degree Requirements

Code	Title	Hours
Political Science		
Core Courses:		
POLS 2305 & POLS 2306	American Government and Texas Government	6
Research Methodology:		
POLS 3374 & POLS 3379	Quantitative Methd For Pol Sci and Research & Writing In Pol Sci	6
Political Theory		
Select one of the following:		3
POLS 3373	Ideologies and Democracy	
POLS 3377	Survey of Political Theory	
POLS 3378	American Political Thought	
International Relations/Comparative Politics		
Select one of the following:		3
POLS 3361	Cent & Eastern European Politi	
POLS 3365	Intro to Comparative Politics	
POLS 3368	Asian Politics	
POLS 3369	Religion And Politics	
POLS 3370	Western European Politics	
POLS 3375	Politics Of The Middle East	
POLS 3380	Intro International Relations	
POLS 3381	American Foreign Policy	
POLS 3385	International Law & Org	
POLS 3386	International Political Econ	
POLS 3387	Latin American Politics	
POLS 4383	International Human Rights	
POLS 4384	Conflict Studies	
POLS 4385	Political Violence & Terrorism	
American Politics		
Select one of the following:		3
POLS 3334	Judicial Systems	
POLS 3336	The Presidency And Executives	
POLS 3337	The Congress And Legislatures	
POLS 3360	Political Parties-Interest Grp	
POLS 3364	Politics And The Media	
POLS 4334	Const Law I:Civ Rights& Librts	
POLS 4335	Const Law II:Gov Pwr/St-Fed Rl	
POLS 4372	Political Attitudes & Behavior	
Electives in Political Science		9
Degree Specific Requirements		
Fine Arts (DANC, ARTS, MUSI, THEA, or PHIL 3366)		3
PHIL Course		3
Single Foreign Language		14
Major Foundation		
Select one of the following:		3
COMS 1361	Public Speaking	
COMS 2382	Comm. for Bus. & Professions	
COMS 3382	Persuasion	

COMS 3383	Small Group Communication	
THEA 1364	Beginning Acting	
THEA 2336	Voice I for the Actor	
Select one of the following:		
BUAD 1305	Electronic Communications Tech	3
or CSTE 1330	Introduction To Computers	
Total Hours		56

Additional Requirements:

- Minimum of 12 hours of Political Science must be taken in residence.
- No grade below a C in a Political Science course will count toward the major.
- Students must have 42 advanced hours. At least 15 hours of POLS must be advanced.

Code	Title	Hours
Bachelor of Arts, Major in Political Science		
Core Curriculum		
Component Area I (Communication)		6
Component Area II (Mathematics)		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4
Degree Specific Requirements		
Fine Arts (DANC, ARTS, MUSI, THEA, or PHIL 3366)		3
Foreign Language first two courses		8
Foreign Language second two courses		6
PHIL		3
Major Foundation		
Communication/Theatre: Select one of the following:		3
COMS 1361	Public Speaking	
COMS 2382	Comm. for Bus. & Professions	
COMS 3382	Persuasion	
COMS 3383	Small Group Communication	
THEA 1364	Beginning Acting	
THEA 2336	Voice I for the Actor	
Computer Science: Select one of the following:		3
BUAD 1305	Electronic Communications Tech	
CSTE 1330	Introduction To Computers	
Major Core		
POLS 3374 & POLS 3379	Quantitative Methd For Pol Sci and Research & Writing In Pol Sci	6
Political Theory: Select one of the following:		3
POLS 3373	Ideologies and Democracy	
POLS 3377	Survey of Political Theory	
POLS 3378	American Political Thought	
International Relations/Comparative Politics: Select one of the following:		3
POLS 3361	Cent & Eastern European Politi	
POLS 3365	Intro to Comparative Politics	
POLS 3368	Asian Politics	
POLS 3369	Religion And Politics	

POLS 3370	Western European Politics	
POLS 3375	Politics Of The Middle East	
POLS 3380	Intro International Relations	
POLS 3381	American Foreign Policy	
POLS 3385	International Law & Org	
POLS 3386	International Political Econ	
POLS 3387	Latin American Politics	
POLS 4383	International Human Rights	
POLS 4384	Conflict Studies	
POLS 4385	Political Violence & Terrorism	
American Politics: Select one of the following:		3
POLS 3334	Judicial Systems	
POLS 3336	The Presidency And Executives	
POLS 3337	The Congress And Legislatures	
POLS 3360	Political Parties-Interest Grp	
POLS 3364	Politics And The Media	
POLS 4334	Const Law I:Civ Rights& Librts	
POLS 4335	Const Law II:Gov Pwr/St-Fed Rl	
POLS 4372	Political Attitudes & Behavior	
Major		
Political Science electives		9
Any Approved Minor		18
Electives		10
Total Hours		120

First Year

Fall	Hours	Spring	Hours
Component Area II	3	Component Area V	3
Component Area VII	3	Component Area VII	3
ENGL 1301[1]	3	ENGL 1302[1]	3
Foreign Language[2]	4	Foreign Language [2]	4
HIST 1301[3]	3	HIST 1302[3]	3
	16		16

Second Year

Fall	Hours	Spring	Hours
Component Area III	4	Component Area III	4
Component Area IV	3	Component Area IX	3
Component Area VIII	3	Component Area IX	1
Foreign Language[2]	3	Foreign Language[2]	3
POLS (American Politics)[4]	3	POLS (International Relations/Comparative Politics)[5]	3
	16		14

Third Year

Fall	Hours	Spring	Hours
Major Foundation: COMS or THEA[6]	3	Major Foundation: BUAD or CSTE[7]	3
Minor	3	Minor	3
POLS Elective	3	Minor	3
POLS 3377, 3378, or 3373	3	POLS Elective	3
POLS 3379	3	POLS 3374	3
	15		15

Fourth Year

Fall	Hours	Spring	Hours
Fine Arts (DANC, ARTS, MUSI, THEA, or PHIL 3366)	3	ADV Elective	3

Minor	3 ADV Elective	3
Minor	3 Elective	3
PHIL	3 Elective	1
POLS elective	3 Minor	3
	15	13

Total Hours: 120

1 Satisfies Core Curriculum requirement for Component Area I (Communications).

2 Satisfies Core Curriculum requirement for Component Area VI (U.S. History).

3 Four foreign language courses in one language required.

4 American Politics select one from the following: POLS 3334, POLS 3336, POLS 3337, POLS 3360 POLS 3364 POLS 4334, POLS 4335, POLS 4372.

5 International Relations/Comparative Politics select one from the following: POLS 3361, POLS 3365, POLS 3368,POLS 3369, POLS 3370 POLS 3375, POLS 3380 POLS 3381, POLS 3385 POLS 3386, POLS 3387

6 Major foundation select one of the following: COMS 1361, COMS 2382 COMS 3382 COMS 3383, THEA 1364 THEA 2336.

Bachelor of Science, Major in Political Science

Degree Requirements

Code	Title	Hours
Political Science		
Core Courses:		
POLS 2305 & POLS 2306	American Government and Texas Government	6
Research Methodology:		
POLS 3374 & POLS 3379	Quantitative Methd For Pol Sci and Research & Writing In Pol Sci	6
Political Theory		3
Select one of the following:		
POLS 3373	Ideologies and Democracy	
POLS 3377	Survey of Political Theory	
POLS 3378	American Political Thought	
International Relations/Comparative Politics		3
Select one of the following:		
POLS 3361	Cent & Eastern European Politi	
POLS 3365	Intro to Comparative Politics	
POLS 3368	Asian Politics	
POLS 3369	Religion And Politics	
POLS 3370	Western European Politics	
POLS 3375	Politics Of The Middle East	
POLS 3380	Intro International Relations	
POLS 3381	American Foreign Policy	
POLS 3385	International Law & Org	
POLS 3386	International Political Econ	
POLS 3387	Latin American Politics	
POLS 4383	International Human Rights	
POLS 4384	Conflict Studies	
POLS 4385	Political Violence & Terrorism	
American Politics		3
Select one of the following:		
POLS 3334	Judicial Systems	
POLS 3336	The Presidency And Executives	
POLS 3337	The Congress And Legislatures	

POLS 3360	Political Parties-Interest Grp	
POLS 3364	Politics And The Media	
POLS 4334	Const Law I:Civ Rights& Librts	
POLS 4335	Const Law II:Gov Pwr/St-Fed Rl	
POLS 4372	Political Attitudes & Behavior	
Electives in Political Science		15
Degree Specific Requirements		
Natural (lab) sciences from BIOL, CHEM,GEOG, GEOL, or PHYS beyond the 8 hour core requirement.		8
Select one of the following Math/Philosophy courses beyond the core:		3
MATH 1316	Plane Trigonometry	
MATH 1332	College Mathematics	
MATH 1369	Elementary Statistics	
MATH 1314	Pre Calculus Algebra	
MATH 1384	Intro To Foundations Of Math I	
MATH 1324	Mth For Mngl Decision Making	
PHIL 2303	Critical Thinking	
STAT 3379	Statistical Methds In Practice	
Additional Math or Lab Science		3-4
Major Foundation		3
Select one of the following:		
COMS 1361	Public Speaking	
COMS 2382	Comm. for Bus. & Professions	
COMS 3382	Persuasion	
COMS 3383	Small Group Communication	
THEA 1364	Beginning Acting	
THEA 2336	Voice I for the Actor (Select one of the following:)	
Select one of the following:		
BUAD 1305	Electronic Communications Tech	3
or CSTE 1330	Introduction To Computers	
Total Hours		56-57

Additional Requirements:

- Minimum of 12 hours of Political Science must be taken in residence.
- No grade below C in a Political Science course will count toward the major.
- Students must have 42 hours of advanced classes. At least 15 hours of POLS must be advanced.

Code	Title	Hours
Bachelor of Science, Major in Political Science		
Core Curriculum		
Component Area I (Communication)		6
Component Area II (Mathematics)		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4
Degree Specific Requirements		
Natural Sciences		8
Math or Natural Science		3-4
PHIL 2303	Critical Thinking (Or MATH)	3

Major Foundation		
Communication/Theatre		3
Computer Science		3
Major Core		
POLS 3374 & POLS 3379	Quantitative Methd For Pol Sci and Research & Writing In Pol Sci	6
Political Theory		
Select one of the following:		3
POLS 3373	Ideologies and Democracy	
POLS 3377	Survey of Political Theory	
POLS 3378	American Political Thought	
International Relations/Comparative Politics		
Select one of the following:		3
POLS 3361	Cent & Eastern European Politi	
POLS 3365	Intro to Comparative Politics	
POLS 3368	Asian Politics	
POLS 3369	Religion And Politics	
POLS 3370	Western European Politics	
POLS 3375	Politics Of The Middle East	
POLS 3380	Intro International Relations	
POLS 3381	American Foreign Policy	
POLS 3386	International Political Econ	
POLS 3387	Latin American Politics	
POLS 4383	International Human Rights	
POLS 4384	Conflict Studies	
POLS 4385	Political Violence & Terrorism	
American Politics		
Select one of the following:		3
POLS 3334	Judicial Systems	
POLS 3336	The Presidency And Executives	
POLS 3337	The Congress And Legislatures	
POLS 3360	Political Parties-Interest Grp	
POLS 3364	Politics And The Media	
POLS 4334	Const Law I:Civ Rights& Librts	
POLS 4335	Const Law II:Gov Pwr/St-Fed Rl	
POLS 4372	Political Attitudes & Behavior	
Major		
Political Science electives		15
Any Approved Minor		18
Electives		9
Total Hours		120

[1] May not satisfy both the theory and comparative/international relations requirement at the same time.

First Year

Fall	Hours	Spring	Hours
Component Area II	3	Component Area III	4
Component Area III	4	Component Area V	3
Component Area VII	3	Component Area VII	3
ENGL 1301[1]	3	ENGL 1302[1]	3
HIST 1301[2]	3	HIST 1302[2]	3
	16		16

Second Year

Fall	Hours	Spring	Hours
Component Area IV	3	Component Area IX	3
Component Area VIII	3	Component Area IX	1
POLS (American Politics)	3	Math or Natural Science	4
Natural Science	4	Natural Sciences	4
Math or PHIL 2303	3	POLS 3377, 3378, or 3373	3
	16		15

Third Year

Fall	Hours	Spring	Hours
Elective	3	Major Foundation: Computer Sci	3
Major Foundation: COMS or THEA	3	Minor	3
Minor	3	Minor	3
POLS (International Relations/ Comparative Politics)[4]	3	POLS Elective	3
POLS 3379	3	POLS 3374	3
	15		15

Fourth Year

Fall	Hours	Spring	Hours
Elective	3	ADV Elective	3
Minor	3	Minor	3
Minor	3	POLS Elective	3
POLS Elective	3	POLS Elective	3
POLS Elective	3		
	15		12

Total Hours: 120

1 Satisfies the Core Curriculum requirement for Component Area I (Communications).

2 Satisfies the Core Curriculum requirement for Component Area VI (U.S. History).

3 American Politics select one from the following: POLS 3334, POLS 3336, POLS 3337, POLS 3360, POLS 3364, POLS 4334, POLS 4335, POLS 4372.

4 International Relations/Comparative Polities select one from the following: POLS 3361, POLS 3365, POLS 3368, POLS 3369, POLS 3370, POLS 3375, POLS 3380, POLS 3381, POLS 3385, POLS 3386, POLS 3387.

Minor in Legal Studies

Minors in Legal Studies must complete 18 semester credit hours of required courses and electives. In keeping with the intent of a minor to broaden the student's background knowledge, none of the courses taken by Legal Studies minors may be used to satisfy the requirement of any other major or minor.

Code	Title	Hours
Minor in Legal Studies		
Required Courses		
POLS 4334	Const Law I:Civ Rights& Librts	3
POLS 4335	Const Law II:Gov Pwr/St-Fed Rl	3
Electives		
Select one of the following Law-Related Skills courses:		3
PHIL 2303	Critical Thinking (must be writing enhanced)	
PHIL 2352	Introduction to Contemporary Logic	
ENGL 3377	Argument And Persuasion (must be writing enhanced)	
Select three of the following Substantive Legal Content courses, one from each of three academic disciplines: [1]		9
Criminal Justice:		
CRIJ 3361	Comparative Crimnl Jstc System	
CRIJ 3362	White Collar Crime	
CRIJ 4330	Law And Society	

CRIJ 4332	Legal Aspects Of Corrections
CRIJ 4394	Constitutnl Issues In Law Enfr
General Business:	
BUAD 3355	Business Law
BUAD 3360	Human Resources Mgt Law
BUAD 3365	Real Estate Law
BUAD 4340	International Business Law
History:	
HIST 3322	Black Civil Rights Movement
Mass Communications:	
MCOM 4371	Mass Media Law And Ethics
Political Science:	
POLS 3334	Judicial Systems
POLS 3337	The Congress And Legislatures
POLS 3338	Victims Rights Politics & Plcy
POLS 3378	American Political Thought
POLS 3385	International Law & Org
POLS 4383	International Human Rights
Psychology:	
PSYC 3383	Psychology And The Law
Total Hours	18

[1] Students may only take one course from a single department.

Minor in Political Science

Minors in Political Science must complete 18 hours in Political Science, including:

Code	Title	Hours
Minor in Political Science		
POLS 2305	American Government	3
POLS 2306	Texas Government	3
POLS Electives (Advanced) [1]		12
Total Hours		18

[1] Six hours of POLS advanced electives must be in residence.

Note:
No grade below C in Political Science will count toward this minor.

Department of Psychology & Philosophy

Chair: J (wilson@shsu.edu)ames Crosby, Interim (936) 294-3052

Website: Department of Psychology and Philosophy (http://www.shsu.edu/academics/psychology-and-philosophy)

Mission

The Department of Psychology and Philosophy supports the Mission Statement of the University and that of the College of Humanities and Social Sciences. The Department is committed to providing a quality educational environment conducive to scholarship and the acquisition of knowledge and applicable skills. We recognize that this ideal requires the effective use of faculty expertise and creativity, a sensitivity to needs of university and community, as well as a genuine concern for the abilities and goals of students.

Philosophy Program

Coordinator of Philosophy Program: Maria Botero

Information: (936) 294-1510; CHSS 359

Website: Philosophy Program (http://www.shsu.edu/academics/psychology-and-philosophy/philosophy)

Highlights

- Opportunities for collaborative scholarly research.
- Texas Gamma Chapter, the local chapter of Phi Sigma Tau, the National Honor Society in Philosophy offers networking opportunities with undergraduate students and faculty

Suggested Minors

- Art
- Biology
- Criminal Justice
- English
- History
- Mathematics
- Music
- Photography
- Physics
- Political Science
- Psychology
- Sociology

Career Opportunities

A Philosophy major is an excellent preparation for law school. Other careers pursued by Philosophy majors include theology, teaching, systems analysis, and medicine.

Psychology Program

Information: Contact the department at (936) 294-3552 or visit CHSS 390

Website: Psychology Program (http://www.shsu.edu/~psy_www)

Highlights

- Faculty-student collaborative research opportunities.
- Local Chapter of Psi Chi, the National Honor Society for Psychology and the Psychology Club offer networking opportunities with undergraduate and graduate students and faculty.
- Psychology faculty publish in nationally recognized scientific journals.

Suggested Minors

- Biology
- Business Administration
- Chemistry

- Communication Studies
- Criminal Justice
- Philosophy
- Statistics
- Special Education
- Gerontology

Career Opportunities

The Bachelor of Science degree in Psychology is a useful and interesting program of study for liberal arts students and those desiring work in such areas as human services, public relations, correctional institutions, rehabilitation facilities, program development, and research to name just a few.

- Bachelor of Arts, Major in Philosophy
- Bachelor of Science, Major in Psychology
- Minor in Philosophy
- Minor in Psychology
- Minor in Applied Ethics and Critical Thinking

Psychology

Student Organizations and Activities

- Psi Chi Chapter, the National Honor Society for Psychology, Local Chapter
- Psychology Club

Scholarships

John D. Symonds Scholarship. The fund is established in memory of Dr. John Dobie Symonds, Associate Professor of Psychology at Sam Houston State University. Dr. Symonds published and presented scholarly papers in several areas including sleep research, cross-cultural research, and social learning theory.

Please refer to the on-line Scholarships4Kats (http://www.shsu.edu/dept/financial-aid/scholarships) program for information regarding all scholarship opportunities in the Program, in the Department, and at the University.

Philosophy

Student Organizations and Activities

Texas Gamma Chapter, the local chapter of Phi Sigma Tau, the National Honor Society in Philosophy

Scholarships

- **Richard A. Cording Endowed Scholarship**
- **Thomas W. Satre Endowed Scholarship.** The fund is established in memory Dr. Thomas W. Satre, Professor of Philosophy at Sam Houston State University.

Please refer to the on-line Scholarships4Kats (http://www.shsu.edu/dept/financial-aid/scholarships) program for information regarding all scholarship opportunities in this Program, in the Department, and at the University.

Chair: **Christopher Wilson**

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Bachelor of Arts, Major in Philosophy

Program Specific Requirements

The Philosophy Major requires 30 semester hours of course work in Philosophy. All majors are required to take:

Code	Title	Hours
Required Courses		
PHIL 2303	Critical Thinking	3
or PHIL 2352	Introduction to Contemporary Logic	
PHIL 3364	Ancient & Medieval Philosophy	3
PHIL 3365	Modern Philosophy	3
21 hours of PHIL electives		21
Approved Minor (6 of which must be advanced)		18
Total Hours		48

It is suggested that students visit with their advisors in choosing a minor.

As of Fall 2009, only grades of C or above in Philosophy Program courses (those with the prefix PHIL) will count toward the major in Philosophy.

Note: In addition to advanced PHIL hours, students should use elective and/or minor hours to satisfy the 42-advanced-hour requirement.

Code	Title	Hours
Bachelor of Arts, Major in Philosophy		
Core Curriculum		
Component Area I (Communication)		6
Component Area II (Mathematics)		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4
Degree Specific Requirements		
Foreign Language first two courses		8
Foreign Language second two courses		6
Three additional hours of Fine Arts credit (PHIL 3366 recommended)		3
PHIL 1301	Introduction To Philosophy [1]	3
PHIL 2306	Contemporary Moral Issues [2]	3
Major Core		
PHIL 2303	Critical Thinking	3
or PHIL 2352	Introduction to Contemporary Logic	
PHIL 3364	Ancient & Medieval Philosophy	3
PHIL 3365	Modern Philosophy	3
Major		
Philosophy electives		12
Minor (required)		18
Electives (PSYC 1301, World History, and World Literature recommended)		25
Total Hours		120

1 PHIL 1301 satisfies both the Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture) and 3 hours toward the major.

2 PHIL 2306 satisfies both the Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture) and 3 hours toward the major.

[3] PHIL 2303 satisfies both the Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences) and 3 hours toward the major.

First Year

Fall	Hours	Spring	Hours
Component Area II	3	ENGL 1302[1]	3
ENGL 1301[1]	3	HIST 1302[2]	3
HIST 1301[2]	3	PHIL 2303[5]	3
PHIL 1301[3]	3	PHIL 2306[6]	3
POLS 2305[4]	3	POLS 2306[4]	3
	15		15

Second Year

Fall	Hours	Spring	Hours
Component Area III	4	Component Area III	4
Component Area V	3	Component Area IX	1
FOLG 1411[7]	4	FOLG 1412[7]	4
PHIL 3364	3	Minor	3
		PHIL 3365	3
	14		15

Third Year

Fall	Hours	Spring	Hours
Elective	3	Elective	3
FOLG 2311[7]	3	FOLG 2312[7]	3
Minor	3	Minor	6
PHIL Elective	3	PHIL Elective	3
PHIL 3366	3		
	15		15

Fourth Year

Fall	Hours	Spring	Hours
Electives	9	Electives	10
Minor: Advanced course	3	Minor: Advanced course	3
PHIL Elective	3	PHIL Elective	3
	15		16

Total Hours: 120

[1] Satisfies Core Curriculum requirement for Component Area I (Communications).

[2] Satisfies Core Curriculum requirement for Component Area VI (U.S. History).

[3] PHIL 1301 satisfies both the Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture) and 3 hours toward the major.

[4] Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).

[5] PHIL 2303 satisfies both the Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences) and 3 hours toward the major.

[6] PHIL 2306 satisfies both the Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture) and 3 hours toward the major.

[7] Four courses required in one language.

Bachelor of Science, Major in Psychology

Program Specific Requirements

The courses within the Psychology Program are divided into four blocks:

Code	Title	Hours
Required Courses		
PSYC 1301	Introduction To Psychology	3

PSYC 3332	History Of Psychology	3
PSYC 3401	Research Methods	4
PSYC 3402	Psychological Statistics	4
Experimental Block		
Select six hours of the following:		6
PSYC 3333	Physiological Psychology	
PSYC 3336	Sensation/Perception	
PSYC 3337	Cognition	
PSYC 3382	Comparative Psychology	
PSYC 3391	Psychopharmacology	
PSYC 4332	Learning	
PSYC 4392	Industrial/Organizational Psy	
Personality-Social-Developmental Block		
Select six hours of the following:		6
PSYC 3365	Close Relationships	
PSYC 3374	Development Psychology	
PSYC 3375	Psychopathology & Fam Dynamics	
PSYC 3381	Social Psychology	
PSYC 4331	Personality	
PSYC 4334	Applied Social Psychology	
PSYC 4374	Psychology of the Elderly	
Clinical-Adjustment Block		
Select six hours of the following:		6
PSYC 2305	Professional Psychology	
PSYC 2315	Psychology Of Adjustment	
PSYC 3307	Intro to School Psychology	
PSYC 3331	Abnormal Psychology	
PSYC 3334	Human Sexuality	
PSYC 3371	Humanistic Psychology	
PSYC 3383	Psychology And The Law	
PSYC 3385	Health Psychology	
PSYC 4388	Psychological Testing	
PSYC 4393	Positive Psychology	
Select six hours of Psychology		6
Total Hours		38

[1] Please note that majors must take PSYC 3401 and PSYC 3402 in the Psychology Program once the student has enrolled at Sam Houston State University, unless the course has been transferred into the program. Also, please note that, as of Fall 2009, only grades of C or above in Psychology Program courses (those with the prefix PSYC) will count toward the major in Psychology.

In order to complete a major in Psychology, a student takes 14 hours from the Required Courses plus 6 hours from each of the three remaining blocks. Six hours of elective Psychology completes the 38 semester hours required for the major.

Psychology majors choose an approved minor of 18 semester hours, 6 of which must be advanced.

Note: Students should use elective and/or minor hours to satisfy the 42 advanced-hour requirement.

Code	Title	Hours
Bachelor of Science, Major in Psychology		
Core Curriculum		
Component Area I (Communication)		6
Component Area II (Mathematics)		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3

Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4
Degree Specific Requirements		
Natural Sciences		8
PHIL 3372 & PHIL 2303 & COMS 2382	Philosophy Of Science and Critical Thinking and Comm. for Bus. & Professions [1]	9
Major Core		
PSYC 1301	Introduction To Psychology [2]	3
PSYC 3332	History Of Psychology	3
PSYC 3401	Research Methods	4
PSYC 3402	Psychological Statistics	4
Experimental Block		
Select six hours of the following:		6
PSYC 3333	Physiological Psychology	
PSYC 3336	Sensation/Perception	
PSYC 3337	Cognition	
PSYC 3382	Comparative Psychology	
PSYC 3391	Psychopharmacology	
PSYC 4332	Learning	
PSYC 4392	Industrial/Organizational Psy	
Personality-Social Development Block		
Select six hours of the following:		6
PSYC 3365	Close Relationships	
PSYC 3374	Development Psychology	
PSYC 3375	Psychopathology & Fam Dynamics	
PSYC 3381	Social Psychology	
PSYC 4331	Personality	
PSYC 4334	Applied Social Psychology	
PSYC 4374	Psychology of the Elderly	
Clinical Adjustment Block		
Select six hours of the following:		6
PSYC 2305	Professional Psychology	
PSYC 2315	Psychology Of Adjustment	
PSYC 3307	Intro to School Psychology	
PSYC 3331	Abnormal Psychology	
PSYC 3334	Human Sexuality	
PSYC 3371	Humanistic Psychology	
PSYC 3383	Psychology And The Law	
PSYC 4388	Psychological Testing	
PSYC 4393	Positive Psychology	
PSYC Electives		6
Minor (required)		18
Electives		8
Total Hours		120

1 Or any COMS course.

2 Satisfies both the Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences) and the major.

First Year

Fall	Hours	Spring	Hours
Component Area II	3	Component Area III	4
Component Area III	4	ENGL 1302[1]	3
Component Area IX	1	HIST 1301[3]	3
ENGL 1301[1]	3	POLS 2305[4]	3
PSYC 1301[2]	3	PSYC Block Elective[5]	3
	14		16

Second Year

Fall	Hours	Spring	Hours
HIST 1302[3]	3	Component Area IV	3
Natural Science Elective	4	Component Area IX	3
POLS 2306[4]	3	Natural Science Elective	4
PSYC 3402	4	PHIL 2303	3
		PSYC 3401	4
	14		17

Third Year

Fall	Hours	Spring	Hours
Component Area V	3	Elective	3
Elective	3	Minor Elective	3
Minor Elective	3	Minor Elective	3
PSYC Block Elective (Advanced)[5]	3	PSYC Block Elective (Advanced)[5]	3
PSYC Block Elective (Advanced)[5]	3	PSYC Block Elective (Advanced)[5]	3
	15		15

Fourth Year

Fall	Hours	Spring	Hours
Elective	2	COMS 2382	3
Minor Elective	3	Minor Elective	3
Minor Elective	3	PSYC Electives	6
PHIL 3372	3	PSYC 3332	3
PSYC Block Elective (Advanced)[5]	3		
	14		15

Total Hours: 120

1 Satisfies Core Curriculum requirement for Component Area I (Communications).

2 Satisfies both the Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences) and the major.

3 Satisfies Core Curriculum requirement for Component Area VI (U.S. History).

4 Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).

5 **Experimental Block** select 6 hours of the following: PSYC 3333, PSYC 3336, PSYC 3337, PSYC 3382, PSYC 3391, PSYC 4332, PSYC 4392
Personality-Social Development Block select 6 hours of the following: PSYC 3365, PSYC 3374, PSYC 3375, PSYC 3381, PSYC 4331, PSYC 4334, PSYC 4374
Clinical-Adjustment Block select 6 hours of the following: PSYC 2305, PSYC 3307 PSYC 2315, PSYC 3331, PSYC 3334, PSYC 3371, PSYC 3383, PSYC 3385, PSYC 4388, PSYC 4393

Minor in Philosophy

Students seeking a minor in Philosophy are required to complete a minimum of 18 semester credit hours:

Code	Title	Hours
Minor in Philosophy		
PHIL 2303	Critical Thinking	3
or PHIL 2352	Introduction to Contemporary Logic	
PHIL Electives		9

PHIL Advanced Electives	6
Total Hours	18

Minor in Psychology

Students seeking a minor in Psychology are required to complete a minimum of 18-24 semester credit hours:

Code	Title	Hours
Minor in Psychology		
PSYC 1301	Introduction To Psychology	3
Experimental Block [1]		3
Personality-Social-Development Block [2]		3
Clinical-Adjustment Block [3]		3
PSYC Advanced Hours		6
Total Hours		18

1 **Experimental Block** select 3 hours of the following: PSYC 3333; PSYC 3336; PSYC 3337; PSYC 3382; PSYC 3391; PSYC 4332; PSYC 4392.

2 **Personality-Social Development Block** select 3 hours of the following: PSYC 3365; PSYC 3374; PSYC 3375; PSYC 3381; PSYC 4331; PSYC 4334; PSYC 4374.

3 **Clinical-Adjustment Block** select 3 hours of the following: PSYC 2305; PSYC 3307, ; PSYC 2315; PSYC 3331; PSYC 3334; PSYC 3371; PSYC 3383; PSYC 3385; PSYC 4388; PSYC 4393.

Department of Sociology

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Website: Department of Sociology (http://www.shsu.edu/academics/sociology)

Sociology is the study of social life, social change, and the social causes and consequences of human behavior. Sociologists investigate the structure of groups, organizations, and societies, and how people interact within these contexts. The subject matter of sociology ranges from the intimate family to the hostile mob, from organized crime to religious cults, from the divisions of race, gender and social class to the shared beliefs of a common culture, and from the sociology of the environment to the sociology of sports. Because sociology addresses the most challenging issues of our time, it is a rapidly expanding field whose potential is tapped by those who craft policies and create programs.

Mission

The Department of Sociology's mission is to acquire and disseminate knowledge on social life, social change, and the social causes and consequences of human behavior. SHSU Sociologists investigate the structure of groups, organizations, and societies and how people interact within these contexts. The primary objective of the curriculum is to provide students with the scientific tools to understand the functioning of society and study and understand social phenomena. The Department focuses on the study of the globalization, community, and health.

Highlights

- The Sociology Department is considered one of the prominent departments for the study of Globalization in the nation.
- Members of the Sociology Department regularly publish in important scientific journals.
- Members of the Sociology Department occupy leadership positions in professional organizations domestically and internationally.

Suggested Minors

- Communication Studies
- Criminal Justice
- English
- Health Education
- History
- Middle Eastern Studies
- Political Science
- Psychology

Career Opportunities

Sociology graduates find successful employment in the private sector (management, human resources, public relations), public sectors (Federal, State and Local Government agencies) and in non-profit organizations (NGOs) particularly in the areas of social services and analysis of social trends.

Research Centers

The Center for Rural Studies: Research and Outreach assists in the building, strengthening, and maintaining of Texas rural communities. The Center's purpose is to address timely and salient issues relating to community and socioeconomic development in rural Texas.

Program Specific Requirements

Students must successfully complete SOCI 1301 before taking additional sociology courses with the exception of SOCI 2319, SOCI 1306, SOCI 2366, SOCI 3324, SOCI 3381, and SOCI 3341. In order to graduate with a major or minor in Sociology, students must successfully complete all the Sociology requirements with a 2.5 GPA.

Code	Title	Hours
Required Courses		
SOCI 1301	Principles Of Sociology	3
SOCI 2399	Writing in Sociology	3
SOCI 3443	Social Statistics	4
SOCI 4340	Rsch Methods In Sociology	3
SOCI 4344	Sociological Theory	3

SOCI 4399	Senior Seminar In Sociology	3
Total Hours		19

In order to graduate with a Sociology major or minor, students must maintain a 2.5 GPA in Sociology. The only substitution permitted is Psychology Statistics (PSYC 3402) for Social Statistics (SOCI 3443). Only Principles of Sociology (SOCI 1301) may be taken by correspondence to satisfy the degree requirements for a Sociology major or minor. After the degree requirements are satisfied, Sociology correspondence courses may be taken to satisfy advanced hours requirements.

Curriculum

Students receive instruction in classical and contemporary sociological theory, qualitative and quantitative techniques of sociological investigation, and major substantive areas in the field. The primary objective of the curriculum is to provide students with the scientific tools to understand the functioning of society, study social phenomena, and acquire the necessary skills to enter the global labor market. The department focuses on the study of **Globalization, Community and Health**. Students are encouraged to participate in research projects and extra-curricular activities designed to foster critical sociological thinking and knowledge of today's world.

Instruction in general sociology is complemented by specialization in three substantive areas. Students can select to concentrate their undergraduate curriculum in Change, Economy and Society; Culture and Social Institutions; or Inequality and Society. Change, Economy and Society explores the relationships between society and the economy, patterns of change in the global society, the environment, social movements, and the organization of urban and rural societies. Culture and Social Institutions focuses on culture, social institutions such as the family and religion, and courses which analyze the most relevant social problems in today's society. Inequality and Society examines social inequality, gender and inequality, age and inequality, race and ethnic inequality, and complex organizations.

Code	Title	Hours
SOCI Core Courses		
SOCI 1301	Principles Of Sociology	3
SOCI 2399	Writing in Sociology	3
SOCI 3443	Social Statistics	4
SOCI 4340	Rsch Methods In Sociology	3
SOCI 4344	Sociological Theory	3
SOCI 4399	Senior Seminar In Sociology	3
Total Hours		19

Areas of Specialization

Change, Economy and Society

Code	Title	Hours
Course Requirements		
SOCI 3305	Intro to Community Leadership	3
SOCI 3336	Social Change And Development	3
SOCI 3376	Rural And Urban Sociology	3
SOCI 3384	Economy And Society	3
SOCI 3392	Social Movements	3
SOCI 4332	Soc Of Demography & Migration	3
SOCI 4334	Sociology Of Disaster	3
SOCI 4337	Environment And Society	3
Total Hours		24

Culture and Social Institutions

Code	Title	Hours
Course Requirements		
SOCI 1306	Social Problems	3
SOCI 2366	Sociology Of Sport	3
SOCI 3327	Sociology of Popular Culture	3
SOCI 3335	Sociology of Food and Society	3
SOCI 3338	Soclztn,Soc Cntr,Devnt So Bhvr	3
SOCI 3341	Marriage And The Family	3

SOCI 3342	Sociology Of Religion	3
SOCI 3365	Sociology Of Health & Illness	3
SOCI 3381	Cultural Anthropology	3
SOCI 4338	Social Gerontology	3
Total Hours		30

Inequality and Society

Code	Title	Hours
Course Requirements		
SOCI 2319	Introduction To Ethnic Studies	3
SOCI 3324	Social Inequality	3
SOCI 3325	Gender And Inequality	3
SOCI 3354	Age And Inequality	3
SOCI 3355	Race/Ethnic Inequality	3
SOCI 4336	Social Organization	3
Total Hours		18

Arranged Courses

Code	Title	Hours
Arranged Courses		
SOCI 4075	Rdgs in Sociology	1-3
SOCI 4379	Internship In Applied Sociolgy	3
Total Hours		4-6

- Bachelor of Arts, Major in Sociology
- Bachelor of Science, Major in Sociology
- Minor in Sociology
- Minor in Community Leadership
- Minor in Applied Ethics and Critical Thinking

Student Organizations and Activities

Students in the Sociology Club and Alpha Kappa Delta, the Sociology professional honor society, are introduced to the profession of Sociology through activities including: research opportunities, volunteer work, organization of special events, participation in professional meetings, and programs highlighting speakers of note in the many interest areas of Sociology.

Internships

Internship opportunities are available for junior and senior Sociology majors and minors. Interns are placed with employers, including social service organizations, government agencies, healthcare facilities, and in private companies. Interns may also complete a summer internship in rural locations through a partnership with the Texas Department of Agriculture. More information about the Internship Program can be found online at http://www.shsu.edu/academics/sociology/internships.

Scholarships

The department offers several scholarships. For information contact the department or visit Sociology Department (http://www.shsu.edu/academics/sociology).

Chair: **Furjen Deng**

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Interim Faculty

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Mariah Jade Zimpfer, MA (mjz001@shsu.edu), *Lecturer of Sociology*, *Department of Sociology*, MA, Rutgers, The St Un of Nj; BA, Sam Houston State University

Bachelor of Arts, Major in Sociology

The **Bachelor of Arts in Sociology** requires a minimum of 37 hours in Sociology and should be distributed as follows:

Code	Title	Hours
Required Courses		
SOCI 1301	Principles Of Sociology	3
SOCI 2399	Writing in Sociology	3
SOCI 3443	Social Statistics	4
SOCI 4340	Rsch Methods In Sociology	3
SOCI 4344	Sociological Theory	3
SOCI 4399	Senior Seminar In Sociology	3
6 hours each in the areas of specialization [1]		18
Total Hours		37

[1] Change, Economy, and Society specialization select 6 hours of the following: SOCI 3305, SOCI 3336, SOCI 3376, SOCI 3384, SOCI 3392, SOCI 4332, SOCI 4334, SOCI 4337.
Culture and Social Institutions specialization select 6 hours of the following: SOCI 1306, SOCI 2366, SOCI 3327, SOCI 3335, SOCI 3338, SOCI 3341, SOCI 3342, SOCI 3365, SOCI 3381, SOCI 4338.
Inequality and Society specialization select 6 hours of the following: SOCI 2319, SOCI 3324, SOCI 3325, SOCI 3354, SOCI 3355, SOCI 4336.

Code	Title	Hours
Bachelor of Arts, Major in Sociology		
Core Curriculum		
Component Area I (Communication)		6
Component Area II (Mathematics)		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4
Degree Specific Requirements		
Foreign Language [1]		8
Foreign Language [1]		6
Communication Studies		3
Major Core		
SOCI 1301	Principles Of Sociology [2]	3
SOCI 2399	Writing in Sociology	3
SOCI 3443	Social Statistics	4
SOCI 4340	Rsch Methods In Sociology	3
SOCI 4344	Sociological Theory	3
SOCI 4399	Senior Seminar In Sociology	3
Major Electives		
6 hours in each of three areas of specialization. [3]		18
Minor (Required)		18
General/Advanced Electives		9
Total Hours		120

[1] Four courses required in one language.

[2] If SOCI 1301 is used to satisfy the Core Curriculum requirement for Component Area V (Creative Arts), elective hours must be increased to reach 120 hours.

[3] Change, Economy, and Society specialization select 6 hours of the following: , SOCI 3305, SOCI 3336, SOCI 3376, SOCI 3384, SOCI 3392, SOCI 4332, SOCI 4334, SOCI 4337.
Culture and Social Institutions specialization select 6 hours of the following: SOCI 1306, SOCI 2366, SOCI 3327, SOCI 3335, SOCI 3338, SOCI 3341, SOCI 3342, SOCI 3365, SOCI 3381, SOCI 4338
Inequality and Society specialization select 6 hours of the following: SOCI 2319, SOCI 3324, SOCI 3325, SOCI 3354, SOCI 3355, SOCI 4336.

Notes:

- ENGL 1301, ENGL 1302, MATH 1332 or MATH 1314, and one lab science course must be completed before enrolling in any advanced course.
- If SOCI 2319 is used to partially satisfy Component Area IV, elective hours must be increased to reach 120 hours.
- A minimum of 42 advanced hours is required.

First Year

Fall	Hours	Spring	Hours
Component Area II	3	Component Area III	4
ENGL 1301[1]	3	Component Area V	3
HIST 1301[2]	3	ENGL 1302[1]	3
POLS 2305[3]	3	HIST 1302[2]	3
SOCI 1301	3	POLS 2306[3]	3
	15		16

Second Year

Fall	Hours	Spring	Hours
Change, Economy, & Society specialization[4]	3	Change, Economy, & Society specialization[4]	3
Component Area III	4	Foreign Language [6]	4
Component Area IX	3	Minor	3
Culture and Social Institutions specializaaion[5]	3	Minor	3
Minor	3	SOCI 2399	3
	16		16

Third Year

Fall	Hours	Spring	Hours
Component Area IX	1	Advanced Elective	3
Culture and Social Institutions specialization[5]	3	Foreign Language[6]	3
Foreign Language[6]	4	Inequality and Society speicalization[7]	3
Minor	3	Minor	3
SOCI 4340	3	SOCI 3443	4
	14		16

Fourth Year

Fall	Hours	Spring	Hours
Advanced Elective	3	Advanced Elective	3
COMS course	3	Advanced Elective	3
Foreign Language [6]	3	Inequality and Society specialization[7]	3
Minor	3	SOCI 4399	3
SOCI 4344	3		
	15		12

Total Hours: 120

[1] Satisfies Core Curriculum requirement for Component Area I (Communications).

[2] Satisfies Core Curriculum requirement for Component Area VI (U.S. History).

[3] Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).

[4] Change, Economy, and Society specialization select 6 hours of the following: SOCI 3336, SOCI 3376, SOCI 3384,SOCI 3392, SOCI 4332, SOCI 4334, SOCI 4337.

[5] Culture and Social Institutions specialization select 6 hours of the following: SOCI 1306 SOCI 2366, SOCI 3327, SOCI 3335, SOCI 3338, SOCI 3341, SOCI 3342, SOCI 3365, SOCI 3381, SOCI 4338.

[6] Four courses required in one language.

[7] Inequality and Society specialization select 6 hours of the following: SOCI 2319, SOCI 3324, SOCI 3325, SOCI 3354, SOCI 3355, SOCI 3336.

Notes:

- ENGL 1301, ENGL 1302, MATH 1332 or MATH 1314, and one lab science course must be completed before enrolling in any advanced course.
- If SOCI 2319 is used to partially satisfy Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture), elective hours must be increased to reach 120 hours.
- A minimum of 42 advanced hours is required.

Bachelor of Science, Major in Sociology

The **Bachelor of Science in Sociology** requires a minimum of 37 hours in Sociology and should be distributed as follows:

Code	Title	Hours
Required Courses		
SOCI 1301	Principles Of Sociology	3
SOCI 2399	Writing in Sociology	3
SOCI 3443	Social Statistics	4
SOCI 4340	Rsch Methods In Sociology	3
SOCI 4344	Sociological Theory	3
SOCI 4399	Senior Seminar In Sociology	3
6 hours each in the areas of specializaion [1]		18
Total Hours		37

[1] Change, Economy, and Society specialization select 6 hours of the following: SOCI 3305 SOCI 3336, SOCI 3376, SOCI 3384, SOCI 3392, SOCI 4332, SOCI 4334, SOCI 4337.
Culture and Social Institutions specialization select 6 hours of the following: SOCI 1306, SOCI 2366, SOCI 3327, SOCI 3335, SOCI 3338, SOCI 3341, SOCI 3342, SOCI 3365, SOCI 3381, SOCI 4338.
Inequality and Society specialization select 6 hours of the following: SOCI 2319, SOCI 3324, SOCI 3325, SOCI 3354, SOCI 3355, SOCI 4336.

Code	Title	Hours
Bachelor of Science, Major in Sociology		
Core Curriculum		
Component Area I (Communication)		6
Component Area II (Mathematics)		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4
Degree Specific Requirements		
Natural Sciences		8
MATH		3
Major Core		
SOCI 1301	Principles Of Sociology [1]	3
SOCI 2399	Writing in Sociology	3
SOCI 3443	Social Statistics	4
SOCI 4340	Rsch Methods In Sociology	3
SOCI 4344	Sociological Theory	3
SOCI 4399	Senior Seminar In Sociology	3
Major Electives		
6 hours in each of three areas of specialization. [2]		18
Minor (Required)		18

General/Advanced Electives	12
Total Hours	120

1 If SOCI 1301 is used to satisfy the Core Curriculum requirement for Component Area V (Creatove Arts), elective hours must be increased to reach 120 hours.

2 Change, Economy, and ,Society specialization select 6 hours of the following: SOCI 3305 SOCI 3336, SOCI 3376, SOCI 3384, SOCI 3392, SOCI 4332, SOCI 4334, SOCI 4337.
Culture and Social Institutions specialization select 6 hours of the following: SOCI 1306, SOCI 2366, SOCI 3327, SOCI 3335, SOCI 3338, SOCI 3341, SOCI 3342, SOCI 3365, SOCI 3381, SOCI 4338.
inequality and Society specialization select 6 hours of the following: SOCI 2319, SOCI 3324, SOCI 3325, SOCI 3354, SOCI 3355, SOCI 4336.

Notes:

- ENGL 1301, ENGL 1302, MATH 1332 or MATH 1314, and one lab science course must be completed before enrolling in any advanced course.
- If SOCI 2319 is used to partially satisfy the Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture), elective hours must be increased to reach 120 hours.
- A minimum of 42 advanced hours is required.

First Year

Fall	Hours	Spring	Hours
Component Area II	3	Component Area III	4
ENGL 1301[1]	3	Component Area V	3
HIST 1301[2]	3	ENGL 1302[1]	3
POLS 2305[3]	3	HIST 1302[2]	3
SOCI 1301	3	POLS 2306[3]	3
	15		16

Second Year

Fall	Hours	Spring	Hours
Change, Economy, and Society specialization[4]	3	Minor	3
Culture and Social Institutions specialization[5]	3	Minor	3
MATH courses	3	Natural Science	4
Minor	3	SOCI 2399	3
PHYS 1404	4	SOCI 3341	3
	16		16

Third Year

Fall	Hours	Spring	Hours
Component Area IX	1	Component Area IX	3
Culture and Social Institutions specialization	3	Advanced Elective	3
Minor	3	Minor	3
Natural Science	4	Inequality and Society specialization	3
SOCI 4340	3	SOCI 3443	4
	14		16

Fourth Year

Fall	Hours	Spring	Hours
Advanced Elective	3	Advanced Elective	3
Advanced Elective	3	Advanced Elective	3
Advanced Elective	3	Inequality and Society specialization	3
Minor	3	SOCI 4399	3
SOCI 4344	3		
	15		12

Total Hours: 120

1 Satisfies requirement for Component Area I (Communication).

2 Satisfies requirement for Component Area VI (U.S. History).

3 Satisfies the requirement for Component Area VII (Political Science/Government).

[4] Change, Economy, and Society specialization select 6 hours of the following: SOCI 3336, SOCI 3376 SOCI 3376, SOCI 3384, SOCI 3392, SOCI 4334, SOCI 4337.

[5] Culture and Social Institutions specialization select 6 hours of the following: SOCI 1306, SOCI 2366, SOCI 3327. SOCI 3335, SOCI 3335, SOCI 3335, SOCI 3335 SOCI 3338, SOCI 3341, SOCI 3342 SOCI 3365, SOCI 3381, SOCI 3381, SOCI 3381, SOCI 4338.

[6] Inequality and Society specialization select 6 hours of the following:SOCI 2319, SOCI 3324, SOCI 3325, SOCI 3354, SOCI 3355, SOCI 3336, SOCI 3336.

Notes:

- ENGL 1301, ENGL 1302, MATH 1332 or MATH 1314, and one lab science course must be completed before enrolling in any advanced course.
- If SOCI 2319 is used to partially satisfy Component Area IV, elective hours must be increased to reach 120 hours.
- A minimum of 42 advanced hours is required.

Minor in Sociology

The **Sociology Minor** requires a total of 18 hours in Sociology and should be distributed as follows:

Code	Title	Hours
Minor in Sociology		
Required Courses		
SOCI 1301	Principles Of Sociology	3
SOCI 4340	Rsch Methods In Sociology	3
SOCI 4344	Sociological Theory	3
Three courses from among the three areas of specialization		9
Total Hours		18

Minor in Community Leadership

A minor in Community Leadership requires 18 semester credit hours of coursework and shall include:

Code	Title	Hours
Minor in Community Leadership		
Required Courses		
COMS 3385	Community Applied Communica	3
SOCI 3305	Intro to Community Leadership	3
SOCI 4379	Internship In Applied Sociolgy	3
Choose 3 elective courses from the following:		9
AGRI 4388	Prin Agr Ldrship Comm Develop	
BIOL 1401	Environmental Science	
BUAD 3336	Successful Workplace Relations	
BUAD 4335	Intercultural Business Comm	
COMS 3383	Small Group Communication	
COMS 4385	Professional Comm. Development	
CRIJ 4330	Law And Society	
CRIJ 4365	Professionalism & Ethics In CJ	
DANC 4384	Dance Pedagogy	
HLTH 3350	Principles of Public Health	
HLTH 4387	Community Health	
MCOM 1332	Writing For Mass Media	
MCOM 3381	Principles Of Public Relations	
PHIL 2306	Contemporary Moral Issues	
POLS 3339	Nonprofit Organizations	
POLS 3393	Social Policy	
POLS 4372	Political Attitudes & Behavior	
SOCI 2319	Introduction To Ethnic Studies	
SOCI 3324	Social Inequality	

SOCI 3376	Rural And Urban Sociology	
THEA 4387	Worksp Chldrns Creative Drama	
Total Hours		18

COLLEGE OF SCIENCE AND ENGINEERING TECHNOLOGY

Administrative Officers

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Department of Physics	Joel Walker, Ph.D., Chair jww004@shsu.edu; (936)294-4803

About the College

The College of Science and Engineering Technology at Sam Houston State University welcomes you! Why consider pursuing a degree from this College? Here are just a few reasons:

- You can choose from a wide variety of programs (22 undergraduate and 12 graduate degrees) in the fields of agriculture, engineering technology, biology, biomedical sciences, chemistry, forensic chemistry, computer science, geography, geology, mathematics, statistics, and physics.
- Our programs will prepare you for careers in exciting and rapidly evolving fields that advance society.
- You will learn from professors who love to teach and draw from their personal and professional experience as practitioners in their areas of expertise.

We invite you to take a closer look at the programs that spark your interest. All will connect you with the innovative thinking, mentoring, leadership, and academic challenges that are hallmarks of an SHSU education.

Mission

The College of Science and Engineering Technology is committed to equipping students with the academic foundation necessary for them to be critical problem solvers in a rapidly changing world and to the generation of scientific knowledge through scholarly endeavors.

Vision

The College of Science and and Engineering Technology aspires to be a gateway of opportunity and a catalyst for personal and professional development. Embracing high standards, ethical practices and personalized student-faculty interaction, the College dedicates itself to excellence in teaching, engagement in quality research, and active community service. The College of Science and and Engineering Technology will pursue its vision by:

- preparing students for continued intellectual growth throughout productive and personally rewarding careers;
- fostering the development and dissemination of knowledge through scientific inquiry;
- promoting continual professional growth and scholarly activity;
- exemplifying high ethical standards and teaching the importance of ethics in professional practice;
- increasing scientific literacy in the populace, and instilling a high regard for nature and humankind;
- understanding and respecting diversity among people, cultures, and ideas; and

- assuming the responsibilities of academic community engagement and membership in a global society.

Highlights

- Faculty members in the College of Science and Engineering Technology have been recognized nationally and internationally for their expertise through national grants and awards, publications, and presentations.
- Undergraduate research is encouraged through partnerships with faculty members.
- Students in the College of Science and Engineering Technology have presented and published nationally and internationally.
- The Math Center at the Academic Success Center provides free tutoring in mathematics and statistics courses.
- The College of Science and Engineering Technology houses the Sam Houston State University Center of Excellence in Digital Forensics and the Daniel Reeves Center for Mathematics Education.
- Departments in the College of Science and Engineering Technology annually host state and regional conferences and symposiums.

Academic Programs

The College of Science and Engineering Technology provides a broad range of Undergraduate Programs, as well as Graduate Programs. The College of Science and Engineering Technology is comprised of eight academic units:

- Agricultural Sciences
- Biological Sciences
- Chemistry
- Computer Science
- Engineering Technology
- Geography and Geology
- Mathematics and Statistics
- Physics

College of Science and Engineering Technology Undergraduate Degrees

Departments	Programs
Major	**Degree(s)**
Agricultural Business	B.S.
Agricultural Business with Teaching Certification	B.S.
Agricultural Communications	B.S.
Agricultural Engineering Technology	B.S.
Agricultural Engineering Technology with Teaching Certification	B.S.
Animal Science	B.S.
Animal Science (Pre-Veterinary)	B.S.
Animal Science with Teaching Certification	B.S.
Biology	B.A., B.S.
Biomedical Sciences	B.S.
Career and Technology Program	B.A.A.S.
Chemistry (Professional Chemist)	B.S.
Chemistry (Other Technical Careers)	B.S.
Chemistry/Chemical Engineering (Dual Degree)	B.S.
Composite Science (Biology)	B.S.
Composite Science (Chemistry)	B.S.
Composite Science (Geology)	B.S.
Composite Science (Physics)	B.S.
Computing Science	B.S.
Computing Science (Information Assurance)	B.S.
Computing Science (Information Science)	B.S.
Computer Software Engineering Technology	B.S.
Construction Management	B.S.
Design and Development	B.S.
Digital and Cyber Forensic Engineering Technology	B.S.
Electronics and Computer Engineering Technology	B.S.

Engineering Technology	B.S.
Engineering Technology (Electronics)	B.S.
Engineering Technology (Safety Management)	B.S.
Engineering Technology with Teaching Certification	B.S.
Environmental Science	B.S.
Forensic Chemistry	B.S.
Geography (Environmental Geography)	B.A., B.S.
Geography (Geospatial Information Sciences)	B.S.
Geography (Human Geography)	B.A., B.S.
Geology	B.S.
Geology (Geoscience)	B.S.
Interdisciplinary Agriculture	B.S.
Interdisciplinary Agriculture with Teaching Certification	B.S.
Mathematics	B.A., B.S.
Mathematics with Teacher Certification	B.S.
Mathematics with Secondary Certification (two fields)	B.A.
Physics	B.S.
Physics/Engineering (Dual Degree)	B.S.
Plant and Soil Sciences	B.S.
Plant and Soil Sciences with Teaching Certification	B.S.

Bachelor of Science, Major in Composite Science

This degree is housed in several departments and will enable you to teach Biology, Chemistry, Geography and Geology (i.e., Earth Science), and Physics (including astronomy). Because individuals who have this certification can teach several disciplines of science, *they are especially sought after by schools*. This degree combines core science coursework with the Secondary Education certification. It also allows students to focus in an area of science that interests them. Accordingly, after having completed the common core of science classes, students then focus their remaining coursework in an area of particular interest to them, such as chemistry or geology. Because this degree encompasses several science certifications, it requires 124-129 hours of coursework, depending upon the area of specialization. Below is a summary of the Composite Science degree requirements.

Code	Title	Hours
Bachelor of Science, Major in Composite Science		
Component Area I (Communication)		6
Component Area II (Mathematics)		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences) [1]		3
Component Area IX (Component Area Option)		4
Degree Specific Requirements		
BIOL 1411	General Botany [2]	4
BIOL 1436	Foundations Of Science [2]	4
MATH 1410	Elementary Functions [3]	4
Major Core		
BIOL 1413	General Zoology	4
BIOL 2440	Introductory Cell Biology	4
CHEM 1411	General Chemistry I	4
CHEM 1412	General Chemistry II	4
GEOG 1401	Weather and Climate	4
GEOL 1403	Physical Geology	4
GEOL 1404	Historical Geology	4
PHYS 1301 & PHYS 1101	General Phy-Mechanics & Heat and General Physics Laboratory I	4
PHYS 1302 & PHYS 1102	Gen Phy-Snd,Lght, Elec, & Mag and General Physics Laboratory II	4
PHYS 1403	Stars & Galaxies [4]	4
or CHEM 2323/2123	Organic Chemistry I: Lecture	
GEOL 3330	Oceanography [5]	3
STAT 3379	Statistical Methds In Practice	3
Teacher Certification		
BIOL 3390	Science Teaching Methods	3
CISE 3384	The Teaching Profession	3
CISE 4364	Mth Tch Secondary Schools	3
CISE 4377	Assmt Stdnt Lrng In Secondary	3
CISE 4378	Content Literacy	3
CISE 4380	Respon Of Pro Educator	3
CISE 4394	Creatng Env For Lrng-Secondary	3
CISE 4396	Std Tch Secondary Classroom	3
CISE 4397	Std Tch Secondary Classroom	3
Concentration Courses		9-14
Total Hours		124-129

1 PHYS 1301 and PHYS 1101 recommended for Core Curriculum requirement Component Area VIII (Social and Behavioral Sciences) and the major..

2 BIOL 1411 and BIOL 1436 satisfy Core Curriculum requirement for Component Area III (Life and Physical Science). and the major.

3 MATH 1410 satisfies Core Curriculum requirement for Component Area II (Mathematics) and Component Area IX (Compenent Area Option) as well as the major.

4 PHYS 1403 taken for Biology and Earth Science concentration, and CHEM 2323 and CHEM 2123 taken for Chemistry and Physics concentration.

5 GEOL 3330 taken for Biology, Earth Science, and Physics Concentration, and CHEM 3438 taken for Chemistry concentration. .

Concentrations

Code	Title	Hours
Geology Concentration		
Choose three of the following:		9-12
GEOL 3326	Environmental Geology	
GEOL 3332	Forensic Geology	
GEOL 4312	Economic Geology	
GEOL 4331	Geology Of North America	
GEOL 4337	Plate Tectonics	
GEOL 4402	Structural Geology	
GEOL 4426	Hydrogeology	
GEOG 4432	Geomorphology	
Total Hours		9-12

Code	Title	Hours
Physics Concentration		
Choose three of the following:		9-10
PHYS 3395	Electronics & Circuit Analysis	
PHYS 3397 & PHYS 3117	Astronomy and Astronomy Laboratory	
PHYS 4333	Light And Optics	
PHYS 4367	Intro To Solid State Physics	
Total Hours		9-10

Code	Title	Hours
Biology Concentration		
Choose three of the following:		12
BIOL 3364	Plant Taxonomy	
BIOL 3409	General Ecology	
BIOL 3410	Human Biology	
BIOL 3420	Comparative Vertebrate Anatomy	
BIOL 3430	Plant Physiology	
BIOL 3450	Introductory Genetics	
BIOL 3461	Fish Wildlife Recreation Mngt	
BIOL 3470	General Microbiology	
BIOL 3480	Developmental Biology	
BIOL 3490	Histology	
BIOL 3492	Plant Morphology	
BIOL 4330	Aquatic Biology	
BIOL 4410	General Entomology	
BIOL 4430	Vertebrate Natural History	
BIOL 4460	Parasitology	
BIOL 4470	Animal Behavior	
BIOL 4471	Invertebrate Zoology	

BIOL 4490	Cell Biology	
Total Hours		12

Code	Title	Hours
Chemistry Concentration		
CHEM 2325 & CHEM 2125	Organic Chemistry II: Lecture and Organic Chemistry II: Lab	4
CHEM 3367	Intro Inorganic Chemistry	3
Choose two of the following:		6-7
CHEM 3339	Biochemistry II	
CHEM 4442	Air Quality [1]	
CHEM 3361	Discoveries In Chm & Textiles	
CHEM 3368	Environmental Chemistry	
Total Hours		13-14

[1] CHEM 4442 requires CHEM 2401 as a prerequisite.

First Year

Fall	Hours	Spring	Hours
Component Area I	3	Component Area I	3
Component Area V	3	Component Area VI	3
Component Area VI	3	BIOL 1436[1]	4
BIOL 1411[1]	4	CHEM 1411	4
MATH 1410[2]	4		
	17		14

Second Year

Fall	Hours	Spring	Hours
Component Area IV	3	Component Area VII	3
Component Area VII	3	Component Area VIII[3]	3
BIOL 1413	4	Component Area IX	3
CHEM 1412	4	PHYS 1301 & PHYS 1101	4
GEOG 1401	4	GEOL 1403	4
	18		17

Third Year

Fall	Hours	Spring	Hours	Summer	Hours
BIOL 2440	4	Concentration Courses	6-10	CISE 3384	3
Concentration Course	3-4	BIOL 3390	3	CISE 4380	3
GEOL 1404	4	GEOL 3330 or CHEM 3438[5]	3	CISE 4378	3
PHYS 1302 & PHYS 1102	4	STAT 3379	3		
PHYS 1403 or CHEM 2323 (and CHEM 2123)[4]	4				
	19-20		15-19		9

Fourth Year

Fall	Hours	Spring	Hours
CISE 4364	3	CISE 4394	3
CISE 4377	3	CISE 4396	3
		CISE 4397	3
	6		9

Total Hours: 124-129

[1] BIOL 1411 and BIOL 1436 satisfy Core Curriculum requirement for Component Area III (Life and Physical Science) and the major.

[2] MATH 1410 satisfies Core Curriculum requirement for Component Area II (Mathematics) and one semester credit hour for Component Area IX (Component Area Option) as well as the major.

[3] PHYS 1301 recommended for Core Curriculum requirement Component Area VIII.

[4] PHYS 1403 taken for Biology and Earth Science concentration, and CHEM 2323 and CHEM 2123 taken for Chemistry and Physics Concentration.

[5] GEOL 3330 taken for Biology, Earth Science, and Physics Concentration, and CHEM 3438 taken for Chemistry Concentration.

Concentrations

Code	Title	Hours
Geolog Concerntration		
Choose three of the following:		9-12
GEOL 3326	Environmental Geology	
GEOL 3332	Forensic Geology	
GEOL 4312	Economic Geology	
GEOL 4337	Plate Tectonics	
GEOL 4402	Structural Geology	
GEOL 4426	Hydrogeology	
GEOL 4331	Geology Of North America	
GEOG 4432	Geomorphology	
Total Hours		9-12

Code	Title	Hours
Physics Concerntration		
Choose three of the following:		9-10
PHYS 3395	Electronics & Circuit Analysis	
PHYS 3397 & PHYS 3117	Astronomy and Astronomy Laboratory	
PHYS 4333	Light And Optics	
PHYS 4367	Intro To Solid State Physics	
Total Hours		9-10

Code	Title	Hours
Biology Concentration		
Choose three of the following:		12
BIOL 3364	Plant Taxonomy	
BIOL 3409	General Ecology	
BIOL 3410	Human Biology	
BIOL 3420	Comparative Vertebrate Anatomy	
BIOL 3430	Plant Physiology	
BIOL 3450	Introductory Genetics	
BIOL 3461	Fish Wildlife Recreation Mngt	
BIOL 3470	General Microbiology	
BIOL 3480	Developmental Biology	
BIOL 3490	Histology	
BIOL 3492	Plant Morphology	
BIOL 4330	Aquatic Biology	
BIOL 4410	General Entomology	
BIOL 4430	Vertebrate Natural History	
BIOL 4460	Parasitology	
BIOL 4470	Animal Behavior	
BIOL 4471	Invertebrate Zoology	
BIOL 4490	Cell Biology	
Total Hours		12

Code	Title	Hours
Chemistry Concentration		
CHEM 2325 & CHEM 2125	Organic Chemistry II: Lecture and Organic Chemistry II: Lab	4
CHEM 3367	Intro Inorganic Chemistry	3
Choose two of the following:		6-7
CHEM 3339	Biochemistry II	
CHEM 4442	Air Quality [1]	
CHEM 3361	Discoveries In Chm & Textiles	
CHEM 3368	Environmental Chemistry	
Total Hours		13-14

[1] CHEM 4442 requires CHEM 2401 as a prerequisite.

Bachelor of Science, Major in Environmental Science (Pollution Abatement)

Code	Title	Hours
Bachelor of Science, Major in Environmental Science (Pollution Abatement)		
Core Curriculum		
Component Area I (Communication)		6
Component Area II (Mathematics		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4
Degree Specific Requirements		
AGET 3383	Soil & Water Conservation Engr	3
BIOL 1401	Environmental Science	4
BIOL 1411	General Botany	4
BIOL 1413	General Zoology	4
BIOL 3409	General Ecology	4
BIOL 4320	Environmental Toxicology	3
BIOL 4330	Aquatic Biology	3
BIOL 4374	Biostatistics	3
CHEM 1411	General Chemistry I	4
CHEM 1412	General Chemistry II	4
CHEM 2323 & CHEM 2123	Organic Chemistry I: Lecture and Organic Chemistry I Lab	4
CHEM 2325 & CHEM 2125	Organic Chemistry II: Lecture and Organic Chemistry II: Lab	4
ECON 3352	Energy & Environmental Econ	3
GEOL 1403	Physical Geology [1]	4
GEOL 3326	Environmental Geology	3
GEOG 1401	Weather and Climate [1]	4
GEOG 2364	Geo-Spatial Technology	3
MATH 1420	Calculus I [2]	4
PHIL 3372	Philosophy Of Science	3
POLS 3395	Environmental Policy	3
STAT 1369	Elementary Statistics	3
Prescribed Electives		

Select 5 of the following		15
GEOL 4426	Hydrogeology	
GEOG 4357	Population Geography	
GEOG 4331	Conservatn Of Naturl Resources	
GEOG 4333	Field Studies	
GEOG 4468	Remote Sensing	
PHIL 4306	Philosophy of Biology	
PLSC 3440	Soil Science	
PLSC 4330	Soil Fertility Mgt Fertilizers	
PLSC 4370	Forage Crops & Pasture Mgmt	
PLSC 4397	Integrated Pest Management	
POLS 3395	Environmental Policy	
SOCI 3336	Social Change And Development	
SOCI 4337	Environment And Society	
Total Hours		120

[1] Satisfies Core Curriculum requirement for Component Area III (Life and Physical Science).

[2] Satisfies 3 semester credit hours of the Core Curriculum requirement for Component Area II (Mathematics).

First Year

Fall	Hours	Spring	Hours
Component Area IV	3	Component Area I	3
Component Area VI	3	Component Area V	3
STAT 1369	3	Component Area IX	1
GEOG 1401[1]	4	BIOL 1401	4
MATH 1420[2]	4	BIOL 1411	4
	17		15

Second Year

Fall	Hours	Spring	Hours
Component Area I	3	Component Area VII	3
Component Area VII	3	Component Area IX	3
Component Area VIII	3	BIOL 1413	4
CHEM 1411	4	CHEM 1412	4
GEOL 1403[1]	4	GEOG 2364	3
	17		17

Third Year

Fall	Hours	Spring	Hours
BIOL 3409	4	BIOL 4330	3
BIOL 4374	3	CHEM 2325 & CHEM 2125	4
CHEM 2323 & CHEM 2123	4	ECON 3352	3
GEOL 3326	3	PHIL 3372	3
		POLS 3395	3
	14		16

Fourth Year

Fall	Hours	Spring	Hours
Component Area VI	3	BIOL 4320	3
Advance Elective (Environmental Science)[3]	6	Advanced Elective (Environmental Science)[3]	9
AGET 3383	3		
	12		12

Total Hours: 120

[1] Satisfies Core Curriculum requirement for Component Area III (Life and Physical Science).

[2] Satisfies 3 semester credit hours of the Core Curriculum requirement for Component Area II (Mathematics).

[3] Advance Electives (Environmental Science): GEOL 4426, GEOG 4357, GEOG 4331, GEOG 4432, GEOG 4468, PLSC 3440, PLSC 4330, PLSC 4370 , PLSC 4397, PHIL 4306, POLS 3395 SOCI 3336, SOCI 4337.

Bachelor of Science, Major in Environmental Science (Sustainability)

Available as of Spring 2018

Code	Title	Hours
Bachelor of Science, Major in Environmental Science (Sustainability)		
Core Curriculum		
Component Area I (Communication)		6
Component Area II (Mathematics)		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4
Degree Specific Requirements		
AGET 3383	Soil & Water Conservation Engr	3
BIOL 1401	Environmental Science [1]	4
BIOL 1413	General Zoology	4
BIOL 1411	General Botany	4
BIOL 3409	General Ecology	4
BIOL 4374	Biostatistics	3
CHEM 1411	General Chemistry I	4
ECON 3352	Energy & Environmental Econ	3
XXXX XXXX TBA		3
GEOG 1401	Weather and Climate [1]	4
GEOG 2364	Geo-Spatial Technology	3
GEOG 4331	Conservatn Of Naturl Resources	3
GEOG 4468	Remote Sensing	4
GEOL 1403	Physical Geology	4
GEOL 3326	Environmental Geology	3
GEOL 4426	Hydrogeology	4
PLSC 3440	Soil Science	4
POLS 3395	Environmental Policy	3
SOCI 4337	Environment And Society	3
STAT 1369	Elementary Statistics	3
MATH 1314	Pre Calculus Algebra [2]	3
Prescribed Electives		
Choose five of the following		16
PLSC 4330	Soil Fertility Mgt Fertilizers	
PLSC 4370	Forage Crops & Pasture Mgmt	
PLSC 4397	Integrated Pest Management	
GEOL 3326	Environmental Geology	
GEOG 4432	Geomorphology	
GEOG 4357	Population Geography	
PHIL 3372	Philosophy Of Science	
PHIL 4306	Philosophy of Biology	

SOCI 3336	Social Change And Development
SOCI 4337	Environment And Society
Total Hours	120

First Year

Fall	Hours	Spring	Hours
Component Area I	3	Component Area I	3
Component Area VI	3	Component Area V	3
BIOL 1401	4	Component Area IX	1
GEOG 1401[1]	4	GEOL 1403	4
MATH 1314[2]	3	STAT 1369	3
		XXXX XXXX TBA	3
	17		17

Second Year

Fall	Hours	Spring	Hours
BIOL 1411	4	Component Area VII	3
CHEM 1411	4	Component Area IX	3
Component Area IV	3	AGET 3383	3
Component Area VII	3	GEOG 2364	3
Component Area VIII	3		
	17		12

Third Year

Fall	Hours	Spring	Hours
BIOL 1413	4	BIOL 3409	4
BIOL 4374	3	ECON 3352	3
GEOL 3326	3	GEOG 4331	3
GEOL 4426	4	PLSC 3440	4
POLS 3395	3		
	17		14

Fourth Year

Fall	Hours	Spring	Hours
Advanced Elective (Environmental Science)	7	Advanced Elective (Environmental Science)	9
GEOG 4468	4	Component Area VI	3
SOCI 4337	3		
	14		12

Total Hours: 120

Department of Agricultural Sciences

Interim Chair: Dr. (sfkelley@shsu.edu) Marcus Gillespie (geo_mbg@shsu.edu) (936) 294-1216

Website: Department of Agricultural Sciences (http://www.shsu.edu/academics/agricultural-sciences-and-engineering-technology)

The Department of Agricultural Sciences consists of 2 major programs of study:

- Agricultural Sciences
- Career and Technology Education

Within each program are a number of specialized programs or majors, offering students the opportunity to tailor degree programs with career goals. Specific requirements for each degree are outlined under the respective program headings. For more information, please visit the Department of Agricultural Sciences website (http://www.shsu.edu/academics/agricultural-sciences-and-engineering-technology), or contact Dr. Shyam Nair (shyam.nair@shsu.edu).

Highlights

The Agricultural Sciences program has multiple educational centers and complexes

- The Fred L. Pirkle Engineering Technology Center has many specialized classrooms and laboratories that service the agriculture program: Agribusiness Team Based Learning, Animal Science Physiology, Wildlife Management, Floral Design, and Agricultural Communications.
- The Agriculture Center Complex has a greenhouse, horse barns, covered arena, and meat science laboratory.
- The Plant Science Field Lab has two greenhouses and laboratory facilities for plant science and plant propagation.
- The William R. Harrell Agricultural Engineering Technology Center provides students with hands-on experience in metal fabrication, electricity and electronics, hydraulics, structures, alternative energy resources, and soil and water conservation.
- The 1740-acre Gibbs Ranch Education and Research Facility, located north of campus on Highway 75, serves as a living laboratory for all aspects of agricultural and natural resource education.

Career Opportunities

Approximately twenty percent of our population is involved in occupations directly related to agriculture. Sectors such as production, banking, marketing, teaching, processing, and service in governmental agencies rely on the productivity of modern agriculture in meeting the daily needs of society.

Additional career information is given in the introduction to each of the degree programs in agriculture.

Suggested Minors

For those seeking secondary teacher certification in agricultural science, Secondary Education (CISE) is used for the minor. The most common major used for this purpose is Interdisciplinary Agriculture, but the CISE minor may be used with other program areas within the department as well. Many Agricultural Business, Animal Science, Agricultural Engineering Technology, and Plant & Soil Sciences majors will select minors from program areas within the department (see Minor area), while others will select from the College of Business Administration, such as Management, Marketing, Accounting, Banking, Finance, or General Business Administration. Animal Science majors can select a minor in Conservation Biology, Wildlife Management, or Equine Science. Biology or Composite Science is frequently taken as a minor by Animal Science and Plant & Soil Sciences students considering graduate school. Agricultural Engineering Technology majors often select areas available in the Engineering Technology Program or Secondary Education. Minors in Plant & Soil Sciences, Animal Science, Equine Science, Agricultural Engineering Technology, and Agribusiness are available for those majoring in other specific agricultural disciplines. For instance, an Agribusiness student may minor in Plant & Soil Sciences to better prepare for the business aspects in the field of horticulture.

Program-Specific Requirements

The **objectives** of the Agricultural Sciences Program are to:

- Provide high quality instruction in agricultural sciences, technology, and business;
- Promote research in agricultural sciences;
- Provide a program of continuing education for teachers of agricultural science and agricultural producers; and
- Provide educational and competitive activities for youth interested in the agricultural sciences.

For additional information regarding admission requirements, degree programs, description of courses, and financial assistance available, please refer to the appropriate sections of this catalog. Brochures and information concerning the department and scholarships may be obtained by calling (936) 294-1215 or writing:

Sam Houston State University
Department of Agricultural Sciences

Huntsville, Texas 77341-2088

or by e-mailing a request to shyam.nair@shsu.edu (sfkelley@shsu.edu.). Website: http://www.shsu.edu/academics/agricultural-sciences/

- Bachelor of Science, Major in Interdisciplinary Agriculture
- Bachelor of Science, Major in Agricultural Business
- Bachelor of Science, Major in Agricultural Communications
- Bachelor of Science, Major in Agricultural Engineering Technology
- Bachelor of Science, Major in Agricultural Engineering Technology with Teaching Certification
- Bachelor of Science, Major in Animal Science
- Bachelor of Science, Major in Animal Science, Pre-Veterinary Medicine
- Bachelor of Science, Animal Science, Minor in Conservation Biology
- Bachelor of Science, Animal Science, Minor in Wildlife Management
- Bachelor of Science, Major in Plant and Soil Sciences
- Bachelor of Science, Major in Interdisciplinary Agriculture with Teaching Certification
- Bachelor of Science, Major in Animal Science with Teaching Certification
- Bachelor of Science, Major in Agricultural Business with Teaching Certification
- Bachelor of Science, Major in Plant and Soil Sciences with Teaching Certification
- Career and Technology Program Bachelor of Applied Arts and Sciences
- Minor in Agricultural Business
- Minor in Agricultural Engineering Technology
- Minor in Animal Science
- Minor in Equine Science
- Minor in Plant and Soil Sciences
- Minor in Wildlife Ecology

Student Organizations

- Ag Ambassadors
- Agricultural Business Association
- Agricultural Communicators of Tomorrow
- Agricultural Engineering Technology Club
- Alpha Gamma Rho Fraternity
- ALCA/PLANET Landscape
- Beef Cattle Show Team
- Block and Bridle
- Collegiate FFA
- Delta Tau Alpha - National Agricultural Honor Society
- Horse Judging Team
- Horsemen’s Association
- Horticulture and Crop Sciences Club
- Livestock Judging Team
- Minorities in Agriculture, Natural Resources and Related Sciences
- National Agri-Marketing Association
- Pre-Vet Society
- Ranch Horse Team
- Rodeo Club
- Sigma Alpha – Professional Agricultural Sorority
- Wildlife Society

Internships

An internship in agricultural sciences is intended to provide experience-based learning opportunities for students in their respective discipline of study. Students generally seek an internship experience at the end of their sophomore or junior year. The course identified for internship credit in agriculture is AGRI 4396. Internships may be arranged through student contact with providers or through departmental faculty and staff announcements and

postings. All internships must receive departmental approval through application prior to the initiation of the internship. Maximum credit for internship is six (6) credit hours.

Scholarships

The department is pleased to have available approximately 90 scholarships for students majoring in agricultural sciences. Scholarships range in value from $1,000 per year to $16,000 over a 4-year period. Almost all of these scholarships are a one-time award and are awarded on an annual basis. A student may reapply in subsequent years if eligibility requirements are met. A few of our scholarships are renewed automatically for a period of 4 years if eligibility requirements are met.

The Scholarships 4Kats (http://www.shsu.edu/dept/financial-aid/scholarships) program must be used to apply for departmental scholarships. The program enables you to apply for all scholarships for which you are eligible, including those outside the Department of Agricultural Sciences. The deadline for departmental scholarships and university-wide scholarships is November 1; non-departmental scholarship deadlines vary.

CONTACT:

Dr. Kyle Stutts (kjs015@shsu.edu)
Department of Agricultural Sciences
PO Box 2088, Huntsville, TX 77341
(936) 294-1219

SHSU Rodeo Scholarships

The scholarships below are available through the Sam Houston Rodeo program. The application deadline is July 1. Rodeo scholarships are one-time awards and not automatically renewable. Many rodeo scholarships are skills and performance based.

Applications are available through the University's Scholarship4Kats (http://www.shsu.edu/dept/financial-aid/scholarships) program.

- Byrd Family and Friends of Rodeo Scholarship
- Copenhagen/Skoal – U. S. Tobacco Scholarship
- SHSU Rodeo Team Scholarship
- Joshua Farris Memorial Endowed Scholarship
- Sonny Sikes Rodeo and the Sikes Family Endowed Scholarship
- Texas Best Rodeo Endowed Scholarship
- Tommy Castenson Memorial Scholarship
- Wes Neyland Memorial Endowed Rodeo Scholarship

CONTACT:

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Alisha N Bullion, MS (anb035@shsu.edu), *Lecturer of Agricultural Sciences*, *Department of Agricultural Sciences*, MS, Sam Houston State University; BS, Sam Houston State University

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Kristie L Franks, MS (stdkxr14@shsu.edu), *Lecturer of Agricultural Sciences*, *Department of Agricultural Sciences*, MS, Sam Houston State University; BS, Sam Houston State University

Sharon F Frey, MS (slf009@shsu.edu), *Lecturer of Agricultural Sciences*, *Department of Agricultural Sciences*, MS, Sam Houston State University; BSED, Univ of Texas At Austin

Jennifer Ann Scasta, MS (jas065@shsu.edu), *Lecturer of Agricultural Sciences*, *Department of Agricultural Sciences*, MS, Oklahoma State University; BS, Texas AM University

Christopher Ray Stewart, MS (crs003@shsu.edu), *Lecturer of Agricultural Sciences*, *Department of Agricultural Sciences*, MS, Sam Houston State University; BS, Sam Houston State University

Marsha Clark Wilson, MBA (mcw021@shsu.edu), *Lecturer of Agricultural Sciences*, *Department of Agricultural Sciences*, MBA, Univ of Houston-Main; BS, Univ of Texas At Austin

Bachelor of Science, Major in Interdisciplinary Agriculture with Teaching Certification

Agriculture, Food, and Natural Resources (AFNR) Teacher Certification

The primary emphasis of the teacher certification program is the preparation of secondary teachers of Agricultural, Food, and Natural Resources (AFNR). Students gain a broad background in the agricultural sciences along with professional preparation courses in agricultural and secondary pedagogy. This comprehensive background prepares students for a wide variety of professional agricultural careers.

The teacher certification option can be chosen with any of the agricultural emphasis majors as shown. Students majoring in interdisciplinary agriculture, agricultural business, animal science, agricultural engineering technology, or horticulture and crop sciences who are seeking AFNR teacher certification should select CISE as their minor.

All students seeking teacher certification must be advised each semester to ensure proper sequencing of classes.

Code	Title	Hours
Bachelor of Science, Major in Interdisciplinary Agriculture with Teaching Certification		
Core Curriculum		
Component Area I (Communication)		6
Component Area II (Mathematics)		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4
Degree Specific Requirements		
AGRI 1309	Computers in Agriculture (or approved substitute)	3
or CSTE 1330	Introduction To Computers	
CHEM 1406	Inorganic & Envir Chemistry [1]	4
MATH 1314	Pre Calculus Algebra [2]	3
or MATH 1332	College Mathematics	
MATH 1369	Elementary Statistics	3
or STAT 1369	Elementary Statistics	
Major Core		
AGBU 2317	Principles Of Agri Economics	3
AGET 2303	Intro to Ag Engineering Tech	3
AGRI 1131	Intro To Pro Leadership Skills	1
ANSC 1319 & ANSC 1119	Animal Science and Animal Science Laboratory	4
PLSC 1307 & PLSC 1107	Plant Science and Plant Science Laboratory	4
Major Core for Certification		
AGBU 2389	Agribusiness Financl Analysis	3
AGED 3310	Teaching Ag Technology	3
AGED 3320	Interdiscip Agr Sci & Technol	3
ACOM 3360	Communication Skills for Agriculturists	3
AGED 4388	Agr Sci & Tech Program Mgt	3
AGET 4381	Adv Agricultural Mechanics	3
ANSC 3373	Animal Nutrition	3
ANSC 4360	Livestock Mgt Techniques	3
Select 3 hours of Animal Science/Equine Science/Wildlife Management:		3
ANSC 3376	Meat Science	
ANSC 4376	Sheep & Goat Production & Mgt	

ANSC 4380	Beef Cattle Production & Mgmt	
EQSC 2364	Equine Science	
PLSC 2399	Floral Design [3]	3
WMGT 3381	Game Animal Production	3
PLSC 3440	Soil Science	4
PLSC 4370	Forage Crops & Pasture Mgmt	3
or PLSC 3395	Plant Propagation Techniques	
Minor		
CISE 3384	The Teaching Profession	3
CISE 4364	Mth Tch Secondary Schools	3
CISE 4378	Content Literacy	3
CISE 4379	Differentiated Pedagogy	3
CISE 4380	Respon Of Pro Educator	3
Secondary Ed Courses - AGED		
AGED 4364	Methds Tchg Agricultural Sci	3
AGED 4365	Std Tchng Agricultural Science	3
AGED 4366	Std Tchng Agricultural Science	3
AGED 4394	Ag. Ed. Learning Environments	3
Total Hours		127

1 CHEM 1406 satisfies the Core Curriculum requirement for Component Area II (Life and Physical ScienceI and the Degree Specific Requirement.

2 MATH 1314 or MATH 1332 satisfy Core Curriculum requirement for Component Area II (Mathematics).

3 PLSC 2399 satisfies the Core Curriculum requirement for Component Area V (Creative Arts), the Degree Specific Requirement, and the major.

First Year

Fall	Hours	Spring	Hours
ANSC 1319 & ANSC 1119	4	AGET 2303	3
AGRI 1131	1	ENGL 1302[1]	3
ENGL 1301[1]	3	HIST 1302[2]	3
HIST 1301[2]	3	MATH 1369 or STAT 1369	3
MATH 1314 or 1332[3]	3	PLSC 1307 & PLSC 1107	4
	14		16

Second Year

Fall	Hours	Spring	Hours
Component Area III	4	Component Area VIII (ANSC 2360 is recommended)	3
AGBU 2317	3	AGBU 2389	3
AGRI 1309 or CSTE 1330	3	CHEM 1406	4
PLSC 2399	3	KINE 2115, NGLI 1101, or ECON 1100	1
POLS 2305[5]	3	POLS 2306[5]	3
	16		14

Third Year

Fall	Hours	Spring	Hours	Summer	Hours
AGET 4381	3	Component Area IX	3	AGED 3310	3
AGED 3320	3	ANSC 4360	3	AGED 4388	3
ANSC 3373	3	CISE 4380	3		
CISE 3384	3	CISE 4378	3		

PLSC 3440	4 WMGT 3381	3	
	16	15	6

Fourth Year

Fall	Hours	Spring	Hours
Component Area IV	3	AGED 4364	3
ACOM 3360	3	AGED 4365	3
CISE 4364	3	AGED 4366	3
CISE 4379	3	AGED 4394	3
PLSC 4370 or 3395	3		
	15		12

Total Hours: 124

1 Satisfies Core Curriculum requirement for Component Area II (Mathematics).

2 Satisfies Core Curriculum requirement for Component Area I (Communications).

3 Satisfies Core Curriculum requirement for Component Area VI (U.S. History).

4 Satisfies Core Curriculum requirement for Component Area V (Creative Arts).

5 Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).

6 Satisfies Core Curriculum requirement for Component Area III (Life and Physical Science).

Bachelor of Science, Major in Interdisciplinary Agriculture

This program is designed to meet the needs of students desiring a program of study in agricultural production management, agricultural education, extension education, or any of several other fields of study. The program allows for the selection of a minor in special interest areas such as chemistry, biology, business, environmental science, secondary education, or computer science. Specified course requirements for the major are structured to meet the specific needs of an individual student with the approval of the faculty advisor.

Code	Title	Hours
Bachelor of Science, Major in Interdisciplinary Agriculture		
Core Curriculum		
Component Area I (Communication)		6
Component Area II (Mathematics)		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4
Degree Specific Requirements		
AGRI 1309	Computers in Agriculture (or approved substitute)	3
or CSTE 1330	Introduction To Computers	
CHEM 1406	Inorganic & Envir Chemistry [1]	4
MATH 1314	Pre Calculus Algebra [2]	3
or MATH 1332	College Mathematics	
MATH 1369	Elementary Statistics	3
or STAT 1369	Elementary Statistics	
Major Core		
AGBU 2317	Principles Of Agri Economics	3
ACOM 3360	Communication Skills for Agriculturists	3
AGBU 2389	Agribusiness Financl Analysis	3
or AGBU 3361	Agribusiness Org & Mgt	
AGET 2303	Intro to Ag Engineering Tech	3
AGRI 1131	Intro To Pro Leadership Skills	1
AGRI 4120	Professional Career Skills	1

AGRI 4388	Prin Agr Ldrship Comm Develop	3
ANSC 1119	Animal Science Laboratory	1
ANSC 1319	Animal Science	3
ANSC 3373	Animal Nutrition	3
PLSC 1107	Plant Science Laboratory	1
PLSC 1307	Plant Science	3
PLSC 3440	Soil Science	4
Major Electives		
AGRI, AGBU, ACOM, AGET, AGED, ANSC, EQSC, PLSC or WMGT Elective		3
AGRI, AGBU, ACOM, AGET, AGED, ANSC, EQSC, PLSC or WMGT Electives (Advanced)		19
Minor (If Required)		
Minor		9
Minor (Advanced)		9
Total Hours		120

1 CHEM 1406 satisfies Core Curriculum requirement for Component Area III (Life and Physical Science) and the degree specific requirement.

2 MATH 1314 or MATH 1332 satisfy the Core Curriculum requirement for Component Area II (Mathematics).

First Year

Fall	Hours	Spring	Hours
AGRI 1131	1	Component Area III	4
ANSC 1319 & ANSC 1119	4	AGET 2303	3
ENGL 1301[1]	3	ENGL 1302[1]	3
HIST 1301[2]	3	HIST 1302[2]	3
MATH 1314 or 1332[3]	3	PLSC 1307 & PLSC 1107	4
	14		17

Second Year

Fall	Hours	Spring	Hours
Component Area V (PLSC 2399 Recommended)	3	Component Area VIII (ANSC 2360 Recommended)	3
AGBU 2317	3	AGRI, AGBU, ACOM, AGED, AGET, ANSC, EQSC, PLSC, OR WMGT Elective	3
AGRI 1309 or CSTE 1330	3	CHEM 1406[5]	4
MATH 1369 or STAT 1369	3	Minor	3
POLS 2305[4]	3	POLS 2306[4]	3
	15		16

Third Year

Fall	Hours	Spring	Hours
Component Area IV	3	Component Area IX	3
ACOM 3360	3	Component Area IX	1
AGBU 2389 or 3361	3	AGRI, AGBU, ACOM, AGED, AGET, ANSC, EQSC, PLSC, OR WMGT Advanced Elective	3
AGRI, AGBU, ACOM, AGED, AGET, ANSC, EQSC, PLSC, OR WMGT Advanced Elective	3	ANSC 3373	3
Minor	3	Minor	3
	15		13

Fourth Year

Fall	Hours	Spring	Hours
AGRI 4120	1	AGRI 4388	3
AGRI, AGBU, ACOM, AGED, AGET, ANSC, EQSC, PLSC, OR WMGT Advanced Electives	7	AGRI, AGBU, ACOM, AGED, AGET, ANSC, EQSC, PLSC, OR WMGT Advanced Electives	6
PLSC 3440	4	Minor (Advanced)	6

Minor (Advanced)	3	
	15	15

Total Hours: 120

[3] Satisfies Core Curriculum requirement for Component Area II (Mathematics).

[1] Satisfies Core Curriculum requirement for Component Area I (Communications).

[2] Satisfies Core Curriculum requirement for Component Area VI (U.S. History).

[4] Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).

[5] Satisfies Core Curriculum requirement for Component Area III (Life and Physical Science).

Bachelor of Science, Major in Interdisciplinary Agriculture with Teaching Certification

Agriculture, Food, and Natural Resources (AFNR) Teacher Certification

The primary emphasis of the teacher certification program is the preparation of secondary teachers of Agricultural, Food, and Natural Resources (AFNR). Students gain a broad background in the agricultural sciences along with professional preparation courses in agricultural and secondary pedagogy. This comprehensive background prepares students for a wide variety of professional agricultural careers.

The teacher certification option can be chosen with any of the agricultural emphasis majors as shown. Students majoring in interdisciplinary agriculture, agricultural business, animal science, agricultural engineering technology, or horticulture and crop sciences who are seeking AFNR teacher certification should select CISE as their minor.

All students seeking teacher certification must be advised each semester to ensure proper sequencing of classes.

Code	Title	Hours
Bachelor of Science, Major in Interdisciplinary Agriculture with Teaching Certification		
Core Curriculum		
Component Area I (Communication)		6
Component Area II (Mathematics)		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4
Degree Specific Requirements		
AGRI 1309	Computers in Agriculture (or approved substitute)	3
or CSTE 1330	Introduction To Computers	
CHEM 1406	Inorganic & Envir Chemistry [1]	4
MATH 1314	Pre Calculus Algebra [2]	3
or MATH 1332	College Mathematics	
MATH 1369	Elementary Statistics	3
or STAT 1369	Elementary Statistics	
Major Core		
AGBU 2317	Principles Of Agri Economics	3
AGET 2303	Intro to Ag Engineering Tech	3
AGRI 1131	Intro To Pro Leadership Skills	1
ANSC 1319 & ANSC 1119	Animal Science and Animal Science Laboratory	4
PLSC 1307 & PLSC 1107	Plant Science and Plant Science Laboratory	4
Major Core for Certification		
AGBU 2389	Agribusiness Financl Analysis	3

AGED 3310	Teaching Ag Technology	3
AGED 3320	Interdiscip Agr Sci & Technol	3
ACOM 3360	Communication Skills for Agriculturists	3
AGED 4388	Agr Sci & Tech Program Mgt	3
AGET 4381	Adv Agricultural Mechanics	3
ANSC 3373	Animal Nutrition	3
ANSC 4360	Livestock Mgt Techniques	3
Select 3 hours of Animal Science/Equine Science/Wildlife Management:		3
ANSC 3376	Meat Science	
ANSC 4376	Sheep & Goat Production & Mgt	
ANSC 4380	Beef Cattle Production & Mgmt	
EQSC 2364	Equine Science	
PLSC 2399	Floral Design [3]	3
WMGT 3381	Game Animal Production	3
PLSC 3440	Soil Science	4
PLSC 4370	Forage Crops & Pasture Mgmt	3
or PLSC 3395	Plant Propagation Techniques	
Minor		
CISE 3384	The Teaching Profession	3
CISE 4364	Mth Tch Secondary Schools	3
CISE 4378	Content Literacy	3
CISE 4379	Differentiated Pedagogy	3
CISE 4380	Respon Of Pro Educator	3
Secondary Ed Courses - AGED		
AGED 4364	Methds Tchg Agricultural Sci	3
AGED 4365	Std Tchng Agricultural Science	3
AGED 4366	Std Tchng Agricultural Science	3
AGED 4394	Ag. Ed. Learning Environments	3
Total Hours		127

[1] CHEM 1406 satisfies the Core Curriculum requirement for Component Area II (Life and Physical Sciencel and the Degree Specific Requirement.

[2] MATH 1314 or MATH 1332 satisfy Core Curriculum requirement for Component Area II (Mathematics).

[3] PLSC 2399 satisfies the Core Curriculum requirement for Component Area V (Creative Arts), the Degree Specific Requirement, and the major.

First Year

Fall	Hours	Spring	Hours
ANSC 1319 & ANSC 1119	4	AGET 2303	3
AGRI 1131	1	ENGL 1302[1]	3
ENGL 1301[1]	3	HIST 1302[2]	3
HIST 1301[2]	3	MATH 1369 or STAT 1369	3
MATH 1314 or 1332[3]	3	PLSC 1307 & PLSC 1107	4
	14		16

Second Year

Fall	Hours	Spring	Hours
Component Area III	4	Component Area VIII (ANSC 2360 is recommended)	3
AGBU 2317	3	AGBU 2389	3
AGRI 1309 or CSTE 1330	3	CHEM 1406	4

PLSC 2399	3 KINE 2115, NGLI 1101, or ECON 1100	1	
POLS 2305[5]	3 POLS 2306[5]	3	
	16	14	

Third Year

Fall	Hours	Spring	Hours	Summer	Hours
AGET 4381	3	Component Area IX	3	AGED 3310	3
AGED 3320	3	ANSC 4360	3	AGED 4388	3
ANSC 3373	3	CISE 4380	3		
CISE 3384	3	CISE 4378	3		
PLSC 3440	4	WMGT 3381	3		
	16		15		6

Fourth Year

Fall	Hours	Spring	Hours
Component Area IV	3	AGED 4364	3
ACOM 3360	3	AGED 4365	3
CISE 4364	3	AGED 4366	3
CISE 4379	3	AGED 4394	3
PLSC 4370 or 3395	3		
	15		12

Total Hours: 124

1 Satisfies Core Curriculum requirement for Component Area II (Mathematics).

2 Satisfies Core Curriculum requirement for Component Area I (Communications).

3 Satisfies Core Curriculum requirement for Component Area VI (U.S. History).

4 Satisfies Core Curriculum requirement for Component Area V (Creative Arts).

5 Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).

6 Satisfies Core Curriculum requirement for Component Area III (Life and Physical Science).

Bachelor of Science, Agricultural Engineering Technology with Teaching Certification

The purpose of the Agricultural Engineering Technology curriculum is to provide an educational experience based on the fundamentals of engineering principles and practices. Theory-based lectures will be accompanied by experiential learning activities for persons who intend to pursue a career related to the technical operation and management of an agriculture enterprise. It is expected that graduates will choose a position of leadership and responsibility in a career area associated with service and sales, production, processing, product testing, alternative energies, or a government agency.

An internship in an agricultural engineering technology related business or industry is strongly encouraged for each student. This will provide students 'real-life' learning experiences outside their regular classroom and laboratory opportunities. Students generally seek an internship experience at the end of their sophomore or junior year. Internships may be arranged through a student's contact with providers or through departmental announcements or postings. All internships must be approved by the student's departmental academic adviser prior to the initiation of the internship. Maximum credit for the internships is six (6) credit hours.

Code	Title	Hours
Bachelor of Science, Major in Agricultural Engineering Technology with Teaching Certification		
Core Curriculum		
Component Area I (Communication)		6
Component Area II (Mathematics)		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4

Degree Specific Requirements		
ACOM 3360	Communication Skills for Agriculturists (ACOM 3360 recommended)	3
or ENGL 3330	Intro To Technical Writing	
AGRI 1309	Computers in Agriculture (or approved substitute)	3
or CSTE 1330	Introduction To Computers	
CHEM 1406	Inorganic & Envir Chemistry [1]	4
ETDD 1361	Engineering Graphics	3
MATH 1369	Elementary Statistics	3
or STAT 1369	Elementary Statistics	
PHYS 1305 & PHYS 1105	Classical Physics & Thermdynmc and Class Phy & Thermodynamics Lab	4
Major Core		
AGRI 1131	Intro To Pro Leadership Skills	1
AGET 2303	Intro to Ag Engineering Tech	3
ANSC 1319 & ANSC 1119	Animal Science and Animal Science Laboratory	4
PLSC 1307 & PLSC 1107	Plant Science and Plant Science Laboratory	4
Major Core for Teacher Certification		
AGBU 2317	Principles Of Agri Economics	3
AGBU 2389	Agribusiness Financl Analysis	3
AGED 3310	Teaching Ag Technology	3
AGED 3320	Interdiscip Agr Sci & Technol	3
AGED 4388	Agr Sci & Tech Program Mgt	3
ANSC 3373	Animal Nutrition	3
ANSC 4360	Livestock Mgt Techniques	3
Select 3 hours from Animal Science Production Courses		3
ANSC 3376	Meat Science	
ANSC 4376	Sheep & Goat Production & Mgt	
ANSC 4380	Beef Cattle Production & Mgmt	
EQSC 2364	Equine Science	
WMGT 3381	Game Animal Production	
AGET 3380	Agricultural Machinery	
AGET 3386	Agricultural Structures and Environmental Control Systems	3
AGET 4381	Adv Agricultural Mechanics	3
AGET 4387	Agricultural Engines & Tractor	3
PLSC 3440	Soil Science	4
PLSC 4370	Forage Crops & Pasture Mgmt	3
or PLSC 3395	Plant Propagation Techniques	
Minor		
CISE 3384	The Teaching Profession	3
CISE 4364	Mth Tch Secondary Schools	3
CISE 4378	Content Literacy	3
CISE 4379	Differentiated Pedagogy	3
CISE 4380	Respon Of Pro Educator	3
Secondary Ed Courses - AGED		
AGED 4364	Methds Tchg Agricultural Sci	3
AGED 4365	Std Tchng Agricultural Science	3
AGED 4366	Std Tchng Agricultural Science	3
AGED 4394	Ag. Ed. Learning Environments	3
Total Hours		137

[1] CHEM 1406 satisfies the Core Curriculum requirement for Component Area III (Life and Physical Science) and Degree Specific Requirement for major.

Note

Students should use elective and/or minor hours to satisfy the 42 advanced hour requirement.

First Year

Fall	Hours	Spring	Hours
AGET 2303	3	ENGL 1302[1]	3
AGRI 1131	1	HIST 1302[2]	3
ANSC 1319 & ANSC 1119	4	KINE 2115, NGLI 1101, or ECON 1100[4]	1
ENGL 1301[1]	3	PLSC 1307 & PLSC 1107	4
HIST 1301[2]	3	POLS 2305[5]	3
MATH 1314 or 1332[3]	3		
	17		14

Second Year

Fall	Hours	Spring	Hours
AGRI 1309 or CSTE 1330	3	Component Area V	3
AGBU 2317	3	Component Area VIII	3
CHEM 1406[6]	4	ACOM 3360 or ENGL 3330	3
MATH 1369 or STAT 1369	3	AGBU 2389	3
POLS 2306[5]	3	Animal Science Production Course[7]	3
		ETDD 1361	3
	16		18

Third Year

Fall	Hours	Spring	Hours	Summer	Hours
Component Area III	4	Component Area IX	3	AGED 3310	3
ANSC 3373	3	AGET 4387	3	AGED 4388	3
AGED 3320	3	AGET 3386	3	AGET 4381	3
CISE 3384	3	CISE 4378	3	PLSC 3440	4
PHYS 1305 & PHYS 1105	4	CISE 4380	3		
		PLSC 4370 or 3395	3		
	17		18		13

Fourth Year

Fall	Hours	Spring	Hours
Component Area IV	3	AGED 4364	3
ANSC 4360	3	AGED 4365	3
CISE 4364	3	AGED 4366	3
CISE 4379	3	AGED 4394	3
	12		12

Total Hours: 137

[1] Satisfies Core Curriculum requirement for Component Area I (Communication).

[2] Satisfies Core Curriculum requirement for Component Area VI (U.S. History).

[3] Satisfies requirement for Core Curriculum Component Area II (Mathematics).

[4] Satisfies Core Curriculum requirement for Component Area IX (Component Area Option).

[5] Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).

[6] Satisfies four semester credit hours the Core Curriculum requirement for Component Area III (Life and Physical Science).

[7] Animal Science Production Courses: AGET 3380, ANSC 3376, ANSC 4376, ANSC 4380 EQSC 2364, or WMGT 3381.

Bachelor of Science, Major in Agricultural Business

Agribusiness is a program for students interested in management in agriculture. The program includes courses in farm and ranch management, marketing, natural resources, tax planning, budgeting, finance, business organization, and other courses related to business and management. The agribusiness curriculum prepares students for employment in finance, ranch management, business management, state and federal agencies, sales and marketing, and many other fields related to business and economics.

Code	Title	Hours
Bachelor of Science, Major in Agricultural Business		
Core Curriculum		
Component Area I (Communication)		6
Component Area II (Mathematics)		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4
Degree Specific Requirements		
ACOM 3360	Communication Skills for Agriculturists	3
or ENGL 3330	Intro To Technical Writing	
ECON 2301	Principles Of Macroeconomics [1]	3
MATH 1324	Mth For Mngl Decision Making [2]	3
STAT 1369	Elementary Statistics	3
or MATH 1369	Elementary Statistics	
Major Core		
AGRI 1131	Intro To Pro Leadership Skills	1
or UNIV 1301	Intro To Collegiate Studies	
AGRI 1309	Computers in Agriculture (or approved substitute)	3
or CSTE 1330	Introduction To Computers	
ANSC 1319 & ANSC 1119	Animal Science and Animal Science Laboratory	4
PLSC 1307 & PLSC 1107	Plant Science and Plant Science Laboratory	4
AGBU 2317	Principles Of Agri Economics	3
AGBU 2385	Analysis of the Agr Sector	3
AGBU 2389	Agribusiness Financl Analysis	3
AGBU 3361	Agribusiness Org & Mgt	3
AGBU 3367	Agricultural Finance	3
AGBU 3385	Quant Mthds for Agribusiness	3
AGBU 4340	Agribusiness Marketing	3
AGBU 4363	Agricultural Sales & Consulting	3
AGBU 4374	Agr Mkt Analysis & Prices	3
AGBU 4375	Advanced Agribusiness Mgt	3
AGBU 4386	Agriculture & Food Policy	3
Advanced Agribusiness Electives		
Select two courses from the following:		6
AGRI 4364	International Agriculture	
AGBU 4319	Agribusiness Ventures	
AGBU 4365	Legal Issues in Agribusiness	
AGBU 4369	Special Topic	

AGBU 4378	Farm & Ranch Management	
Departmental Electives		
Advanced Electives from: AGRI, AGBU, ACOM, AGET, AGED, ANSC, EQSC, PLSC or WMGT		3
Minor (Required)		
Minor		9
Minor (Advanced)		9
Total Hours		120

1 Satisfies Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).

2 MATH 1324 satisfies the Core Curriculum requirement for Component Area II (Mathematics) and the degree specific requirements.

First Year

Fall	Hours	Spring	Hours
Component Area IX	1	AGRI 1309 or CSTE 1330	3
AGRI 1131 or UNIV 1301	1	ENGL 1302[1]	3
ANSC 1319 & ANSC 1119	4	HIST 1302[2]	3
ENGL 1301[1]	3	MATH 1369 or STAT 1369	3
HIST 1301[2]	3	PLSC 1307 & PLSC 1107	4
MATH 1324[3]	3		
	15		16

Second Year

Fall	Hours	Spring	Hours
Component Area III	4	Component Area III	4
AGBU 2317	3	Component Area V	3
AGBU 2385	3	AGBU 2389	3
ECON 2301[4]	3	POLS 2306[5]	3
POLS 2305[5]	3	Minor Course	3
	16		16

Third Year

Fall	Hours	Spring	Hours
Component Area IV	3	Component Area IX	3
AGBU 3361	3	ACOM 3360 or ENGL 3330	3
AGBU 3367	3	AGBU 4340	3
AGBU 3385	3	AGBU Advanced Elective[6]	3
Minor Course	3	Minor Course	3
	15		15

Fourth Year

Fall	Hours	Spring	Hours
AGBU 4374	3	AGBU 4375	3
AGBU 4386	3	AGBU Advanced Elective	3
AGBU 4363	3	Minor Advanced Courses	6
Advanced Electives From: AGBU, AGED, AGET, AGRI, ANSC, EQSC, PLSC or WGMT	3		
Minor Advanced Course	3		
	15		12

Total Hours: 120

1 Satisfies Core Curriculum requirement for Component Area I (Communications).

2 Satisfies Core Curriculum requirement for Component Area VI (U.S. History).

3 Satisfies Core Curriculum requirement for Component Area II (Mathematics).

4 Satisfies Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).

[5] Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).

[6] AGBU Advance Electives: AGRI 4364, AGBU 4319, AGBU 4365, AGBU 4369, AGBU 4378

Bachelor of Science, Major in Agricultural Business with Teaching Certification

Agriculture, Food, and Natural Resources (AFNR) Teacher Certification

The primary emphasis of the teacher certification program is the preparation of secondary teachers of Agricultural, Food, and Natural Resources (AFNR). Students gain a broad background in the agricultural sciences along with professional preparation courses in agricultural and secondary pedagogy. This comprehensive background prepares students for a wide variety of professional agricultural careers.

The teacher certification option can be chosen with any of the agricultural emphasis majors as shown. Students majoring in interdisciplinary agriculture, agricultural business, animal science, agricultural engineering technology, or horticulture and crop sciences who are seeking AFNR teacher certification should select CISE as their minor.

All students seeking teacher certification must be advised each semester to ensure proper sequencing of classes.

Code	Title	Hours
Bachelor of Science, Major in Agricultural Business with Teaching Certification		
Core Curriculum		
Component Area I (Communication)		6
Component Area II (Mathematics)		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4
Degree Specific Requirements		
ACOM 3360	Communication Skills for Agriculturists	3
AGRI 1309	Computers in Agriculture (or approved substitute)	3
or CSTE 1330	Introduction To Computers	
CHEM 1406	Inorganic & Envir Chemistry [1]	4
MATH 1324	Mth For Mngl Decision Making [2]	3
STAT/MATH 1369	Elementary Statistics	3
Major Core		
AGBU 2317	Principles Of Agri Economics	3
AGBU 2385	Analysis of the Agr Sector	3
AGBU 2389	Agribusiness Financl Analysis	3
AGBU 3367	Agricultural Finance	3
AGBU 4340	Agribusiness Marketing	3
AGBU 4363	Agricultural Sales & Consulting	3
AGRI 1131	Intro To Pro Leadership Skills	1
or UNIV 1301	Intro To Collegiate Studies	
ANSC 1319 & ANSC 1119	Animal Science and Animal Science Laboratory	4
PLSC 1307 & PLSC 1107	Plant Science and Plant Science Laboratory	4
Major Core for Certification		
AGED 3310	Teaching Ag Technology	3
AGED 3320	Interdiscip Agr Sci & Technol	3
AGED 4388	Agr Sci & Tech Program Mgt	3
AGET 4381	Adv Agricultural Mechanics	3

AGET 2303	Intro to Ag Engineering Tech	3
ANSC 3373	Animal Nutrition	3
ANSC 4360	Livestock Mgt Techniques	3
PLSC 3440	Soil Science	4
PLSC 4370	Forage Crops & Pasture Mgmt	3
or PLSC 3395	Plant Propagation Techniques	
Select one from the following:		3
ANSC 3376	Meat Science	
ANSC 4376	Sheep & Goat Production & Mgt	
ANSC 4380	Beef Cattle Production & Mgmt	
EQSC 2364	Equine Science	
WMGT 3381	Game Animal Production	
Minor (if required)		
CISE 3384	The Teaching Profession	3
CISE 4364	Mth Tch Secondary Schools	3
CISE 4378	Content Literacy	3
CISE 4379	Differentiated Pedagogy	3
CISE 4380	Respon Of Pro Educator	3
Secondary Ed Courses - AGED		
AGED 4364	Methds Tchg Agricultural Sci	3
AGED 4365	Std Tchng Agricultural Science	3
AGED 4366	Std Tchng Agricultural Science	3
AGED 4394	Ag. Ed. Learning Environments	3
Total Hours		136

[1] CHEM 1406 satisfies the Core Curriculum requirement for Component Area III (Life and Physical Science) and the Degree Specific requirement.

[2] MATH 1324 satisfies Core Curriculum requirement for Component Area II (Mathematics) and the Degree Specific requirement.

First Year

Fall	Hours	Spring	Hours
AGET 2303	3	AGRI 1309 or CSTE 1330	3
AGRI 1131	1	ENGL 1302[1]	3
ANSC 1319 & ANSC 1119	4	HIST 1302[2]	3
ENGL 1301[1]	3	MATH 1369 or STAT 1369	3
HIST 1301[2]	3	PLSC 1307 & PLSC 1107	4
MATH 1324[3]	3		
	17		16

Second Year

Fall	Hours	Spring	Hours
Component Area VIII	3	Component Area iii	4
AGBU 2317	3	Component Area iv	3
AGBU 2385	3	Component Area v	3
CHEM 1406[4]	4	AGBU 2389	3
POLS 2305[5]	3	KINE 2115, NGLI 1101, or ECON 1100[6]	1
		POLS 2306[5]	3
	16		17

Third Year

Fall	Hours Spring	Hours Summer	Hours
ACOM 3360 or ENGL 3330	3 AGBU 4340	3 AGED 3310	3
AGED 3320	3 ANSC 3373	3 AGED 4388	3
AGBU 3361	3 Animal Science Production Course [7]	3 AGET 4381	3
AGBU 4363	3 CISE 4378	3 Component Area 9	3
CISE 3384	3 CISE 4380	3	
	15	15	12

Fourth Year

Fall	Hours Spring	Hours
ANSC 4360	3 AGED 4364	3
CISE 4364	3 AGED 4365	3
CISE 4379	3 AGED 4366	3
PLSC 4370 or 3395	3 AGED 4394	3
PLSC 3440	4	
	16	12

Total Hours: 136

1 Satisfies Core Curriculum requirement for Component Area I (Communications).

2 Satisfies Core Curriculum requirement for Component Area VI (U.S. History).

3 Satisfies Core Curriculum requirement for Component Area II (Mathematics).

4 Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).

5 Satisfies Core Curriculum requirement for Component Area III (Life and Physical Science).

Bachelor of Science, Major in Agricultural Communications

This program is designed to meet the needs of students desiring a program of study in agricultural journalism, media (electronic, social, broadcast), public relations, advertising, or several other fields of study. While no minor is required, advanced elective courses permit the student to have a stronger concentration in a particular area of interest to them.

Code	Title	Hours
Bachelor of Science, Major in Agricultural Communications		
Core Curriculum		
Component Area I (Communication)		6
Component Area II (Mathematics)		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4
Degree Specific Requirements		
AGRI 1309	Computers in Agriculture (or approved substitute)	3
or CSTE 1330	Introduction To Computers	
MATH 1324	Mth For Mngl Decision Making [1]	3
MATH 1369	Elementary Statistics	3
or STAT 1369	Elementary Statistics	
Major Core		
AGBU 2317	Principles Of Agri Economics	3
AGRI 1131	Intro To Pro Leadership Skills	1

ANSC 1319 & ANSC 1119	Animal Science and Animal Science Laboratory	4
PLSC 1307 & PLSC 1107	Plant Science and Plant Science Laboratory	4
Major		
ACOM 3360	Communication Skills for Agriculturists	3
AGBU 2385	Analysis of the Agr Sector	3
AGBU 3361	Agribusiness Org & Mgt	3
AGBU 4340	Agribusiness Marketing	3
or AGBU 4363	Agricultural Sales & Consulting	
or AGBU 4386	Agriculture & Food Policy	
AGRI 4120	Professional Career Skills	1
AGRI 4388	Prin Agr Ldrship Comm Develop	3
ANSC 3363	Anatomy & Physiology of the Domestic Animal	3
ANSC 3376	Meat Science	3
5 hours Advanced Electives from: AGRI, AGBU, ACOM, AGET, AGED, ANSC, EQSC, PLSC or WMGT		5
MCOM Courses		
MCOM 1330	Analysis of Electronic Culture	3
MCOM 1332	Writing For Mass Media	3
MCOM 1371	Audio Production & Performance	3
MCOM 2381	Visual Communication for Media	3
MCOM 2382	Design for PR & Advertising	3
MCOM 3381	Principles Of Public Relations	3
MCOM 3383	Writing for PR & Advertising	3
MCOM 3388	Sales and Marketing	3
MCOM 4365	Online Journalism	3
MCOM 4371	Mass Media Law And Ethics	3
MCOM 3000-4000 Electives		3
Minor (If Required)		
Total Hours		120

[1] Math 1324 satisfies the requirements for Component Area II and the degree specific requirements.

First Year

Fall	Hours	Spring	Hours
AGRI 1131	1	AGBU 2317	3
ANSC 1319 & ANSC 1119	4	ENGL 1302[1]	3
ENGL 1301[1]	3	HIST 1301[3]	3
MATH 1324[2]	3	MCOM 1332	3
MCOM 1330	3	PLSC 1307 & PLSC 1107	4
	14		16

Second Year

Fall	Hours	Spring	Hours
Component Area IX	1	ACOM 3360	3
AGBU 2385	3	MATH 1369 or STAT 1369	3
AGRI 1309 or CSTE 1330	3	MCOM 2381	3
HIST 1302[3]	3	MCOM 2382	3
MCOM 1371	3	POLS 2306[4]	3
POLS 2305[4]	3		
	16		15

Third Year

Fall	Hours	Spring	Hours
Component Area III	4	Component Area III	4
Component Area IV	3	AGBU 3361	3
Component Area V	3	ANSC 3376	3
ANSC 3363	3	MCOM 3383	3
MCOM 3381	3	MCOM 3388	3
	16		16

Fourth Year

Fall	Hours	Spring	Hours
Component Area IX	3	Component Area VIII	3
AGRI, AGBU, ACOM, AGED, AGET, ANSC, EQSC, PLSC, or WMGT Advanced Elective	3	AGRI 4388	3
AGRI 4120	1	AGRI, AGBU ACOM, AGED, AGET, ANSC, EQSC, PLSC or WMGT Advanced Elective	2
AGBU 4340, 4363, or 4386	3	MCOM 4365	3
MCOM 4371	3	MCOM Advanced Elective	3
	13		14

Total Hours: 120

1 Satisfies Core Curriculum requirement of Component Area I (Communications).

2 Satisfies Core Curriculum requirement of Component Area II (Mathematics).

3 Satisfies Core Curriculum requirement of Component Area VI (U.S. History).

4 Satisfies Core Curriculum requirement of Component Area VII (Political Science/Government).

Bachelor of Science, Major in Agricultural Engineering Technology

The purpose of the Agricultural Engineering Technology curriculum is to provide an educational experience based on the fundamentals of engineering principles and practices. Theory-based lectures will be accompanied by experiential learning activities for persons who intend to pursue a career related to the technical operation and management of an agriculture enterprise. It is expected that graduates will choose a position of leadership and responsibility in a career area associated with service and sales, production, processing, product testing, alternative energies, or a government agency.

An internship in an agricultural engineering technology related business or industry is strongly encouraged for each student. This will provide students 'real-life' learning experiences outside their regular classroom and laboratory opportunities. Students generally seek an internship experience at the end of their sophomore or junior year. Internships may be arranged through a student's contact with providers or through departmental announcements or postings. All internships must be approved by the student's departmental academic adviser prior to the initiation of the internship. Maximum credit for the internships is six (6) credit hours.

Code	Title	Hours
Bachelor of Science, Major in Agricultural Engineering Technology		
Core Curriculum		
Component Area I (Communication)		6
Component Area II (Mathematics)		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4
Degree Specific Requirements		
ACCT 2301	Principles Of Financial Acc	3
or ACCT 2302	Principles Of Managerial Acc	
ACOM 3360	Communication Skills for Agriculturists	3
AGRI 1309	Computers in Agriculture (or approved substitute)	3

or CSTE 1330	Introduction To Computers	
ETDD 1361	Engineering Graphics	3
MATH 1369	Elementary Statistics	3
or STAT 1369	Elementary Statistics	
MGMT 3310	Principles Of Management (or approved BUAD, AGBU (advanced))	3
PHYS 1305 & PHYS 1105	Classical Physics & Thermdynmc and Class Phy & Thermodynamics Lab	4
Major Core		
AGET 2303	Intro to Ag Engineering Tech	3
AGRI 1131	Intro To Pro Leadership Skills	1
ANSC 1319 & ANSC 1119	Animal Science and Animal Science Laboratory	
PLSC or ANSC Electives - Select one from the following:		4
PLSC 1307 & PLSC 1107	Plant Science and Plant Science Laboratory	
Major Core		
AGBU 2317	Principles Of Agri Economics	3
or AGBU 2389	Agribusiness Financl Analysis	
AGRI 4120	Professional Career Skills	1
Approved Agricultural Engineering Technology electives, including internship hours.		26
Minor		
Minor		9
Minor (Advanced)		9
Total Hours		120

Note

Students should use elective and/or minor hours to satisfy the 42 advanced hour requirement.

First Year

Fall	Hours	Spring	Hours
Component Area I	3	Component Area I	3
Component Area II	3	Component Area III	4
AGET 2303	3	Component Area VI	3
AGRI 1131	1	Component Area VII	3
AGRI 1309 or CSTE 1330	3	PLSC 1307 & PLSC 1107	4
	13		17

Second Year

Fall	Hours	Spring	Hours
Component Area VI	3	ACCT 2301 or 2302	3
Component Area VIII	3	ETDD 1361	3
AGBU 2317 or 2389	3	Component Area III	4
MATH 1369 or STAT 1369	3	Component Area IV	3
Minor	3	Component Area V	3
	15		16

Third Year

Fall	Hours	Spring	Hours
Component Area VII	3	AGET Advanced Electives	6
Component Area IX	4	MGMT 3310 (or Advanced AGBU Elective)	3
AGET Advanced Elective	3	Minor Advanced Courses	6
PHYS 1305 & PHYS 1105	4		
	14		15

Fourth Year

Fall	Hours	Spring	Hours
ACOM 3360 or ENGL 3330	3	AGET Advanced Electives	8
AGET Advanced Electives	9	AGRI 4120	1
Minor Advanced Course	3	Minor	6
	15		15

Total Hours: 120

Bachelor of Science, Major in Animal Science

The major emphasis in Animal Science prepares students for careers in the livestock and equine production and support industries. Scientific principles, management, production technologies, and skills are covered in appropriate courses. The University maintains herds and flocks for teaching and research. Students may complete pre-veterinary medicine, equine science, wildlife management and conservation biology requirements under the Animal Science program. Graduates can expect to qualify for positions in sales and service, inspection, regulation, research/teaching, breed associations, extension, or management in an animal, equine and/or wildlife management industry.

Code	Title	Hours
Bachelor of Science, Major in Animal Science		
Core Curriculum		
Component Area I (Communication)		6
Component Area II (Mathematics)		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4
Degree Specific Requirements		
ACOM 3360	Communication Skills for Agriculturists	3
or ENGL 3330	Intro To Technical Writing	
AGRI 1309	Computers in Agriculture (or approved substitute)	3
or CSTE 1330	Introduction To Computers	
CHEM 1406	Inorganic & Envir Chemistry [1]	4
or CHEM 1411	General Chemistry I	
CHEM 1407	Intro Organic and Biochemistry [1]	4
or CHEM 1412	General Chemistry II	
COMS 1361	Public Speaking [2]	3
or COMS 2382	Comm. for Bus. & Professions	
MATH 1369	Elementary Statistics	3
or STAT 1369	Elementary Statistics	
Major Core		
ANSC 1319 & ANSC 1119	Animal Science and Animal Science Laboratory	4
ANSC 2360	Animals And Society [3]	3
ANSC 3363	Anatomy & Physiology of the Domestic Animal	3
ANSC 3373	Animal Nutrition	3
ANSC 3376	Meat Science	3
ANSC 4395	Animal Breeding & Genetics	3
ANSC 4389	Animal Reproduction	3
ANSC 4394	Animal Feeds And Feeding	3
PLSC 4370	Forage Crops & Pasture Mgmt	3
or PLSC 4383	Range Management	
Additional Major Courses		

AGRI 1131	Intro To Pro Leadership Skills	1
PLSC 1307 & PLSC 1107	Plant Science and Plant Science Laboratory	4
AGRI 4120	Professional Career Skills	1
Select 3 hours from the following:		3
AGBU 2317	Principles Of Agri Economics	
AGBU 2389	Agribusiness Financl Analysis	
Animal Science Electives		
Select 17 hours (9 hours must be advanced) from: ANSC, EQSC or WMGT Electives		17
Minor		6
Minor (Advanced)		12
Total Hours		120

1 CHEM 1406, CHEM 1411, CHEM 1407 and CHEM 1412 satisfy the Core Curriculum requirements for Component Area III (Life and Physical Science) and the Degree Specific Requirement.

2 COMS 1361 and COMS 2382 satisfy three semester credit hours of the Core Curriculum requirement for Component Area IX (Component Area Option) and the Degree Specific Requirement.

3 ANSC 2360 satisfies the Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences) and the major.

Students should use elective and/or minor hours to satisfy the 42 advanced hour requirement.

First Year

Fall	Hours	Spring	Hours
Component Area I	3	Component Area I	3
Component Area II	3	Component Area IV	3
Component Area IX	1	ANSC 2360[1]	3
AGRI 1131	1	AGRI 1309 or CSTE 1330	3
ANSC 1319 & ANSC 1119	4	CHEM 1406 or 1411[2]	4
Minor Course	3		
	15		16

Second Year

Fall	Hours	Spring	Hours
Component Area V	3	Component Area VI	3
Component Area VI	3	Component Area VII	3
ANSC 3363	3	ANSC 3373	3
CHEM 1407 or 1412[2]	4	ANSC Electives (ANSC, EQSC, WMGT)	3
Minor Course	3	COMS 1361 or 2382[3]	3
	16		15

Third Year

Fall	Hours	Spring	Hours
Component Area VII	3	ACOM 3360 or ENGL 3330	3
ANSC 3376	3	AGBU 2317 or 2389	3
ANSC 4395	3	ANSC 4389	3
ANSC Elective (ANSC, EQSC, WMGT)	3	MATH 1369 or STAT 1369	3
		PLSC 1307 & PLSC 1107	4
	12		16

Fourth Year

Fall	Hours	Spring	Hours
AGRI 4120	1	ANSC Electives (ANSC, EQSC, WMGT)	5
ANSC 4394	3	Minor Advanced Courses	9
ANSC Electives (ANSC, EQSC, WMGT)	6		
Minor Advanced Course	3		

PLSC 4370 or 4383	3	
	16	14

Total Hours: 120

1 Satisfies Core Curriculum requirement for Component Area VII (Social and Behavioral Sciences).

2 Satisfies Core Curriculum requirement for Component Area III (Life and Physical Science).

3 Satisfies three semester credit hours of the Core Curriculum requirement for Component Area IX (Component Area Option).

Bachelor of Science, Animal Science, Minor in Conservation Biology

The animal science major with conservation biology option is an excellent choice for those students wanting to enter agricultural and wildlife resource management careers or for those interested in graduate school in wildlife sciences. Students selecting this degree should indicate Animal Science as their major and WECO as their minor.

Code	Title	Hours
Bachelor of Science, Animal Science, Minor in Conservation Biology		
Core Curriculum		
Component Area I (Communication)		6
Component Area II (Mathematics)		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4
Degree Specific Requirements		
ACOM 3360	Communication Skills for Agriculturists	3
or ENGL 3330	Intro To Technical Writing	
AGRI 1309	Computers in Agriculture (or approved substitute)	3
or CSTE 1330	Introduction To Computers	
COMS 1361	Public Speaking [1]	3
or COMS 2382	Comm. for Bus. & Professions	
MATH 1369	Elementary Statistics	3
or STAT 1369	Elementary Statistics	
Major Core		
ANSC 1319 & ANSC 1119	Animal Science and Animal Science Laboratory	4
ANSC 3363	Anatomy & Physiology of the Domestic Animal	3
ANSC 3373	Animal Nutrition	3
ANSC 3376	Meat Science	3
ANSC 4389	Animal Reproduction	3
ANSC 4394	Animal Feeds And Feeding	3
ANSC 4395	Animal Breeding & Genetics	3
PLSC 4370	Forage Crops & Pasture Mgmt	3
PLSC 4383	Range Management	3
Major		
Select one from the following:		3
AGBU 2317	Principles Of Agri Economics	
AGBU 2389	Agribusiness Financl Analysis	
AGRI 1131	Intro To Pro Leadership Skills	1
AGRI 4120	Professional Career Skills	1
WMGT 3381	Game Animal Production	3
Animal Science Electives [2]		

Select 11 hours from: ANSC, EQSC or WMGT		11
Minor		
BIOL 1411	General Botany [3]	4
BIOL 1413	General Zoology [3]	4
CHEM 1411	General Chemistry I [3]	4
CHEM 1412	General Chemistry II [3]	4
BIOL 3409	General Ecology	4
BIOL 3364	Plant Taxonomy	3
BIOL 3461	Fish Wildlife Recreation Mngt	4
Select one from the following:		3
BIOL 4330	Aquatic Biology	
BIOL 4430	Vertebrate Natural History	
BIOL 4470	Animal Behavior	
Total Hours		120

1 COMS 1361 or COMS 2382 satisfies three hours of Component Area IX and degree specific area.

2 Students should use major elective hours to satisfy the 42 advanced hour requirement.

3 BIOL 1411, BIOL 1413, CHEM 1411, and CHEM 1412 satisfy the Core Curriculum requirement for Component Area III (Life and Physical Science) and the minor requirement.

First Year

Fall	Hours	Spring	Hours
Component Area I	3	Component Area I	3
Component Area II	3	Component Area IV	3
Component Area IX	1	AGRI 1309 or CSTE 1330	3
AGRI 1131	1	CHEM 1411[1]	4
ANSC 1319 & ANSC 1119	4	MATH 1369 or STAT 1369	3
BIOL 1411[1]	4		
	16		16

Second Year

Fall	Hours	Spring	Hours
Component Area V	3	Component Area VI	3
Component Area VI	3	Component Area VII	3
ANSC 3363	3	Component Area VIII	3
BIOL 1413	4	ANSC 3373	3
CHEM 1412	4	COMS 1361 or 2382[2]	3
	17		15

Third Year

Fall	Hours	Spring	Hours
Component Area VII	3	ACOM 3360 or ENGL 3330	3
ANSC 3376	3	AGBU 2317 or 2389	3
ANSC 4395	3	ANSC 4389	3
ANSC Elective (ANSC, EQSC, WMGT)	3	PLSC 4383	3
		WMGT 3381	3
	12		15

Fourth Year

Fall	Hours	Spring	Hours
AGRI 4120	1	ANSC Elective (ANSC, EQSC, WMGT)	2
ANSC 4394	3	BIOL 3461	4
ANSC Elective (ANSC, EQSC, WMGT)	6	BIOL 3364	3
BIOL 3409	4	BIOL 4330, 4430, or 4470	3

PLSC 4370	3	
	17	12

Total Hours: 120

[1] Satisfies Core Curriculum requirement for Component Area III (Life and Physical Science).

[2] Satisfies Core Curriculum requirement for Component Area IX (Component Area Option).

Bachelor of Science, Animal Science, Minor in Wildlife Management

Code	Title	Hours
Bachelor of Science, Animal Science, Minor in Wildlife Management		
Core Curriculum		
Component Area I (Communication)		6
Component Area II (Mathematics)		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4
Degree Specific Requirements		
ACOM 3360	Communication Skills for Agriculturists	3
or ENGL 3330	Intro To Technical Writing	
AGRI 1309	Computers in Agriculture (or approved substitute)	3
or CSTE 1330	Introduction To Computers	
CHEM 1406	Inorganic & Envir Chemistry [1]	4
or CHEM 1411	General Chemistry I	
CHEM 1407	Intro Organic and Biochemistry [1]	4
or CHEM 1412	General Chemistry II	
COMS 1361	Public Speaking [2]	3
or COMS 2382	Comm. for Bus. & Professions	
MATH 1369	Elementary Statistics	3
or STAT 1369	Elementary Statistics	
Major Core		
ANSC 1319 & ANSC 1119	Animal Science and Animal Science Laboratory	4
ANSC 2360	Animals And Society [3]	3
ANSC 3363	Anatomy & Physiology of the Domestic Animal	3
ANSC 3373	Animal Nutrition	3
ANSC 3376	Meat Science	3
ANSC 4389	Animal Reproduction	3
ANSC 4394	Animal Feeds And Feeding	3
ANSC 4395	Animal Breeding & Genetics	3
PLSC 4383	Range Management	3
Major		
AGRI 1131	Intro To Pro Leadership Skills	1
AGRI 4120	Professional Career Skills	1
PLSC 1307 & PLSC 1107	Plant Science and Plant Science Laboratory	4
Select one from the following:		3
AGBU 2317	Principles Of Agri Economics	
AGBU 2389	Agribusiness Financl Analysis	

Animal Science Electives		
Select 17 hours from: ANSC, EQSC or WMGT (9 hours must be advanced)		17
Minor		
WMGT 2301	Principles of Wildlife Mgmt	3
WMGT 3301	Wildlife Ranch Management	3
Select 12 hours from the following (6 hours must be advanced):		12
WMGT 3381	Game Animal Production	
WMGT 3382	Habitat & Pond Management	
WMGT 4301	Cervid Breeding and Production	
WMGT 4302	Cervid Management	
WMGT 4369	Special Topic	
Total Hours		120

1 CHEM 1406, CHEM 1407, CHEM 1411, and CHEM 1412 satisfy the Core Curriculum requirements for Component Area III (Life and Physical Science) and the Degree Specific Requirement.

2 COMS 1361 or COMS 2382 satisfies three semester credit hours of the Core Curriculum requirement for Component Area IX (Component Area Option) and the Degree Specific Requirement.

3 ANSC 2360 satisfies the Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences) and the major.

NOTES: Students should use major elective hours to satisfy the 42 advanced hour requirement.

First Year

Fall	Hours	Spring	Hours
Component Area I	3	Component Area I	3
Component Area II	3	Component Area IV	3
Component Area IX	1	AGRI 1309 or CSTE 1330	3
AGRI 1131	1	ANSC 2360[1]	3
ANSC 1319 & ANSC 1119	4	CHEM 1406 or 1411[2]	4
WMGT 2301	3		
	15		16

Second Year

Fall	Hours	Spring	Hours
Component Area V	3	Component Area VI	3
Component Area VI	3	Component Area VII	3
ANSC 3363	3	ANSC 3373	3
CHEM 1407 or 1412[2]	4	ANSC Elective (ANSC, EQSC, WMGT)	3
WMGT 3301	3	COMS 1361 or 2382[3]	3
	16		15

Third Year

Fall	Hours	Spring	Hours
Component Area VII	3	ACOM 3360 or ENGL 3330	3
ANSC 3376	3	AGBU 2317 or 2389	3
ANSC 4395	3	ANSC 4389	3
ANSC Electives (ANSC, EQSC, WMGT)	6	MATH 1369 or STAT 1369	3
		PLSC 1307 & PLSC 1107	4
	15		16

Fourth Year

Fall	Hours	Spring	Hours
AGRI 4120	1	ANSC Electives (ANSC, EQSC, WMGT)	5
ANSC Electives (ANSC, EQSC, WMGT)	3	Minor Electives	9
ANSC 4394	3		
Minor Elective	3		

PLSC 4383	3	
	13	14

Total Hours: 120

1 Satisfies Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).

2 Satisfies Core Curriculum requirement for Component Area III (Life and Physical Science).

3 Satisfies three semester credit hours of the Core Curriculum requirement for Component Area IX (Component Area Option).

Bachelor of Science, Major in Animal Science with Teaching Certification

Agriculture, Food, and Natural Resources (AFNR) Teacher Certification

The primary emphasis of the teacher certification program is the preparation of secondary teachers of Agricultural, Food, and Natural Resources (AFNR). Students gain a broad background in the agricultural sciences along with professional preparation courses in agricultural and secondary pedagogy. This comprehensive background prepares students for a wide variety of professional agricultural careers.

The teacher certification option can be chosen with any of the agricultural emphasis majors as shown. Students majoring in interdisciplinary agriculture, agricultural business, animal science, agricultural engineering technology, or horticulture and crop sciences who are seeking AFNR teacher certification should select CISE as their minor.

All students seeking teacher certification must be advised each semester to ensure proper sequencing of classes.

Code	Title	Hours
Bachelor of Science, Major in Animal Science with Teaching Certification		
Core Curriculum		
Component Area I (Communication)		6
Component Area II (Mathematics)		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4
Degree Specific Requirements		
ACOM 3360	Communication Skills for Agriculturists	3
AGRI 1309	Computers in Agriculture (or approved substitute)	3
or CSTE 1330	Introduction To Computers	
CHEM 1406	Inorganic & Envir Chemistry [1]	4
or CHEM 1411	General Chemistry I	
CHEM 1407	Intro Organic and Biochemistry [1]	4
or CHEM 1412	General Chemistry II	
MATH 1369	Elementary Statistics	3
or STAT 1369	Elementary Statistics	
Major Core		
AGBU 2317	Principles Of Agri Economics	3
AGET 2303	Intro to Ag Engineering Tech	3
AGRI 1131	Intro To Pro Leadership Skills	1
ANSC 1319 & ANSC 1119	Animal Science and Animal Science Laboratory	4
ANSC 3363	Anatomy & Physiology of the Domestic Animal	3
ANSC 3373	Animal Nutrition	3
ANSC 3376	Meat Science	3
ANSC 4389	Animal Reproduction	3
ANSC 4394	Animal Feeds And Feeding	3

PLSC 1307 & PLSC 1107	Plant Science and Plant Science Laboratory	4
Major Core for Certification		
AGBU 2389	Agribusiness Financl Analysis	3
AGED 3310	Teaching Ag Technology	3
AGED 3320	Interdiscip Agr Sci & Technol	3
AGED 4388	Agr Sci & Tech Program Mgt	3
AGET 4381	Adv Agricultural Mechanics	3
Select one from the following (Animal Science Production):		3
EQSC 2364	Equine Science	
ANSC 4360	Livestock Mgt Techniques	
ANSC 4376	Sheep & Goat Production & Mgt	
ANSC 4380	Beef Cattle Production & Mgmt	
WMGT 3381	Game Animal Production	
PLSC 3440	Soil Science	4
PLSC 4370	Forage Crops & Pasture Mgmt	3
or PLSC 4383	Range Management	
Minor (if required)		
CISE 3384	The Teaching Profession	3
CISE 4364	Mth Tch Secondary Schools	3
CISE 4378	Content Literacy	3
CISE 4379	Differentiated Pedagogy	3
CISE 4380	Respon Of Pro Educator	3
Secondary Ed Courses - AGED		
AGED 4364	Methds Tchg Agricultural Sci	3
AGED 4365	Std Tchng Agricultural Science	3
AGED 4366	Std Tchng Agricultural Science	3
AGED 4394	Ag. Ed. Learning Environments	3
Total Hours		133

[1] CHEM 1406 and CHEM 1407 satisfy the Core Curriculum requirement for Component Area III (Life and Physical Science) and the Degree Specific Requirement.

First Year

Fall	Hours	Spring	Hours
Component Area IX	1	AGRI 1309 or CSTE 1330	3
AGET 2303	3	CHEM 1406 or 1411[3]	4
AGRI 1131	1	ENGL 1302[1]	3
ANSC 1319 & ANSC 1119	4	HIST 1301[4]	3
ENGL 1301[1]	3	MATH 1369 or STAT 1369	3
MATH 1314 or 1332[2]	3		
	15		16

Second Year

Fall	Hours	Spring	Hours
Component Area V	3	Component Area IV	3
AGBU 2317	3	Component Area VIII	3
ANSC 3363	3	ANSC 3373	3
CHEM 1407 or 1412[3]	4	POLS 2305[5]	3
HIST 1302[4]	3	PLSC 1307 & PLSC 1107	4
	16		16

Third Year

Fall	Hours	Spring	Hours	Summer	Hours
ANSC 3376	3	ACOM 3360	3	Component Area IX	3
AGBU 2389	3	ANSC 4389	3	PLSC 3440	4
AGED 3320	3	CISE 4378	3	AGED 3310	3
CISE 3384	3	CISE 4380	3	AGED 4388	3
POLS 2306[5]	3	PLSC 4370 or 4383	3		
	15		15		13

Fourth Year

Fall	Hours	Spring	Hours
AGET 4381	3	AGED 4364	3
Animal Science Production Course	3	AGED 4365	3
ANSC 4394	3	AGED 4366	3
CISE 4364	3	AGED 4394	3
CISE 4379	3		
	15		12

Total Hours: 133

1 Satisfies Core Curriculum requirement for Component Area I (Communication).

2 Satisfies requirement for Core Curriculum Component Area II (Mathematics).

3 Satisfies the Core Curriculum requirement fo Component Area III (Life and Physical Science).

4 Satisfies Core Curriculum requirement for Component Area VI (U.S. History).

5 Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).

6 Animal Science Production Courses: AGET 3380, ANSC 3376, ANSC 4376, ANSC 4380 EQSC 2364, or WMGT 3381.

Bachelor of Science, Major in Animal Science, Pre-Veterinary Medicine

Code	Title	Hours
Bachelor of Science, Major in Animal Science, Pre-Veterinary Medicine		
Core Curriculum		
Component Area I (Communication)		6
Component Area II (Mathematics)		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4
Degree Specific Requirements		
COMS 1361	Public Speaking [1]	3
or COMS 2382	Comm. for Bus. & Professions	
ENGL 3330	Intro To Technical Writing	3
MATH 1316	Plane Trigonometry [2]	3
PSYC 1301	Introduction To Psychology [3,4]	3
STAT 3379	Statistical Methds In Practice	3
UNIV 1301	Intro To Collegiate Studies	3
Major Core		
AGRI 4120	Professional Career Skills	1
Select one from the following:		3
AGRI 4350	Agricultural Biosecurity	

ANSC 2330	Companion Animal Science (Students who choose this course must take an additional 2 hours of advanced coursework.)	
ANSC 4398	Animal Diseases & Public Hlth	
ANSC 1319 & ANSC 1119	Animal Science and Animal Science Laboratory	4
ANSC 3363	Anatomy & Physiology of the Domestic Animal	3
ANSC 3373	Animal Nutrition	3
ANSC 3376	Meat Science	3
ANSC 4389	Animal Reproduction	3
ANSC 4394	Animal Feeds And Feeding	3
ANSC 4395	Animal Breeding & Genetics	3
PLSC 4370	Forage Crops & Pasture Mgmt	3
or PLSC 4383	Range Management	
Minor		
BIOL 1411	General Botany [5]	4
BIOL 1413	General Zoology [5]	4
BIOL 2440	Introductory Cell Biology	4
BIOL 3450	Introductory Genetics	4
BIOL 3470	General Microbiology	4
CHEM 1411	General Chemistry I [5]	4
CHEM 1412	General Chemistry II [5]	4
CHEM 2323 & CHEM 2123	Organic Chemistry I: Lecture and Organic Chemistry I Lab	4
CHEM 2325 & CHEM 2125	Organic Chemistry II: Lecture and Organic Chemistry II: Lab	4
CHEM 3438	Biochemistry I	4
PHYS 1301 & PHYS 1101	General Phy-Mechanics & Heat and General Physics Laboratory I	4
PHYS 1302 & PHYS 1102	Gen Phy-Snd,Lght, Elec, & Mag and General Physics Laboratory II	4
Total Hours		120

1 COMS 1361 or COMS 2382 satisfies the requirement for Component Area IX and degree specific requirement.

2 MATH 1316 satisfies the Core Curriculum requirement for Component Area II (Mathematics) and the Degree Specific Requirement.

3 PSYC 1301 satisfies the Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences) and the Degree Specific Requirement.

4 Satisfies prerequisite requirements for Veterinary Medicine.

5 BIOL 1411, BIOL 1413, CHEM 1411, and CHEM 1412 satisfy the Core Curriculum requirement for Component Area III (Life and Physical Science) and the minor requirement.

First Year

Fall	Hours	Spring	Hours
ANSC 1319 & ANSC 1119	4	Component Area IV	3
BIOL 1411[1]	4	BIOL 1413	4
CHEM 1411[1]	4	ENGL 1301[3]	3
MATH 1316[2]	3	CHEM 1412	4
		UNIV 1301	3
	15		17

Second Year

Fall	Hours	Spring	Hours
ENGL 1302[3]	3	ANSC 3373	3
HIST 1301[4]	3	CHEM 2325 & CHEM 2125	4

ANSC 3363	3 COMS 1361 or 2382[4]	3
CHEM 2323 & CHEM 2123	4 HIST 1302[5]	3
BIOL 2440	4 PSYC 1301[6]	3
	17	16

Third Year

Fall	Hours	Spring	Hours
ANSC 3376	3	ANSC 4389	3
BIOL 3450	4	BIOL 3470	4
PHYS 1301 & PHYS 1101	4	PHYS 1302 & PHYS 1102	4
POLS 2305[7]	3	POLS 2306[7]	3
	14		14

Fourth Year

Fall	Hours	Spring	Hours
Component Area IX	1	ANSC 4395	3
Component Area V	3	ANSC 2330, 4398, or AGRI 4350	3
AGRI 4120	1	CHEM 3438	4
ANSC 4394	3	PLSC 4370 or 4383	3
ENGL 3330	3		
STAT 3379	3		
	14		13

Total Hours: 120

1 Satisfies Core Curricular requirement for Component Area III (Life and Physical Science).
2 Satisfies Core Curricular requirement for Component Area II (Mathematics).
3 Satisfies Core Curricular requirement for Component Area I (Communications).
4 Satisfies Core Curricular requirement for Component Area VI (U.S. History).
5 Satisfies Core Curricular requirement for Component Area IX (Component Area Option).
6 Satisfies Core Curricular requirement for Component Area VIII (Social and Behavioral Sciences).
7 Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).

Bachelor of Science, Major in Plant and Soil Sciences

The Plant and Soil Sciences curriculum provides an educational background to those interested in employment in fields related to production, marketing and/or management of horticultural or agronomic crops; landscape design, installation, and maintenance; and other related businesses. Employment opportunities include, but are not limited to, nursery management, greenhouse plant production, turf management, landscape design and maintenance, floral industry, field crop production or consulting, natural resource conservation programs, chemical and seed production and sales, agricultural extension, and research/teaching.

Code	Title	Hours
Bachelor of Science, Major in Plant and Soil Sciences		
Core Curriculum		
Component Area I (Communication)		6
Component Area II (Mathematics)		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4
Degree Specific Requirements		
ACOM 3360	Communication Skills for Agriculturists	3

or ENGL 3330	Intro To Technical Writing	
AGRI 1309	Computers in Agriculture	3
or CSTE 1330	Introduction To Computers	
CHEM 1406	Inorganic & Envir Chemistry [1]	4
CHEM 1407	Intro Organic and Biochemistry [1]	4
COMS 1361	Public Speaking [2]	3
or COMS 2382	Comm. for Bus. & Professions	
or AGRI 4388	Prin Agr Ldrship Comm Develop	
MATH or STAT Elective		3
Major Core		
AGRI 1131	Intro To Pro Leadership Skills	1
ANSC 1319 & ANSC 1119	Animal Science and Animal Science Laboratory	4
PLSC 1307 & PLSC 1107	Plant Science and Plant Science Laboratory	4
Major		
AGRI 4120	Professional Career Skills	1
PLSC 2395	Ornamental Plant Identification	3
PLSC 3395	Plant Propagation Techniques	3
PLSC 3440	Soil Science	4
Electives		
Select 28 advanced hours from the following		28
AGRI 4096	Independent Studies	
PLSC 3374	Production & Mgt Ornamentals	
PLSC 3379	Turfgrass Culture	
PLSC 3398	Landscape Design I	
PLSC 4320	Fruit & Vegetable Production	
PLSC 4330	Soil Fertility Mgt Fertilizers	
PLSC 4358	Landscape Operations	
PLSC 4368	Landscape Design II	
PLSC 4370	Forage Crops & Pasture Mgmt	
PLSC 4372	Sports Turf Management	
PLSC 4397	Integrated Pest Management	
Select 3 hour elective from: AGBU, AGET, AGRI, ANSC, EQSC, PLSC or WGMT		3
Minor (if required)		
Minor		12
Minor Advanced Hours		6
Total Hours		120

[1] CHEM 1406 and CHEM 1407 satisfy the Core Curriculum requirement for Component Area III (Life and Physical Science) and the Degree Specific Requirement.

[2] COMS 1361 and COMS 2382 satisfies three hours of Component Area IX and degree specific area. AGRI 4388 does not satisfy this requirement.

Note

Students should use elective and/or minor hours to satisfy the 42 advanced hour requirement.

First Year

Fall	Hours	Spring	Hours
Component Area I	3	Component Area I	3
Component Area II	3	Component Area VI	3
Component Area VI	3	Component Area VII	3
AGRI 1131	1	AGRI 1309 or CSTE 1330	3

PLSC 1307 & PLSC 1107	4	ANSC 1319 & ANSC 1119	4
	14		16

Second Year

Fall	Hours	Spring	Hours
Component Area V	3	Component Area VII	3
Component Area IV	3	Component Area VIII	3
CHEM 1406	4	CHEM 1407	4
MATH or STAT Elective	3	Minor	3
PLSC 2395	3	PLSC 3395	3
	16		16

Third Year

Fall	Hours	Spring	Hours
Component Area IX	1	Minor	6
ACOM 3360 or ENGL 3330	3	Plant and Soil Sciences Electives	9
COMS 1361, 2382, or AGRI 4388[1]	3		
PLSC 3440	4		
Plant and Soil Sciences Elective	3		
	14		15

Fourth Year

Fall	Hours	Spring	Hours
AGRI Elective	3	AGRI 4120	1
Minor Advanced Courses	6	Minor	3
Plant and Soil Sciences Electives	6	Plant and Soil Sciences Electives	10
	15		14

Total Hours: 120

[1] COMS 1361 and COMS 2382 satisfies three hours of Component Area IX and degree specific area. AGRI 4388 does not satisfy this requirement.

Bachelor of Science, Major in Plant and Soil Sciences with Teaching Certification

Agriculture, Food, and Natural Resources (AFNR) Teacher Certification

The primary emphasis of the teacher certification program is the preparation of secondary teachers of Agricultural, Food, and Natural Resources (AFNR). Students gain a broad background in the agricultural sciences along with professional preparation courses in agricultural and secondary pedagogy. This comprehensive background prepares students for a wide variety of professional agricultural careers.

The teacher certification option can be chosen with any of the agricultural emphasis majors as shown. Students majoring in interdisciplinary agriculture, agricultural business, animal science, agricultural engineering technology, or horticulture and crop sciences who are seeking AFNR teacher certification should select CISE as their minor.

All students seeking teacher certification must be advised each semester to ensure proper sequencing of classes.

Code	Title	Hours
Bachelor of Science, Major in Plant and Soil Sciences with Teaching Certification		
Core Curriculum		
Component Area I (Communication)		6
Component Area II (Mathematics)		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6

Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4
Degree Specific Requirements		
ACOM 3360	Communication Skills for Agriculturists	3
AGRI 1309	Computers in Agriculture (or approved substitute)	3
or CSTE 1330	Introduction To Computers	
CHEM 1406	Inorganic & Envir Chemistry [1]	4
CHEM 1407	Intro Organic and Biochemistry [1]	4
MATH 1314	Pre Calculus Algebra (Core: Area II) [1]	3
or MATH 1332	College Mathematics	
MATH 1369	Elementary Statistics	3
or STAT 1369	Elementary Statistics	
Major Core for Certification		
AGBU 2317	Principles Of Agri Economics	3
AGRI 1131	Intro To Pro Leadership Skills	1
ANSC 1319 & ANSC 1119	Animal Science and Animal Science Laboratory	4
PLSC 1307 & PLSC 1107	Plant Science and Plant Science Laboratory	4
PLSC 2395	Ornamental Plant Identification	3
PLSC 2399	Floral Design [3]	3
PLSC 3398	Landscape Design I	3
PLSC 3440	Soil Science	4
PLSC 4370	Forage Crops & Pasture Mgmt	3
or PLSC 3395	Plant Propagation Techniques	
Plant and Soil Sciences Elective		3
Major		
AGBU 2389	Agribusiness Financl Analysis	3
AGED 3310	Teaching Ag Technology	3
AGED 3320	Interdiscip Agr Sci & Technol	3
AGED 4388	Agr Sci & Tech Program Mgt	3
AGET 2303	Intro to Ag Engineering Tech	3
AGET 4381	Adv Agricultural Mechanics	3
ANSC 3373	Animal Nutrition	3
ANSC 4360	Livestock Mgt Techniques	3
ANSC or EQSC Production or Game Animal Management Elective - Select one from the following:		3
ANSC 3376	Meat Science	
ANSC 4376	Sheep & Goat Production & Mgt	
ANSC 4380	Beef Cattle Production & Mgmt	
EQSC 2364	Equine Science	
WMGT 3381	Game Animal Production	
Minor (if required)		
CISE 3384	The Teaching Profession	3
CISE 4364	Mth Tch Secondary Schools	3
CISE 4378	Content Literacy	3
CISE 4379	Differentiated Pedagogy	3
CISE 4380	Respon Of Pro Educator	3
Secondary Ed Courses - AGED		
AGED 4364	Methds Tchg Agricultural Sci	3
AGED 4365	Std Tchng Agricultural Science	3
AGED 4366	Std Tchng Agricultural Science	3

AGED 4394	Ag. Ed. Learning Environments	3
Total Hours		133

1 CHEM 1406 and CHEM 1407 satisfies the Core Curriculum requirement for Component Area III (Life and Physical Science) and the Degree Specific requirement.

2 MATH 1314 and MATH 1332 satisfy Core Curriculum requirement for Component Area II (Mathematics) as well as the Degree Specific requirement.

3 PLSC 2399 satisfies Core Curriculum requirement for Component Area V (Creative Arts).

First Year

Fall	Hours	Spring	Hours
Component Area IX	1	AGRI 1309 or CSTE 1330	3
AGRI 1131	1	ANSC 1319 & ANSC 1119	4
ENGL 1301[1]	3	ENGL 1302[1]	3
HIST 1301[2]	3	HIST 1302[2]	3
MATH 1314 or 1332[3]	3	POLS 2305[4]	3
PLSC 1307 & PLSC 1107	4		
	15		16

Second Year

Fall	Hours	Spring	Hours
AGET 2303	3	Component Area VIII (ANSC 2360 Recommended)	3
PLSC 2399[5]	3	AGBU 2317	3
PLSC 2395	3	CHEM 1407[6]	4
CHEM 1406[6]	4	PLSC 3398	3
MATH 1369 or STAT 1369	3	POLS 2306[4]	3
	16		16

Third Year

Fall	Hours	Spring	Hours	Summer	Hours
AGBU 2389	3	ANSC 3373	3	Component Area IX	3
AGET 4381	3	ANSC or EQSC Production Elective or WGMT 3381	3	AGED 3310	3
PLSC 3440	4	PLSC 4370 or 3395	3	AGED 4388	3
CISE 3384	3	CISE 4378	3	ACOM 3360	3
AGED 3320	3	CISE 4380	3		
	16		15		12

Fourth Year

Fall	Hours	Spring	Hours
PLSC Advanced Elective	3	AGED 4364	3
ANSC 4360	3	AGED 4365	3
Component Area IV	3	AGED 4366	3
CISE 4364	3	AGED 4394	3
CISE 4379	3		
	15		12

Total Hours: 133

1 Satisfies Core Curriculum requirement for Component Area I (Communications).

2 Satisfies Core Curriculum requirement for Component Area VI (U.S. History).

3 Satisfies Core Curriculum requirement for Component Area II (Mathematics).
4 Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).
5 Satisfies Core Curriculum requirement for Component Area V (Creative Arts).
6 Satisfies Core Curriculum requirement for Component Area III (Life and Physcial Science).

Career and Technology Program: Bachelor of Applied Arts and Sciences

Coordinator: Dr. Douglas R. Ullrich (agr_dru@shsu.edu), (936) 294-1188

1. **Present evidence of the development of an area of technical specialty with an Associate of Applied Arts and Sciences degree from a junior/ community college.**
   a. Sixty-six semester hours (plus four semester hours of activity physical education) may be transferred from another educational institution. This should include thirty-six hours in-block coursework in an organized technical program.
   b. The specialty title of the Associates of Applied Sciences degree must be posted to the transcript for approval for entry into the BAAS program.
   c. Students MUST be advised by the program coordinator to have transcripts reviewed and a declaration of major/minor submitted before full acceptance into the BAAS program is finalized.
2. **Complete a baccalaureate degree plan from residence and transfer credit which contains a minimum of 120 semester credit hours and includes the following:**
   a. Forty-two semester hours of advanced level credits (courses taken at the junior-senior level at a senior institution).
   b. A twenty-one hour minor in a field related to the student's technical specialty. All hours in the minor should be at advanced level. If a minor is selected that does not require twenty-one advanced hours the student must take extra advanced electives to reach the required 42 advanced hours.
   c. A nine hour internship is required if some type of field experience was not required within the AAS program. If the minor department does not offer an internship, the Career and Technology Program will administer the internship. This is in addition to the twenty-one hour minor.
   d. A total of 42 advanced hours (3000-4000 level classes) must be taken. These hours may come in part from the minor and required internship. Additional elective hours will be required to complete this requirement.
   e. Complete 42 hours in general education, at least 12 hours of core must be taken at Sam Houston State University. Refer to section on core requirements (may include up to 30 hours of core academics from community college courses - see program coordinator for clarification).

Bachelor of Applied Arts and Sciences (B.A.A.S.)

Code	Title	Hours
Requirements		
General Education Requirements (Core Curriculum)		42
Major (A.A.S. degree - in-block courses)		36
Minor (21 advanced hours)		21
Electives (12 advanced hours)		12
Internship (if required) (CATM 4360 or in minor field) or Additional Advanced Electives		9
Total Hours		120

This degree program is administered by the Department of Agricultural Sciences in the College of Science and Engineering Technology.

Internships or Work-Based Mentorship

An internship or work-based mentorship in career and technology is intended to provide experience-based learning opportunities for students in their respective discipline of study. These internships are limited to students seeking a BAAS degree or with special approval. Students generally seek an internship or work-based mentorship experience at the end of their sophomore or junior year. The course identified for internship or work-based mentorship is CATM 4360 (or minor field internship) and may be arranged through student contact with providers or through departmental faculty, staff announcements, or career services postings. All internships or work-based mentorships must receive prior departmental approval. Maximum credit for internship or work-based mentorship is nine (9) credit hours, with no more than 3 hours to be taken per semester.

Minor in Agricultural Business

The minor may be selected to accompany any approved major at Sam Houston State University except Interdisciplinary Agriculture.

Code	Title	Hours
Minor in Agricultural Business		
Agricultural Business Core		
AGBU 2317	Principles Of Agri Economics	3

AGBU 2385	Analysis of the Agr Sector	3
AGBU 2389	Agribusiness Financl Analysis	3
Electives		
Select 9 hours from the following:		9
AGBU 3361	Agribusiness Org & Mgt	
AGBU 3367	Agricultural Finance	
AGBU 3385	Quant Mthds for Agribusiness	
AGBU 4319	Agribusiness Ventures	
AGBU 4340	Agribusiness Marketing	
AGBU 4363	Agricultural Sales & Consulting	
AGBU 4365	Legal Issues in Agribusiness	
AGBU 4369	Special Topic	
AGBU 4374	Agr Mkt Analysis & Prices	
AGBU 4378	Farm & Ranch Management	
AGBU 4386	Agriculture & Food Policy	
Total Hours		18

Minor in Agricultural Engineering Technology

The minor may be selected to accompany any approved major at Sam Houston State University except Interdisciplinary Agriculture.

Code	Title	Hours
Minor in Agricultural Engineering Technology		
AGET 2303	Intro to Ag Engineering Tech	3
Agricultural Engineering Technology advanced electives, including 3 hours of internship credit.		15
Total Hours		18

Minor in Animal Science

The minor may be selected to accompany any approved major at Sam Houston State University except Interdisciplinary Agriculture.

Code	Title	Hours
Minor in Animal Science		
Animal Science Core		
ANSC 1319 & ANSC 1119	Animal Science and Animal Science Laboratory	4
ANSC 3373	Animal Nutrition	3
Electives		
Approved Animal Science, Equine Science or Wildlife Management Electives (6 hours must be advanced)		12
Total Hours		19

Minor in Equine Science

The 19-hour minor in Equine Science may be selected to accompany any approved major at Sam Houston State University except Interdisciplinary Agriculture.

Code	Title	Hours
Minor in Equine Science		
ANSC 1319 & ANSC 1119	Animal Science and Animal Science Laboratory	4
EQSC 2364	Equine Science	3
EQSC 4379	Equine Nutrition	3
9 hours of Equine Science Electives (6 hours must be advanced)		9
Total Hours		19

Minor in Plant and Soil Science

The 20-hour minor in Plant and Soil Science may be selected to accompany any approved major at Sam Houston State University except Interdisciplinary Agriculture.

Code	Title	Hours
Minor in Plant and Soil Science		
PLSC 1307 & PLSC 1107	Plant Science and Plant Science Laboratory	4
PLSC 3440	Soil Science	4
12 hours of Plant Science Electives (3 advanced)		12
Total Hours		20

Minor in Wildlife Ecology

Students seeking a Wildlife Ecology minor must complete the following 22 semester credit hours.

Code	Title	Hours
Minor in Wildlife Ecology		
ANSC 1319 & ANSC 1119	Animal Science and Animal Science Laboratory	4
ANSC 3373	Animal Nutrition	3
ANSC 4389	Animal Reproduction	3
PLSC 4370	Forage Crops & Pasture Mgmt	3
or PLSC 4383	Range Management	
WMGT 2301	Principles of Wildlife Mgmt	3
WMGT 3381	Game Animal Production	3
WMGT 3382	Habitat & Pond Management	3
Total Hours		22

Department of Engineering Technology

Department Chair: Dr. Faruk Yidiz (fxy001@shsu.edu)

Contact Information: (936) 294-1216 and (936) 294-1223

Mission

The mission of the Engineering Technology Department is to provide an educational program designed to provide academic and practical experiences in the areas of management, engineering design, leadership, and engineering technology for students to prepare to meet industry challenges and the needs.

Academic Programs

The department offers a Bachelor of Science degree with a major in Engineering Technology with programs in the following areas:

- B.S. Construction Management (ETCM)
- B.S. Design and Development (ETDD)
- B.S. Engineering Technology (ETEC)
- B.S. Engineering Technology--Safety Management Concentration (ETSM)
- B.S. Electronics and Computer Engineering Technology (ECET & ETEE)
- B.S. Engineering Technology--Electronics Concentration (ETEE)
- B.S. Engineering Technology (Teaching options are available in Engineering Technology as well as Trade and Industry)

Highlights

The Engineering Technology Department offers courses in three different facilities.

- The Fred L. Pirkle Engineering Technology Center (PIRK) provides space for several specialized classrooms and laboratories.
  - The computer-aided design and drafting (CADD) labs, in PIRK Room 240 and 242, provide students with experiences with several construction, architectural and engineering design software programs, design and drafting tools, and 3D prototyping printers.
  - Electricity, electronics, automation and control, instrumentation, and robotic courses are offered in the Electronics and Robotics Laboratories in room 140 and 142 of PIRK.
  - Energy systems courses and workshops are offered in the Energy Systems and Sustainability labs and on the Energy Terrace in PIRK 220.
  - The collaboration area (PIRK 100) provides the infrastructure and state-of-the-art equipment/tools necessary for capstone research projects.
- The Westmoreland Engineering Technology Laboratory (WETL), located on Avenue M, provides students with hands-on experiences in drafting and design, surveying, electrical and renewable energy technologies, as well as metal, wood, and concrete construction for residential and commercial structures.

Career Opportunities

- Computer Hardware and Software
- Automation and Control
- Architectural Design
- Construction Management
- Electrical and Mechanical Systems
- Electronics Systems Management
- Industrial Design and Development
- Industrial Safety Management
- Instrumentation Systems
- Engineering Technology and Trades and Industry Education
- Sales and Marketing of Industrial Products

Engineering Technology students learn to draw upon the principles of management, leadership, physical and applied sciences, technology of industry, and basic engineering for the solution of problems involving industrial products, services, materials and processes, and the supervision and management of facilities and personnel.

Suggested Minors

Engineering Technology students typically choose minors from program areas within the department (see Minor area), while others will select from the College of Business Administration such as General Business Administration, Management, Marketing, etc. Students highly encouraged to choose a minor that best suits their needs and interests.

Program Specific Requirements

For additional information regarding admission requirements, degree programs, description of courses, and financial assistance available, please refer to the appropriate sections of this catalog. Brochures and information concerning the department and scholarships may be obtained by calling (936) 294-1216 or writing:

Sam Houston State University
Department of Engineering Technology
Huntsville, Texas 77341-2088

Website: Department of Engineering Technology (http://www.shsu.edu/academics/engineering-technology)

- Bachelor of Science, Major in Engineering Technology
- Bachelor of Science, Major in Engineering Technology - Concentration in Electronics
- Bachelor of Science, Major in Engineering Technology - Concentration in Safety Management
- Bachelor of Science, Major in Engineering Technology with Teaching Certification
- Bachelor of Science, Major in Engineering Technology-Civil Engineering 2+2
- Bachelor of Science, Major in Engineering Technology-Electrical Engineering 2+2
- Bachelor of Science, Major in Engineering Technology-Mechanical Engineering 2+2
- Bachelor of Science, Major in Construction Management
- Bachelor of Science, Major in Electronics and Computer Engineering Technology
- Bachelor of Science, Major in Design and Development
- Minor in Design and Development
- Minor in Construction Management
- Minor in Electronics
- Minor in Interior Design
- Minor in Industrial Safety Management (http://catalog.shsu.edu/undergraduate/colleges-academic-departments/science-and-engineering-technology/agricultural-science/industrial-safety-management)
- Minor in Trades and Industry Certification (http://catalog.shsu.edu/undergraduate/colleges-academic-departments/science-and-engineering-technology/agricultural-science/trades-and-industry-certification-minor)

Student Organizations

- Association of Technology, Management, and Applied Engineering (ATMAE) Student Chapter
- Sam Houston Construction Association (SHCA)
- National Association of Home Builders
- Renewable and Clean Energy Association (RCEA)
- Society for Women in Excellence in Engineering Technology (SWEET)

Internships

The internship program is intended to provide experience-based learning opportunities for students in their respective discipline of study. Students generally seek internship experience at the end of their junior or senior year. The course identified for internship credit in Engineering Technology is ETEC 4391. Internships may be arranged through student contact with providers or through departmental faculty and staff announcements and postings. All internships must receive departmental approval through application prior to the initiation of the internship. Maximum credit for an internship is six (6) credit hours, and it may be used towards graduation.

Scholarships

The department is pleased to have available approximately 20 scholarships for students majoring in engineering technology related degrees. Scholarships range in value from $1,000 to $5,000 per year. These scholarships are a one-time award and are awarded on an annual basis. A student may reapply in subsequent years if eligibility requirements are met.

The Scholarships 4 Kats (http://www.shsu.edu/dept/financial-aid/scholarships) program must be used to apply for departmental scholarships. The program enables you to apply for all scholarships for which you are eligible, including those outside the Department of Engineering Technology. The deadline for departmental scholarships and university-wide scholarships is November 1; non-departmental scholarship deadlines vary.

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Bachelor of Science, Major in Construction Management

Code	Title	Hours
Bachelor of Science, Major in Construction Management		
Core Curriculum		
Component Area I (Communication)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4
Degree Specific Requirements		
ENGL 3330	Intro To Technical Writing	3
or MATH 3379	Statistical Mthods In Practice	
Select one of the following [1]		3
MATH 1314	Pre Calculus Algebra	
MATH 1324	Mth For Mngl Decision Making	
Select one of the following [1]		3-4
MATH 1316	Plane Trigonometry	
MATH 1430	Calculus II	
MATH 2399	Mth For Mngl Decision Making	
PHYS 1301 & PHYS 1101	General Phy-Mechanics & Heat and General Physics Laboratory I	4
PHYS 1302 & PHYS 1102	Gen Phy-Snd,Lght, Elec, & Mag and General Physics Laboratory II	4
Major Core		
ETEC 1010	Engineering Foundations	1-2
ETEE 1340	Electronics Technology I	3
ETDD 1361	Engineering Graphics	3
ETCM 1363	Wood Frame Construction	3
ETEC 1371	Descriptive Geometry	3
Major		
ETCM 2363	Architectural Design	3
ETCM 3368	Concrete/Masonry Construction	3
ETCM 3371	Civil Drafting	3
or ETCM 3372	Construction Drafting	
ETCM 4330	Construction Mgt & Procedures	3
ETCM 4368	Building Materials	3
ETCM 4370	Construction Plans & Documents	3
ETCM 4371	Building Information Modeling	3
ETSM 4382	Industrial Safety	3
ETEC 4384	Supervisory Personnel Practice	3
or ETEC 4340	Alternative Energy Technology	
Internship		6
ETEC 4391	Work Base Mentorship	
Minor (if required)		
Minor		6
Minor (12 hours advanced)		12
Total Hours		120-122

[1] MATH 1316 or MATH 1314 or MATH 1420 or MATH 1324 satisfies the Core Curriculum requirement for Component Area II (Mathematics) and the Degree Specific requirement.

Note
Students should use elective and/or minor hours to satisfy the 42 advanced hour requirement.

First Year

Fall	Hours	Spring	Hours
Component Area I	3	Component Area I	3
ETCM 1363	3	Component Area IV	3
ETEC 1010	1-2	ETEC 1371	3
ETDD 1361	3	ETEE 1340	3
MATH 1314 or 1324[1]	3	MATH 1316, 1430, or 2399	3-4
	13-14		15-16

Second Year

Fall	Hours	Spring	Hours
Component Area V	3	Component Area VII	3
Component Area VI	3	Component Area VIII	3
ETCM 2363	3	PHYS 1302 & PHYS 1102	4
PHYS 1301 & PHYS 1101	4	ETCM 3368	3
Minor Course	3	MATH 3379 or ENGL 3330	3
	16		16

Third Year

Fall	Hours	Spring	Hours
Component Area III	4	Component Area III	4
Component Area VI	3	ETEC 4384 or 4340	3
Component Area VII	3	ETSM 4382	3
ETCM 3371 or 3372	3	Minor Courses (3hrs Advanced)	6
ETCM 4330	3		
	16		16

Fourth Year

Fall	Hours	Spring	Hours
Component Area IX	4	ETCM 4368	3
ETCM 4370	3	ETEC 4391	3
ETCM 4371	3	ETEC 4391	3
Minor Courses (Advanced)	6	Minor Courses (Advanced)	3
	16		12

Total Hours: 120-122

[1] Satisfies Core Curriculum requirement for Component Area II (Mathematics). MATH 1420 also satisfies the one semester credit hour requirement for Component Area IX (Component Area Option).

Bachelor of Science, Major in Design and Development

Code	Title	Hours
Bachelor of Science, Major in Design and Development		
Core Curriculum		
Component Area I (Communication)		6
Component Area II (Mathematics)		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3

Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4
Degree Specific Requirements		
STAT 3379	Statistical Methds In Practice	3
or ENGL 3330	Intro To Technical Writing	
Select one of the following: [1]		3
MATH 1314	Pre Calculus Algebra	
MATH 1324	Mth For Mngl Decision Making	
MATH 1420	Calculus I	
MATH 1316	Plane Trigonometry	3
PHYS 1301 & PHYS 1101	General Phy-Mechanics & Heat and General Physics Laboratory I	4
PHYS 1302 & PHYS 1102	Gen Phy-Snd,Lght, Elec, & Mag and General Physics Laboratory II	4
Major Core		
ETEC 1010	Engineering Foundations	1-2
ETEE 1340	Electronics Technology I	3
ETDD 1361	Engineering Graphics	3
ETEC 1371	Descriptive Geometry	3
Major		
ETCM 2363	Architectural Design	3
ETDD 3310	Product Design & Development	3
ETEC 3367	Engineering Materials Techn	3
ETEC 3374	Time And Motion Study	3
or ETEC 3300	Technology Innovations	
ETEC 3375	Statics	3
ETDD 3379	Industrial Systems Drafting	3
ETDD 4339	Computer-Aided Drafting Produc	3
ETDD 4380	Material Hand & Plant Layout	3
ETSM 4382	Industrial Safety	3
ETEC 4384	Supervisory Personnel Practice	3
or ETEC 4376	Strength of Materials	
ETDD 4388	3D Parametric Design	3
6 hours Internship		6
ETEC 4391	Work Base Mentorship	
Minor		
Minor		9
Minor (9 hours advanced)		9
Total Hours		123-124

[1] MATH 1316 or MATH 1314 or MATH 1420 or MATH 1324 satisfies the Core Curriculum requirement for Component Area II (Mathematics) and the Degree Specific requirement.

First Year

Fall	Hours	Spring	Hours
Component Area I	3	Component Area I	3
Component Area IX	4	Component Area IV	3
ETDD 1361	3	ETEC 1371	3
ETEC 1010	1-2	ETEE 1340	3
MATH 1314, 1324, or 1420[1]	3-4	MATH 1316	3
	11-12		15

Second Year

Fall	Hours	Spring	Hours
Component Area VI	3	Component Area VI	3
ETCM 2363	3	Component Area VII	3
ETDD 3310	3	Component Area VIII	3
PHYS 1301 & PHYS 1101	4	PHYS 1302 & PHYS 1102	4
Minor Course	3	STAT 3379 or ENGL 3330	3
	16		16

Third Year

Fall	Hours	Spring	Hours
Component Area III[2]	4	Component Area III[2]	4
ETDD 3379	3	Component Area V	3
ETEC 3375	3	ETEC 3367	3
Minor Courses	6	ETEC 3374 or 3300	3
		ETSM 4382	3
	16		16

Fourth Year

Fall	Hours	Spring	Hours
Component Area VII	3	ETDD 4388	3
ETDD 4339	3	Internship	6
ETDD 4380	3	ETEC 4391	3
ETEC 4384 or 4376	3	Minor Courses - advanced	6
Minor Courses - advanced	3		
	15		18

Total Hours: 123-124

1 Satisfies Core Curriculum requirement for Component Area II (Mathematics). MATH 1420 also satisfies one semester credit hour of the Core Curriculum requirement for Component Area IX (Core Component Option).

2 Must be taken from BIOL, CHEM, GEOL, or GEOG 1401 only.

Bachelor of Science, Major in Electronics and Computer Engineering Technology

Code	Title	Hours
Bachelor of Science, Major in Electronics and Computer Engineering Technology		
Core Curriculum		
Component Area I (Communication)		6
Component Area II (Mathematics)		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4
Degree Specific Requirements		
ENGL 3330	Intro To Technical Writing	3
STAT 3379	Statistical Methds In Practice	3
MATH 1316	Plane Trigonometry [1]	3
MATH 1420	Calculus I [2]	4
PHYS 1301 & PHYS 1101	General Phy-Mechanics & Heat and General Physics Laboratory I	4

PHYS 1302 & PHYS 1102	Gen Phy-Snd,Lght, Elec, & Mag and General Physics Laboratory II	4
Select 8 hours from BIOL, CHEM, GEOL OR GEOG 1401 (exclude PHYS) [3]		8
Major Core		
COSC 1436	Programming Fundamentals I	4
COSC 1437	Programming Fundamentals II	4
ETDD 1361	Engineering Graphics	3
ETEE 1340	Electronics Technology I	3
Major		
COSC 2327	Intro to Computer Networks	3
COSC 2329	Comp Organiz & Machine Lang	3
COSC 3327	Computer Architecture	3
ETEC 1010	Engineering Foundations	1-2
ETEE 2320	Electronics Technology II	3
ETEC 3340	Solar and Wind Energy Systems	3
ETEE 3350	Solid State Electronics	3
ETEE 3373	Industrial Electronics	3
ETEC 3376	Microcontroller Applications	3
ETEC 4340	Alternative Energy Technology	3
ETEE 4351	Automation & Control Systems	3
ETEE 4352	Instrumentation & Interfacing	3
ETEE 4373	Digital Electronics	3
Internship		6
ETEC 4391	Work Base Mentorship	
Advanced ETEE & ECET Electives		6
Total Hours		122-123

[1] MATH 1316 satisfies the Core Curriculum requirement for Component Area II (Mathematics) and the Degree Specific requirements.

[2] MATH 1420 satisfies one semester credit hour of the Core Curriculum requirement for Component Area IX (Component Area Option) and the Degree Specific requirements.

[3] Satisfies Core Curriculum requirement for Component Area III (Life and Physical Science) and Degree Specific requirements.

First Year

Fall	Hours	Spring	Hours
Component Area I	3	Component Area I	3
Component Area IX	3	Component Area IV	3
ETEC 1010	1-2	COSC 1436	4
ETDD 1361	3	ETEE 2320	3
ETEE 1340	3	MATH 1420[2]	4
MATH 1316[1]	3		
	16-17		17

Second Year

Fall	Hours	Spring	Hours
Component Area VI	3	Component Area VI	3
Component Area V	3	Component Area VII	3
COSC 1437	4	Component Area VIII	3
ETEE 3350	3	ENGL 3330	3
PHYS 1301 & PHYS 1101	4	PHYS 1302 & PHYS 1102	4
	17		16

Third Year

Fall	Hours	Spring	Hours
Component Area VII	3	Component Area III	4

Component Area III	4 COSC 3327	3
COSC 2327	3 ETEC 3340	3
COSC 2329	3 ETEE 4373	3
ETEE 3373	3	
	16	13

Fourth Year

Fall	Hours	Spring	Hours
ETEC 3376	3	ETEE 4352	3
STAT 3379	3	ETEC 4391 (Internship)	3
ETEC 4340	3	ETEC 4391 (Internship)	3
ETEE 4351	3	ETEE Advanced Elective	3
ETEE Advanced Elective	3		
	15		12

Total Hours: 122-123

1 Satisfies Core Curriculum requirement for Component Area II (Mathematics).

2 Satisfies one semester credit hour of the Core Curriculum requirement for Component Area IX (Component Area Option).

Bachelor of Science, Major in Engineering Technology

Code	Title	Hours
Bachelor of Science, Major in Engineering Technology		
Core Curriculum		
Component Area I (Communication)		6
Component Area II (Mathematics)		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4
Degree Specific Requirements		
Select one from the following:		3
ENGL 3330	Intro To Technical Writing	
MATH 3379	Statistical Mthods In Practice	
Select one from the following: [1]		3
MATH 1314	Pre Calculus Algebra	
MATH 1324	Mth For Mngl Decision Making	
MATH 1316	Plane Trigonometry [1]	3
PHYS 1301 & PHYS 1101	General Phy-Mechanics & Heat and General Physics Laboratory I	4
PHYS 1302 & PHYS 1102	Gen Phy-Snd,Lght, Elec, & Mag and General Physics Laboratory II	4
Major Core		
ETEC 1010	Engineering Foundations	1-2
ETEE 1340	Electronics Technology I	3
ETDD 1361	Engineering Graphics	3
ETCM 1363	Wood Frame Construction	3
ETEC 1371	Descriptive Geometry	3
Major		
ETEE 2320	Electronics Technology II	3
ETDD 3310	Product Design & Development	3

ETEC 3374	Time And Motion Study	3
or ETEC 3300	Technology Innovations	
INED 4310	Occup. Human Relations in CTE	3
ETEC 4340	Alternative Energy Technology	3
or ETEC 3340	Solar and Wind Energy Systems	
ETSM 4382	Industrial Safety	3
ETEC 4384	Supervisory Personnel Practice	3
Approved Advanced Electives from: ETEC, ETEE, ETDD, ETCM, ETSM and INED [2]		12
Minor (if required)		
Minor		6
Minor (12 hours advanced)		12
Total Hours		120-121

1 MATH 1316 or MATH 1314 or MATH 1420 or MATH 1324 satisfies the Core Curriculum requirement for Component Area II (Mathematics) and the Degree Specific requirement.MATH 1420 also satisfies one semester credit hour of the Core Curriculum requirement for Component Area IX (Component Area Option).

2 Engineering Technology (ETEE), Design & Development (ETDD), Construction Management (ETCM), Safety Management (ETSM), Industrial Education (INED)

Note

Students should use elective and/or minor hours to satisfy the 42 advanced hour requirement.

First Year

Fall	Hours	Spring	Hours
Component Area I	3	Component Area I	3
Component Area IX	4	Component Area IV	3
ETEC 1010	1-2	MATH 1316	3
MATH 1314 or 1324[1]	3	ETEE 1340	3
ETDD 1361	3	ETEC 1371	3
	14-15		15

Second Year

Fall	Hours	Spring	Hours
Component Area V	3	Component Area VI	3
Component Area VI	3	Component Area VII	3
PHYS 1301 & PHYS 1101	4	Component Area VIII	3
ETCM 1363	3	PHYS 1302 & PHYS 1102	4
Minor Courses	3	ENGL 3330 or MATH 3379	3
	16		16

Third Year

Fall	Hours	Spring	Hours
Component Area III	4	Component Area III	4
Component Area VII	3	ETDD 3310	3
ETEE 2320	3	ETEC 3374 or 3300	3
ETEC Program Advanced Elective[2]	3	ETEC Program Advanced Elective[2]	3
Minor Courses	3	Minor Courses (Advanced)	3
	16		16

Fourth Year

Fall	Hours	Spring	Hours
ETEC 4340 or 3340	3	ETEC 4384	3
ETSM 4382	3	INED 4310	3
ETEC Program Advanced Elective[2]	3	ETEC Program Advanced Elective[2]	3

Minor Courses (Advanced)	6 Minor Courses (Advanced)	3
	15	12

Total Hours: 120-121

1 MATH 1316 or MATH 1314 or MATH 1420 or MATH 1324 satisfies the Core Curriculum requirement for Component Area II (Mathematics) and the Degree Specific requirement.MATH 1420 also satisfies one semester credit hour of the Core Curriculum requirement for Component Area IX (Component Area Option).

2 Engineering Technology (ETEE), Design & Development (ETDD), Construction Management (ETCM), Safety Management (ETSM), Industrial Education (INED).

Bachelor of Science, Major in Engineering Technology - Concentration in Electronics

Code	Title	Hours
Bachelor of Science, Major in Engineering Technology - Concentration in Electronics		
Core Curriculum		
Component Area I (Communication)		6
Component Area II (Mathematics) [1]		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4
Degree Specific Requirements		
Select one of the following:		3
ENGL 3330	Intro To Technical Writing	
MATH 3379	Statistical Mthods In Practice	
Select one of the following: [1]		3
MATH 1314	Pre Calculus Algebra [1]	
MATH 1324	Mth For Mngl Decision Making	
MATH 1316	Plane Trigonometry	3
PHYS 1301 & PHYS 1101	General Phy-Mechanics & Heat and General Physics Laboratory I	4
PHYS 1302 & PHYS 1102	Gen Phy-Snd,Lght, Elec, & Mag and General Physics Laboratory II	4
Major Core		
ETEC 1010	Engineering Foundations	1-2
ETEE 1340	Electronics Technology I	3
ETDD 1361	Engineering Graphics	3
Major		
ETEE 2320	Electronics Technology II	3
ETEC 3340	Solar and Wind Energy Systems	3
ETEE 3350	Solid State Electronics	3
ETEE 3373	Industrial Electronics	3
ETEC 3376	Microcontroller Applications	3
ETEC 4340	Alternative Energy Technology	3
ETEE 4351	Automation & Control Systems	3
ETEE 4352	Instrumentation & Interfacing	3
ETEE 4373	Digital Electronics	3
ETSM 4382	Industrial Safety	3
ETEC 4384	Supervisory Personnel Practice	3

or INED 4310	Occup. Human Relations in CTE	
6 hours of Internship		6
ETEC 4391	Work Base Mentorship	
Minor		
Minor		6
Minor (12 hours advanced)		12
Total Hours		120-121

[1] MATH 1316 or MATH 1314 or MATH 1420 or MATH 1324 satisfies the Core Curriculum requirement for Component Area II (Mathematics) and the Degree Specific requirement.

Note

Students should use elective and/or minor hours to satisfy the 42 advanced hour requirement.

First Year

Fall	Hours	Spring	Hours
Component Area I	3	Component Area I	3
Component Area IX	4	Component Area IV	3
ETEC 1010	1-2	MATH 1316	3
MATH 1314 or 1324[1]	3	ETDD 1361	3
ETEE 1340	3	ETEE 2320	3
	14-15		15

Second Year

Fall	Hours	Spring	Hours
Component Area V	3	Component Area VI	3
Component Area VI	3	Component Area VII	3
ETEC 3340	3	Component Area VIII	3
ETEE 3350	3	PHYS 1302 & PHYS 1102	4
PHYS 1301 & PHYS 1101	4	ENGL 3330 or MATH 3379	3
	16		16

Third Year

Fall	Hours	Spring	Hours
Component Area III	4	Component Area III	4
Component Area VII	3	ETEC 4384 or INED 4310	3
ETEE 3373	3	ETSM 4382	3
Minor Courses	6	Minor Courses (Advanced)	6
	16		16

Fourth Year

Fall	Hours	Spring	Hours
ETEC 3376	3	ETEC 4340	3
ETEE 4351	3	ETEC 4391	3
ETEE 4373	3	ETEC 4391	3
Minor Courses (Advanced)	6	ETEE 4352	3
	15		12

Total Hours: 120-121

[1] Satisfies Core Curriculum requirement for Component Area II (Mathematics). MATH 1420 will also satisfy one semester credit hour of Core Curriculum Component Area IX (Component Area Option).

Bachelor of Science, Major in Engineering Technology - Concentration in Safety Management

Code	Title	Hours
Bachelor of Science, Major in Engineering Technology - Concentration in Safety Management		
Core Curriculum		
Component Area I (Communication)		6
Component Area II (Mathematics)		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4
Degree Specific Requirements		
ENGL 3330	Intro To Technical Writing	3
MATH 3379	Statistical Mthods In Practice	3
Select one from the following: [1]		3
MATH 1314	Pre Calculus Algebra	
MATH 1324	Mth For Mngl Decision Making	
MATH 1420	Calculus I	
MATH 1316	Plane Trigonometry [1]	3
PHYS 1301 & PHYS 1101	General Phy-Mechanics & Heat and General Physics Laboratory I	4
PHYS 1302 & PHYS 1102	Gen Phy-Snd,Lght, Elec, & Mag and General Physics Laboratory II	4
Major Core		
ETEC 1010	Engineering Foundations	1-2
ETEE 1340	Electronics Technology I	3
ETDD 1361	Engineering Graphics	3
or ETDD 1390	Intro -Computer Aided Drafting	
ETCM 1363	Wood Frame Construction	3
Major		
ETEE 2320	Electronics Technology II	3
ETEC 3374	Time And Motion Study	3
or ETEC 3367	Engineering Materials Techn	
ETSM 3363	Safety Program Management	3
ETDD 4380	Material Hand & Plant Layout	3
ETSM 4382	Industrial Safety	3
ETEC 4384	Supervisory Personnel Practice	3
or INED 4310	Occup. Human Relations in CTE	
6 hours Internship		6
ETEC 4391	Work Base Mentorship	
Approved Safety Management (ETSM) Advanced Electives		9
Minor (if required)		
Minor		6
Minor (12 hours advanced)		12
Total Hours		120-121

[1] MATH 1316 or MATH 1314 or MATH 1420 or MATH 1324 satisfies the Core Curriculum requirement for Component Area II (Mathematics) and the Degree Specific requirement.

Note
Students should use elective and/or minor hours to satisfy the 42 advanced hour requirement.

First Year

Fall	Hours	Spring	Hours
Component Area I	3	Component Area I	3
Component Area IX	3	Component Area VI	3
ETDD 1361 or 1390	3	Component Area IX[2]	0-1
ETEC 1010	1-2	MATH 1316	3
MATH 1314, 1324, or 1420[1]	3-4	Minor	3
	13-14		13

Second Year

Fall	Hours	Spring	Hours
Component Area IV	3	Component Area VII	3
Component Area V	3	Component Area VIII	3
Component Area VI	3	ETEE 1340	3
ETCM 1363	3	PHYS 1302 & PHYS 1102	4
PHYS 1301 & PHYS 1101	4	ENGL 3330	3
	16		16

Third Year

Fall	Hours	Spring	Hours
Component Area III	4	Component Area III	4
Component Area VII	3	ETEC 4384 or INED 4310	3
ETEE 2320	3	ETSM 4382	3
ETSM 3363	3	ETSM Advanced Electives	6
Minor	3		
	16		16

Fourth Year

Fall	Hours	Spring	Hours
ETDD 4380	3	ETEC 3374 or 3367	3
ETSM Advanced Elective	3	Internship	6
MATH 3379	3	ETEC 4391	
Minor (3 hours Advanced)	6	Minor Courses (Advanced)	6
	15		15

Total Hours: 120-121

1 Satisfies Core Curriculum requirement for Component Area II (Mathematics). MATH 1420 will also satisfy one semester credit hour of Core Curriculum requirement Component Area IX (Component Area Option).

2 If MATH 1420 is taken, the additional one semester credit hour of Core Curriculum Component Area IX (Component Area Option) is satisfied.

Bachelor of Science, Major in Engineering Technology with Teaching Certification

Code	Title	Hours
Bachelor of Science, Major in Engineering Technology with Teaching Certification		
Core Curriculum		
Component Area I (Communication)		6
Component Area II (Mathematics)		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3

Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4
Degree Specific Requirements		
MATH 3379	Statistical Mthods In Practice	3
or ENGL 3330	Intro To Technical Writing	
Select one of the following MATH Courses:		3
MATH 1314	Pre Calculus Algebra	
MATH 1324	Mth For Mngl Decision Making	
MATH 1420	Calculus I	
Select one of the following Math courses: [1]		3-4
MATH 1316	Plane Trigonometry [1]	
MATH 1430	Calculus II	
MATH 2399	Mth For Mngl Decision Making	
PHYS 1301 & PHYS 1101	General Phy-Mechanics & Heat and General Physics Laboratory I	4
PHYS 1302 & PHYS 1102	Gen Phy-Snd,Lght, Elec, & Mag and General Physics Laboratory II	4
Major Core		
ETDD 1361	Engineering Graphics	3
ETEC 1010	Engineering Foundations	1-2
ETEE 1340	Electronics Technology I	3
ETCM 1363	Wood Frame Construction	3
Major		
ETEE 2320	Electronics Technology II	3
ETCM 2363	Architectural Design	3
ETDD 3310	Product Design & Development	3
ETEC 4340	Alternative Energy Technology	3
INED 4310	Occup. Human Relations in CTE	3
INED 4364	Teaching in Schools & Industry	3
INED 4391	Lab Mgt,Organization & Control	3
Advanced Electives selected from: ETEC, ETEE, ETDD, ETCM, ETSM and INED		15
Minor		
CISE 3384	The Teaching Profession	3
CISE 4364	Mth Tch Secondary Schools	3
CISE 4378	Content Literacy	3
CISE 4379	Differentiated Pedagogy	3
CISE 4380	Respon Of Pro Educator	3
CISE 4394	Creatng Env For Lrng-Secondary	3
CISE 4396	Std Tch Secondary Classroom	3
or CISE 4397	Std Tch Secondary Classroom	
Total Hours		123-125

[1] MATH 1316 or MATH 1314 or MATH 1420 or MATH 1324 satisfies the Core Curriculum requirement for Component Area II (Mathematics) and the Degree Specific requirement.

For certification purposes the minor is considered to be Secondary Education. No other minor is required, but if an additional teaching field is desired, the student must meet the requirements of that teaching field. For the degree of Bachelor of Science and a teaching certificate with an integrated teaching field in technology, the student must complete a minimum of 48 semester hours in Engineering Technology and 21 semester hours in Secondary Education. The courses listed above are required of all students who are majoring in Engineering Technology and seeking a teaching certificate. The student should be advised by the Engineering Technology/Industrial Education teacher educator. Contact the advisor at (936) 294-1216, or seek advisement for Engineering Technology at the SAM Center.

First Year

Fall	Hours	Spring	Hours
Component Area I	3	Component Area I	3
Component Area IX	1	Component Area III	4
ETDD 1361	3	Component Area IV	3
ETCM 1363	3	ETEC 1010	1-2
ETEE 1340	3	MATH 1316, 1430, or 2399	3-4
MATH 1314, 1324, or 1420[1]	3	ETEE 2320	3
	16		17-19

Second Year

Fall	Hours	Spring	Hours
Component Area III	4	Component Area VI	3
Component Area V (PLSC 2399 is suggested)	3	Component Area VII	3
Component Area VI	3	Component Area VIII	3
PHYS 1301 & PHYS 1101	4	ETCM 2363	3
ETDD 3310	3	Advanced ETEC elective	3
	17		15

Third Year

Fall	Hours	Spring	Hours
Component Area VII	3	ETEC 4340	3
CISE 3384	3	INED 4364	3
ETEC Program Advanced Electives	6	CISE 4378	3
PHYS 1302 & PHYS 1102	4	CISE 4380	3
	16		12

Fourth Year

Fall	Hours	Spring	Hours
CISE 4364	3	Component Area IX	3
CISE 4379	3	MATH 3379 or ENGL 3330	3
INED 4310	3	CISE 4394	3
INED 4391	3	CISE 4396 or 4397	3
ETEC Program Advanced Electives	6		
	18		12

Total Hours: 123-125

[1] Satisfies Component Area II (Mathematics). MATH 1420 also satisfies one semester credit hour of Component Area IX (Component Option Area).

Bachelor of Science, Major in Engineering Technology, Civil Engineering 2+2

Code	Title	Hours
Bachelor of Science, Major in Engineering Technology, Civil Engineering 2+2		
Core Curriculum		
Component Area I (Communication)		6
Component Area II (Mathematics)		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4

Degree Specific Requirements		
CHEM 1411	General Chemistry I [1]	4
CHEM 1412	General Chemistry II [1]	4
MATH 1420	Calculus I	4
MATH 1430	Calculus II	4
PHYS 1411	Introduction To Physics I	4
PHYS 1422	Introduction To Physics II	4
Major Core		
ETDD 1361	Engineering Graphics	3
ETEC 1010	Engineering Foundations	2
MATH 2440	Calculus III	4
Major		
PHYS 3360	Statics And Dynamics	3
MATH 3376	Differential Equations	3
PHYS 3395	Electronics & Circuit Analysis	3
PHYS 3115	Electronic & Circuit Anlys Lab	1
Total Hours		77

[1] Satisfies the Core Curriculum requirement for Component Area III (Life and Physical Sciences) as well as the major.

Note: This catalog degree plan is intended for students who will be completing the degree at University of Texas at Tyler (UT-Tyler). Students who enter this program complete partial semester credit hours (80) at Sam Houston State University and transfer to UT-Tyler to complete the remaining needed semester credit hours and to be awarded a degree in Civil Engineering.

Bachelor of Science, Major in Engineering Technology, Electrical Engineering 2+2

Code	Title	Hours
Bachelor of Science, Major in Engineering Technology, Electrical Engineering 2 +2		
Core Curriculum		
Component Area I (Communication)		6
Component Area II (Mathematics)		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		3
Degree Specific Requirements		
CHEM 1411	General Chemistry I [1]	4
CHEM 1412	General Chemistry II [1]	4
MATH 1420	Calculus I	4
MATH 1430	Calculus II	4
PHYS 1411	Introduction To Physics I	4
PHYS 1422	Introduction To Physics II	4
Major Core		
COSC 1436	Programming Fundamentals I	4
ETDD 1361	Engineering Graphics	3
ETEC 1010	Engineering Foundations	2
MATH 2440	Calculus III	4
Major		
MATH 3376	Differential Equations	3

PHYS 3115	Electronic & Circuit Anlys Lab	1
PHYS 3395	Electronics & Circuit Analysis	3
Total Hours		77

[1] Satisfies the Core Curriculum requirement for Component Area III (Life and Physical Sciences) as well as the major.

Note: This catalog degree plan is intended for students who will be completing the degree at University of Texas at Tyler (UT-Tyler). Students who enter this program complete partial semester credit hours (80) at Sam Houston State University and transfer to UT-Tyler to complete the remaining needed semester credit hours and to be awarded a degree in Electrical Engineering.

Bachelor of Science, Major in Engineering Technology, Mechanical Engineering 2+2

Code	Title	Hours
Bachelor of Science, Major in Engineering Technology, Mechanical Engineering 2+2		
Core Curriculum		
Component Area I (Communication)		6
Component Area II (Mathematics)		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture		3
Component Area V (Creative Arts)		6
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		3
Component Area VIII (Social and Behavioral Sciences		3
Component Area IX (Component Area Option		4
Degree Specific Requirements		
MATH 1420	Calculus I	4
MATH 1430	Calculus II	4
CHEM 1411	General Chemistry I [1]	4
CHEM 1412	General Chemistry II [1]	4
PHYS 1411	Introduction To Physics I	4
PHYS 1422	Introduction To Physics II	4
Major Core		
COSC 1436	Programming Fundamentals I	4
ETEC 1010	Engineering Foundations	2
ETDD 1361	Engineering Graphics	3
MATH 2440	Calculus III	4
Major		
MATH 3376	Differential Equations	3
PHYS 3115	Electronic & Circuit Anlys Lab	1
PHYS 3360	Statics And Dynamics	3
PHYS 3395	Electronics & Circuit Analysis	3
Total Hours		81

[1] Satisfies the Core Curriculum requirement for Component Area III (Life and Physical Science) as well as the major.

Note: This catalog degree plan is intended for students who will be completing the degree at University of Texas at Tyler (UT-Tyler). Students who enter this program complete partial semester credit hours (80) at Sam Houston State University and transfer to UT-Tyler to complete the remaining needed semester credit hours and to be awarded a degree in Mechanical Engineering.

Minor in Construction Management

Code	Title	Hours
Minor in Construction Management		
ETCM 1363	Wood Frame Construction	3

ETCM 2363	Architectural Design	3
or ETCM 3372	Construction Drafting	
ETCM 3368	Concrete/Masonry Construction	3
or ETCM 4330	Construction Mgt & Procedures	
ETCM 4368	Building Materials	3
ETCM 4370	Construction Plans & Documents	3
ETEC 4340	Alternative Energy Technology	3
ETCM 4371	Building Information Modeling	3
Total Hours		21

Minor in Design and Development

Code	Title	Hours
Minor in Design and Development		
ETDD 1361	Engineering Graphics	3
ETCM 2363	Architectural Design	3
or ETCM 3372	Construction Drafting	
ETDD 3310	Product Design & Development	3
ETEC 3367	Engineering Materials Techn	3
ETDD 3379	Industrial Systems Drafting	3
ETDD 4339	Computer-Aided Drafting Produc	3
ETDD 4388	3D Parametric Design	3
Total Hours		21

Minor in Electronics

Code	Title	Hours
Minor in Electronics		
ETEE 1340	Electronics Technology I	3
ETEE 2320	Electronics Technology II	3
ETEE 3350	Solid State Electronics	3
ETEE 3373	Industrial Electronics	3
ETEC 3376	Microcontroller Applications	3
ETEE 4351	Automation & Control Systems	3
ETEE 4373	Digital Electronics	3
Total Hours		21

Minor in Industrial Safety Management

Code	Title	Hours
Minor in Industrial Safety Management		
ETSM 3363	Safety Program Management	3
ETDD 4380	Material Hand & Plant Layout	3
ETSM 4382	Industrial Safety	3
INED 4310	Occup. Human Relations in CTE	3
or ETEC 4384	Supervisory Personnel Practice	
Advanced Safety Management (ETSM) Electives		9
Total Hours		21

Minor in Interior Design

Code	Title	Hours
Minor in Interior Design		
ETDD 1361	Engineering Graphics	3

ETEC 1371	Descriptive Geometry	3
ETCM 2363	Architectural Design	3
ETCM 3368	Concrete/Masonry Construction	3
ETCM 3372	Construction Drafting	3
ETCM 4368	Building Materials	3
ETCM 4370	Construction Plans & Documents	3
Total Hours		21

Minor in Trades and Industry Certification

The 21-hour minor in Trades and Industry Certification may be selected to accompany any approved major at Sam Houston State University except General Engineering Technology.

Code	Title	Hours
Minor in Trades and Industry Certification		
INED 4310	Occup. Human Relations in CTE	3
INED 4363	Preparation Of Instructnal Mtr	3
INED 4364	Teaching in Schools & Industry	3
INED 4379	Occupatnl Analysis & Curr Dvlp	3
INED 4382	Work-Based Learning	3
INED 4391	Lab Mgt,Organization & Control	3
3 hours INED Advanced Elective		3
Total Hours		21

Department of Biological Sciences

Chair: T (cwh005@shsu.edu)amara J. Cook (936) 294-1557

Website: Department of Biological Sciences (http://www.shsu.edu/academics/biological-sciences)

Mission

The Department of Biological Sciences is dedicated to the pursuit and dissemination of knowledge and scientific discovery in the life sciences through innovative teaching and research programs. The department strives to instill in its students the philosophy of lifelong scholarship, producing scientifically literate members of society who have the knowledge to contribute and compete in a rapidly changing world.

Academic Programs

Biology, the study of living things, is an exciting and dynamic field that offers many areas of focus. Students may choose to study how life functions at the molecular, cellular, organismal, or ecological levels. The biological sciences provide opportunities to study viruses, bacteria, fungi, plants, and animals and to investigate the biochemical, physiological, morphological, anatomical, behavioral, ecological, and evolutionary processes that make each organism unique.

Highlights

The Department of Biological Sciences is located in the Lee Drain Building (http://www.shsu.edu/map/gmap_data/info.php?loc=53), which houses facilities including the following teaching laboratories:

- the Warner Herbarium
- Sam Houston State University Arthropod Collection
- Sam Houston State Vertebrate Museum and Texas Bird Sound Library
- an animal rearing facility
- greenhouse
- outdoor aviary

And the following research laboratories:

- scanning electron microscopy
- molecular biology
- microbiology
- morphology

The department operates the Center for Biological Field Studies, a 250 acre field station within 5 miles of campus that is dedicated to biological and environmental research and teaching.

Program Specific Requirements

Candidates for the Bachelor of Science (BS) in Biology or Biomedical Sciences or Bachelor of Arts (BA) in Biology are required to complete an Exit Exam in Biology to be eligible for graduation. The Department of Biological Sciences administers the Exit Exam once during the Spring semester at no cost to the student. A student is eligible to take the Exit Exam upon completion of all required biology credits or during the semester immediately prior to graduation (August graduates must take the examination during the Spring semester immediately prior to graduation). The exam score, although part of the student's record, has no effect on the student's GPA.

Curriculum

Major in Biology

The Bachelor of Arts or Bachelor of Science in Biology are ideal degrees for students interested in gaining a broad background in the biological sciences, while allowing flexibility to focus on a specific biology sub-discipline. All students majoring in biology will develop competence in the fundamental principles of biology and will gain experience in botany, zoology, cellular biology, microbiology, genetics, ecology and evolution. Students take an active role in creating a degree plan that best meets their interests and their career goals. Most students pursue careers in terrestrial ecology, animal physiology, animal behavior, medical professions, biotechnology, or teacher education. Students interested in forensic science combine an extensive background in biology with substantial coursework in chemistry and criminal justice to prepare them for work with state and federal agencies.

Required Courses for the Major

The biology major may choose from two degree programs, the Bachelor of Arts or Bachelor of Science. All majors must complete the following core courses:

Code	Title	Hours
Required Courses		
BIOL 1411	General Botany	4
BIOL 1413	General Zoology	4
BIOL 2440	Introductory Cell Biology	4
BIOL 3409	General Ecology	4
BIOL 3450	Introductory Genetics	4
BIOL 3470	General Microbiology	4
BIOL 4110	Undergraduate Seminar	1
BIOL 4111	Undergraduate Seminar	1
BIOL 4361	Introductory Evolutionary Bio	3
Total Hours		29

Students may choose their area of specialization contingent upon completion of the required core courses.

Major in Biomedical Sciences

The Biomedical Sciences degree offered by the Department of Biological Sciences provides a robust, yet flexible curriculum with an emphasis on studying the biological basis of health and disease. All students majoring in Biomedical Sciences will develop competence in the fundamental principles of biology and will gain experience in botany, zoology, cellular biology, microbiology, genetics, chemistry, mathematics and evolution. The Biomedical Sciences degree is designed to thoroughly prepare students for entrance into medical, dental, pharmacy, physician assistant, and other professional schools, as well as graduate study in the biomedical sciences and employment as a laboratory research assistant. No minor is required for the degree.

Required Courses for the Major

All Biomedical Sciences majors must complete the following core courses:

Code	Title	Hours
Course Requirements		
BIOL 1411	General Botany	4
BIOL 1413	General Zoology	4
BIOL 2440	Introductory Cell Biology	4
BIOL 3450	Introductory Genetics	4
BIOL 3470	General Microbiology	4
BIOL 4361	Introductory Evolutionary Bio	3
BIOL 4374	Biostatistics	3
or MATH 1430	Calculus II	
CHEM 1411	General Chemistry I	4
CHEM 1412	General Chemistry II	4
CHEM 2323	Organic Chemistry I: Lecture	3
CHEM 2123	Organic Chemistry I Lab	1
CHEM 2325	Organic Chemistry II: Lecture	3
CHEM 2125	Organic Chemistry II: Lab	1
CHEM 3438	Biochemistry I	4
MATH 1420	Calculus I	4
PHYS 1301	General Phy-Mechanics & Heat	3
PHYS 1101	General Physics Laboratory I	1
PHYS 1302	Gen Phy-Snd,Lght, Elec, & Mag	3
PHYS 1102	General Physics Laboratory II	1
Total Hours		58

Students may choose their area of specialization contingent upon completion of the required core courses.

- Bachelor of Arts, Major in Biology
- Bachelor of Science, Major in Biology

- Bachelor of Science, Major in Biomedical Sciences
- Bachelor of Science, Major in Composite Science-Biology Concentration
- Minor in Biology
- Minor in Environmental Science
- Minor in Conservation Biology

Student Organizations

- Beta Beta Beta (TriBeta) (https://shsu.collegiatelink.net/organization/TriBeta) is an undergraduate national Biological Honor society. The organization was founded in 1922 and the Delta Tau chapter at SHSU was chartered in 1965. TriBeta is dedicated to advancing the understanding and appreciation of the biological sciences and encouraging/supporting undergraduate student scientific research. TriBeta membership requires:
  - a declared major in Biology, Biomedical Sciences or related biological field; and
  - a dedicated interest in the life sciences (associate member) or completion of at least one 3000- or 4000-level biology course with a BIO GPA of 3.0 and overall SHSU GPA of 2.75 (regular member).

Membership invitations are sent to eligible students each fall and spring semester. Dr. Jim Harper (jmh091@shsu.edu)serves as faculty advisor to TriBeta.

- Sam Houston Association of Medical Oriented Students (SHAMOS) (http://www.shsu.edu/~org_shamos) membership is available to any student interested in pursuing a career in the medical or health professions. Activities include fundraisers, community service projects, blood drives with the Gulf Coast Regional Blood Center, and canned food drives. SHAMOS sponsors an outside speaker program to inform students of the opportunities and benefits of the various disciplines of the health professions (e.g., general and specialist dentistry, general and specialist medicine, occupational therapy, physician assistant, podiatry, forensic pathology, and EMS). Dr. (bio_arg@shsu.edu) Anne Gaillard (bio_arg@shsu.edu)serves as faculty advisor to SHAMOS.

Internships and Undergraduate Research

The Department of Biological Sciences believes that "hands on" experiences, through either internships or faculty-directed undergraduate research projects, are an important complement to a student's formal coursework. Moreover, undergraduate research experience is critical for students applying to graduate programs or professional schools. We therefore strongly encourage Biology students to consider participating in an undergraduate research project. Students seeking information regarding internships and/or undergraduate research experiences should contact the Department Chair Dr. Tamara Cook (CWH005@shsu.edu). Individual faculty members may be contacted for details regarding their research programs and independent research possibilities.

Academic Distinction

Graduation with “Academic Distinction in Biological Sciences” is available at SHSU. This honor is recognized at the commencement ceremony, posted to the diploma, and to the academic transcript. Requirements for earning Academic Distinction are:

1) Students must maintain a GPA in their major of 3.50 or above and overall GPA of 3.25 or above to be eligible for Academic Distinction.

2). Students must complete six hours in the Academic Distinction program by taking in sequence Senior Thesis I (BIOL 4398) and Senior Thesis II (BIOL 4399). These credits, by University rule, cannot count towards any requirement in the degree plan, i.e. they must be in addition to normal graduation requirements.

2) Before a student enrolls in BIOL4398 and declares an intention to earn Academic Distinction, the student must obtain written permission from the Department Chair, the Director of the Honors College, and the Academic Dean (Dean of Science and Engineering Technology).

If you are interested in the Academic Distinction program, please contact the Department Chair.

Scholarships

Academic scholarships are available from both the Department of Biological Sciences and the University to support student studies.

The Department of Biological Sciences scholarships include:

- Biology & Environmental Science Academic Scholarship
- Claude McLeod Academic Scholarship
- Emma Normand Academic Scholarship
- Everett Wilson Biology Endowment
- Harold F. Foerster Scholarship Endowment

- James D. Long Biology Endowment
- James Patrick Weber Environmental Science Award
- Patrick Neil O'Bryant Academic Scholarship
- Roy Turner Scholarship Endowment
- S.R. Warner Academic Scholarship
- William (Bill) R. Brinkley Scholarship Endowment
- Wilson-Warner Endowed Scholarship in the Biological Sciences

Departmental scholarship information may be obtained by writing to:

Scholarships
Department of Biological Sciences
Box 2116, SHSU
Huntsville, Texas 77341-2116

or by visiting Biology Scholarships. (http://www.shsu.edu/~bio_www/scholarships.html) Information on University scholarships may be obtained at Office of Academic Scholarships (http://www.shsu.edu/dept/financial-aid/scholarships) or telephone (936) 294-1672.

Chair: **Tamara J. Cook**

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Lori Ann Rose, MS (bio_lah@shsu.edu), *Adjunct Faculty*, *Department of Biological Science*, MS, Wichita State University; BS, Fort Hays State University

Autumn Jane Smith-Herron, PHD (smith-herron@shsu.edu), *Adjunct Faculty, FYE*, *Department of Biological Science*, PHD, Texas AM-Kingsville; MS, Sam Houston State University; BS, Peru State College

Carly M Tribull, BA, *Visiting Assistant Professor of Biological Sciences*, *Department of Biological Science*, BA, Univ of Calif-Berkeley; BA, Univ of Calif-Berkeley

Timothy N Tripp, PHD (tnt012@shsu.edu), *Lecturer of Biology*, *Department of Biological Science*, PHD, Univ of Georgia; MS, Oklahoma State University; BS, Oklahoma State University

Bachelor of Arts, Major in Biology

Code	Title	Hours
Bachelor of Arts, Major in Biology		
Core Curriculum		
Component Area I (Communication)		6
Component Area II (Mathematics)		3
Component Area III (Life and Physical Science) (Courses for Science Majors)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4
Degree Specific Requirements		
Select one of the following:		3
BIOL 4374	Biostatistics	
MATH 3379	Statistical Mthods In Practice	
STAT 3379	Statistical Methds In Practice	
CHEM 1411	General Chemistry I	4
CHEM 1412	General Chemistry II	4
FOLG 1411	Beginning Foreign Language I	4
FOLG 1412	Beginning Foreign Language II (must be from the same group)	4
FOLG 2311	Intermediate Foreign Language	3
FOLG 2312	Intermed Foreign Language II (must be from the same group)	3
MATH 1410	Elementary Functions	4
Major Core		
BIOL 1411	General Botany	4
BIOL 1413	General Zoology	4
BIOL 2440	Introductory Cell Biology	4
BIOL 3409	General Ecology	4
BIOL 3450	Introductory Genetics	4
BIOL 3470	General Microbiology	4
BIOL 4110	Undergraduate Seminar	1
BIOL 4111	Undergraduate Seminar	1
BIOL 4361	Introductory Evolutionary Bio	3
Major		
Advanced BIOL electives (Select four 3000-4000 level courses) [1]		14
Minor (required)		
Select any minor [2]		18
Advanced General Electives		
Any advanced (3000-4000 level) courses from any department needed to meet 120 hour and SHSU advanced hour requirements [3]		6
Total Hours		120

1. Advanced Biology Electives should be selected according to specific areas of study as determined by the student and their academic advisor. Students who take BIOL 4080, BIOL 4394, or BIOL 4095 are allowed to apply only one of these courses to their Advanced Biology Electives requirement.
2. Recommended minor is Chemistry or Mathematics.
3. Students should use the elective and/or minor hours to meet the 42-advanced hour requirement for graduation.

Note:

This total reflects MATH 1314 satisfying the Core Curriculum requirement for Component Area II (Mathematics), BIOL 1411 and BIOL 1413 satisfying the Core Curriculum requirement for Component Area III (Life and Physical Science), and FOLG 2311 satisfying part (3 semester credit hours) of Component Area IV (Language, Philosophy, and Culture) .

Teacher Certification in the Life Sciences

Biology & Biomedical Sciences Majors

Students may receive teacher certification in the Life Sciences for grades 8-12 by pairing a major in Biology (BS only as outlined above) with a Secondary Teacher Certification from the Department of Curriculum and Instruction. Students pursuing this degree combination should include BIOL 3492 as one of their advanced biology electives.

For students seeking a Secondary Teacher Certification in the Life Sciences, no grade below C in the science coursework in BIOL is accepted. The required education courses are:

Code	Title	Hours
Course Requirements		
CISE 3384	The Teaching Profession	3
CISE 4364	Mth Tch Secondary Schools	3
CISE 4378	Content Literacy	3
CISE 4380	Respon Of Pro Educator	3
CISE 4394	Creatng Env For Lrng-Secondary	3
CISE 4396	Std Tch Secondary Classroom	3
CISE 4397	Std Tch Secondary Classroom	3
Total Hours		21

First Year

Fall	Hours	Spring	Hours	Summer	Hours
BIOL 1411 or 1413[1]	4	BIOL 1413 or 1411[1]	4	Component Area V	3
CHEM 1411	4	CHEM 1412	4		
ENGL 1301[2]	3	ENGL 1302[2]	3		
FOLG 1411	4	FOLG 1412	4		
	15		15		3

Second Year

Fall	Hours	Spring	Hours	Summer	Hours
BIOL 2440	4	BIOL 3409, 3450, or 3470	4	General Elective	3
FOLG 2311[3]	3	FOLG 2312[3]	3		
HIST 1301[4]	3	HIST 1302[4]	3		
MATH 1410[5]	4	POLS 2305[7]	3		
	14		13		3

Third Year

Fall	Hours	Spring	Hours	Summer	Hours
BIOL 3409, 3450, or 3470	4	Component Area VIII	3	General Elective	3
BIOL 4374, MATH 3379, or STAT 3379	3	Biology Core	4		
Minor Course	3	BIOL 3409			
POLS 2306[7]	3	BIOL 3450			
Statistics		BIOL 3470			
		Biology Elective	3		
		Minor Course	3		
	13		13		3

Fourth Year

Fall	Hours	Spring	Hours
BIOL 4110	1	BIOL 4111	1

BIOL 4361	3 Biology Electives (See, Degree Works)	8
Biology Elective	3 Minor Courses	6
Minor Courses	6	
	13	15

Total Hours: 120

1 Satisfies Core Curriculum requirement for Component Area III (Life and Physical Science)

2 Satisfies Core Curriculum requirement for Component Area I (Communication)

3 Satisfies Core Curriculum requirement for Component Area IV Language, Philosophy, and Culture).

4 Satisfies Core Curriculum requirement for Component Area VI (U.S. History).

5 Satisfies Core Curriculum requirement for Component Area II (Mathematics) and one hour of Component Area IX (Component Area Option).

6 Satisfies three semester credit hours of the Core Curriculum requirement for Component Area IX (Component Area Option).

7 Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).

Note:

This total reflects MATH 1314 satisfying the Core Curriculum requirement for Component Area II (Mathematics), BIOL 1411 and BIOL 1413 satisfying the Core Curriculum requirement for Component Area III (Life and Physical Science), and FOLG 2311 satisfying part (3 semester credit hours) of Component Area IV (Language, Philosophy, and Culture) .

Bachelor of Science, Major in Biology

Code	Title	Hours
Bachelor of Science, Major in Biology		
Core Curriculum		
Component Area I (Communication)		6
Component Area II (Mathematics)		3
Component Area III (Life and Physical Science) (Courses for Science Majors)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4
Degree Specific Requirements		
CHEM 1411	General Chemistry I	4
CHEM 1412	General Chemistry II	4
CHEM 2323 & CHEM 2123	Organic Chemistry I: Lecture and Organic Chemistry I Lab	4
MATH 1420	Calculus I	4
Select one of the following:		3-4
MATH 1430	Calculus II	
MATH 3379	Statistical Mthods In Practice	
STAT 3379	Statistical Methds In Practice	
PHYS 1301 & PHYS 1101	General Phy-Mechanics & Heat and General Physics Laboratory I	4
PHYS 1302 & PHYS 1102	Gen Phy-Snd,Lght, Elec, & Mag and General Physics Laboratory II	4
Major Core		
BIOL 1411	General Botany	4
BIOL 1413	General Zoology	4
BIOL 2440	Introductory Cell Biology	4
BIOL 3409	General Ecology	4
BIOL 3450	Introductory Genetics	4

BIOL 3470	General Microbiology	4
BIOL 4110	Undergraduate Seminar	1
BIOL 4111	Undergraduate Seminar	1
BIOL 4361	Introductory Evolutionary Bio	3
Major		
BIOL advanced electives (Select five 3000-4000 level courses) [1]		15-20
Minor (required)		
Recommended minor is CHEM or MATH [2]		10
Advanced General Electives		
Any advanced 3000-4000 level courses from any department needed to meet 120 hour and SHSU advanced hour requirements [3]		9
Total Hours		120-126

1 Students who are not Chemistry minors may substitute CHEM 2325 for one of these advanced BIOL electives. Students who take BIOL 4080, BIOL 4394, or BIOL 4095 are allowed to apply only one of these courses to their Advanced Biology Electives requirement.

2 Students choosing CHEM as their minor cannot substitute CHEM 2325 for an advanced BIOL elective.

3 Students should use the elective and/or minor hours to meet the 42-advanced hour requirement for graduation.

Note

This total reflects MATH 1420 satisfying Component Area II and one hour of Component Area IX, and BIOL 1411 and BIOL 1413 satisfying Component Area III.

Teacher Certification in the Life Sciences

Biology & Biomedical Sciences Majors

Students may receive teacher certification in the Life Sciences for grades 8-12 by pairing a major in Biology (BS only as outlined above) with a Secondary Teacher Certification from the Department of Curriculum and Instruction. Students pursuing this degree combination should include BIOL 3492 as one of their advanced biology electives.

For students seeking a Secondary Teacher Certification in the Life Sciences, no grade below C in the science coursework in BIOL is accepted. The required education courses are:

Code	Title	Hours
Course Requirements		
CISE 3384	The Teaching Profession	3
CISE 4364	Mth Tch Secondary Schools	3
CISE 4378	Content Literacy	3
CISE 4380	Respon Of Pro Educator	3
CISE 4394	Creatng Env For Lrng-Secondary	3
CISE 4396	Std Tch Secondary Classroom	3
CISE 4397	Std Tch Secondary Classroom	3
Total Hours		21

First Year

Fall	Hours	Spring	Hours	Summer	Hours
BIOL 1411 or 1413[1]	4			3 Component Area V	3
CHEM 1411	4	BIOL 1411 or 1413[1]	4		
ENGL 1301[2]	3	CHEM 1412	4		
MATH 1420[3]	4	ENGL 1302[2]	3		
	15		14		3

Second Year

Fall	Hours	Spring	Hours	Summer	Hours
BIOL 2440	4	Component Area IX	3	General Electives	4
CHEM 2323 & CHEM 2123	4	BIOL 3409, 3450, or 3470	4		
HIST 1301[4]	3	HIST 1302[4]	3		

MATH 1430, 3379, or STAT 3379	3-4 POLS 2305[5]	3	
	14-15	13	4

Third Year

Fall	Hours	Spring	Hours
BIOL 3409, 3450, or 3470	4	Component Area VIII	3
PHYS 1301 & PHYS 1101	4	BIOL 3409, 3450, or 3470	4
POLS 2306[5]	3	Biology Elective	4
Minor Course	4	PHYS 1302 & PHYS 1102	4
	15		15

Fourth Year

Fall	Hours	Spring	Hours
BIOL 4110	1	BIOL 4111	1
BIOL 4361	3	Biology Electives	3-8
Biology Electives	8	General Electives	5
Minor Course	3	Minor Course	3
	15		12-17

Total Hours: 120-126

1 Satisfies Core Curriculum requirement for Component Area III (Life and Science).

2 Satisfies Core Curriculum requirement for Component Area I (Communications)

3 Satisfies Core Curriculum requirement for Component Area II (Mathematics) and one semester credit hour of Component Area IX (Component Area Option).

4 Satisfies Core Curriculum requirement for Component Area VI (U.S. History).

5 Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).

Bachelor of Science, Major in Biomedical Science

Major in Biomedical Sciences

The Biomedical Sciences degree offered by the Department of Biological Sciences provides a robust, yet flexible curriculum with an emphasis on studying the biological basis of health and disease. It is designed to thoroughly prepare students for entrance into medical, dental, pharmacy, physician assistant, and other professional schools, as well as graduate study in the biomedical sciences and employment as a laboratory research assistant. No minor is required for this degree.

Required Courses for the Major

The Biomedical Science Major must complete the following courses:

Code	Title	Hours
Bachelor of Science, Major in Biomedical Sciences		
Core Curriculum		
Component Area I (Communication)		6
Component Area II (Mathematics)		3
Component Area III (Life and Physical Science) (Courses for Science Majors)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4
Degree Specific Requirements		
CHEM 1411	General Chemistry I	4

CHEM 1412	General Chemistry II	4
CHEM 2323	Organic Chemistry I: Lecture	3
CHEM 2123	Organic Chemistry I Lab	1
CHEM 2325	Organic Chemistry II: Lecture	3
CHEM 2125	Organic Chemistry II: Lab	1
CHEM 3438	Biochemistry I	4
MATH 1420	Calculus I	4
Select one of the following:		3-4
MATH 1430	Calculus II	
MATH 3379	Statistical Mthods In Practice	
STAT 3379	Statistical Methds In Practice	
PHYS 1301	General Phy-Mechanics & Heat	3
PHYS 1101	General Physics Laboratory I	1
PHYS 1302	Gen Phy-Snd,Lght, Elec, & Mag	3
PHYS 1102	General Physics Laboratory II	1
Major Core		
BIOL 1411	General Botany	4
BIOL 1413	General Zoology	4
BIOL 2440	Introductory Cell Biology	4
BIOL 3450	Introductory Genetics	4
BIOL 3470	General Microbiology	4
BIOL 4361	Introductory Evolutionary Bio	3
Major Electives		
Select 21 SCH of the Biomedical Electives:		21
ANSC 3373	Animal Nutrition	
BIOL 3409	General Ecology	
BIOL 3420	Comparative Vertebrate Anatomy	
BIOL 3440	General Physiology	
BIOL 3460	Pathophysiology	
BIOL 3480	Developmental Biology	
BIOL 3490	Histology	
BIOL 4095	Undergrad Rsrch Tpcs-Biology	
BIOL 4410	General Entomology	
BIOL 4350	Immunology	
BIOL 4360	Genetic Anlys of Human Disease	
BIOL 4363	Genomics and Bioinformatics	
BIOL 4380	Medical Microbiology	
BIOL 4460	Parasitology	
BIOL 4480	Molecular Biology	
BIOL 4490	Cell Biology	
BIOL 4493	Endocrinology	
CHEM 2401	Quantitative Analysis	
CHEM 3339	Biochemistry II	
COMS 2382	Comm. for Bus. & Professions [1]	
ENGL 3330	Intro To Technical Writing [1]	
HLTH 2372	Health & Medical Terminology [1]	
PSYC 3331	Abnormal Psychology [1]	
PSYC 3374	Development Psychology [1]	
Free Electives to reach 120 total credit hours		11
Total Hours		120-121

[1] No more than two of these courses may be applied toward the Biomedical Sciences degree. Students should consult with an academic advisor in the Biological Sciences early in their degree program regarding appropriate choices for their electives.

Note
This total reflects MATH 1420 satisfying Component Area II and one hour of Component Area IX, and BIOL 1411 and BIOL 1413 satisfying Component Area III.

Teacher Certification in the Life Sciences

Biology & Biomedical Sciences Majors

Students may receive teacher certification in the Life Sciences for grades 8-12 by pairing a major in Biology (BS only as outlined above) with a Secondary Teacher Certification from the Department of Curriculum and Instruction. Students pursuing this degree combination should include BIOL 3492 as one of their advanced biology electives.

For students seeking a Secondary Teacher Certification in the Life Sciences, no grade below C in the science coursework in BIOL is accepted. The required education courses are:

Code	Title	Hours
Course Requirements		
CISE 3384	The Teaching Profession	3
CISE 4364	Mth Tch Secondary Schools	3
CISE 4378	Content Literacy	3
CISE 4380	Respon Of Pro Educator	3
CISE 4394	Creatng Env For Lrng-Secondary	3
CISE 4396	Std Tch Secondary Classroom	3
CISE 4397	Std Tch Secondary Classroom	3
Total Hours		21

First Year

Fall	Hours	Spring	Hours
Component Area IV	3	BIOL 1411 or 1413[1]	4
BIOL 1411 or 1413[1]	4	CHEM 1412	4
CHEM 1411	4	ENGL 1302[2]	3
ENGL 1301[2]	3	MATH 1420[3]	4
	14		15

Second Year

Fall	Hours	Spring	Hours
Component Area V	3	Component Area IX	3
BIOL 2440	4	BIOL 3450 or 3470	4
CHEM 2323 & CHEM 2123	4	CHEM 2325 & CHEM 2125	4
HIST 1301[4]	3	HIST 1302[4]	3
MATH 1430, 3379, or STAT 3379	4	POLS 2305[5]	3
	18		17

Third Year

Fall	Hours	Spring	Hours
BIOL 3450 or 3470	4	Component Area VIII	3
CHEM 3438	4	BIOL 4361	3
PHYS 1301 & PHYS 1101	4	Biomedical Elective[6]	4
POLS 2306[5]	3	PHYS 1302 & PHYS 1102	4
	15		14

Fourth Year

Fall	Hours	Spring	Hours
Biomedical or Free Electives[6]		13-14 Biomedical or Free Electives[6]	14
		13-14	14

Total Hours: 120-121

1 Satisfies Core Curriculum requirement for Component Area III (Life and Physical Science).

2 Satisfies Core Curriculum requirement for Component Area I (Communications).

3 Satisfies Core Curriculum requirement for Component Area II (Mathematics).

4 Satisfies Core Curriculum requirement for Component Area VI (U.S. History).

5 Satisfies Core Curriculum requirement for Component Area VII (Political Science).

6 Biomedical Electives: ANSC 3373, BIOL 3409, BIOL 3420, BIOL 3440, BIOL 3460, BIOL 3480, BIOL 3490, BIOL 4095, BIOL 4410, BIOL 4350, BIOL 4360, BIOL 4363, BIOL 4380, BIOL 4460, BIOL 4480, BIOL 4490, BIOL 4493.

Minor in Biology

Students seeking a minor in biology are required to complete:

Code	Title	Hours
Minor in Biology		
BIOL 1411	General Botany	4
BIOL 1413	General Zoology	4
BIOL 2440	Introductory Cell Biology	4
CHEM 1411	General Chemistry I	4
CHEM 1412	General Chemistry II	4
Select two of the following:		8
BIOL 3409	General Ecology	
BIOL 3450	Introductory Genetics	
BIOL 3470	General Microbiology	
BIOL 4361	Introductory Evolutionary Bio	
Total Hours		28

Note
This minor is not available to students majoring in Biology, Biomedical Sciences, or Health Sciences.

Minor in Conservation Biology

A minor in Wildlife Ecology (WECO) is also available. Students in the minor are required to take:

Code	Title	Hours
Minor in Conservation Biology		
BIOL 1411	General Botany	4
BIOL 1413	General Zoology	4
BIOL 3364	Plant Taxonomy	3
BIOL 3409	General Ecology	4
BIOL 3461	Fish Wildlife Recreation Mngt	4
Select one of the following:		3-4
BIOL 4330	Aquatic Biology	
BIOL 4430	Vertebrate Natural History	
BIOL 4470	Animal Behavior	
CHEM 1411	General Chemistry I	4
CHEM 1412	General Chemistry II	4
Total Hours		30-31

This minor is most commonly paired with the Interdisciplinary Agriculture--Animal Science major, although not restricted to that. Note: Students who major in Biology can take the Wildlife Ecology minor from the Department of Agricultural Sciences.

Note:
This minor is not available to students majoring in Biology.

Minor in Environmental Science

A minor in Environmental Science is available. Students in the minor are required to take:

Code	Title	Hours
Minor in Environmental Science		
BIOL 1401	Environmental Science	4
BIOL 2420	Intro Applied Microbiology	4
or BIOL 3470	General Microbiology	
ENVR 4305	Hazardous Waste Management	3
CHEM 1411	General Chemistry I	4
CHEM 1412 & CHEM 2401	General Chemistry II and Quantitative Analysis	8
CHEM 4442	Air Quality	4
ENVR 3305	Legal Aspects Of Polution Cont	3
ENVR 3430	Water Supply & Waste Water Dis	4
Total Hours		34

Department of Chemistry

The Department of Chemistry is approved by the American Chemical Society.

Chair: Richard (Rick) E. Norman (norman@shsu.edu) (936) 294-1527

Website: Department of Chemistry (http://www.shsu.edu/~chemistry)

Mission

The Department of Chemistry is committed to providing an educational environment conducive to scholarship, intellectual development, and the acquisition of a foundation of knowledge and techniques required of professional chemists. This goal requires the effective representation of the fundamental areas of chemistry, a dedicated and creative faculty, and support for the many functions of the department.

Academic Programs

For a listing of programs offered within the Department of Chemistry, please, reference the **Programs** tab on this page.

The Department of Chemistry is approved by the American Chemical Society. Chemistry majors may pursue the Bachelor of Science for professional chemists that leads to American Chemical Society certification and prepares students for graduate studies in traditional chemical fields. Students interested in professional schools, chemistry-associated industries, or secondary education may pursue this Bachelor of Science degree for other technical careers. The Bachelor of Science degree in Chemistry with emphasis in Biochemistry-Biotechnology prepares students for careers in biotech companies in the Houston area and across the state and nation. The growing interest in Forensic Science has prompted the Department of Chemistry to offer a Bachelor of Science in Forensic Chemistry that is designed to prepare students for careers combining a knowledge of chemistry and the legal system. Students completing this degree can pursue opportunities in various forensic labs across the country, or can continue their education either in the graduate program in Forensic Science, or in graduate programs that are more traditional.

Highlights

- The Department of Chemistry has a study abroad program in Germany in which students carry out summer undergraduate research in a German University and can experience the culture and approach to chemical education in Europe.
- Chemistry majors work with faculty on state of the art research in the Chemistry and Forensic Science Building research laboratories.

Career Opportunities

Everything around you is composed of chemicals. We live in a world of chemicals and life would not be possible without them. An understanding of the fundamentals of chemistry is important for everyone in today's society. Professional chemists are working to enhance our quality of life by improvements in food, medicine, clothing, building supplies, products for recreation, and a whole range of consumer products.

Virtually every industry or business that makes or sells a product is involved in chemistry. It is no wonder that the various areas of chemical and biochemical technology offer the largest field of employment in the physical sciences. Chemists are employed in fields such as:

- Environmental Analysis
- Agriculture
- Biotechnology
- Pharmaceutical Research
- Waste Management
- Energy Production
- Forensic Science
- Petrochemical Industry

Chemistry graduates will find many applications for their training in the fields of education, business, industry, law, government, and medicine.

Suggested Minors

A variety of minors can complement a major in chemistry. Some of the more popular minors in recent years have been biology, criminal justice, general business, and mathematics. Others have included education, history, political science, and psychology.

Curriculum

Chemistry students learn how to critically examine and analyze observations, to use chemical understanding to propose solutions to problems of a quantitative or qualitative nature that may arise in industry, in academia, or in various careers associated with chemistry. Students majoring in Chemistry have the opportunity for hands-on experience in working with atomic absorption, gas chromatography, high performance liquid

chromatography, ultraviolet and visible spectroscopy, 60 MHz and 300 MHz nuclear magnetic resonance spectroscopy, mass spectrometry, ion chromatography, capillary electrophoresis, and other standard instrumentation in chemistry.

- Bachelor of Science, Major in Chemistry for Professional Chemists
- Bachelor of Science, Major in Chemistry for Other Technical Careers
- Bachelor of Science, Major in Forensic Chemistry
- Bachelor of Science, Major in Chemistry/Chemical Engineering
- Bachelor of Science, Major in Composite Science-Chemistry Concentration
- Minor in Chemistry

Student Organizations

Chemistry Club - The Chemistry Club is an active organization which encourages student interactions in a social atmosphere and which supports student travel to professional meetings.

Scholarships

Scholarships are available from the Department in Chemistry and from the University to support students' studies. For further information, contact the Chair, Department of Chemistry, or visit Department of Chemistry (http://www.shsu.edu/academics/chemistry). Information on University scholarships may be obtained at Office of Academic Scholarships (http://www.shsu.edu/dept/financial-aid/scholarships) or telephone (936) 294-1774.

Chair: **Richard E Norman**

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Samuel L Perkins, PHD (slp018@shsu.edu), *Lecturer of Chemistry*, *Department of Chemistry*, PHD, Texas AM University; BS, Univ of Texas At Austin

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Ricky C. White, PHD (chm_rcw@shsu.edu), *Professor of Chemistry*, *Department of Chemistry*, PHD, University of Iowa; MA, Sam Houston State University; BS, Sam Houston State University

Bachelor of Science, Major in Chemistry for Other Technical Careers

Code	Title	Hours
Bachelor of Science, Major in Chemistry for Other Technical Careers		
Core Curriculum		
Component Area I (Communication)		6
Component Area II (Mathematics) [1]		4
Component Area III (Life and Physical Sciences) [2]		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (American History)		6
Component Area VII (Government/Political Science)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Area IV elective or Oral Communication)		3
Degree Specific Requirements		
ENGL 3330	Intro To Technical Writing	3
MATH 1420	Calculus I [1]	4
MATH 1430	Calculus II	4
PHYS 1301 & PHYS 1101	General Phy-Mechanics & Heat and General Physics Laboratory I	4
PHYS 1302 & PHYS 1102	Gen Phy-Snd,Lght, Elec, & Mag and General Physics Laboratory II	4
Major Core		
Major		
CHEM 1411	General Chemistry I [2]	4
CHEM 1412	General Chemistry II [2]	4
CHEM 2323 & CHEM 2123	Organic Chemistry I: Lecture and Organic Chemistry I Lab	4
CHEM 2325 & CHEM 2125	Organic Chemistry II: Lecture and Organic Chemistry II: Lab	4
CHEM 2401	Quantitative Analysis	4
CHEM 4100	Chemical Literature Seminar	1
CHEM 4260	Advanced Integrated Laboratory	2
CHEM 4367	Advanced Inorganic Chemistry	3
CHEM 4395	Undergrad Research In Chem	3
CHEM 4440	Instrumental Analytical Chem	4
CHEM 4448	Physical Chemistry I	4
CHEM Advanced elective [3]		3-4
Minor (if required)		
A minor, including 6 advanced hours is required [4]		10
Electives		
General electives		7
Advanced electives		12-13
Total Hours		120

1. MATH 1420 satisfies the Core Curriculum requirement for Component Area II (mathematics), the one semester credit hour Core Curriculum requirement for Component Area IX (Component Area Option), and the Degree Specific requirement.
2. CHEM 1411 and CHEM 1412 satisfy the Core Curriculum requirement for Component Area III (Life and Physical Science) requirement and the Major requirement.
3. CHEM 3361, CHEM 3367, CHEM 3368, CHEM 3438, CHEM 4442, and CHEM 4443 are recommended.
4. A minor in MATH, for instance, only requires 10 additional hours beyond MATH 1420 and MATH 1430.

Notes

1. A grade of C or higher is required for CHEM 1411, CHEM 1412, CHEM 2323, CHEM 2123, CHEM 2325, CHEM 2125, CHEM 2401, and CHEM 4448, and in all required Physics and Mathematics courses.
2. A minor generally requires six semesters of coursework, a minimum of 18 credits (six advanced) in an approved field. Students should use elective and minor hours to satisfy the 42 advanced hour requirement.

First Year

Fall	Hours	Spring	Hours
CHEM 1411[1]	4	CHEM 1412[1]	4
ENGL 1301[2]	3	ENGL 1302[2]	3
HIST 1301[3]	3	HIST 1302[3]	3
MATH 1420[4]	4	MATH 1430	4
Elective[5]	3		
	17		14

Second Year

Fall	Hours	Spring	Hours
Component Area IV	3	CHEM 2325	3
CHEM 2123	1	CHEM 2125	1
CHEM 2323	3	ENGL 3330	3
CHEM 2401	4	Minor Course[6]	4
PHYS 1101	1	PHYS 1102	1
PHYS 1301	3	PHYS 1302	3
	15		15

Third Year

Fall	Hours	Spring	Hours
CHEM 4448	4	Component Area IX	3
Elective (Advanced)	3	CHEM Advanced Elective[8]	3-4
Elective	2	Elective (Advanced)	3-4
POLS 2305[7]	3	Elective	3
Minor Course (Advanced)[6]	3	POLS 2306[7]	3
	15		16

Fourth Year

Fall	Hours	Spring	Hours
Component Area VIII	3	Component Area V	3
CHEM 4100	1	CHEM 4260	2
CHEM 4440	4	CHEM 4367	3
Elective (Advanced)	3	CHEM 4395	3
Minor Course (Advanced)[6]	3	Elective (Advanced)	3
	14		14

Total Hours: 120

1 Satisfies Core Curriculum requirement for Component Area III (Life and Physical Science).
2 Satisfies Core Curriculum requirement for Component Area I (Communications).
3 Satisfies Core Curriculum requirement for Component Area VI (U.S. History).
4 Satisfies Core Curriculum requirement for Component Area II (Mathematics).
5 UNIV 1301 or another elective.
6 A minor requires 6 semester credit hours of coursework, a minimum of 18 semester credit hours (6 advanced) in an approved field.
7 Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).
8 CHEM 3361, CHEM 3367, CHEM 3368, CHEM 3438, CHEM 3339, CHEM 4442, CHEM 4443 are recommended.

Notes

1. A grade of C or higher is required for CHEM 1411, CHEM 1412, CHEM 2323, CHEM 2123, CHEM 2325, CHEM 2125, CHEM 2401, and CHEM 4448, and in all required Physics and Mathematics courses.
2. Students should use elective and minor hours to satisfy the 42-advanced hour requirement. Advanced hours are 3000 and 4000-level courses.

Bachelor of Science, Major in Chemistry for Professional Chemists

Code	Title	Hours
Bachelor of Science, Major in Chemistry for Professional Chemists		
Core Curriculum		
Component Area I (Communication)		6
Component Area II (Mathematics) [1]		4
Component Area III (Life and Physical Sciences) [2]		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (American History)		6
Component Area VII (Government/Political Science)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Area IV elective or Oral Communication)		3
Degree Specific Requirements		
ENGL 3330	Intro To Technical Writing	3
MATH 1420	Calculus I [1]	4
MATH 1430	Calculus II	4
PHYS 1301 & PHYS 1101	General Phy-Mechanics & Heat and General Physics Laboratory I	4
PHYS 1302 & PHYS 1102	Gen Phy-Snd,Lght, Elec, & Mag and General Physics Laboratory II	4
Major Core		
Major		
CHEM 1411	General Chemistry I [2]	4
CHEM 1412	General Chemistry II [2]	4
CHEM 2323 & CHEM 2123	Organic Chemistry I: Lecture and Organic Chemistry I Lab	4
CHEM 2325 & CHEM 2125	Organic Chemistry II: Lecture and Organic Chemistry II: Lab	4
CHEM 2401	Quantitative Analysis	4
CHEM 3438	Biochemistry I	4
CHEM 4100	Chemical Literature Seminar	1
CHEM 4440	Instrumental Analytical Chem	4
CHEM 4448	Physical Chemistry I	4
CHEM 4449	Physical Chemistry II	4
CHEM 4260	Advanced Integrated Laboratory	2
CHEM 4367	Advanced Inorganic Chemistry	3
CHEM 4395	Undergrad Research In Chem	3
CHEM Advanced elective [3]		3-4
Minor (if required)		
A minor, including 6 advanced hours is required [4]		10
Electives		
UNIV 1301	Intro To Collegiate Studies (or general elective)	3
General electives		4
Advanced electives		6
Total Hours		120-121

1 MATH 1420 satisfies the Core Curriculum requirement for Component Area II (Mathematics), the one semester credit hour Core Curriculum requirement for Component Area IX (Component Area Option), and the Degree Specific requirement.

2 CHEM 1411 and CHEM 1412 satisfy the Core Curriculum requirement for Component Area III (Life and Physical Science) and the Major requirement.

3 CHEM 3361, CHEM 3367, CHEM 3368, CHEM 3339, CHEM 4442, and CHEM 4443 are recommended.

[4] A minor in MATH, for instance, only requires 10 additional hours beyond MATH 1420 and MATH 1430.

Notes

1. A grade of C or higher is required for CHEM 1411, CHEM 1412, CHEM 2323, CHEM 2123, CHEM 2325, CHEM 2125, CHEM 2401, and CHEM 4448, and in all required Physics and Mathematics courses.
2. A minor generally requires six semesters of coursework, a minimum of 18 credits (six advanced) in an approved field. Students should use elective and minor hours to satisfy the 42 advanced hour requirement.

Teacher Certification

Students seeking a background that will prepare them to teach chemistry at the secondary level might pursue a major in chemistry with a minor in secondary education, or they might major in chemistry, minor in another discipline, and seek alternative teaching certification.

Emphasis in Biochemistry-Biotechnology

Students seeking a background that will prepare them for the emerging technologies in biochemistry and biotechnology can select advanced courses that will lead to a major in chemistry and a minor in biology.

First Year

Fall	Hours	Spring	Hours
CHEM 1411[1]	4	CHEM 1412[1]	4
ENGL 1301[2]	3	ENGL 1302[2]	3
HIST 1301[3]	3	HIST 1302[3]	3
MATH 1420[4]	4	MATH 1430	4
UNIV 1301[5]	3		
	17		14

Second Year

Fall	Hours	Spring	Hours
Component Area IV	3	CHEM 2125	1
CHEM 2123	1	CHEM 2325	3
CHEM 2323	3	ENGL 3330	3
CHEM 2401	4	Minor Courses[6]	4
PHYS 1101	1	PHYS 1102	1
PHYS 1301	3	PHYS 1302	3
	15		15

Third Year

Fall	Hours	Spring	Hours
CHEM 3438	4	Component Area V	3
CHEM 4448	4	Component Area IX	3
Elective	4	CHEM 4449	4
POLS 2305[7]	3	Minor Courses (Advanced)[6]	3
		POLS 2306[7]	3
	15		16

Fourth Year

Fall	Hours	Spring	Hours
CHEM 4100	1	Component Area VIII	3
CHEM 4440	4	CHEM 4260	2
CHEM Advanced Elective[8]	3-4	CHEM 4367	3
Elective (Advanced)	3	CHEM 4395	3
Minor Courses (Advanced)[6]	3	Elective (Advanced)	3
	14-15		14

Total Hours: 120-121

[1] Satisfies Core Curriculum requirement for Component Area III (Life and Physical Science).

[2] Satisfies Core Curriculum requirement for Component Area I (Communications).

[3] Satisfies Core Curriculum requirement for Component Area VI (U.S. History).

[4] Satisfies Core Curriculum requirement for Component Area II (Mathematics).

[5] Or general elective.

[6] A minor requires 6 semester credit hours of coursework, a minimum of 18 semester credit hours (6 advanced) in an approved field.

[7] Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).

[8] CHEM 3339, CHEM 3361, CHEM 3367, CHEM 3368, CHEM 4442, CHEM 4443 are recommended.

Notes

1. A grade of C or higher is required for CHEM 1411, CHEM 1412, CHEM 2323, CHEM 2123, CHEM 2325, CHEM 2125, CHEM 2401, and CHEM 4448, and in all required Physics and Mathematics courses.
2. Students should use elective and minor hours to satisfy the 42-advanced hour requirement. Advanced hours are 3000 and 4000 level courses.

Bachelor of Science, Major in Chemistry/Chemical Engineering

A Dual Degree Plan for Concurrent Bachelor of Science Degrees from Sam Houston State University and Universities with Recognized Accredited Chemical Engineering Degree Programs

In this plan, the student completes three years in Chemistry at Sam Houston State University and two years in Chemical Engineering at a university with a recognized accredited chemical engineering degree program. On successful completion of the curriculum shown below, and the chemical engineering curriculum at a university with a recognized accredited degree program in chemical engineering, the student will receive two Bachelor of Science degrees, a Bachelor of Science with a major in Chemistry from Sam Houston State University, and a Bachelor of Science in Chemical Engineering from the university with the recognized accredited chemical engineering degree program.

Code	Title	Hours
Bachelor of Science, Major in Chemistry/Chemical Engineering		
Core Curriculum		
Component Area I (Communication)		6
Component Area II (Mathematics) [1]		4
Component Area III (Life and Physical Sciences) [2]		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (American History)		6
Component Area VII (Government/Political Science)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Area IV elective or Oral Communication)		3
Degree Specific Requirements		
ENGL 3330	Intro To Technical Writing	3
ETDD 1361	Engineering Graphics	3
MATH 1420	Calculus I [1]	4
MATH 1430	Calculus II	4
MATH 2440	Calculus III	4
MATH 3376	Differential Equations	3
PHYS 1401	Physics Boot Camp	4
PHYS 1411	Introduction To Physics I	4
PHYS 1422	Introduction To Physics II	4
Major Core		
Major		
CHEM 1411	General Chemistry I [2]	4
CHEM 1412	General Chemistry II [2]	4
CHEM 2401	Quantitative Analysis	4
CHEM 2323 & CHEM 2123	Organic Chemistry I: Lecture and Organic Chemistry I Lab	4
CHEM 2325 & CHEM 2125	Organic Chemistry II: Lecture and Organic Chemistry II: Lab	4
CHEM 4100	Chemical Literature Seminar	1

CHEM 4260	Advanced Integrated Laboratory	2
CHEM 4448	Physical Chemistry I	4
CHEM 4449	Physical Chemistry II	4
CHEM Advanced elective		3
Minor (if required)		
Two years (60 credit hours) of advanced courses in Chemical Engineering from a University with a Recognized Accredited Chemical Engineering Degree Program are also required [2]		60
Total Hours		157

1 MATH 1420 satisfies the Core Curriculum requirement for Component Area II (Mathematics), the one semester credit hour Core Curriculum requirement for Component Area IX (Component Area Option), and the Degree Specific requirement.

2 CHEM 1411 and CHEM 1412 satisfy the Core Curriculum requirement for Component Area III (Life and Physical Science) and the Major requirement.

Note

A grade of C or higher is required for CHEM 1411, CHEM 1412, CHEM 2323, CHEM 2123, CHEM 2325, CHEM 2125, CHEM 2401, and CHEM 4448, and in all required Physics and Mathematics courses.

First Year

Fall	Hours	Spring	Hours
Component Area IV	3	CHEM 1412[1]	4
Component Area V	3	ENGL 1302[2]	3
CHEM 1411[1]	4	MATH 1430	4
ENGL 1301[2]	3	PHYS 1401	4
MATH 1420[3]	4		
	17		15

Second Year

Fall	Hours	Spring	Hours
Component Area IX	3	CHEM 2125	1
CHEM 2123	1	CHEM 2325	3
CHEM 2323	3	CHEM 2401	4
MATH 2440	4	ENGL 3330	3
PHYS 1411	4	PHYS 1422	4
		POLS 2305[4]	3
	15		18

Third Year

Fall	Hours	Spring	Hours
CHEM 4100	1	Component Area VIII	3
CHEM 4448	4	CHEM 4260	2
CHEM Advanced Elective[5]	3	CHEM 4449	4
ETDD 1361	3	HIST 1302[6]	3
HIST 1301[6]	3	POLS 2306[4]	3
MATH 3376	3		
	17		15

Fourth Year

Fall	Hours	Spring	Hours
Spent at a University with a Recognized Accredited Chemical Engineering Program	15	Spent at a University with a Recognized Accredited Chemical Engineering Program	15
	15		15

Fifth Year

Fall	Hours	Spring	Hours
Spent at a University with a Recognized Accredited Chemical Engineering Program	15	Spent at a University with a Recognized Accredited Chemical Engineering Program	15
	15		15

Total Hours: 157

1 Satisfies Core Curriculum requirement for Component Area III (Life and Physical Science).

2 Satisfies Core Curriculum requirement for Component Area I (Communications).

3 Satisfies Core Curriculum requirement for Component Area II (Mathematics).

4 Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).

5 CHEM 4440, CHEM 3367, and CHEM 4367 are recommended.

6 Satisfies Core Curriculum requirement for Component Area VI (U.S. History).

Notes

1. A grade of C or higher is required for CHEM 1411, CHEM 1412, CHEM 2323, CHEM 2123, CHEM 2325, CHEM 2125, CHEM 2401, and CHEM 4448, and in all required Physics and Mathematics courses.
2. After 5 years of study (3 at Sam Houston State University and 2 at another school with a chemical engineering degree program), the student earns two bachelor's degrees. Completing the 3-year sequence at SHSU is not sufficient to earn a degree by itself.

Bachelor of Science, Major in Forensic Chemistry

Students seeking background and training in the area of forensic science can obtain a Bachelor of Science degree in Forensic Chemistry with a Criminal Justice minor. This degree option educates students for careers in forensic chemistry in both private and government arenas and also prepares students to enter graduate schools in forensic science.

Code	Title	Hours
Bachelor of Science, Major in Forensic Chemistry		
Core Curriculum		
Component Area I (Communication)		6
Component Area II (Mathematics) [1]		4
Component Area III (Life and Physical Sciences) [2]		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (American History)		6
Component Area VII (Government/Political Science)		6
Component Area VIII (Social and Behavioral Sciences) [3]		3
Component Area IX (Area IV elective or Oral Communication)		3
Degree Specific Requirements		
BIOL 1411	General Botany	4
BIOL 1413	General Zoology	4
BIOL 2440	Introductory Cell Biology	4
BIOL 3450	Introductory Genetics	4
ENGL 3330	Intro To Technical Writing	3
MATH 1420	Calculus I [1]	4
MATH 1430	Calculus II	4
PHYS 1301 & PHYS 1101	General Phy-Mechanics & Heat and General Physics Laboratory I	4
PHYS 1302 & PHYS 1102	Gen Phy-Snd,Lght, Elec, & Mag and General Physics Laboratory II	4
Major Core		
Major		
CHEM 1411	General Chemistry I [2]	4
CHEM 1412	General Chemistry II [2]	4

CHEM 2323 & CHEM 2123	Organic Chemistry I: Lecture and Organic Chemistry I Lab	4
CHEM 2325 & CHEM 2125	Organic Chemistry II: Lecture and Organic Chemistry II: Lab	4
CHEM 2401	Quantitative Analysis	4
CHEM 3438	Biochemistry I	4
CHEM 4100	Chemical Literature Seminar	1
CHEM 4367	Advanced Inorganic Chemistry	3
CHEM 4380	Forensic Chemistry	3
CHEM 4448	Physical Chemistry I	4
CHEM 4440	Instrumental Analytical Chem	4
CJ Minor (required)		
CRIJ 2361	Intro To The Crim Justice Sys [3]	3
CRIJ 2362	Criminology	3
CRIJ 2364	Fundamentals Of Criminal Law	3
CRIJ 3378	Intro To Methods Of Research	3
CRIJ 4385	Criminl Justc & Social Divrsty	3
FORS 3366	Forensic Science	3
Electives		
Advanced electives [4]		7
Total Hours		126

1 MATH 1420 satisfies the Core Curriculum requirement for Component Area II (Mathematics) and the Degree Specific requirement.

2 CHEM 1411 and CHEM 1412 satisfy the Core Curriculum requirement for Component Area III (Life and Physical Science) and the Major requirement.

3 CRIJ 2361 satisfies Core Curriculum requirement for the Component Area VIII (Political Science/Governement) and the CJ minor requirement.

4 Students who are interested in the graduate programs in Forensic Science at SHSU are encouraged to take BIOL 3470 and BIOL 4480 as the advanced electives.

Note

A grade of C or higher is required for CHEM 1411, CHEM 1412, CHEM 2323, CHEM 2123, CHEM 2325, CHEM 2125, CHEM 2401, CHEM 4448 and CHEM 4440, and in all required Physics and Mathematics courses,

First Year

Fall	Hours	Spring	Hours
BIOL 1411	4	BIOL 1413	4
CHEM 1411[1]	4	CHEM 1412[1]	4
ENGL 1301[2]	3	ENGL 1302[2]	3
MATH 1420[3]	4	MATH 1430	4
	15		15

Second Year

Fall	Hours	Spring	Hours
CHEM 2123	1	BIOL 2440	4
CHEM 2323	3	CHEM 2125	1
CHEM 2401	4	CHEM 2325	3
CRIJ 2361[4]	3	ENGL 3330	3
PHYS 1101	1	PHYS 1102	1
PHYS 1301	3	PHYS 1302	3
	15		15

Third Year

Fall	Hours	Spring	Hours
Component Area IV	3	BIOL 3450	4
CHEM 3438	4	CRIJ 2364	3
CHEM 4448	4	CRIJ 3378	3

CRIJ 2362	3 Elective (Advanced)[6]	4
POLS 2305[5]	3 POLS 2306[5]	3
	17	17

Fourth Year

Fall	Hours	Spring	Hours
Component Area IX	3	Component Area V	3
CHEM 4440	4	CHEM 4100	1
Elective (Advanced)[7]	3	CHEM 4367	3
FORS 3366	3	CHEM 4380	3
HIST 1301[8]	3	CRIJ 4385	3
		HIST 1302[8]	3
	16		16

Total Hours: 126

1 Satisfies Core Curriculum requirement for Component Area III (Life and Physical Science).

2 Satisfies Core Curriculum requirement for Component Area I (Communications).

3 Satisfies Core Curriculum requirement for Component Area II (Mathematics).

4 Satisfies Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).

5 Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).

6 BIOL 3470 recommended—provides a BIOL minor.

7 BIOL 4480 recommended for students interested in the Forensic Science graduate programs

8 Satisfies Component Area VI

Notes

1. A grade of C or higher is required for CHEM 1411, CHEM 1412, CHEM 2323, CHEM 2123, CHEM 2325, CHEM 2125, CHEM 2401, CHEM 4448 and CHEM 4440, and in all required Physics and Mathematics courses.
2. This sequence has a built-in minor in Criminal Justice. Students should use the elective hours to satisfy the 42-advanced hour requirement. Advanced hours are 3000 and 4000-level courses.

Minor in Chemistry

A minor in Chemistry requires a minimum of six semesters of coursework and shall include:

Code	Title	Hours
Minor in Chemistry		
CHEM 1411	General Chemistry I	4
CHEM 1412	General Chemistry II	4
CHEM 2323 & CHEM 2123	Organic Chemistry I: Lecture and Organic Chemistry I Lab	4
CHEM 2325 & CHEM 2125	Organic Chemistry II: Lecture and Organic Chemistry II: Lab	4
CHEM 2401	Quantitative Analysis	4
Advanced chemistry including one advanced laboratory course		6-7
Total Hours		26-27

Note

A grade of C or higher is required for CHEM 1411, CHEM 1412, CHEM 2323, CHEM 2123, CHEM 2325, and CHEM 2125.

Department of Computer Science

The Bachelor of Science in Computing Science is accredited by the Computing Accreditation Commission of ABET http://www.abet.org

Chair: Peter A. Cooper (cooper@shsu.edu) (936) 294-1569

Websites: Computer Science: http://cs.shsu.edu/; Digital Forensics: http://df.shsu.edu

Mission

The Department of Computer Science is a community of faculty, staff, and students, centered in the computer science disciplines. The Department of Computer Science is dedicated to providing the highest quality education possible to its graduate and undergraduate students through excellence in teaching and excellence in research. The department is committed to furthering the pursuit of knowledge and meeting the needs of a diverse society.

The Department of Computer Science seeks to provide an environment that encourages innovative thinking, academic rigor, and the pursuit of scholarship in an atmosphere that promotes high ethical and moral values and mutual respect, embracing diversity and working towards a goal of instilling a life-long love of learning.

Academic Programs

The Computing Science program offers major study plans for students wishing to pursue careers in industry or government (as programmers/analysts/software engineers, as network and database administrators, and as digital forensics and information security professionals) or to prepare for advanced studies at the graduate level. Minor study plans are offered which can be tailored to the needs of students majoring in almost any field. A plan leading to secondary teacher certification in Computer Science is also offered.

The Bachelor of Science in Computing Science at Sam Houston State University has been accredited by the Computing Accreditation Commission of ABET, Inc., the recognized accreditor of college and university programs in applied science, computing, engineering, and technology. ABET accreditation demonstrates a program's commitment to providing its students with a quality education. Student can elect to concentrate in Software Engineering, Information Systems, or Information Assurance and Security.

The **Bachelor of Science in Computer Software Engineering Technology** is designed to provide the skills and competencies required by students wishing to prepare for careers in software development.

The **Bachelor of Science in Digital Forensics Engineering Technology** prepares students for professional work in business and industry, as well as government and law enforcement, as a digital forensic analyst; including the collection. preservation, analysis, and reporting of digital evidence.

Highlights

Sam Houston State University provides a comprehensive computing environment for students. The Office of Information Technology Services operates a large number of computing laboratories containing desktop computers, and workstations. A variety of operating systems, network protocols, programming languages, and application packages are available. Students have full access to the Internet and E-mail facilities when on campus and through remote access facilities from off-campus. In addition to the institutional facilities, the Department of Computer Science operates a range of lab facilities to support its mission and programs, including network robotics and Unix/Linux labs, a data recovery lab and a network security lab. The department operates a 40-node symmetric multiprocessing system for use in parallel processing, digital forensics, cryptanalysis, and steganographic research. The department also has access to state-of-the-art virtualization facilities. As part of its operations, the department of Computer Science houses the Sam Houston State University Center of Excellence in Digital Forensics, a center dedicated to the development of digital forensics training for law enforcement personnel and research opportunities into forensics and security issues.

Career Opportunities

Computing professionals support many scientific, governmental, and commercial enterprises though network and communication systems management, application (computer program) development and maintenance, and hardware design. The management of computing resources within organizations is typically a mission critical activity and computing professionals occupy key organizational roles as network and database administrators, software engineers, systems analysts, and programmers. Of key concern in today's modern environment is the protection, assurance, and recovery of computing resources, providing opportunities for those wanting to work in the information assurance and digital forensics fields.

Program Specific Requirements

The baccalaureate degree in Computer Science has the following program specific requirements:

Mathematics

Code	Title	Hours
Course Requirements		
MATH 1420	Calculus I	4
MATH 1430	Calculus II	4

MATH 2395	Discrete Mathematics	3
Advanced MATH/STAT		3
STAT 3379	Statistical Methds In Practice	3
Total Hours		17

Science

The specific requirements of 16 hours include: four 4-hour (3 hours lecture + 1 hour lab) courses in natural sciences, among which two 4-hour natural sciences courses also satisfy the requirement for Component Area III of Core Curriculum.

- Bachelor of Science, Major in Computing Science
- Bachelor of Science, Major in Computing Science (Information Science, IS)
- Bachelor of Science, Major in Computing Science (Information Assurance, IA)
- Bachelor of Science, Major in Computer Software Engineering Technology
- Bachelor of Science, Major in Digital and Cyber Forensics Engineering Technology
- Minor in Computer Science

Student Organizations

The Sam Houston Association of Computer Scientists (SHACS) provides a learning environment through speakers and special projects that unite students, professors, and industry professionals. These relationships help promote the sharing of knowledge and skills related to computer science. The club sponsors field trips, campus visits by guest speakers, and occasional student/faculty outings. Further information can be found at SHACS. (http://www.shsu.edu/~org_shacs/.html)

Internships

While the Computer Science department does not operate internships as a designated part of its degree programs, a number of students have been successful in obtaining internships with the FBI, Austin Department of Public Safety, and a number of commercial organizations.

Scholarships

The Department of Computer Science offers the following scholarships:

- **The Computer Science Scholarship**: awarded to full-time undergraduate students working toward a degree in Computer Science with an overall GPA above 3.0.
- **The Johnny Cook Kelly Memorial Scholarship:** awarded to full-time undergraduate computer science majors with a preference given to students from Walker County.

Each of these scholarships requires a minimum GPA of 3.0 and registration in courses leading to a degree in Computer Science. Other criteria are also pertinent to individual scholarships. More information can be obtained through the department.

Chair: **Peter A. Cooper**

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Bachelor of Science, Major in Computer Software Engineering Technology

Code	Title	Hours
Bachelor of Science, Major in Computer Software Engineering Technology		
Core Curriculum		
Component Area I (Communication)		6
Component Area II (Mathematics)		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4
Degree Specific Requirements		
MATH 1420	Calculus I [1]	4
MATH 1430	Calculus II	4
MATH 2395	Discrete Mathematics	3
MATH 3379	Statistical Mthods In Practice	3
3 ADV MATH hours		3
Major		
COSC 1436	Programming Fundamentals I	4
COSC 1437	Programming Fundamentals II	4
COSC 2327	Intro to Computer Networks	3
COSC 2329	Comp Organiz & Machine Lang	3
COSC 3312	Numerical Methods	3
COSC 3318	Data Base Management Systems	3
COSC 3319	Data Structures and Algorithms	3
COSC 3321	Digital System Design	3
COSC 3327	Computer Architecture	3
COSC 4314	Data Mining	3
COSC 4318	Advanced Language Concepts	3
COSC 4319	Software Engineering	3
COSC 4320	System Modeling and Simulation	3
COSC 4332	Computer Graphics	3
COSC 4340	Spc Tpcs In Computer Sci	3
COSC 4349	Professionalism and Ethics	3
Electives		
COSC Electives [2]		6
General Electives [2]		9
Total Hours		120

[1] MATH 1420 satisfies the Core Curriculum requirement for Component Area II (Mathematics) and one semester credit hour of Component Area IX (Component Area Option).

[2] Electives should be used to meet the 42 advanced hour requirement.

First Year

Fall	Hours	Spring	Hours
Component Area III	4	Component Area III	4
COSC 1436	4	COSC 1437	4
ENGL 1301[1]	3	ENGL 1302[1]	3
MATH 1420[2]	4	MATH 1430	4
	15		15

Second Year

Fall	Hours	Spring	Hours
Component Area IV	3	Component Area V	3
Component Area VIII	3	COSC 3312	3
COSC 2329	3	COSC 3318	3
HIST 1301[3]	3	HIST 1302[3]	3
POLS 2305[4]	3	POLS 2306[4]	3
	15		15

Third Year

Fall	Hours	Spring	Hours
Component Area IX	3	COSC 3327	3
COSC 2327	3	COSC 4314	3
COSC 3319	3	COSC 4318	3
COSC 3321	3	Elective (Advanced)	3
MATH 2395	3	MATH 3379	3
	15		15

Fourth Year

Fall	Hours	Spring	Hours
COSC 4319	3	COSC 4340	3
COSC 4320	3	COSC 4349	3
COSC 4332	3	COSC/DFSC Advanced Elective	3
Elective (Advanced)	3	COSC/DFSC Elective	3
MATH (Advanced)	3	Elective (Advanced)	3
	15		15

Total Hours: 120

1 Satisfies Core Curriculum requirement for Component Area I (Communications).

2 Satisfies Core Curriculum requirement for Component Area II (Mathematics) and one semester credit hour of the Core Curriculum requirement for Component Area IX (Component Area Option).

3 Satisfies Core Curriculum requirement for Component Area VI (U.S. History).

4 Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).

Bachelor of Science, Major in Computing Science (Computer Science, CS)

Code	Title	Hours
Bachelor of Science, Major in Computing Science (Computer Science, CS)		
Core Curriculum		
Component Area I (Communications)		6
Component Area II (Mathematics)		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4
Degree Specifics Requirements		
Electives (Advanced)		12
MATH 1420	Calculus I	4
MATH 1430	Calculus II	4
MATH 2395	Discrete Mathematics	3
Math (Advanced)		3
STAT 3379	Statistical Methds In Practice	3

Science (In addition to Component Area III)	8
Total Hours	79

The Computing Science major requires a total of 44 hours of Computer Science coursework, which includes 26 hours of CS required courses and 18 hours of coursework within one of three concentrations. General degree requirements must also be met. The 44 hours of coursework for the Computer Science major should be distributed as follows (Note: CSTE courses may not be used to meet this requirement):

Code	Title	Hours
Required Courses		
COSC 1436	Programming Fundamentals I	4
COSC 1437	Programming Fundamentals II	4
COSC 2329	Comp Organiz & Machine Lang	3
COSC 3318	Data Base Management Systems	3
COSC 3319	Data Structures and Algorithms	3
COSC 4318	Advanced Language Concepts	3
COSC 4319	Software Engineering	3
COSC 4349	Professionalism and Ethics	3
Total Hours		26

Code	Title	Hours
Computer Science Concentration (18 hours)		
COSC 2347	Special Topics/Programming	3
COSC 3327	Computer Architecture	3
COSC 4316	Compiler Design & Construction	3
COSC 4327	Computer Operating Systems	3
Advanced COSC		6
Total Hours		18

[1] MATH 1420 satisfies the Core Curriculum requirement for Component Area II (Mathematics), one semester credit hour of the Core Curriculum requirement for Component Area IX (Component Area Option), and the Degree Specific requirement.

[2] Eight semester credit hours of science courses satisfies the Core Curriculum requirement for Component Area III (Life and Physical Science) and the Degree Specific requirement.

Note

The minimum number of credit hours required for a baccalaureate degree is 120. The minimum number of advanced credit hours for a baccalaureate degree is 42. Students may take free elective courses beyond the hours identified in the recommended 4-year plan to meet the overall credit hour and advanced credit hour requirements.

First Year

Fall	Hours	Spring	Hours
Component Area III	4	Component Area III	4
COSC 1436	4	COSC 1437	4
ENGL 1301[1]	3	ENGL 1302[1]	3
MATH 1420[2]	4	MATH 1430	4
	15		15

Second Year

Fall	Hours	Spring	Hours
Component Area IV	3	Component Area V	3
Component Area VIII	3	COSC 3318	3
COSC 2329	3	COSC 2347	3
HIST 1301[3]	3	HIST 1302[3]	3
POLS 2305[4]	3	POLS 2306[4]	3
	15		15

Third Year

Fall	Hours	Spring	Hours
COSC 3319	3	Component Area IX	3
Degree Specific Requirement: Science[5]	4	COSC 3327	3
MATH 2395	3	COSC 4327	3
General Electives	6	Degree Specific Requirement: Science[5]	4
		STAT 3379	3
	16		16

Fourth Year

Fall	Hours	Spring	Hours
COSC 4318	3	COSC 4319	3
COSC 4316	3	COSC 4349	3
COSC/DFSC Advanced Elective	3	COSC/DFSC Advanced Elective	3
MATH (Advanced)	3	General Advanced Elective	3
General Advanced Elective	3	General Elective	1
	15		13

Total Hours: 120

1 Satisfies Core Curriculum requirement for Component Area I (Communications).

2 Satisfies Core Curriculum requirement for Component Area II (Mathematics) and one semester credit hour of the Core Curriculum requirement for Component Area IX (Component Area Option).

3 Satisfies Core Curriculum requirement for Component Area VI (U.S. History).

4 Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).

Bachelor of Science, Major in Computing Science (Information Assurance, IA)

Code	Title	Hours
Bachelor of Science, Major in Computing Science (Information Assurance, IA)		
Core Curriculum		
Component Area I (Communications)		6
Component Area II (Mathematics)		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4
Degree Specific Requirement		
Electives (Advanced)		12
MATH 1420	Calculus I [1]	4
MATH 1430	Calculus II	4
MATH 2395	Discrete Mathematics	3
MATH (Advanced)		3
STAT 3379	Statistical Methds In Practice	3
Science (In addition to Component Area III)		8
Total Hours		79

The Computing Science major requires a total of 44 hours of Computer Science coursework, which includes 26 hours of CS required courses and 18 hours of coursework within one of three concentrations. General degree requirements must also be met. The 44 hours of coursework for the Computer Science major should be distributed as follows (Note: CSTE courses may not be used to meet this requirement):

Code	Title	Hours
Required Courses		
COSC 1436	Programming Fundamentals I	4
COSC 1437	Programming Fundamentals II	4
COSC 2329	Comp Organiz & Machine Lang	3
COSC 3318	Data Base Management Systems	3
COSC 3319	Data Structures and Algorithms	3
COSC 4318	Advanced Language Concepts	3
COSC 4319	Software Engineering	3
COSC 4349	Professionalism and Ethics	3
Total Hours		26

Code	Title	Hours
Information Assurance Concentration (18 hours)		
DFSC 1316	DF and IA Fundamentals I	3
DFSC 2316	DF and IA Fundamentals II	3
COSC 2347	Special Topics/Programming	3
DFSC 3316	Cryptography and Network Scrty	3
DFSC 4317	Information Security	3
Advanced DFSC Electives		3
Total Hours		18

1 MATH 1420 satisfies the Core Currciulum requirement for Component Area II (Mathematics), one semester credit hour of Component Area IX (Component Area Option), and the Degree Specific requirements.

2 8 hours of science satisfies the Core Curriculum requirement for Component Area III (Life and Physical Science) and the Degree Specific requirement.

Note

The minimum number of credit hours required for a baccalaureate degree is 120. The minimum number of advanced credit hours for a baccalaureate degree is 42. Students may take free elective courses beyond the hours identified in the recommended 4-year plan to meet the overall credit hour and advanced credit hour requirements.

First Year

Fall	Hours	Spring	Hours
Component Area III	4	Component Area III	4
COSC 1436	4	COSC 1437	4
ENGL 1301[1]	3	ENGL 1302[1]	3
MATH 1420[2]	4	MATH 1430	4
	15		15

Second Year

Fall	Hours	Spring	Hours
Component Area IV	3	Component Area V	3
Component Area VIII	3	COSC 2347	3
COSC 2329	3	COSC 3318	3
HIST 1301[3]	3	HIST 1302[3]	3
POLS 2305[4]	3	POLS 2306[4]	3
	15		15

Third Year

Fall	Hours	Spring	Hours
COSC 3319	3	Component Area IX	3
DFSC 1316	3	COSC 3327	3
Degree Specific Requirement: Science[5]	4	DFSC 2316	3
Electives (Advanced)	3	Degree Specific Requirement Science[5]	4

MATH 2395	3 STAT 3379	3
	16	16

Fourth Year

Fall	Hours	Spring	Hours
COSC 4318	3	COSC 4319	3
DFSC 3316	3	COSC 4349	3
DFSC Advanced Elective	3	DFSC 4317	3
Elective	3	Elective (Advanced)	3
MATH (Advanced)	3	Elective	1
	15		13

Total Hours: 120

1 Satisfies Core Curriculum requirement for Component Area I (Communications).

2 Satisfies Core Curriculum requirement for Component Area II (Mathematics) and one semester credit hour of Core Curriculum requirement for Component Area IX (Component Area Option).

3 Satisfies Core Curriculum requirement for Component Area VI (U.S. History).

4 Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).

Bachelor of Science, Major in Computing Science (Information Systems, IS)

Code	Title	Hours
Bachelor of Science, Major in Computing Science (Information Systems, IS)		
Core Curriculum		
Component Area I (Communication)		6
Component Area II (Mathematics)		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4
Degree Specific Requirements		
Electives (Advanced)		12
MATH 1420	Calculus I [1]	4
MATH 1430	Calculus II	4
MATH 2395	Discrete Mathematics	3
MATH (Advanced)		3
STAT 3379	Statistical Methds In Practice	3
Science (In addition to Component Area III)		8
Total Hours		79

The Computing Science major requires a total of 44 hours of Computer Science coursework, which includes 26 hours of CS required courses and 18 hours of coursework within one of three concentrations. General degree requirements must also be met. The 44 hours of coursework for the Computer Science major should be distributed as follows (Note: CSTE courses may not be used to meet this requirement):

Code	Title	Hours
Required Courses		
COSC 1436	Programming Fundamentals I	4
COSC 1437	Programming Fundamentals II	4
COSC 2329	Comp Organiz & Machine Lang	3
COSC 3318	Data Base Management Systems	3
COSC 3319	Data Structures and Algorithms	3
COSC 4318	Advanced Language Concepts	3

COSC 4319	Software Engineering	3
COSC 4349	Professionalism and Ethics	3
Total Hours		26

Code	Title	Hours
Information Systems Concentration		
COSC 2327	Intro to Computer Networks	3
COSC 2347	Special Topics/Programming	3
COSC 3337	Infor Sys Design & Management	3
COSC 4326	Network Theory	3
Advanced COSC/DFSC Electives		6
Total Hours		18

[1] MATH 1420 satisfies the Core Curriculum requirement for Component Area II (Mathematics), one semester credit hour of Component Area IX (Component Area Option), and the Degree Specific requirements.

[2] 8 hours of science satisfies the Core Curriculum requirement for Component Area III (Life and Physical Science) and the Degree Specific requirement.

Note

The minimum number of credit hours required for a baccalaureate degree is 120. The minimum number of advanced credit hours for a baccalaureate degree is 42. Students may take free elective courses beyond the hours identified in the recommended 4-year plan to meet the overall credit hour and advanced credit hour requirements.

First Year

Fall	Hours	Spring	Hours
Component Area III	4	Component Area III	4
COSC 1436	4	COSC 1437	4
ENGL 1301[1]	3	ENGL 1302[1]	3
MATH 1420[2]	4	MATH 1430	4
	15		15

Second Year

Fall	Hours	Spring	Hours
Component Area IV	3	Component Area V	3
Component Area VIII	3	COSC 2329	3
COSC 2347	3	COSC 3318	3
HIST 1301[3]	3	HIST 1302[3]	3
POLS 2305[4]	3	POLS 2306[4]	3
	15		15

Third Year

Fall	Hours	Spring	Hours
COSC 3319	3	Component Area IX	3
Degree Specific Requirement: Science[5]	4	COSC 2327	3
Electives (Advanced)	6	COSC 3337	3
MATH 2395	3	Degree Specific Requirement: Science[5]	4
		STAT 3379	3
	16		16

Fourth Year

Fall	Hours	Spring	Hours
COSC 4318	3	COSC 4319	3
COSC 4327	3	COSC 4349	3
COSC/DFSC Advanced Elective	3	COSC/DFSC Advanced Elective	3
Electives (Advanced)	3	Elective (Advanced)	3

MATH (Advanced)	3 Elective	1
	15	13

Total Hours: 120

1 Satisfies Core Curriculum requirement for Component Area I (Communications).

2 Satisfies Core Curriculum requirement for Component Area II (Mathematics) and one semester credit hour of the Core Curriculum requirement for Component Area IX (Component Area Option).

3 Satisfies Core Curriculum requirement for Component Area VI (U.S. History).

4 Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).

5 Science beyond Component Area III (Life and Physical Science).

Bachelor of Science, Major in Digital and Cyber Forensic Engineering Technology

Code	Title	Hours
Bachelor of Science, Major in Digital and Cyber Forensic Engineering Technology		
Core Curriculum		
Component Area I (Communications)		6
Component Area II (Mathematics)		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4
Degree Specific Requirements:		
MATH 1420	Calculus I [1]	4
MATH 1430	Calculus II	4
MATH 2395	Discrete Mathematics	3
MATH 3379	Statistical Mthods In Practice	3
Required Major Courses:		
COSC 1436	Programming Fundamentals I	4
COSC 1437	Programming Fundamentals II	4
COSC 2327	Intro to Computer Networks	3
COSC 2329	Comp Organiz & Machine Lang	3
COSC 3312	Numerical Methods	3
COSC 3318	Data Base Management Systems	3
COSC 3319	Data Structures and Algorithms	3
COSC 4314	Data Mining	3
COSC 4319	Software Engineering	3
COSC 4349	Professionalism and Ethics	3
DFSC 1316	DF and IA Fundamentals I	3
DFSC 2316	DF and IA Fundamentals II	3
DFSC 2320	Hardware Forensics	3
DFSC 3316	Cryptography and Network Scrty	3
DFSC 4317	Information Security	3
DFSC 4318	Malware	3
DFSC 4338	Cyber Warfare	3
Prescirbed Electives Choose 2 of the following:		6
COSC 3327	Computer Architecture	
COSC 3331	Human-Computer Interaction	
COSC 4318	Advanced Language Concepts	

COSC 4326	Network Theory	
COSC 4327	Computer Operating Systems	
COSC 4332	Computer Graphics	
COSC 4337	Digital Signal Processing	
COSC 4340	Spc Tpcs In Computer Sci	
DFSC 4319	Principles of Data Quality	
Electives		6
Total Hours		121

[1] MATH 1420 satisfies requirement for Component Area II (Mathematics) as well as the major.

First Year

Fall	Hours	Spring	Hours
Component Area I	3	Component Area I	3
Component Area III	4	Component Area III	4
Compnent Area VI	3	Component Area VI	3
MATH 1420[1]	4	MATH 1430	4
	14		14

Second Year

Fall	Hours	Spring	Hours
Component Area IV	3	Component Area VII	3
Component Area V	3	Component Area VIII	3
Component Area VII	3	Component Area IX	3
COSC 1436	4	COSC 1437	4
MATH 2395	3	MATH 3379	3
	16		16

Third Year

Fall	Hours	Spring	Hours
Component Area IX	1	COSC 3318	3
COSC 2327	3	DFSC 2316	3
COSC 2329	3	DFSC 2320	3
COSC 3312	3	DFSC 3316	3
DFSC 1316	3	Elective	3
Elective	3		
	16		15

Fourth Year

Fall	Hours	Spring	Hours
Prescribed Elective[2]	3	Prescribed Elective[2]	3
DFSC 4317	3	COSC 4319	3
COSC 4314	3	COSC 4349	3
COSC 3321	3	DFSC 4318	3
COSC 3319	3	DFSC 4338	3
	15		15

Total Hours: 121

[1] MATH 1420 satisfies requirement for Component Area II (Mathematics) as well as the major.

[2] Choose 1 of the following Prescribed Electives: COSC 3327, COSC 3331, COSC 4337, COSC 4318 COSC 4326,COSC 4327, COSC 4332, COSC 4340, , or DFSC 4319.

Minor in Computer Science

A Computer Science Minor consists of 22 or more hours of Computer Science coursework of which at least 9 hours must be advanced. Students are recommended to take COSC 4349 as an advanced course. Three recommended minor plans are shown below. Modifications may be made to meet

individual student needs as approved by the Computer Science Department Chair. Individualized minor plans are available for students seeking a Computer Science minor for Certification.

Code	Title	Hours
Minor in Computer Science		
Select an emphasis from one of the following concentrations:		22-23
Computer Sciences (CS):		
COSC 1436	Programming Fundamentals I	
COSC 1437	Programming Fundamentals II	
COSC 2329	Comp Organiz & Machine Lang	
COSC 2347	Special Topics/Programming	
COSC 3318	Data Base Management Systems	
COSC 3327	Computer Architecture	
3 hrs. of advanced COSC/DFSC courses		
Information Systems (IS):		
COSC 1436	Programming Fundamentals I	
COSC 1437	Programming Fundamentals II	
COSC 2327	Intro to Computer Networks	
COSC 2347	Special Topics/Programming	
COSC 3318	Data Base Management Systems	
COSC 3337	Infor Sys Design & Management	
3 hrs. of advanced COSC/DFSC courses		
Information Assurance (IA):		
COSC 1436	Programming Fundamentals I	
COSC 2327	Intro to Computer Networks	
DFSC 1316	DF and IA Fundamentals I	
DFSC 2316	DF and IA Fundamentals II	
DFSC 3316	Cryptography and Network Scrty	
DFSC 4317	Information Security	
3 hrs. of advanced COSC/DFSC courses		
Total Hours		22-23

Department of Geography & Geology

Chair: Brian Cooper (bio_bjc@shsu.edu) (936) 294-1566

Website: Department of Geography & Geology (http://www.shsu.edu/~gel_geo)

The Department of Geography and Geology is an excellent blend of two disciplines that have a common thread. Both programs are concerned with the physical environment, with resources – including energy resources – and with ways that humans interact with and modify the natural environment. Students may major or minor in either program.

Mission

The primary mission of the Department of Geography and Geology is to provide students of the two complementary programs a comprehensive understanding of the range and depth of these scientific disciplines which encompass, respectively, the human and physical domains of geography, and the physical and historical domains of geology. This understanding is intended to enable our students to achieve their full potential as skilled professionals and well-qualified technical employees in a diverse range of companies and governmental organizations and to become effective teachers and community leaders. Our programs enable students to become informed users of a range of technologies and prudent stewards of our natural resources. This understanding of the world will promote successful careers, active life-long learning, and an ability and desire to contribute positively to society.

Geography Program

Coordinator: John Strait (jstrait@shsu.edu) (936) 294-4077

Website: Department of Geography & Geology (http://www.shsu.edu/academics/geography-geology)

Geography is an all-encompassing discipline that involves the interdisciplinary study of places and the relationships between people and their environment from a spatial perspective. As an academic subject, it includes an understanding of both the physical environment and the cultural world of international affairs, economics, population, religion, language, and other human phenomena. Geographers are not only interested in the locations of these phenomena, but are also interested in understanding the causal factors responsible for their spatial distributions and the larger implications of these spatial arrangements. Geography also entails the use and application of a host of geospatial technologies as a means to study and analyze this subject matter, such as geographic information systems (GIS), remote sensing, digital image processing, and global positioning systems. In the age of global markets, global culture, global transportation systems, and global telecommunications, we are increasingly faced with the reality that our welfare is highly interdependent with the rest of the world. A geographic education represents an excellent way to understand how to deal with environmental, social and economic issues associated with this reality. For an individual curious about the world, and his or her place in it, few disciplines satisfy that curiosity as much as geography.

Academic Programs

The Geography program incorporates a three-track curriculum and is designed to fit the particular academic interests of our students and better prepare them for life beyond SHSU, particularly in terms of graduate study or employment opportunities. Student majors can pursue either Bachelors of Arts (BA) or Bachelors of Science (BS) degrees and focus their studies within one of three concentrations, each providing a broad geographical background yet emphasizing different foci. The *human geography* concentration is designed for students primarily interested in the geographical study of human or cultural phenomena, such as population, race and ethnicity, religion, economics, tourism, and urban geography. The *environmental geography* concentration is designed for students interested in studying physical geography, conservation of natural resources, geomorphology, hydrology, environmental sustainability and sustainable development. The *geographic information sciences* (GIS) concentration is designed for students more interested in developing skills in the application of a variety of geo-spatial technologies, such as GIS, remote sensing, computer cartography, and digital image processing.

Highlights

Located on the third floor of the Lee Drain Building, the department maintains both a Geographic Information System (GIS) lab and a combination computer cartography and remote sensing lab. These labs contain state-of-the-art computers, software and scanners. We also have a van for fieldtrips, a coring device capable of taking up to 6m core samples, high-quality GPS receivers, a large-scale flume to demonstrate sedimentation processes, and a Ground Penetrating Radar System. In order to enhance learning, all of our rooms are outfitted with video-projection systems, and our lecture rooms have sound systems and dedicated computers with Internet access that are used by the instructors for teaching purposes. Many of our students obtain internships and work with faculty members on research projects. Beyond traditional in-class courses, the geography program does offer a number of on-line courses. The program also regularly offers a number of field courses that offer students opportunities to directly experience the geographical processes and concepts learned in the classroom. Some of these field courses involve travel and/or international experiences and have included trips to Thailand, Hawaii, Mississippi Delta, Brazil, Spain, Italy and other locations.

Career Opportunities

Because of the breadth of geography, there are a wide variety of career opportunities for geography graduates. These opportunities include careers in the following:

- urban and/or regional planning
- GIS analyst/programmer
- environmental consulting and management
- emergency management
- state transportation departments
- city, county, state, and federal government
- education/teaching
- geoscientist/geo-technician
- travel writing
- energy companies
- tourism
- military

Geography's focus on spatial relationships, in conjunction with new advances in technology, have led to the development of a host of geographical tools—principally Geographic Information Systems (GIS) and Global Positioning Systems (GPS)—that regularly function as core tools used in a wide variety of fields. In fact, geospatial technology now affects almost every aspect of life, from navigating an unfamiliar neighborhood to locating the world's most wanted terrorists. Because these tools can be applied within virtually any field (government, business, military, etc.) geospatial technology is one of the fastest growing job fields and the demand for people with experience using them exceeds the supply. Aside from offering a major concentration that emphasizes these technologies, we also offer students an Interdisciplinary Minor in Geospatial Science (GSS) that emphasizes GIS, remote sensing and computer cartography. The combination of geography major and a GSS minor is highly marketable. In addition, we also offer a GIS certificate program for students desiring to pursue a limited number of geotechnical courses. With their broad background, geography graduates have an ability to see connections where others do not, and this enables geographers to work in many different fields. Geography literally offers a world of opportunities.

Suggested Minors

- GSS (Geo-spatial Science)
- Geology
- Foreign Language
- Biology or Environmental Science
- History
- International Business
- Sociology
- Mass Communication
- Computer Science
- Political Science
- Secondary Education

Program Specific Requirements

Students must meet the academic standards established by the university.

Curriculum

Required Courses for Geography Major

Bachelor of Arts, human geography concentration

Code	Title	Hours
Course Requirements		
Select one of the following		3-4
GEOG 1401	Weather and Climate willl double-dip with Core or Degree Specific lab science requirement	
GEOG 2320	Sustainability and Environment	
GEOG 2341	Physical Geography	
GEOG 3301	Environmental Geography	
Select two of the following:		6
GEOG 1300	People, Place and the Envrnmt	
GEOG 2355	World Reg Geo-Eur Asia Aust	
GEOG 2356	Reg Geo-Lat Am Africa So Asia	

GEOG 3350	Cultural Geography	3
Select one of the following technique courses:		3
GEOG 2364	Geo-Spatial Technology	
GEOG 2464	Intro to Geographic Info Sys	
GEOG 3363	Computer Cartography	
GEOG 4333	Field Studies	
GEOG 4361	Geographic Information Systems for Public Health	
GEOG 4365	Applied Geographic Info Systms	
GEOG 4468	Remote Sensing	
Select five of the following:		15
GEOG 3310	Sustainable Development	
GEOG 3352	Tourism Geography	
GEOG 4351	Economic Geography	
GEOG 4356	Urban Geography	
GEOG 4357	Population Geography	
GEOG 4359	Transportation Geography	
GEOG 4360	Cultural Field Study	
Advanced Geography Electives		3
General Geography Electives		3
Total Hours		36-37

Bachelor of Science, human geography concentration

The above requirements, plus additional degree specific requirements (see below)

Bachelor of Arts, environmental geography concentration

Code	Title	Hours
Course Requirements		
GEOG 1401	Weather and Climate	4
GEOG 2341	Physical Geography	3
or GEOG 2320	Sustainability and Environment	
GEOG 3301	Environmental Geography	3
Select one of the following:		3
GEOG 1300	People, Place and the Envrnmt	
GEOG 2355	World Reg Geo-Eur Asia Aust	
GEOG 2356	Reg Geo-Lat Am Africa So Asia	
Select one of the following technique courses:		3
GEOG 2464	Intro to Geographic Info Sys	
GEOG 3363	Computer Cartography	
GEOG 4333	Field Studies	
GEOG 4361	Geographic Information Systems for Public Health	
GEOG 4365	Applied Geographic Info Systms	
GEOG 4468	Remote Sensing	
Select three of the following:		9
GEOG 3310	Sustainable Development	
GEOG 4430	Hydrology and Water Resources	
GEOG 4331	Conservatn Of Naturl Resources	
GEOG 4432	Geomorphology	
Advanced Human Geography		6
GEOG 3350	Cultural Geography	
GEOG 3352	Tourism Geography	
GEOG 4351	Economic Geography	
GEOG 4356	Urban Geography	
GEOG 4357	Population Geography	

GEOG 4359	Transportation Geography	
Advanced Geography Electives		3
General Geography Electives		3
Total Hours		37

Bachelor of Science, environmental geography concentration

The above requirements, plus additional degree specific requirements (see below)

Bachelor of Science, geo-spatial information science concentration

Code	Title	Hours
Course Requirements		
Select two of the following:		6
GEOG 1300	People, Place and the Envrnmt	
GEOG 1401	Weather and Climate	
GEOG 2355	World Reg Geo-Eur Asia Aust	
GEOG 2356	Reg Geo-Lat Am Africa So Asia	
GEOG 3301	Environmental Geography	3
or GEOG 3350	Cultural Geography	
Concentration Specific		17
GEOG 2464	Intro to Geographic Info Sys	
GEOG 3363	Computer Cartography	
GEOG 4361	Geographic Information Systems for Public Health	
GEOG 4365	Applied Geographic Info Systms	
GEOG 4468	Remote Sensing	
Applied Cognate		6
GEOG 4331	Conservatn Of Naturl Resources	
GEOG 4333	Field Studies	
GEOG 4351	Economic Geography	
GEOG 4356	Urban Geography	
GEOG 4357	Population Geography	
GEOG 4359	Transportation Geography	
GEOG 4432	Geomorphology	
Advanced Geography Electives		3
General Geography Elective		3
Total Hours		38

In addition to these requirements, students must take the degree-specific courses particular to their respective degree (BA or BS).

Geology Program

Coordinator: Brian J. Cooper (bio_bjc@shsu.edu) (936) 294-1566

Website: Department of Geography and Geology (http://www.shsu.edu/academics/geography-geology)

Geology is the ultimate integrated science because all of the principles and methods of the other sciences, as well as geologic principles and methods, are applied to an understanding of the Earth. Geologists study rocks, of course, but they study them from the context of providing information that may eventually be used to forecast earthquakes, volcanic eruptions, and other geologic hazards. The information obtained may also be applied to help geologists locate various natural resources. Therefore, geology serves to enhance human existence by attempting to reduce risk and by providing the materials necessary for the expansion of civilization.

Academic Programs

The Geology Degree is designed for the person seeking a position in industry or planning to attend graduate school. The Geoscience Plan is designed for the person with a general interest in geology. Each plan is designed to provide an education in the fundamentals of geology. The required geology courses will give the student an understanding of the Earth and will provide an opportunity to observe, investigate, analyze, and interpret geological materials, processes, and structures.

Highlights

Located on the third floor of the Lee Drain Building, the department places considerable emphasis on the integration of lab-based analytical science with similarly rigorous analysis conducted by means of field work. In support, the department maintains a range of field and laboratory equipment including a Mackereth coring system, a vibracorer, a research flume, a portable XRF, an X-ray diffractometer, a catholuminescence microscope, plus a variety of GPS and GIS-linked surveying equipment. Many of our students obtain internships and work with faculty members on research projects.

Career Opportunities

Geology majors generally pursue careers in three areas:

- the environmental industry
- the petroleum industry
- teaching

Geology students are provided with the knowledge and skills required to pursue an applied profession, a career in education, and/or continued education at the graduate level.

Suggested Minors

- Computer Sciences
- Geography
- Geographic Information Systems
- Mathematics
- Other sciences (Biology, Chemistry, or Physic

Program Specific Requirements

Geology program specific requirements include 8 hours in each of CHEM and PHYS; plus 7-8 hours of MATH.

Curriculum

Required Courses for Geology Major

Bachelor of Science, Geology

Code	Title	Hours
Required Courses		
GEOL 1403	Physical Geology	4
or GEOL 1405	Geologic Hazards & Resources	
GEOL 1404	Historical Geology	4
GEOL 3301	Field Methods	3
GEOL 3404	Mineralogy	4
GEOL 3405	Petrology	4
GEOL 4304	Geochemistry	3
GEOL 4400	Stratigraphy And Sedimentation	4
GEOL 4402	Structural Geology	4
GEOL 4413	Methods In Applied Geophysics	4
GEOL 4360	Field Geology	3
GEOL 4361	Field Geology	3
Three Advanced GEOL Electives		9
Total Hours		49

Bachelor of Science, Geoscience

Code	Title	Hours
Required Courses		
GEOL 1403	Physical Geology	4
or GEOL 1405	Geologic Hazards & Resources	
GEOL 1404	Historical Geology	4
GEOL 3301	Field Methods	3
GEOL 3404	Mineralogy	4

GEOL 3405	Petrology	4
GEOL 4304	Geochemistry	3
GEOL 4400	Stratigraphy And Sedimentation	4
GEOL 4402	Structural Geology	4
GEOL 4413	Methods In Applied Geophysics	4
Five Advanced GEOL Electives		15
Total Hours		49

- Bachelor of Arts, Major in Geography (Human Geography)
- Bachelor of Science, Major in Geography (Human Geography)
- Bachelor of Arts, Major in Geography (Environmental Geography)
- Bachelor of Science, Major in Geography (Environmental Geography)
- Bachelor of Science, Major in Geography, Geo-spatial Information Sciences
- Bachelor of Science, Major in Geology
- Bachelor of Science, Major in Geology (Geoscience)
- Bachelor of Science, Major in Composite Science-Geology Concentration
- Minor in Geography
- Minor in Geo-Spatial Science
- Minor in Geology

Geography

Student Organizations

- **Geographers of Sam Houston (GOSH)** - GOSH is intended to enhance appreciation for geography through club-sponsored field trips, guest lectures, and other activities, and to promote camaraderie among geography students.
- **Gamma Theta Upsilon (GTU)** - GTU is the National Geography Honor Society and was established to promote geographic awareness and the pursuit of geographic knowledge. To be eligible for membership in this honor society, students must have at least 12 hours of geography coursework, a minimum GPA of 3.25 in their geography coursework, and an overall GPA of at least 3.0.

Internships

Educational and research opportunities using GIS are available through a variety of internship opportunities that will increase students' skills and employment opportunities.

Richardson Endowment Awards

- **C. ALLEN WILLIAMS AWARD FOR GEOGRAPHY STUDENTS:** $500-$700 one semester.
  Geography majors or minors, senior status.
- **CODY BARRON AWARD FOR GEOGRAPHY STUDENTS:** $500-$700 one semester.
  Geography majors or minors, senior status.
- **GERALD L. HOLDER AWARD FOR GEOGRAPHY STUDENTS:** $500 -- $700 one semester.
  Geography majors or minors, senior status, 3.0 GPA Geography overall.
- **JAMES ELLISON KIRKLEY AWARD:** Two awards (amounts vary) to majors in history, political science, geography, or sociology.
  Recipients are selected on basis of high academic achievement.
- **JOHN H. BOUNDS AWARD FOR GEOGRAPHY STUDENTS:** $500-$700 for one semester.
  Geography majors or minors, senior status.
- **THE ELTON M. SCOTT AWARD FOR GEOGRAPHY STUDENTS:** $500 -- $700 one semester.
  Geography majors or minors, senior status. 3.0 GPA Geography overall.

Request information from:

John Strait
Geography Program Coordinator
(936) 294-4077

Department of Geography and Geology
Box 2148
Huntsville, TX 77341-2148
(936) 294-1233

Geology

Student Organizations

Sam Houston Association of Geology Students (SHAGS) - SHAGS is a very active student organization that sponsors field trips to sites in Texas, Oklahoma, and Arkansas. Alumni, professors, and other professional geologists are invited to speak at SHAGS meetings. Geology majors benefit greatly from the sense of camaraderie gained during the field trips, meetings, and other activities.

Internships

Educational and research opportunities are available through a variety of internship opportunities in the fields of GIS, hydrocarbons, and environmental geology that will increase students' skills and employment opportunities.

Awards and Scholarships

- **CANNAN GEOLOGICAL SCHOLARSHIPS:** $600 per year, junior or senior status, Geology majors, minimum GPA of 3.2 in Geology and overall 3.0, faculty recommendations required.
- **HOUSTON GEOLOGICAL SOCIETY OUTSTANDING SENIOR AWARD:** Awards and scholarships funded by the Houston Geological Society given to just seven universities in Texas.
- **HOUSTON GEOLOGICAL SOCIETY SCHOLARSHIP:** Award recipients are determined by a faculty committee during the Spring semester.
- **SHAGS Award:** $500 per year, awarded to two students, junior or senior status, Geology majors, minimum GPA of 3.0, faculty recommendations required.

Chair: **Brian Jay Cooper**

Chair: **Ben Marcus Gillespie**

Gary D Acton, PHD (gdacton@shsu.edu), *Associate Professor of Geology*, *Department of Geography-Geology*, PHD, Northwestern University; MS, Univ of Arizona; BS, Indiana University

Samuel Adu-Prah, PHD (sxa054@shsu.edu), *Assistant Professor of Geography*, *Department of Geography-Geology*, PHD, Southern Illinois U-Carbondale; MSED, Alcorn State University; MPHIL, University of Cambridge; BA, University of Ghana

Donald P. Albert, PHD (geo_dpa@shsu.edu), *Professor of Geography*, *Department of Geography-Geology*, PHD, Univ of N Carolina-Chapel Hill; MA, Appalachian State University; BS, Salem State College

Brian Jay Cooper, PHD (bio_bjc@shsu.edu), *Associate Professor of Geology and Chair, Dept of Geography and Geology*, *Department of Geography-Geology*, PHD, Virginia PolytechnicState U; MS, Virginia PolytechnicState U; BA, Univ of Calif-Santa Barbara

Ben Marcus Gillespie, PHD (geo_bmg@shsu.edu), *Associate Professor of Geography; Acting Chair, AGRI; Assoc Dean, COSET*, *Department of Geography-Geology*, PHD, Texas AM University; MA, Univ of Wyoming; BS, Sam Houston State University; BS, Sam Houston State University

Gang Gong, PHD (gxg002@shsu.edu), *Associate Professor of Geography*, *Department of Geography-Geology*, PHD, Boston University; MA, Boston University; BS, Peking University

Ross Joseph Guida, PHD (ross.guida@shsu.edu), *Assistant Professor of Geography*, *Department of Geography-Geology*, PHD, Southern Illinois U-Carbondale; MS, Univ of Nevada-Las Vegas; BA, Univ of Wisconsin-Eau Claire

John P Harris, PHD (jph020@shsu.edu), *Associate Professor of Geology*, *Department of Geography-Geology*, PHD, Texas AM University; MS, Univ of Arkansas-Fayetteville; BS, Univ of Arkansas-Fayetteville

Joseph C Hill, PHD (jch031@shsu.edu), *Associate Professor of Geology*, *Department of Geography-Geology*, PHD, Univ of Missouri-Columbia; MS, Univ of Tennessee-Knoxville; BS, Univ of Tennessee-Knoxville

Mark R Leipnik, PHD (geo_mrl@shsu.edu), *Professor of Geography and Geology*, *Department of Geography-Geology*, PHD, Univ of Calif-Santa Barbara; MBA, Rice University; BA, Univ of Calif-Santa Barbara; BA, Univ of Calif-Santa Barbara

Falguni Shyamal Mukherjee, PHD (fsm002@shsu.edu), *Associate Professor of Geography*, *Department of Geography-Geology*, PHD, Univ of Wisconsin-Milwaukee; MS, Univ of Texas At Dallas; BE, Birla Institute of Tech Sci

Velvet A Nelson, PHD (van001@shsu.edu), *Associate Professor of Geography*, *Department of Geography-Geology*, PHD, Kent State University; MA, East Carolina Univ; BSBA, West Liberty State College

John B Strait, PHD (jbs008@shsu.edu), *Professor of Geography*, *Department of Geography-Geology*, PHD, Univ of Georgia; MA, Georgia State University; BA, Wittenberg University

James W. Tiller, PHD (geo_jwt@shsu.edu), *Professor of Geography*, *Department of Geography-Geology*, PHD, Univ of Oklahoma-Norman; MA, Univ of Oklahoma-Norman; MED, Univ of North Texas; BS, Univ of North Texas

Interim Faculty

Andrew J Fraass, PHD (fraass@shsu.edu), *Visiting Assistant Professor of Geology*, *Department of Geography-Geology*, PHD, Univ of Massachusetts-Amherst; MS, Univ of Wisconsin-Madison; BS, Univ of Wisconsin-Madison; BS, Univ of Wisconsin-Madison

Bachelor of Arts, Major in Geography (Environmental Geography)

Code	Title	Hours
Bachelor of Arts, Major in Geography (Environmental Geography)		
Core Curriculum		
Component Area I (Communication)		6
Component Area II (Mathematics)		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4
Degree Specific Requirements		
FOLG 1411 & FOLG 1412	Beginning Foreign Language I and Beginning Foreign Language II	8
FOLG 2311 & FOLG 2312	Intermediate Foreign Language and Intermed Foreign Language II [1]	6
HIST 1301 & HIST 1302	United States History To 1876 and United States History Sn 1876 [2]	6
MATH 1369	Elementary Statistics	3
MAJOR		
Environmental Geography		10
GEOG 1401	Weather and Climate [3]	
GEOG 3301	Environmental Geography	
Human Geography - Select one of the following: [4]		3
GEOG 1300	People, Place and the Envrnmt	
GEOG 2320	Sustainability and Environment	
or GEOG 2341	Physical Geography	
GEOG 2355	World Reg Geo-Eur Asia Aust	
GEOG 2356	Reg Geo-Lat Am Africa So Asia	
Core of Concentration - Select three of the following:		9-10
GEOG 3310	Sustainable Development	
GEOG 4331	Conservatn Of Naturl Resources	
GEOG 4432	Geomorphology	
Geographical Techniques - Select one of the following:		3-4
GEOG 4430	Hydrology and Water Resources	
GEOG 2464	Intro to Geographic Info Sys	
GEOG 4333	Field Studies	
GEOG 4361	Geographic Information Systems for Public Health	
GEOG 4365	Applied Geographic Info Systms	
GEOG 4468	Remote Sensing	
Advanced Human Geography -Select two of the following:		6
GEOG 3352	Tourism Geography	
GEOG 4351	Economic Geography	
GEOG 4356	Urban Geography	
GEOG 4357	Population Geography	
GEOG 4359	Transportation Geography	
Advanced Geography Electives		3
Geography Elective		3
Minor (required)		18

Electives	12
Total Hours	120-122

1 FOLG 2311 & FOLG 2312 satisfy the Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture), three semester credit hours of Component Area IX (Component Area Option), and the Degree Specific requirement.

2 HIST 1301 & HIST 1302 satisfy the Core Curriculum requirement for Component Area VI (U.S. History) and the Degree Specific requirement

3 GEOG 1401 satisfies four semester credit hours of the Core Curriculum requirement for Component Area III (Life and Physical Science) OR Degree Specific requirement, but not both. Students applying this course toward the geography major may need to complete additional coursework in order to meet the 120 credit-hour requirement for graduation.

4 GEOG 1300 fulfills Component Area VIII of the Core Curriculum, while GEOG 2355 and 2356 fulfills Component Area IV. Students applying these courses to the Geography major may need to complete additional coursework in order to fulfill the 120 credit-hour graduation requirement.

First Year

Fall	Hours	Spring	Hours	Summer	Hours
Component Area VIII	3	Component Area III	4	ENGL 1302[1]	3
Component Area II	3	FOLG 1411	4		
ENGL 1301[1]	3	HIST 1301[4]	3		
GEOG 1401[2]	4	MATH 1369	3		
Human GEOG Course[3]	3				
	16		14		3

Second Year

Fall	Hours	Spring	Hours
Component Area V	3	Component Area IX	1
FOLG 1412	4	FOLG 2311[6]	3
GEOG 2341 OR 2320	3	GEOG Techniques Course[7]	3-4
HIST 1302[4]	3	Minor Course	3
POLS 2305[5]	3	POLS 2306[5]	3
	16		13-14

Third Year

Fall	Hours	Spring	Hours	Summer	Hours
FOLG 2312[8]	3	GEOG Concentration Core[9]	6-7	Minor	3
GEOG 3301	3	Advanced GEOG elective	3		
GEOG Concentration Core Course[9]	3	Minor Course	3		
Minor Course	6	Component Area IV	3		
	15		15-16		3

Fourth Year

Fall	Hours	Spring	Hours
Electives[10]	3	GEOG Advanced Human Geography[11]	6
Electives[10]	7	Geography Elective	3
Minor Course	3	Minor	3
	13		12

Total Hours: 120-122

1 Satisfies Core Curriculum requirement for Component Area I (Communications).

2 Satisfies four semester credit hours of the Core Curriculum requirement for Component Area III (Life and Physical Science). Students applying GEOG 1401 towards the major may need to complete additional coursework in order to fulfill the 120 credit-hour graduation requirement.

3 HUMAN GEOG Courses: GEOG 1300, GEOG 2320 or GEOG 2341, GEOG 2355, GEOG 2356. GEOG 1300 also satisfies Core Curriculum Component Area VIII, GEOG 2355 and GEOG 2356 also satisfy Core Curriculum Component Area IV. Students applying any of these courses towards the geography major may need to complete additional coursework in order to meet the 120 credit-hour requirement for graduation.

4 Satisfies Core Curriculum requirement for Component Area VI (U.S. History).
5 Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).
6 Satisfies Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture).
7 Geographic Techniques Courses: GEOG 4361, GEOG 4365, GEOG 4430, GEOG 4333, GEOG 4468.
8 Satisfies three semester credit hours of the Core Curriculum requirement for Component Area IX (Component Area Option).
9 Environmental GEOG Concentration Courses: GEOG 3310, GEOG 4331, GEOG 4432.
10 Electives should be used to satisfy the 120 SCH requirement and the 42 advanced hours requirement.
11 Advanced HUMAN geography include GEOG 3352, GEOG 4351, GEOG 4356, GEOG 4357, or GEOG 4359

Bachelor of Arts, Major in Geography (Human Geography)

Code	Title	Hours
Bachelor of Arts, Major in Geography (Human Geography)		
Core Curriculum		
Component Area I (Communication)		6
Component Area II (Mathematics)		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4
Degree Specific Requirements		
FOLG 1411 & FOLG 1412	Beginning Foreign Language I and Beginning Foreign Language II	8
FOLG 2311 & FOLG 2312	Intermediate Foreign Language and Intermed Foreign Language II [1]	6
HIST 1301 & HIST 1302	United States History To 1876 and United States History Sn 1876 [2]	6
MATH 1369	Elementary Statistics	3
MAJOR		
Environmental Geography - select one of the following		3-4
GEOG 1401	Weather and Climate [3]	
GEOG 2320	Sustainability and Environment	
GEOG 2341	Physical Geography	
GEOG 3301	Environmental Geography	
Human Geography		
GEOG 3350	Cultural Geography	3
Select two of the following: [4]		6
GEOG 1300	People, Place and the Envrnmt	
GEOG 2355	World Reg Geo-Eur Asia Aust	
GEOG 2356	Reg Geo-Lat Am Africa So Asia	
Core of Concentration - Select five of the following:		15
GEOG 3310	Sustainable Development	
GEOG 3352	Tourism Geography	
GEOG 4351	Economic Geography	
GEOG 4356	Urban Geography	
GEOG 4357	Population Geography	
GEOG 4359	Transportation Geography	
GEOG 4360	Cultural Field Study	
Geographic Techniques - Select one of the following:		3-4
GEOG 2364	Geo-Spatial Technology	

GEOG 2464	Intro to Geographic Info Sys	
GEOG 3363	Computer Cartography	
GEOG 4333	Field Studies	
GEOG 4361	Geographic Information Systems for Public Health	
GEOG 4365	Applied Geographic Info Systms	
GEOG 4468	Remote Sensing	
Advanced Geography Electives		3
Geography Elective		3
Electives [5]		13
Minor (required)		18
Total Hours		120-122

1 FOLG 2311 and FOLG 2312 satisfy the Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture) and three semester credit hours of Component Area IX (Component Area Option).

2 HIST 1301 and HIST 1302 satisfy the Core Curriculum requirement for Component Area VI (U.S. History).

3 GEOG 1401 also satisfies Core Component Area III OR the degree-specific requirement for Life and Physical Sciences.

4 GEOG 1300 satisfies the Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).GEOG 2355 and GEOG 2356 satisfy the Core Component Area IV.

5 Electives should be used to satisfy the 42 advanced hour requirement.

First Year

Fall	Hours	Spring	Hours	Summer	Hours
Component Area II	3	Component Area III	4	ENGL 1302[1]	3
Component Area IX	1	FOLG 1411	4		
ENGL 1301[1]	3	HIST 1301[3]	3		
GEOG 1401, 2341, or 3301	3-4	MATH 1369	3		
HUMAN GEOG[2]	3				
	13-14		14		3

Second Year

Fall	Hours	Spring	Hours
Component Area V	3	Component Area III	4
FOLG 1412	4	FOLG 2311[5]	3
HUMAN GEOG Course[2]	3	Minor Course	3
HIST 1302[3]	3	POLS 2306[4]	3
POLS 2305[4]	3		
	16		13

Third Year

Fall	Hours	Spring	Hours	Summer	Hours
FOLG 2312[5]	3	Component Area VIII	3	Minor	3
GEOG Techniques Course[7]	3-4	Elective (Advanced)	3		
Major Concentration Core Courses[6]	6	GEOG 3350	3		
Minor Course	3	Major Concentration Core[6]	3		
		Minor Course	3		
	15-16		15		3

Fourth Year

Fall	Hours	Spring	Hours
Electives[8]	3	Electives[8]	4
Geography Elective	3	GEOG Advanced Elective	3

Major Concentration Core[6]	3	Major Concentration Core[6]	3
Minor Course	6	Minor Course	3
	15		13

Total Hours: 120-122

1 Satisfies Core Curriculum requirement for Component Area I (Communications).

2 HUMAN GEOG Courses: GEOG 1300, GEOG 2355, GEOG 2356.

3 Satisfies Core Curriculum Component Area VI (U.S. History).

4 Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).

5 FOLG 2311 satisfies the Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture), and FOLG 2312 satisfies the Core Curriculum requirement for three semester credit hours of Component Area IX (Component Area Option).

6 HUMAN GEOG CONCENTRATION CORE Courses: GEOG 3352, GEOG 3310, GEOG 4351, GEOG 4356, GEOG 4357, GEOG 4359, GEOG 4360.

7 Geographic Techniques Courses: GEOG 2364, GEOG 2464, GEOG 3363, GEOG 4333 GEOG 4361, GEOG 4365, GEOG 4468.

8 Electives should be used to satisfy the 42 advanced hour requirement.

Bachelor of Science, Major in Geography (Environmental Geography)

Code	Title	Hours
Bachelor of Science, Major in Geography (Environmental Geography)		
Core Curriculum		
Component Area I (Communication)		6
Component Area II (Mathematics)		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4
Degree Specific Requirements		
MATH 1369	Elementary Statistics	3
PHIL 2303	Critical Thinking (or PHIL 3372 or Math)	3
8 hours of Life and Physical Sciences (2 courses beyond the Core Curriculum)		8
MAJOR		
Environmental Geography		10
GEOG 1401	Weather and Climate [1]	
GEOG 3301	Environmental Geography	
GEOG 2320	Sustainability and Environment	
or GEOG 2341	Physical Geography	
Human Geography - Select one of the following: [2]		3
GEOG 1300	People, Place and the Envrnmt	
GEOG 2355	World Reg Geo-Eur Asia Aust	
GEOG 2356	Reg Geo-Lat Am Africa So Asia	
Core of Concentration- Select three of the following:		9-10
GEOG 3310	Sustainable Development	
GEOG 4331	Conservatn Of Naturl Resources	
GEOG 4430	Hydrology and Water Resources	
GEOG 4432	Geomorphology	
Geographic Techniques - Select one of the following:		3-4
GEOG 2464	Intro to Geographic Info Sys	
GEOG 4333	Field Studies	
GEOG 4361	Geographic Information Systems for Public Health	

GEOG 4365	Applied Geographic Info Systms	
GEOG 4468	Remote Sensing	
Advanced Geography Electives		3
Advanced Human Geography Elective [3]		6
Geography Electives		3
Electives [4]		9
Minor (required)		18
Total Hours		120-122

1 GEOG 1401 satisfies Component Area III (Life and Physical Sciences) OR can apply to the Degree Specific Requirement

2 GEOG 2355 or GEOG 2356 satisfies the Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture). GEOG 1300 satisfies the Core Curriculum requirement for Component Area VIII.

3 Advanced HUMAN geography includes GEOG 3352, GEOG 4351, GEOG 4356, GEOG 4357, or GEOG 4359

4 Electives should be used to satisfy the 120 SCH and the 42 advanced hour requirements.

First Year

Fall	Hours	Spring	Hours
Component Area II	3	Component Area III	4
Component Area IX	1	ENGL 1302[1]	3
ENGL 1301[1]	3	HIST 1301[4]	3
GEOG 1401[2]	4	MATH 1369	3
HUMAN GEOG course[3]	3	PHIL 2303 (or MATH)	3
	14		16

Second Year

Fall	Hours	Spring	Hours
Component Area V	3	Component Area IV	3
Component Area III	4	Component Area VIII	3
Major Concentration Core[5]	3	GEOG Techniques Course[7]	3-4
HIST 1302[4]	3	Minor Course	3
POLS 2305[6]	3	POLS 2306[6]	3
	16		15-16

Third Year

Fall	Hours	Spring	Hours
Component Area III	4	Elective[8]	3
GEOG 2320 or 2341	3	GEOG Advanced Elective	3
GEOG 3301	3	Major Cooncentration Core[5]	6-7
Minor Course	6	Minor Course	3
	16		15-16

Fourth Year

Fall	Hours	Spring	Hours
Elective	7	Elective[8]	6
Minor Course	3	Advanced HUMAN GEOG Elective[9]	3
Advanced HUMAN GEOG[9]	3	Minor Course	3
		Geography Elective	3
	13		15

Total Hours: 120-122

1 Satisfies Core Curriculum requirement for Component Area I (communications).

2 GEOG 1401 satisfies four semester credit hours of the Core Curriculum requirement for Component Area III OR the degree-specific requirement for Life and Physical Sciences

3 HUMAN GEOG Courses: GEOG 1300 GEOG 2355, GEOG 2356. GEOG 1321 also satisfies the Core Curriculum requirement for Component Area VIII. GEOG 2355 and GEOG 2356 satisfy the requirement for Component Area IV.

4 Satisfies Core Curriculum requirement for Component Area VI (U.S. History).

5 GEOG Environmental Concentration Core: GEOG 3310, GEOG 4430, GEOG 4331, GEOG 4432

6 Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).

7 Geographic Techniques Courses: , GEOG 2464, GEOG 4333, GEOG 4361, GEOG 4365, GEOG 4468.

8 Electives should be used to fulfill the 120 credit-hours and 42 advanced credit-hours requirements.

9 Advanced HUMAN geography include GEOG 3352, GEOG 4351, GEOG 4356, GEOG 4357, or GEOG 4359

Bachelor of Science, Major in Geography (Human Geography)

Code	Title	Hours
Bachelor of Science, Major in Geography (Human Geography)		
Core Curriculum		
Component Area I (Communication)		6
Component Area II (Mathematics)		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4
Degree Specific Requirements		
MATH 1369	Elementary Statistics	3
PHIL 2303	Critical Thinking (or MATH or PHIL 3372) [1]	3
8 hours of life and physical science (beyond the Core Curriculum)		8
Major		
Environmental Geography (one of the following)		3-4
GEOG 1401	Weather and Climate [2]	
GEOG 2320	Sustainability and Environment	
GEOG 2341	Physical Geography	
GEOG 3301	Environmental Geography	
Human Geography		
GEOG 3350	Cultural Geography	3
Select two of the following:		6
GEOG 1300	People, Place and the Envrnmt [3]	
GEOG 2355	World Reg Geo-Eur Asia Aust [4]	
GEOG 2356	Reg Geo-Lat Am Africa So Asia [4]	
Core of Concentration (select 5 of the following)		15
GEOG 3310	Sustainable Development	
GEOG 3352	Tourism Geography	
GEOG 4351	Economic Geography	
GEOG 4356	Urban Geography	
GEOG 4357	Population Geography	
GEOG 4359	Transportation Geography	
GEOG 4360	Cultural Field Study	
Geographic Techniques - Select one the following:		3-4
GEOG 2364	Geo-Spatial Technology	
GEOG 2464	Intro to Geographic Info Sys	
GEOG 3363	Computer Cartography	
GEOG 4333	Field Studies	
GEOG 4361	Geographic Information Systems for Public Health	
GEOG 4365	Applied Geographic Info Systms	
GEOG 4468	Remote Sensing	
Advanced Geography Electives		3

Geography Electives	3
Electives	10
Minor (required)	18
Total Hours	120-122

1 PHIL 2303 satisfies the Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).

2 GEOG 1401 can satisfy four semester credit hours of the Core Curriculum requirement for Component Area III (Life and Physical Science) OR the degree specific requirement, but NOT both. Students applying this course towards a geography major may need to complete additional coursework in order to fulfill the 120 credit-hour requirement for graduation

3 GEOG 1300 satisfies the Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences). Students also applying this course towards a geography major may need to complete additional coursework in order to fulfill the 120 credit-hour requirement for graduation.

4 GEOG 2355 or GEOG 2356 satisfies the Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture). Students also applying either of these courses towards a geography major may need to complete additional coursework in order to fulfill the 120 credit-hour requirement for graduation.

First Year

Fall	Hours	Spring	Hours	Summer	Hours
Component Area II	3	Component Area III	4	ENGL 1302[1]	3
Component Area IX	1	Component Area III	4		
ENGL 1301[1]	3	HIST 1301[4]	3		
GEOG 1401, 2320, 3301, or 2341[2]	3-4	MATH 1369	3		
HUMAN GEOG course[3]	3				
	13-14		14		3

Second Year

Fall	Hours	Spring	Hours
Component Area V	3	GEOG Techniques Course[6]	3-4
Component Area III	4	Minor Course	3
HUMAN GEOG Course[3]	3	PHIL 2303 (or MATH)	3
HIST 1302[4]	3	POLS 2306[5]	3
POLS 2305[5]	3		
	16		12-13

Third Year

Fall	Hours	Spring	Hours
Component Area IV	3	Component Area III	4
Component Area VIII	3	Component Area IX	3
GEOG 3350	3	Major Concentration Core Course[7]	3
Major Concentration Core Course[7]	3	Minor Course	6
Minor Course	3		
	15		16

Fourth Year

Fall	Hours	Spring	Hours
Electives	7	Elective	3
GEOG Advanced Elective	3	Major Concentration Core Course[7]	6
Major Concentration Core Course[7]	3	GEOG elective	3
Minor Course	3	Minor Course	3
	16		15

Total Hours: 120-122

1 Satisfies Core Curriculum requirement for Component Area I (Communications).

2 GEOG 1401 also satisfies Core Component Area III OR degree specific requirement for Life and Physical sciences. Students also applying this course towards a geography major may need to complete additional coursework in order to fulfill the 120 credit-hour requirement for graduation.

3 HUMAN GEOG Courses:GEOG 1300, GEOG 2355 GEOG 2356. GEOG 1321 also satisfies Core Curriculum Area VIII. GEOG 2355 or GEOG 2356 also satisfies Core Curriculum Area IV. Students also applying any of these courses towards a geography major may need to complete additional coursework in order to fulfill the 120 credit-hour requirement for graduation.

4 Satisfies Core Curriculum requirement for Component Area VI (U.S. History).

5 Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).

6 Geographic Techniques Courses: GEOG 2364 GEOG 2464, GEOG 3363, GEOG 4333, GEOG 4361, GEOG 4365, GEOG 4468.

7 Major Concentration Core Courses: GEOG 3310, GEOG 3352, GEOG 4351, GEOG 4356 GEOG 4357, GEOG 4359, GEOG 4360

Bachelor of Science, Major in Geography, Geo-spatial Information Sciences

Code	Title	Hours
Bachelor of Science, Major in Geography, Geo-spatial Information Sciences		
Core Curriculum		
Component Area I (Communication)		6
Component Area II (Mathematics)		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4
Degree Specific Requirements		
MATH 1369	Elementary Statistics	3
PHIL 2303	Critical Thinking (or PHIL 3372 or MATH) [1]	3
8 hours (2 courses) of Life and Physical Sciences (beyond the Core Curriculum)		8
Major		
Introductory Geography (choose 2 of the following)		6-7
GEOG 1300	People, Place and the Envrnmt [2]	
GEOG 1401	Weather and Climate [3]	
GEOG 2355	World Reg Geo-Eur Asia Aust [4]	
GEOG 2356	Reg Geo-Lat Am Africa So Asia [4]	
Human or Environmental Geography (choose one of the following)		3
GEOG 2320	Sustainability and Environment	
GEOG 2341	Physical Geography	
GEOG 3301	Environmental Geography	
GEOG 3350	Cultural Geography	
Core of Concentration		
GEOG 2464	Intro to Geographic Info Sys	4
GEOG 4365	Applied Geographic Info Systms	3
GEOG 3363	Computer Cartography	3
GEOG 4361	Geographic Information Systems for Public Health	3
GEOG 4468	Remote Sensing	4
Applied Cognate (Choose two of the following)		6-7
GEOG 3310	Sustainable Development	
GEOG 4351	Economic Geography	
GEOG 4356	Urban Geography	
GEOG 4357	Population Geography	
GEOG 4359	Transportation Geography	

GEOG 4430	Hydrology and Water Resources	
GEOG 4432	Geomorphology	
Advanced Geography Electives		3
Geography Electives		3
Minor (required)		18
Electives [5]		9
Total Hours		121-123

1 PHIL 2303 satisfies the Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).

2 GEOG 1300 satisfies the Core Curriculum requirement for Component Area IV. Students also applying this course towards the geography major may also need to complete additional coursework in order to fulfill the 120 credit-hour requirement.

3 GEOG 1401 satisfies the Core Curriculum requirement for Component Area III (Life and Physical Science) OR the degree specific requirement for Life and Physical Science. Students. Students also applying this course towards the geography major may also need to complete additional coursework in order to fulfill the 120 credit-hour requirement.

4 GEOG 2355 and/or GEOG 2356 fulfill the Core Curriculum requirement for Component Area IV. Students also applying either of these course towards the geography major may need to complete additional coursework in order to fulfill the 120 credit-hour requirement for graduation.

5 Electives should be used to meet the 120 SCH and 42 advanced hour requirements

First Year

Fall	Hours	Spring	Hours
Component Area II	3	ENGL 1302[1]	3
Component Area IX	4	HIST 1301[3]	3
ENGL 1301[1]	3	MATH 1369	3
Introductory GEOG Courses[2]	6-7	PHIL 2303 (or MATH)	3
		POLS 2305[4]	3
	16-17		15

Second Year

Fall	Hours	Spring	Hours
HIST 1302[3]	3	Component Area V	3
Life and Physical Sciences	4	Minor Course	3
POLS 2306[4]	3	Life and Physical Science	4
GEOG 2464	4	GEOG 4365	3
		GEOG 4361	3
	14		16

Third Year

Fall	Hours	Spring	Hours
Component Area IV	3	GEOG Elective	3
Component Area III	4	Component Area III	4
Elective[5]	3	Minor Course	6
Minor Course	3	GEOG 3363	3
GEOG 2320, 2341, 3301, or 3350	3		
	16		16

Fourth Year

Fall	Hours	Spring	Hours
Component Area VIII	3	Elective[5]	6
GEOG Applied Cognate Course[6]	3	Minor Course	3
Minor Course	3	GEOG Advanced Elective	3
GEOG 4468	4	GEOG Applied Cognate Course[6]	3-4
	13		15-16

Total Hours: 121-123

1 Satisfies Core Curriculum requirement for Component Area I (Communications).

[2] INTRODUCTORY GEOG courses: GEOG 1300, GEOG 1401, GEOG 2355, GEOG 2356, or GEOG 2341. GEOG 1401 also satisfies Core Curriculum Area III (life and physical sciences). GEOG 1321 also satisfies Core Curriculum Area VIII, while GEOG 2355 and GEOG 2356 satisfy Core Curriculum Area IV. Students also applying these courses towards the geography major may need to complete additional coursework in order to fulfill the 120 credit-hour requirement for graduation.

[3] Satisfies Core Curriculum requirement for Component Area VI (U.S. History).

[4] Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).

[5] Electives should be used to get to 120 SCH and 42 advanced hours

[6] GEOG Applied Congregate Courses: GEOG 3310, GEOG 4331, GEOG 4356, GEOG 4357 GEOG 4430, GEOG 4359 GEOG 4432

Bachelor of Science, Major in Geology

Code	Title	Hours
Bachelor of Science, Major in Geology		
Core Curriculum		
Component Area I (Communication)		6
Component Area II (Mathematics)		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4
Degree Specific Requirements		
CHEM 1411 & CHEM 1412	General Chemistry I and General Chemistry II [1]	8
MATH 1420 & MATH 1430	Calculus I and Calculus II [2]	7-8
or MATH 3379	Statistical Mthods In Practice	
PHYS 1301 & PHYS 1101 & PHYS 1302 & PHYS 1102	General Phy-Mechanics & Heat and General Physics Laboratory I and Gen Phy-Snd,Lght, Elec, & Mag and General Physics Laboratory II	8
Major Core		
GEOL 1403	Physical Geology	4
or GEOL 1405	Geologic Hazards & Resources	
GEOL 1404 & GEOL 3301	Historical Geology and Field Methods	7
GEOL 3404 & GEOL 3405	Mineralogy and Petrology	8
GEOL 4400 & GEOL 4402 & GEOL 4360 & GEOL 4361	Stratigraphy And Sedimentation and Structural Geology and Field Geology and Field Geology	14
GEOL 4413 & GEOL 4304	Methods In Applied Geophysics and Geochemistry	7
Major		
Advanced Geology electives		9
Minor (if required)		
Courses in accepted minor		6
Courses in accepted minor		12
Total Hours		120-121

[1] CHEM 1411 and CHEM 1412 satisfy the Core Curriculum requirement for Component Area III (Life and Physical Science) and the Degree Specific requirement.

2 MATH 1420 satisfies the Core Curriculum requirement for Component Area II (Mathematics), one semester credit hour of Component Area IX (Component Area Option), and the Degree Specific requirement.

First Year

Fall	Hours	Spring	Hours	Summer	Hours
CHEM 1411[1]	4	CHEM 1412[1]	4	GEOL 3301	3
ENGL 1301[2]	3	ENGL 1302[2]	3		
GEOL 1403 or 1405	4	GEOL 1404	4		
MATH 1420[3]	4	MATH 1430 or 3379	3-4		
	15		14-15		3

Second Year

Fall	Hours	Spring	Hours
GEOL 3404	4	GEOL 3405	4
Minor Course	3	Minor Course	3
PHYS 1301 & PHYS 1101	4	PHYS 1302 & PHYS 1102	4
POLS 2305[4]	3	POLS 2306[4]	3
	14		14

Third Year

Fall	Hours	Spring	Hours
Component Area IV	3	Component Area V	3
GEOL 4400	4	GEOL 4402	4
HIST 1301[5]	3	HIST 1302[5]	3
Minor Course	3	Minor Course	3
	13		13

Fourth Year

Fall	Hours	Spring	Hours	Summer	Hours
Component Area VIII	3	Component Area IX	3	GEOL 4360 & GEOL 4361	6
GEOL 4304	3	GEOL 4413	4		
GEOL Advanced elective	3	GEOL Advanced elective	3		
GEOL Advanced elective	3	Minor Course	3		
Minor Course	3				
	15		13		6

Total Hours: 120-121

1 Satisfies Core Curriculum requirement for Component Area III (Life and Physical Science).
2 Satisfies Core Curriculum requirement for Component Area I (Communications).
3 Satisfies Core Curriculum requirement for Component Area II (Mathematics).
4 Satisfies Core Curriculum requirement for Component Area VII (Political Science/Movement).
5 Satisfies Core Curriculum requirement for Component Area VI (U.S. History).

Bachelor of Science, Major in Geology (Geoscience)

Code	Title	Hours
Bachelor of Science, Major in Geology (Geoscience)		
Core Curriculum		
Component Area I (Communication)		6
Component Area II (Mathematics)		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6

Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4
Degree Specific Requirements		
CHEM 1411 & CHEM 1412	General Chemistry I and General Chemistry II [1]	8
Select two of the following or more advanced courses:		6-8
MATH 1314	Pre Calculus Algebra [2]	
MATH 1316	Plane Trigonometry [2]	
MATH 1410	Elementary Functions [2]	
MATH 1420	Calculus I [2]	
PHYS 1301 & PHYS 1101 & PHYS 1302 & PHYS 1102	General Phy-Mechanics & Heat and General Physics Laboratory I and Gen Phy-Snd,Lght, Elec, & Mag and General Physics Laboratory II	8
Major Core		
GEOL 1403	Physical Geology	4
or GEOL 1405	Geologic Hazards & Resources	
GEOL 1404 & GEOL 3301	Historical Geology and Field Methods	7
GEOL 3404 & GEOL 3405	Mineralogy and Petrology	8
GEOL 4400 & GEOL 4402	Stratigraphy And Sedimentation and Structural Geology	8
GEOL 4413 & GEOL 4304	Methods In Applied Geophysics and Geochemistry	7
Major		
Advanced Geology electives		15
Minor (if required)		
Courses in accepted minor		6
Courses in accepted minor		12
Total Hours		120-122

[1] CHEM 1411 and CHEM 1412 satisfy the Core Curriculum requirement for Component Area III (Life and Physical Science) and the Degree Specific requirement.

[2] MATH 1410 or MATH 1420 satisfy one semester credit hour of the Core Curriculum requirement for Component Area IX (Component Area Option). If the mathematics requirement is satisfied by MATH 1316 and MATH 1314, then KINE 2115 is recommended to satisfy Component Area IX (Component Area Option).

Note

A minor in geography, science, or mathematics is strongly recommended.

First Year

Fall	Hours	Spring	Hours	Summer	Hours
ENGL 1301[1]	3	CHEM 1411[3]	4	GEOL 3301	3
GEOL 1403	4	ENGL 1302[1]	3		
MATH 1314 or 1410[2]	3-4	GEOL 1404	4		
PHYS 1301 & PHYS 1101	4	MATH 1420 or 1316[2]	3-4		
KINE 2115[2]	1				
	15-16		14-15		3

Second Year

Fall	Hours	Spring	Hours
CHEM 1412[4]	4	GEOL 3405	4
GEOL 3404	4	Minor Course	3

Minor Course	3 PHYS 1302 & PHYS 1102	4
POLS 2305[4]	3 POLS 2306[4]	3
	14	14

Third Year

Fall	Hours	Spring	Hours
Component Area IV	3	Component Area V	3
GEOL 4400	4	GEOL 4402	4
GEOL Advanced Elective	3	GEOL Advanced Elective	3
HIST 1301[5]	3	HIST 1302[5]	3
Minor Course	3	Minor Course	3
	16		16

Fourth Year

Fall	Hours	Spring	Hours
Component Area VIII	3	Component Area IX	3
GEOL 4304	3	GEOL 4413	4
GEOL Advanced Elective	3	GEOL Advanced Elective	3
GEOL Advanced elective	3	Minor Course	3
Minor Course	3		
	15		13

Total Hours: 120-122

1 Satisfies Core Curriculum requirement for Component Area I (Communications).

2 Satisfies the Core Curriculum requirement for Component Area II (Mathematics) and one semester credit hour of Component Area IX (Component Area Option) if MATH 1410 or MATH 1420 is included. If both MATH 1314 and MATH 1316 satisfy the mathematics requirement, then KINE 2115 is recommended to fulfill the Component Area IX requirement.

3 Satisfies four semester credit hours of the Core Curriculum requirement for Component Area III (Life and Physical Science).

4 Satisfies the Core Curriculum requirement for Component Area VII (Political Science/Government).

5 Satisfies he Core Curriculum requirement for Component Area VI (U.S. History).

Minor in Geo-Spatial Science

Code	Title	Hours
Minor in Geo-Spatial Science		
GEOG 2464 & GEOG 4365	Intro to Geographic Info Sys and Applied Geographic Info Systms	7
Select 3 of the following applied courses:		9-10
GEOG 2364	Geo-Spatial Technology	
GEOG 3363	Computer Cartography	
GEOG 4361	Geographic Information Systems for Public Health	
GEOG 4468	Remote Sensing	
3 hours of Geotechnique Applications (one of the following)		3
GEOG 4333	Field Studies	
GEOG 4351	Economic Geography	
GEOG 4356	Urban Geography	
GEOG 4357	Population Geography	
GEOG 4359	Transportation Geography	
GEOG 4430	Hydrology and Water Resources	
GEOG 4432	Geomorphology	
Total Hours		19-20

Minor in Geography

Code	Title	Hours
Minor in Geography		
Select one of the following:		3
GEOG 1300	People, Place and the Envrnmt	
GEOG 2355	World Reg Geo-Eur Asia Aust	
GEOG 2356	Reg Geo-Lat Am Africa So Asia	
Human or Environmental Geography:	Select one of the following	3
GEOG 2341	Physical Geography	
GEOG 3301	Environmental Geography	
GEOG 3350	Cultural Geography	
Geography Elective		3
Advanced Geography Electives		9
Total Hours		18

Minor in Geology

Code	Title	Hours
Minor in Geology		
GEOL 1403	Physical Geology	4
or GEOL 1405	Geologic Hazards & Resources	
GEOL 1404	Historical Geology	4
Advanced Geology		12
Total Hours		20

Department of Mathematics & Statistics

Chair: Melinda Holt (https://www.shsu.edu/academics/mathematics-and-statistics/faculty/holt.html) (936) 294-1563

Website: Department of Mathematics and Statistics (http://www.shsu.edu/academics/mathematics-and-statistics)

Mathematics is a powerful tool for solving practical problems, combining logic and precision with intuition and imagination. The basic goal of mathematics is to reveal and explain patterns - whether the pattern appears as electrical impulses in an animal's nervous system, as fluctuations in stock market prices, or as fine detail of an abstract geometric figure.

Mission

The Department of Mathematics and Statistics provides an environment that is conducive to and promotes the understanding of mathematics and statistics by all students, encourages community and institutional service, and encourages and supports continued faculty development and scholarship. The department undertakes the following efforts to support this mission:

- Houses the Reeves Center for Mathematics Education
- Directs a variety of undergraduate research programs
- Provides undergraduate student presentations at MAA meetings
- Coordinates numerous grants with government and education agencies

Career Opportunities

- Accounting and Finance
- Computer Programming
- Sales and Marketing
- Management and Related Positions
- Actuarial
- Computer Systems Analysis
- Engineering
- Statistics
- Mathematics
- Operations Research
- Modeling
- Academic Positions - High School or College

Suggested Minors

- Chemistry
- Computer Science
- Music
- Physics
- Pre-Med/Biology
- Statistics

Program Specific Requirements

Anyone considering a degree in Mathematics should consult an advisor in the Mathematics department prior to registering for any courses. Visit LDB 420 for more information.

- Bachelor of Arts, Major in Mathematics
- Bachelor of Science, Major in Mathematics
- Bachelor of Science, Major in Mathematics with Teacher Certification
- Bachelor of Arts, Major in Mathematics with Secondary Certification With Two Teaching Fields
- Minor in Mathematics with Teacher Certification
- Minor in Mathematics without Teacher Certification
- Minor in Statistical Theory

- Minor in Statistical Method

Student Organizations

- Student chapter of the Mathematical Association of America (MAA)
- Student chapter of the American Mathematical Society (AMS)
- Pi-Mu-Epsilon Mathematics Honor Society
- Ruth Lane Math Society

Internships

Possible internships exist with NASA, the National Security Agency, Actuarial Firms, and the Oil Industry. However, federally-funded Research Experiences for Undergradautes (REUs) are the most popular programs among mathematicians over the summer. REU students spend 8 weeks of the summer at a different university, doing mathematics or statistics research. Not only are all expenses paid, a pretty generous stipend is earned at the end of the summer. For more information, see the NSF page on REUs. (http://www.nsf.gov/crssprgm/reu/list_result.jsp?unitid=5044)

Scholarships

The Department of Mathematics and Statistics offers several scholarships each year and Sam Houston State University offers additional, university-wide scholarships. Additional fellowships are available for students engaged in undergraduate research. For information on departmental scholarships, contact the Department of Mathematics and Statistics. Information on University scholarships may be obtained at Office of Academic Scholarships (http://www.shsu.edu/dept/financial-aid/scholarships) or by telephone (936) 294-1672.

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Bachelor of Arts, Major in Mathematics

Code	Title	Hours
Bachelor of Arts, Major in Mathematics		
Core Curriculum		
Component Area I (Communication)		6
Component Area II (Mathematics)		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4
Degree Specific Requirements		
COSC 1436	Programming Fundamentals I	4
ENGL 2332	Wrld Lit I: Before 17 Century [1]	3
FOLG 1411 & FOLG 1412 & FOLG 2311 & FOLG 2312	Beginning Foreign Language I and Beginning Foreign Language II and Intermediate Foreign Language and Intermed Foreign Language II [2]	14
PHIL 2303	Critical Thinking [3]	3
PHYS 1411	Introduction To Physics I	4
or PHYS 1422	Introduction To Physics II	
Science Courses for Science Majors from Component Area III list		8
Major Core		
MATH 1420	Calculus I [4]	4
MATH 1430	Calculus II	4
MATH 2440	Calculus III	4
MATH 3300	Introduction To Math Thought	3
MATH 3377	Intro To Linear Alg & Matrics	3
MATH 4361	Introductory Analysis	3
MATH 4366	Elementary Analysis	3
MATH 4371	Thry & Appl Of Prob & Stat I	3
MATH 4377	Algebraic Structures	3
Major		
Advanced MATH electives [5]		6
Minor		18
Electives (To bring to 120 total hrs)		9
Total Hours		120

1 ENGL 2332 satisfies three semester credit hours of the Core Curriculum requirement for Component Area IX (Component Area Option).

2 FOLG 2311 satisfies Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture).

3 PHIL 2303 satisfies Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).

4 MATH 1420 satisfies Core Curriculum requirement for Component Area II (Mathematics) and one semester credit hour of Component Area IX (Component Area Option).

5 Advanced MATH electives do not include MATH/STAT 3379.

The following courses can only be used as required advanced electives by students who are seeking elementary/middle school teacher certification:

Code	Title	Hours
Required Advanced Electives: Elementary/Middle School Teacher Certification		
MATH 3380	Historical Perspec of Math	3
MATH 3381	Intro - Foundation Of Math III	3

MATH 3383	Geometric Meas./Transformation	3
MATH 3384	Foundations Of Mathematics	3
MATH 3386	Fundmtls Probability/Stats	3
MATH 3387	Problem Solving-Middle Sch Mth	3

The following courses can only be used as required advanced electives by students who are seeking secondary teacher certification:

Code	Title	Hours
Required Advanced Electives: Secondary Teacher Certification		
MATH 4384	Survey Of Mathematical Ideas	3
MATH 4385	Mathematical Problem Solving	3

Students should use the minor and advanced general electives to complete the 42-advanced hour requirement for graduation.

In order to satisfy the Core Curriculum requirement for Component Area II (Life and Physical Science), except for the Department of Physics, the student must take classes from the following:

Courses for Science Majors

Code	Title	Hours
Course Requirements		
BIOL 1411	General Botany	4
BIOL 1413	General Zoology	4
BIOL 2401	Human Anatomy	4
CHEM 1411	General Chemistry I	4
CHEM 1412	General Chemistry II	4
Any lab course from Geology or Geography		

First Year

Fall	Hours	Spring	Hours
Component Area III (Science Course for Science Major)	4	Component Area III (Science Course for Science Majors)	4
ENGL 1301[1]	3	ENGL 1302[1]	3
HIST 1301[2]	3	HIST 1302[2]	3
MATH 1420[3]	4	MATH 1430	4
	14		14

Second Year

Fall	Hours	Spring	Hours
FOLG 1411	4	FOLG 1412	4
MATH 2440	4	MATH 3377	3
MATH 3300	3	Minor Course	3
PHYS 1411 or 1422	4	PHIL 2303[5]	3
POLS 2305[4]	3	POLS 2306[4]	3
	18		16

Third Year

Fall	Hours	Spring	Hours
ENGL 2332[6]	3	COSC 1436	4
FOLG 2311[7]	3	FOLG 2312	3
MATH 4361	3	MATH 4366	3
MATH 4371	3	MATH Advanced Elective	3
Minor Course	3	Minor Course	3
	15		16

Fourth Year

Fall	Hours	Spring	Hours
Component Area V	3	Elective	3
Elective	3	MATH Advanced Elective	3

MATH 4377	3 Minor Course	3
Elective	3 Minor Course	3
Minor Course	3	
	15	12

Total Hours: 120

1 Satisfies Core Curriculum requirement for Component Area I (Communications).

2 Satisfies Core Curriculum requirement for Component Area VI (U.S. History).

3 Satisfies Core Curriculum requirement for Component Area II (Mathematics) and one semester credit hour of Core Curriculum requirement for Component Area IX (Component Area Option).

4 Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).

5 Satisfies Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).

6 Satisfies Core Curriculum requirement for Component Area IX (Component Area Option).

7 Satisfies Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture).

Bachelor of Arts, Major in Mathematics with Secondary Certification With Two Teaching Fields

Code	Title	Hours
Bachelor of Arts, Major in Mathematics with Secondary Certification With Two Teaching Fields		
Core Curriculum		
Component Area I (Communication)		6
Component Area II (Mathematics)		3
Component Area III (Life and Physical Science) Courses for Science Majors		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4
Degree Specific Requirements		
COSC 1436	Programming Fundamentals I	4
ENGL 2332	Wrld Lit I: Before 17 Century [1]	3
FOLG 1411 & FOLG 1412 & FOLG 2311 & FOLG 2312	Beginning Foreign Language I and Beginning Foreign Language II and Intermediate Foreign Language and Intermed Foreign Language II	14
PHIL 2303	Critical Thinking	3
PHYS 1411	Introduction To Physics I	4
or PHYS 1422	Introduction To Physics II	
Science Courses for Science Majors (Choose 8 hours from same department from Component Area III)		8
Major Core		
MATH 1420	Calculus I [2]	4
MATH 1430	Calculus II	4
MATH 2440	Calculus III	4
MATH 3300	Introduction To Math Thought	3
MATH 3363	Euclidean Geometry	3
MATH 3377	Intro To Linear Alg & Matrics	3
MATH 3379	Statistical Mthods In Practice	3
or MATH 4371	Thry & Appl Of Prob & Stat I	
MATH 4367	The Evolution Of Mathematics	3
MATH 4377	Algebraic Structures	3
MATH 4384	Survey Of Mathematical Ideas	3

MATH 4385	Mathematical Problem Solving	3
Advanced MATH electives		6
Minor		
Secondary Teaching Field		12
CISE 3384	The Teaching Profession	3
CISE 4364	Mth Tch Secondary Schools	3
CISE 4378	Content Literacy	3
CISE 4379	Differentiated Pedagogy	3
CISE 4380	Respon Of Pro Educator	3
CISE 4394	Creatng Env For Lrng-Secondary	3
CISE 4396	Std Tch Secondary Classroom	3
CISE 4397	Std Tch Secondary Classroom	3
Total Hours		135

[1] Satisfies Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture) and Degree Specific requirement.

[2] MATH 1420 satisfies Core Curriculum requirement for Component Area II (Mathematics) and major.

First Year

Fall	Hours	Spring	Hours	Summer	Hours
COSC 1436	4	Component Area V	3	Minor Course	3
ENGL 1301[1]	3	ENGL 1302[1]	3		
FOLG 1411	4	FOLG 1412	4		
HIST 1301[2]	3	HIST 1302[2]	3		
MATH 1420[3]	4	MATH 1430	4		
		Minor Course	3		
	18		20		3

Second Year

Fall	Hours	Spring	Hours
Component Area III (Science course for science majors)	4	Component Area III (Science course for science majors)	4
FOLG 2311[4]	3	FOLG 2312	3
MATH 2440	4	MATH 3363	3
MATH 3300	3	MATH 3377	3
MATH 3379 or 4371	3	Minor Course	3
PHYS 1411 or 1422	4	POLS 2305[5]	3
	21		19

Third Year

Fall	Hours	Spring	Hours
MATH 4367	3	CISE 4378	3
MATH 4385	3	CISE 4380	3
CISE 3384	3	MATH 4377	3
PHIL 2303[6]	3	MATH 4384	3
POLS 2306[5]	3	MATH Advanced Elective	3
		Minor Course	3
	15		18

Fourth Year

Fall	Hours	Spring	Hours
CISE 4364	3	CISE 4394	3
CISE 4379	3	CISE 4396	3
MATH Advanced Elective	3	CISE 4397	3

ENGL 2332	3	
	12	9

Total Hours: 135

1 Satisfies Core Curriculum requirement for Component Area I (Communications).
2 Satisfies Core Curriculum requirement for Component Ara VI (U.S. History).
3 Satisfies Core Curriculum requirement for Component Ara II and one semester credit hour of the Core Curriculum requirement for Component Area IX (Component Area Option).
4 Satisfies Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture).
5 Satisfies Core Curriculum requirement for Component Ara VII (Political Science/Government).
6 Satisfies Core Curriculum requirement for Component Ara VIII (Social and Behavioral Sciences).
7 Satisfies Core Curriculum requirement for Component Ara IX (Component Area Option).

Bachelor of Science, Major in Mathematics

Code	Title	Hours
Bachelor of Science, Major in Mathematics		
Core Curriculum		
Component Area I (Communication)		6
Component Area II (Mathematics) satisfied by major		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4
Degree Specific Requirements		
Science Courses for Science Majors - Select 8 hours from the following: [1]		8
BIOL 1411 & BIOL 1413	General Botany and General Zoology	
CHEM 1411 & CHEM 1412	General Chemistry I and General Chemistry II	
8 hours from GEOL 1403, GEOL 1404, GEOL 1405, GEOG 1401		
COSC 1436	Programming Fundamentals I	4
ENGL 2332	Wrld Lit I: Before 17 Century [2]	3
or ENGL 2333	World Lit II: 17th C & After	
PHYS 1411 & PHYS 1422	Introduction To Physics I and Introduction To Physics II	8
or PHYS 2426	Heat, Waves & Modern Physics	
Major Core		
MATH 1420	Calculus I [3]	4
MATH 1430	Calculus II	4
MATH 2440	Calculus III	4
MATH 3300	Introduction To Math Thought	3
MATH 3376	Differential Equations	3
MATH 3377	Intro To Linear Alg & Matrics	3
MATH 4366	Elementary Analysis	3
MATH 4361	Introductory Analysis	3
MATH 4371	Thry & Appl Of Prob & Stat I	3
MATH 4377	Algebraic Structures	3
Major		
Advanced MATH Electives [4]		6

Elective	13
Minor	18
Total Hours	120

1 Satisfies Core Curriculum requirement for Component Area III (life and Physical Science).

2 Satisfies the Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture).

3 MATH 1420 satisfies the Core Curriculum requirement for Component Area II (Mathematics) and one semester credit hour of the Core Curriculum requirement for Component Area IX (Component Area Option).

4 Advanced MATH electives do not include MATH/STAT 3379.

The following courses can only be used as required advanced electives by students who are seeking elementary/middle school teacher certification:

Code	Title	Hours
Advanced Electives for Elemntrary/Middle School Teacher Certification		
MATH 3380	Historical Perspec of Math	3
MATH 3381	Intro - Foundation Of Math III	3
MATH 3383	Geometric Meas./Transformation	3
MATH 3384	Foundations Of Mathematics	3
MATH 3386	Fundmtls Probability/Stats	3
MATH 3387	Problem Solving-Middle Sch Mth	3

The following courses can only be used as required advanced electives by students who are seeking secondary teacher certification:

Code	Title	Hours
Advanced Electives for Secondary Teacher Certification		
MATH 4384	Survey Of Mathematical Ideas	3
MATH 4385	Mathematical Problem Solving	3

Students should use the minor and electives to complete the 42-advanced hour requirement for graduation.

In order to satisfy the Core Curriculum requirement for Component Area III (Life and Physcial Science), except in the Department of Physics, the student must take 8 semeter credit hours of classes from the following:

Code	Title	Hours
Required Courses		
BIOL 1411 & BIOL 1413	General Botany and General Zoology	8
or CHEM 1411 & CHEM 1412	General Chemistry I and General Chemistry II	

Any two lab courses from Geology or Geography

First Year

Fall	Hours	Spring	Hours
Component Area III - Science Course for Science Majors	4	Component Area III - Science Course for Science Majors	4
ENGL 1301[1]	3	ENGL 1302[1]	3
HIST 1301[2]	3	HIST 1302[2]	3
MATH 1420[3]	4	MATH 1430	4
	14		14

Second Year

Fall	Hours	Spring	Hours
Component Area IX	3	MATH 3377	3
MATH 2440	4	MATH 3376	3
MATH 3300	3	Minor Course	3
PHYS 1411	4	PHYS 1422 or 2426	4
POLS 2305[4]	3	POLS 2306[4]	3
	17		16

Third Year

Fall	Hours	Spring	Hours
COSC 1436	4	Component Area V	3
Elective	1	ENGL 2332[5]	3
MATH 4361	3	MATH 4366	3
MATH 4371	3	MATH Advanced Elective	3
Minor Course	3	Minor Course	3
	14		15

Fourth Year

Fall	Hours	Spring	Hours
MATH 4377	3	MATH Advanced Elective	3
Elective	3	Minor Course	3
Class for Minor	3	Minor Course	3
Component Area VIII	3	Elective	3
Elective	3	Elective	3
	15		15

Total Hours: 120

1 Satisfies Core Curriculum requirement for Component Area I (Communications).

2 Satisfies Core Curriculum requirement for Component Area VI (U.S. History).

3 Satisfies Core Curriculum requirement for Component Area II (Mathematics) and one semester credit hour of Component Area IX (Component Area Option).

4 Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).

5 Satisfies Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture).

Bachelor of Science, Major in Mathematics with Teacher Certification

For Students Selecting a Minor as a Second Teaching Field

The requirements include:

Code	Title	Hours
MATH 1420	Calculus I	4
MATH 1430	Calculus II	4
MATH 2440	Calculus III	4
MATH 3363	Euclidean Geometry	3
MATH 3300	Introduction To Math Thought	3
MATH 3377	Intro To Linear Alg & Matrics	3
MATH 3379	Statistical Mthods In Practice	3
MATH 4377	Algebraic Structures	3
MATH 4384	Survey Of Mathematical Ideas	3
MATH 4367	The Evolution Of Mathematics	3
MATH 4385	Mathematical Problem Solving	3
Total Hours		36

For Students Who do not Select a Minor

Code	Title	Hours
MATH 1420	Calculus I	4
MATH 1430	Calculus II	4
MATH 2440	Calculus III	4
MATH 3363	Euclidean Geometry	3
MATH 3300	Introduction To Math Thought	3
MATH 3377	Intro To Linear Alg & Matrics	3
MATH 3379	Statistical Mthods In Practice	3
MATH 4377	Algebraic Structures	3

MATH 4367	The Evolution Of Mathematics	3
MATH 4384	Survey Of Mathematical Ideas	3
MATH 4385	Mathematical Problem Solving	3
Select one of the following options:		6
OPTION 1: (Analysis Emphasis)		
MATH 4361	Introductory Analysis	
An advanced MATH course		
OPTION 2: (Statistics Emphasis)		
MATH/STAT 4371	Thry & Appl Of Prob & Stat I	
An advanced STAT course		
Total Hours		42

Code	Title	Hours
Bachelor of Science, Major in Mathematics with Teacher Certification		
Core Curriculum		
Component Area I (Communication)		6
Component Area II (Mathematics)		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4
Degree Specific Requirements		
Science Courses for Science Majors - Select 8 hours from the following: [1]		8
BIOL 1411 & BIOL 1413	General Botany and General Zoology	
CHEM 1411 & CHEM 1412	General Chemistry I and General Chemistry II	
8 hours from GEOL 1403, GEOL 1404, GEOL 1405, GEOG 1401		
COSC 1436	Programming Fundamentals I	4
ENGL 2332	Wrld Lit I: Before 17 Century [2]	3
PHYS 1411 & PHYS 1422 or PHYS 2426	Introduction To Physics I and Introduction To Physics II Heat, Waves & Modern Physics	8
Major Core		
MATH 1420	Calculus I [3]	4
MATH 1430	Calculus II	4
MATH 2440	Calculus III	4
MATH 3300	Introduction To Math Thought	3
MATH 3363	Euclidean Geometry	3
MATH 3377	Intro To Linear Alg & Matrics	3
MATH 3379	Statistical Mthods In Practice	3
MATH 4367	The Evolution Of Mathematics	3
MATH 4377	Algebraic Structures	3
MATH 4384	Survey Of Mathematical Ideas	3
MATH 4385	Mathematical Problem Solving	3
Major		
Select one of the following Options:		6
Option 1:		
MATH 4361	Introductory Analysis	
An Advanced MATH elective		

Option 2:		
STAT 4371	Thry & Appl Of Prob & Stat I	
An advanced STAT elective		
Minor		
CISE 3384	The Teaching Profession (Junior)	3
CISE 4364	Mth Tch Secondary Schools (Senior)	3
CISE 4378	Content Literacy	3
CISE 4379	Differentiated Pedagogy	3
CISE 4380	Respon Of Pro Educator	3
CISE 4394	Creatng Env For Lrng-Secondary (Senior)	3
CISE 4396	Std Tch Secondary Classroom (Senior)	3
CISE 4397	Std Tch Secondary Classroom (Senior)	3
MATH Elective		6
Elective		1
Total Hours		123

[1] Satisfies Core Curriculum requirement for Component Area III (Life and Physical Science).

[2] ENGL 2332 satisfies both Core Curriculum for Component Area IV as well as B.S. degree-specific requirements.

[3] Satisfies Core Curriculum requirement for Component Area II (Mathematics) and one semester credit hour of the Core Curriculum requirement for Component Area IX (Component Area Option).

First Year

Fall	Hours	Spring	Hours
Component Area III - Science Course for Science Major	4	Component Area III - Science Course for Science Major	4
Component Area IV	3	Component Area V	3
COSC 1436	4	ENGL 1302[1]	3
ENGL 1301[1]	3	MATH 1430	4
MATH 1420[2]	4	MATH 3379	3
	18		17

Second Year

Fall	Hours	Spring	Hours
HIST 1301[3]	3	HIST 1302[3]	3
MATH 2440	4	MATH 3363	3
MATH 3300	3	MATH 3377	3
PHYS 1411	4	PHYS 1422 or 2426	4
POLS 2305[4]	3	POLS 2306[4]	3
	17		16

Third Year

Fall	Hours	Spring	Hours
Component Area VIII	3	CISE 4378	3
MATH 4367	3	CISE 4380	3
MATH 4377	3	MATH 4384	3
MATH 4385	3	Elective	1
CISE 3384	3	MATH elective	3
Option 1 or 2	3	Option 1 or 2 (3 additional hours from same option)	3
	18		16

Fourth Year

Fall	Hours	Spring	Hours
CISE 4364	3	CISE 4394	3
CISE 4379	3	CISE 4396	3
ENGL 2332[5]	3	CISE 4397	3

MATH elective	3	
	12	9

Total Hours: 123

1 Satisfies Core Curriculum requirement for Component Area I (Communications).

2 Satisfies Core Curriculum requirement for Component Area II (Mathematics) and one semester credit hour of Component Area IX (Component Area Option).

3 Satisfies Core Curriculum requirement for Component Area VI (U.S. History).

4 Satisfies Core Curriculum requirement for Component Area VII (Political Science).

5 Satisfies Core Curriculum requirement for Component Area IX (Component Area Option).

Minor in Mathematics with Teacher Certification

Middle School Level Certification

Plans must include the following courses or approved substitutes.

Code	Title	Hours
Minor in Mathematics with Middle School Level Certification		
MATH 1384	Intro To Foundations Of Math I	3
MATH 1385	Intro Foundations Of Math II	3
MATH 2384	Functions And Graphs	3
MATH 2385	Fundamentals Of Calculus	3
MATH 3380	Historical Perspec of Math	3
MATH 3383	Geometric Meas./Transformation	3
MATH 3384	Foundations Of Mathematics	3
MATH 3386	Fundmtls Probability/Stats	3
MATH 3387	Problem Solving-Middle Sch Mth	3
Total Hours		27

The following certifications are available for students who wish to teach in middle school: 4-8 Mathematics and 4-8 Mathematics/Science. Detailed four-year plans are located in the College of Education section of this catalog.

Secondary Level Certification

Plans must include the following courses or approved substitutes.

Code	Title	Hours
Minor in Mathematics with Secondary Level Certification		
MATH 1420	Calculus I	4
MATH 1430	Calculus II	4
MATH 3300	Introduction To Math Thought	3
MATH 3363	Euclidean Geometry	3
MATH 3377	Intro To Linear Alg & Matrics	3
MATH 3379	Statistical Mthods In Practice	3
MATH 4384	Survey Of Mathematical Ideas	3
MATH 4385	Mathematical Problem Solving	3
Total Hours		26

Teacher Certification

In addition to the listed degree requirements, the following courses must be completed for teacher certification. Several of these courses may be taken as electives or to partially complete existing degree requirements.

Code	Title	Hours
Minor in Mathematics with Teacher Certification		
CISE 3384	The Teaching Profession	3
CISE 4364	Mth Tch Secondary Schools	3

CISE 4378	Content Literacy	3
CISE 4379	Differentiated Pedagogy	3
CISE 4380	Respon Of Pro Educator	3
CISE 4394	Creatng Env For Lrng-Secondary	3
CISE 4396	Std Tch Secondary Classroom	3
CISE 4397	Std Tch Secondary Classroom	3
Total Hours		24

Minor in Mathematics without Teacher Certification

Minors in mathematics must include:

Code	Title	Hours
Minor in Mathematics without Teacher Certification [1]		
MATH 1420	Calculus I	4
MATH 1430	Calculus II	4
Select one of the following: [2]		10
MATH 2440	Calculus III (and 6 semester hours of advanced mathematics (no more than 3 hours of courses cross listed with STA)	
10 semester hours of advanced mathematics (no more than 3 hours of courses cross listed with STAT; excluding MATH/STAT 3379)		
Total Hours		18

[1] A student's major program of study may also impose requirements on a minor in mathematics. Thus, the selection of courses for a mathematics minor should be made with the counsel of the major advisor and a mathematics advisor.

[2] MATH 3380, 3381, 3382, 3383, 3384, 3386, 3387, 4384, 4385, and MATH/STAT 3379 may not used as advanced mathematics electives toward the Minor in Mathematics without Teaching Certification.

Minor in Statistical Methods

Code	Title	Hours
Minor in Statistical Method		
Select six of the following		18
STAT 3379	Statistical Methds In Practice	
STAT 3380	Stat Desgn & Anal Of Experimts	
STAT 3381	Sample Survey Methods	
STAT 4370	Special Topics In Statistics	
STAT 4373	Nonparametric Statistics	
STAT 4374	Regression Modeling & Analysis	
STAT 4375	Quality Control & Reliability	
STAT 4376	Time Series and Forecasting	
Total Hours		18

Courses include special topics choices from Bayesian Analysis, Survival Modeling, and Biostatistics.

A concentration of twelve semester hours is appropriate for students who need an understanding of statistics to augment study in another field but who do not require a minor in statistics. A typical concentration might consist of:

Code	Title	Hours
Courses Required		
STAT 3379	Statistical Methds In Practice	3
Select three of the following:		9
STAT 3380	Stat Desgn & Anal Of Experimts	
STAT 3381	Sample Survey Methods	
STAT 4370	Special Topics In Statistics	
STAT 4371	Thry & Appl Of Prob & Stat I	
STAT 4372	Thry & Aplctn Of Prob & Sta II	

STAT 4373	Nonparametric Statistics	
STAT 4374	Regression Modeling & Analysis	
STAT 4375	Quality Control & Reliability	
STAT 4376	Time Series and Forecasting	
Total Hours		12

Minor in Statistical Theory

Code	Title	Hours
Minor in Statistical Theory		
Courses required		
STAT 4371	Thry & Appl Of Prob & Stat I	3
STAT 4372	Thry & Aplctn Of Prob & Sta II	3
Select four of the following:		12
STAT 3379	Statistical Methds In Practice	
STAT 3380	Stat Desgn & Anal Of Experimts	
STAT 3381	Sample Survey Methods	
STAT 4370	Special Topics In Statistics	
STAT 4373	Nonparametric Statistics	
STAT 4374	Regression Modeling & Analysis	
STAT 4375	Quality Control & Reliability	
STAT 4376	Time Series and Forecasting	
Total Hours		18

Department of Physics

Acting Chair: Joel W. Walker (jwalker@shsu.edu) (936) 294-4803

Website: Department of Physics (http://www.shsu.edu/academics/physics)

Physics is the study of how nature behaves. It is concerned with the basic principles of the universe and is one of the foundations on which other physical sciences are based. The beauty of physics is exhibited by the simplicity of its fundamental theories and in the way a small number of basic concepts, equations and assumptions can expand the students' understanding of the world.

Mission

The mission of the Department of Physics is to promulgate the ability to critically think about nature through teaching and to develop the inquisitiveness to seek additional knowledge by research. In conducting this mission, the Department of Physics will provide capable scientists that can make positive contributions to our society. In order to accomplish this mission, the Department of Physics will take the following steps:

- Improve success in learning and research among all students in the department.
- Develop additional methods to plan and assess the program in the department.
- Recruit and retain qualified, motivated students.
- Promote diversity in the faculty and students.
- Collaborate with other institutions and departments to enhance education opportunities.
- Develop and implement additional educational services to off-campus audiences.
- Provide assistance to teachers in the schools preparing the future students for the institution.

Academic Programs

Physics students may pursue a Bachelor of Science degree in Physics or a dual degree consisting of a Bachelor of Science in Physics from Sam Houston State University and a Bachelor's degree in a chosen engineering field at a university with an accredited degree program. Students also may enroll in a two-year pre-engineering program. The Bachelor of Science degree in Physical Science with Secondary Certification is available to students seeking careers in secondary education.

Career Opportunities

Graduates with a Bachelor of Science degree either pursue further education at the graduate level or enter the workforce. Approximately one-half of the graduates pursue graduate study seeking either the Master of Science or Ph.D. degree. The remainder primarily enter the engineering profession but may also enter the fields of computer science and education.

Program Specific Requirements

Physics students will learn the simplicity of nature and the unifying aspects of the laws of physics. This is accomplished by recognizing physical problems, developing a hypothesis and predicting the consequences of it, performing experiments to test the predictions, and formulating the results into a theory. The skills of inquiry, observation, and experimentation are used in all scientific careers including engineering, business, teaching, and administration. The Physics Department has basic research laboratories in selected fields and provides opportunities for advanced students to be involved in research projects. The University operates computer laboratories containing desktop computers, and work stations at several locations on campus.

Curriculum

Required Courses For Major

The Bachelor of Science degree requires at least 38 hours in Physics as follows:

Code	Title	Hours
Course Requirements		
PHYS 1401	Physics Boot Camp	4
PHYS 1411	Introduction To Physics I	4
PHYS 1422	Introduction To Physics II	4
PHYS 3370 & PHYS 4110	Intro To Theoretical Physics and Adv Undergrad Laboratory I	4
PHYS 3391 & PHYS 3111	Modern Physics I and Modern Physics Laboratory I	4
PHYS 4366	Intro Quantum Mechanics	3
PHYS 4368	Electricity And Magnetism	3

PHYS 4370	Classical Mechanics	3
PHYS 4371	Thermodynamcs & Statistcl Mech	3
PHYS 4395	Undergraduate Research	3
Select 1 or more advanced electives:		3-12
PHYS 3395 & PHYS 3115	Electronics & Circuit Analysis and Electronic & Circuit Anlys Lab	
PHYS 4333 & PHYS 4113	Light And Optics and Light And Optics	
PHYS 4367	Intro To Solid State Physics	
PHYS 4396	Selected Topics In Physics	
ASTR 3303	Life in the Universe	
ASTR 3383	Cosmic Catastrophes	
Total Hours		38-47

All Physics majors meet the requirements for a minor in mathematics.

- Bachelor of Science, Major in Physics
- Bachelor of Science, Major in Physics/Engineering Dual Degree
- Bachelor of Science, Major in Composite Science-Physics Concentration
- Pre-Engineering
- Minor in Physics

Student Organizations

Society of Physics - The Society of Physics is a nationally recognized organization. The society sponsors field trips, campus visits by potential students, and attendance at professional meetings.

Scholarships

The Physics Department awards scholarships on a competitive basis. Students with GPA of 3.0 or higher should inquire about the Burroughs Scholarship (awards average $3,000 to $4,000 per semester) to the department chair (936) 294-1601. Other general scholarships are available from the University. Information on University scholarships may be obtained at Office of Academic Scholarships (http://www.shsu.edu/dept/financial-aid/scholarships) or by telephone (936) 294-1672. Prospective students should contact the chair of the Physics Department, Box 2267, Huntsville, Texas 77341 or the website.

Chair: **Joel W Walker**

James Blackman Dent, PHD (jxd087@shsu.edu), *Assistant Professor of Physics*, *Department of Physics*, PHD, Texas AM University; BS, Univ of Missouri-Rolla

Hui Fang, PHD (hfang@shsu.edu), *Associate Professor of Physics*, *Department of Physics*, PHD, Univ of Houston-Main; ME, Univ of Houston-Main; MS, Zhejiang University; BS, Zhejiang University

Barry Friedman, PHD (phy_baf@shsu.edu), *Professor of Physics*, *Department of Physics*, PHD, Univ of Illinois-Urbana; MS, Univ of Illinois-Urbana; BA, Rice University

Carol Renee James, PHD (phy_crj@shsu.edu), *Professor of Physics*, *Department of Physics*, PHD, Univ of Texas At Austin; MA, Univ of Texas At Austin; BA, Rice University

Gan Liang, PHD (phy_gnl@shsu.edu), *Professor of Physics*, *Department of Physics*, PHD, Rutgers University; BS, Beijing University

Charles R. Meitzler, PHD (phy_crm@shsu.edu), *Associate Professor of Physics*, *Department of Physics*, PHD, Rutgers University; BS, Penn State Un-Univ Park

Scott T Miller, PHD (stm009@shsu.edu), *Associate Professor of Physics*, *Department of Physics*, PHD, Univ of Maryland-College Park; MS, Univ of Maryland-College Park; BA, Rutgers University; BS, Rutgers University

David Aaron Pooley, PHD, *Assistant Professor of Physics*, *Department of Physics*, PHD, Massachusetts Inst of Tech; BS, Massachusetts Inst of Tech; BS, Massachusetts Inst of Tech

Joel W Walker, PHD (jwalker@shsu.edu), *Associate Professor and Chair of Physics*, *Department of Physics*, PHD, Texas AM University; PHD, Texas AM University; BS, Harding University; BS, Harding University

Interim Faculty

Binyang Hou, PHD, *Visiting Assistant Professor of Physics*, *Department of Physics*, PHD, Univ of Illinois-Chicago; MS, Univ of Illinois-Chicago; BS, Univ of Sci Tech of China

Alexander Mikishev, PHD (amik@shsu.edu), *Visiting Assistant Professor of Physics*, *Department of Physics*, PHD, Perm State University; MS, Perm State University; BS, Perm State University

John F Wilson, PHD (jfw008@shsu.edu), *Lecturer of Physics*, *Department of Physics*, PHD, Univ of Houston-Main; MTS, Southern Methodist University; MS, Drexel University; MS, Purdue University; BSEE, Univ of Tennessee-Chattanooga

Bachelor of Science, Major in Physics

Code	Title	Hours
Bachelor of Science, Major in Physics		
Core Curriculum		
Component Area I (Communication)		6
Component Area II (Mathematics)		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4
Degree Specific Requirements		
BIOL 1411	General Botany	4
or GEOL 1403	Physical Geology	
or PHYS 1404	Solar System Astronomy	
BIOL 1413	General Zoology	4
or GEOL 1404	Historical Geology	
or PHYS 1403	Stars & Galaxies	
CHEM 1411	General Chemistry I [1]	4
CHEM 1412	General Chemistry II [1]	4
COSC 1436	Programming Fundamentals I	4
Advanced General elective		7
MATH (Advanced) or Science (Advanced)		6
Major Core		
PHYS 1401	Physics Boot Camp	4
PHYS 1411	Introduction To Physics I	4
PHYS 1422	Introduction To Physics II	4
PHYS 3391 & PHYS 3111	Modern Physics I and Modern Physics Laboratory I	4
PHYS 3370 & PHYS 4110	Intro To Theoretical Physics and Adv Undergrad Laboratory I	4
PHYS 4366	Intro Quantum Mechanics	3
PHYS 4368	Electricity And Magnetism	3
PHYS 4370	Classical Mechanics	3
PHYS 4371	Thermodynamcs & Statistcl Mech	3
PHYS 4395	Undergraduate Research	3
Major		
Advanced PHYS elective		3
General Elective		1
Minor (if required)		
MATH 1420	Calculus I [1]	4
MATH 1430	Calculus II	4
MATH 2440	Calculus III	4
MATH 3376	Differential Equations	3
MATH 4376	Topics In Applied Mathmatics I	3
or MATH 3377	Intro To Linear Alg & Matrics	
Total Hours		120

[1] CHEM 1411, CHEM 1412 satisfies the Core Curriculum requirement for Component Area III (Life and Physical Science). MATH 1420 satisfies the Core Curriculum requirement for Component Area II (Mathematics), one semester credit hour of Component Area IX (Component Area Option), and the Degree Specific requirement.

A student may need preparatory work in mathematics or might be eligible for advanced placement, either of which necessitates adjustment of the schedule. Such a student should consult a member of the physics or mathematics faculty concerning his/her schedule.

First Year

Fall	Hours	Spring	Hours
CHEM 1411	4	CHEM 1412[3]	4
ENGL 1301[1]	3	ENGL 1302[1]	3
General Elective	1	MATH 1430	4
MATH 1420[2]	4	PHYS 1411	4
PHYS 1401	4		
	16		15

Second Year

Fall	Hours	Spring	Hours
Component Area IV	3	COSC 1436	4
HIST 1301	3	HIST 1302[4]	3
MATH 2440	4	PHYS 3370 & PHYS 4110	4
PHYS 1422	4	POLS 2306[5]	3
POLS 2305	3		
	17		14

Third Year

Fall	Hours	Spring	Hours
Component Area VIII	3	Component Area V	3
Component Area IX	3	BIOL 1413, GEOL 1404, or PHYS 1403	4
BIOL 1411, GEOL 1403, or PHYS 1404	4	MATH 4376 or 3377	3
MATH 3376	3	PHYS 4370	3
PHYS 3111	1		
PHYS 3391	3		
	17		13

Fourth Year

Fall	Hours	Spring	Hours
Advanced General Elective	3	Advanced General Elective	4
Math or Science (Advanced)	3	Math or Science (Advanced)	3
PHYS 4368	3	PHYS 4366	3
PHYS 4371	3	PHYS Advanced Elective	3
PHYS 4395	3		
	15		13

Total Hours: 120

[1] Satisfies Core Curriculum requirement for Component Area I (Communications).

[2] Satisfies Core Curriculum requirement for Component Area II (Mathematics) and one semester credit hour of the Core Curriculum requirement for Component Area IX (Component Area Option).

[3] Satisfies Core Curriculum requirement for Component Area III (Life and Physical Science).

[4] Satisfies Core Curriculum requirement for Component Area VI (U.S. History).

[5] Satisfies Core Curriculum requirement for Component Area VII (Political Science).

Bachelor of Science, Major in Physics/Engineering Dual Degree

Code	Title	Hours
Bachelor of Science, Major in Physics/Engineering Dual Degree		

Core Curriculum		
Component Area I (Communication)		6
Component Area II (Mathematics)		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4
Degree Specific Requirements		
CHEM 1411	General Chemistry I [1]	4
CHEM 1412	General Chemistry II [1]	4
COSC 1436	Programming Fundamentals I	4
ENGL 3330	Intro To Technical Writing	3
ETDD 1361	Engineering Graphics	3
Advanced Elective		3
Major Core		
PHYS 1401	Physics Boot Camp	4
PHYS 1411	Introduction To Physics I	4
PHYS 1422	Introduction To Physics II	4
PHYS 3370 & PHYS 4110	Intro To Theoretical Physics and Adv Undergrad Laboratory I	4
PHYS 3395 & PHYS 3115	Electronics & Circuit Analysis and Electronic & Circuit Anlys Lab	4
PHYS 3391 & PHYS 3111	Modern Physics I and Modern Physics Laboratory I	4
Major		
PHYS (Advanced) (see list below)		6-8
MATH 1420	Calculus I [1]	4
MATH 1430	Calculus II	4
MATH 2440	Calculus III	4
MATH 3376	Differential Equations	3
MATH 4376 or MATH 3377	Topics In Applied Mathmatics I Intro To Linear Alg & Matrics	3
Total Hours		99-101

[1] CHEM 1411 and CHEM 1412 satisfy the Core Curriculum requirement for Component Area III (Life and Physical Science, and MATH 1420 satisfies the Core Currciulum requirement for Component Area II (Mathematics), one semester credit hour of Component Area IX (Component Area Option), and the Degree Specific requirement. Fourth Year at university with recognized accredited degree program.

Code	Title	Hours
Advanced PHYS Electives		
PHYS 4333 & PHYS 4113	Light And Optics and Light And Optics	4
PHYS 3360	Statics And Dynamics	3
PHYS 4366	Intro Quantum Mechanics	3
PHYS 4368	Electricity And Magnetism	3
PHYS 4371	Thermodynamcs & Statistcl Mech	3
PHYS 4370	Classical Mechanics	3

For the Dual Degree Plan the student completes three years in Physics at Sam Houston State University and the curriculum in an engineering field at a university with a recognized accredited degree program in the chosen engineering field.

After successfully completing this program, the student receives two Bachelor of Science degrees:

- one in Physics from Sam Houston State University
- one in an engineering specialty from the university with the recognized accredited engineering degree program.

The applicable engineering specialties are:

- aerospace
- agriculture
- chemical
- civil
- electrical
- industrial
- mechanical
- nuclear
- petroleum
- radiation protection engineering

For the chemical engineering option, a Bachelor of Science in Chemistry would be received from Sam Houston State University.

For more information on this program contact:

Dual Degree Plan Coordinator
Department of Physics
Sam Houston State University
Huntsville, Texas 77341-2267

Students in either of these programs should consult with the Physics/Engineering advisor to adjust the recommended programs to meet the requirements of the particular field of engineering at the terminal university.

To contact the Department of Physics, call (936) 294-1601; FAX: (936) 294-1585; or visit Department of Physics (http://www.shsu.edu/academics/physics).

First Year

Fall	Hours	Spring	Hours
PHYS 1401	4	PHYS 1411	4
MATH 1420[1]	4	MATH 1430	4
CHEM 1411[2]	4	CHEM 1412[2]	4
ENGL 1301[3]	3	ENGL 1302[3]	3
HIST 1301[4]	3	HIST 1302[4]	3
	18		18

Second Year

Fall	Hours	Spring	Hours
PHYS 1422	4	PHYS 3370 & PHYS 4110	4
MATH 2440	4	ENGL 3330	3
POLS 2305[5]	3	POLS 2306[5]	3
ETDD 1361	3	COSC 1436	4
Component Area IV	3	Component Area IX	3
	17		17

Third Year

Fall	Hours	Spring	Hours
PHYS 3391	3	PHYS 3395	3
PHYS 3111	1	PHYS 3115	1
MATH 3376	3	MATH 4376 or 3377	3
Phys (Advanced)	3-4	Component Area V	3
Advanced Elective	3	Phys (Advanced)	3-4

Component Area VIII	3	
	16-17	13-14
Fourth Year		
Fall	**Hours Spring**	**Hours**
University with Accredited Degree Program	0 University with Accredited Degree Program	0
	0	0

Total Hours: 99-101

1 Satisfies Core Curriculum requirement for Component Area I (Communications).

2 Satisfies Core Curriculum requirement for Component Area II (Mathematics) and one hour of Component Area IX (Component Area Option).

3 Satisfies Core Curriculum requirement for Component Area III (Life and Physical Science).

4 Satisfies Core Curriculum requirement for Component Area VI (U.S. History).

5 Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).

Minor in Physics

A minor in Physics requires a minimum of 24 hours of coursework and shall include:

Code	Title	Hours
Minor in Physics		
PHYS 1401	Physics Boot Camp	4
PHYS 1411	Introduction To Physics I	4
PHYS 1422	Introduction To Physics II	4
PHYS 3391 & PHYS 3111	Modern Physics I and Modern Physics Laboratory I	4
Advanced Electives in Physics		8
Total Hours		24

Pre-Engineering

Students wishing to major in any of the many fields of engineering may take their first two years in pre-engineering at Sam Houston State University and transfer to a college of engineering to complete their degree requirements.

Code	Title	Hours
Pre-Engineering		
Core Curriculum		
Component Area I (Communication)		6
Component Area II (Mathematics)		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6
Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4
Degree Specific Requirements		
MATH 1420	Calculus I [1]	4
MATH 1430	Calculus II	4
MATH 2440	Calculus III	4
CHEM 1411	General Chemistry I [1]	4
CHEM 1412	General Chemistry II [1]	4
COSC 1436	Programming Fundamentals I	4
ENGL 3330	Intro To Technical Writing	3
ETDD 1361	Engineering Graphics	3
Major Core		

PHYS 1401	Physics Boot Camp	4
PHYS 1411	Introduction To Physics I	4
PHYS 1422	Introduction To Physics II	4
Total Hours		72

[1] CHEM 1411 and CHEM 1412 satisfy the Core Curriculum requirement for Component Area III (Life and Physical Science) and MATH 1420 satisfies the Core Curriculum requirement for Component Area II (Mathematics), one semester credit hour of Component Area IX (Component Area Option), and the Degree Specific requirement. This is to satisfy the first two years toward an engineering degree.

FIRST YEAR EXPERIENCE

Director: Kay Angrove (kangrove@shsu.edu) (936) 294-3422

Website: First Year Experience (http://www.shsu.edu/fye)

Sam Houston State University has developed a comprehensive, coordinated approach toward the first-year experience including a first-year seminar course, learning communities, first-year course schedule building assistance for an optimal experience, advising, newsletters, New Student Convocation, a Common Reading Program, and a comprehensive offering of leadership opportunities and support strategies for students at SHSU.

UNIV 1301 is a three credit hour first-year seminar course. Class size is limited to approximately 25 students. Students will receive academic and personal assessments and survival tools and get an orientation to and use the academic resources (e.g., Writing Center, Math Center, Student Advising and Mentoring Center, Student Money Management Center, Health and Wellness Center) at Sam Houston State University. Students enrolled in this course receive personal guidance in selecting college majors and in researching corresponding career fields. UNIV 1301 is designed to optimize the students' college experience and to develop an informed plan for graduation and careers.

Learning communities (http://www.shsu.edu/dept/fye/FLC) provide students the opportunity to take several classes with the same group of students. The learning communities are designed to foster the intellectual and social development of students through increased interaction with fellow students, faculty, and staff. SHSU learning communities pair courses in the fall and in the spring around an academic major or student interest theme. Each first-year learning community is anchored by the UNIV 1301 course. The Living Learning communities provide students the opportunity to take two to three classes with other students who live in the same residence hall. There are planned activities designed to enhances academics as well as to provide a positive social atmosphere outside of the classroom.

For further information call (936) 294-3422, e-mail fye@shsu.edu, or visit First Year Experience. (http://www.shsu.edu/dept/fye/#wwwshsuedu/f)

HONORS COLLEGE

Dean: Kimberly Bell, Ph.D.
Associate Dean: Maria Holmes, Ed.D
Associate Dean: Patrick Lewis, Ph.D.
Assistant Dean: Tracy Bilsing, Ph.D.

Information:

Academic Building IV, corner of Avenue I and Bowers Boulevard
Box 2479
1921 Avenue J

Huntsville, TX 77341-2479
Telephone: (936) 294-1477
Fax: (936) 294-1090

Website: http://honors.shsu.edu

Email: Honors College (honors@shsu.edu)

The Elliott T. Bowers Honors College exists for the benefit of highly motivated and academically talented undergraduate students at Sam Houston State University. The Honors College provides these achievement-oriented individuals with the following benefits and opportunities:

- financial support
- interaction with other highly motivated students
- special course offerings
- limited-enrollment classes
- close contact with highly productive faculty
- early registration
- supervised undergraduate research
- community service and civic engagement
- access to honors-only facilities (including honors residence halls on campus, honors lounge, honors library study room, and honors computer lab)

Honors students also enjoy a variety of cultural and social outings and events—on campus and off—throughout the academic year.

The honors student earns honors credit in a variety of specially designated classes or contracted courses and works toward the distinction of graduating “With Honors” or “With Highest Honors.” To qualify for graduation “With Honors,” a student must be a member in good standing in the Honors College and have completed 24 hours of honors credit, including participation in two interdisciplinary honors seminars. To qualify for graduation “With Highest Honors” a student must, in addition, complete a six-hour senior thesis in an approved discipline under the direction of a faculty member of his/her choice.

To be considered for admission to the Honors College, either when first entering SHSU or as a continuing SHSU student, a student submits a special application to the Honors College Office.

Incoming freshmen are eligible for consideration if they have achieved one of the following:

- a composite SAT I score (Critical Reading + Math) of 1270 or above
- a composite ACT score of 27 or above
- graduated in the top 10 percent of their high school class

Transfer and continuing SHSU students are eligible if they have achieved a college cumulative GPA of 3.4 or better.

Admission is competitive. Selections are determined by a comprehensive review of each completed application by the honors faculty admissions committees. Once accepted into the Honors College, a student must maintain a 3.25 grade point average and make steady progress toward completing honors requirements in order to remain in good standing in the Honors College.

Honors Seminars are designed to provide unique, broadly integrative, interdisciplinary educational experiences to all Elliott T. Bowers honors students. These courses are highly interactive between professors and students and generally involve student presentations. These and other educational initiatives provide honors students with a rich and challenging interdisciplinary learning environment.

MCNAIR SCHOLARS PROGRAM

The Ronald E. McNair Postbaccalaureate Achievement Program is designed to provide talented low-income/ first generation and ethnic minority undergraduate students with effective preparation for doctoral study. The McNair Program at Sam Houston State University encourages graduate studies by providing opportunities for undergraduates to define their goals, engage in research, and develop the skills and faculty mentor relationships that are critical to success at the doctoral level.

Dr. Lydia Fox - Director
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(936) 294-3264

Tama Hamrick - Coordinator
thamrick@shsu.edu
(936) 294-3279

Kyleen Elwick - Graduate Mentor
kee019@shsu.edu

McNair Scholars Program
1908 Bobby K Marks Drive
Eleanor and Charles Garrett Teacher Education Center Rm. 329
Huntsville, TX 77340-2359
Phone: (936) 294-3279
Fax: (936) 294-4126

Website: McNair Scholars Program (http://www.shsu.edu/mcnair)

DEPARTMENT OF MILITARY SCIENCE

Chair: Lieutenant Colonel (rlm058@shsu.edu)Mark A. Davis

The Department of Military Science at Sam Houston State University is administratively aligned with the Associate Provost and Vice President for Academic Affairs.

Course of Instruction

Army Reserve Officer's Training Corps (ROTC) classes are offered on an elective basis. Students may take the lower-division courses and summer Army training such as Airborne School without obligation for military service. Students who desire to pursue upper-division courses may complete the ROTC program and compete for an officer commission on Active Duty, in the U. S. Army Reserve, or Army National Guard. A minor in military science is offered.

Army ROTC Scholarships

The United States Army offers two, three, and four-year competitive scholarships annually. The four year scholarship is awarded by a National Board and can be accessed at http://www.goarmy.com/rotc/scholarships.html. Two and three year scholarships are vetted and awarded by the Department of Military Science based on annual availability and the strength of the applicant. Competitive candidates will have a minimum 2.5 GPA, strong physical fitness attributes, and demonstrated leadership capability. These scholarships pay full tuition and fees and provide $1,200.00 for books and supplies. Scholarship and non-scholarship contract students receive a subsistence allowance of $300.00, $350, $450, and $500 per month for freshman, sophomore, juniors, and seniors respectively for up to ten months per year. Several other private scholarships are awarded annually to students enrolled in Military Science courses. All students are encouraged to contact the Department of Military Science for an application or to learn more.

Tuition Rates

In-state rates for fees and tuition are given to out-of-state students that have agreed to accept a commission in the U.S. Army, Army Reserve, or Army National Guard.

Academic Substitution

Limited course substitution is available with permission of both the PMS and the department chair concerned.

Academic Minor

Students may seek a minor in Military Science with the approval of the dean of the college in which the student pursues his/her major. Requirements are eighteen hours of advanced Military Science, six hours from the Professional Military Education (PME) component courses, 3 hours approved Military History course, and 3 hours of English Composition II.

- No-Obligation Program
- Army Commissioning Program

Army Commissioning Program

1. **Army Commissioning Program *(Advanced Course)*.** This program is divided into two-year and four-year commissioning plans.
    a. ***Two-Year Compression Commissioning Plan.***
        i **Upperclassmen and Graduate Students.** Students who have already completed a portion of their degree plan can pursue a commission as an officer in the U.S. Army, Army Reserve, or Army National Guard. This program is offered to students who have no prior military or military-equivalent training and have approximately two years remaining to complete their undergraduate or graduate degree plan. To qualify, students first attend a four-week summer Basic Camp at Fort Knox, Kentucky. The Basic Camp provides new Cadets with foundational leadership skills, training in individual and collective tasks, and critical thinking and problem solving skills. Upon completion of training, the new Cadet understands the officer's role in leading change and the fundamentals of the Army as a profession. The government pays all travel expenses, furnishes room, board, and clothing, and pays students a per diem of approximately $900.00. Moreover, students are eligible to compete for two-year scholarships and the university awards four credit hours for this training. After successfully completing the Basic Camp students may enroll in upper-division Military Science courses and receive a monthly allowance of $450 for juniors and $500 for seniors. Students must maintain a 2.5 GPA, pass the Army Physical Fitness Test, meet height and weight standards, and maintain high moral and ethical standards to remain enrolled and earn their commission as an officer.
        ii **Veterans.** Student Veterans and National Guard or Army Reserve members who have completed some military training and service may start the ROTC program at the upper-division level, when academically prepared (typically 60 or more credit hours and capable of completing remaining academic work in two academic years). Their applications to start the program will be approved by the Military Science Department Chair. National Guard and Army Reserve members may remain in the Guard or Reserve under the Simultaneous Membership Program (SMP). This course of action is strongly encouraged. Contracted juniors receive a monthly allowance of $450 and seniors receive $500. These stipends are in addition to any pay and entitlements provided by the Guard or Reserve.

iii **Professional Military Education (PME) Component.** The United States Army mandates that Army ROTC students pursuing a commission as an Army officer complete certain Professional Military Education (PME) requirements in order to be commissioned. The PME consists of a baccalaureate degree and the completion of at least one undergraduate course from each of the following designated fields of study: written communications and military history. Students desiring to pursue a minor in Military Science, and/or a course of instruction which will satisfy the requirements for a commission in the U.S. Army, are required to seek dual advising and approval from the university and the Military Science Department Chair in order to ensure that these special requirements are satisfied.

iv **Cadet Professional Development Training (CPDT).** During the compression commissioning plan, Military Science Level 3 students have the opportunity to conduct additional training beyond their attendance at Advance Camp. They can choose to attend Cadet Troop Leader Training (CTLT), apply for Cultural Understanding and Learning Programs (CULP), or apply for internships. Additional opportunities include serving as a leader during a Basic Camp rotation or attending Army schools such as Airborne, Air Assault, Northern Warfare, or Scuba school. All of these opportunities require students to compete against their peers for a position and provide important skills and competencies required to earn their desired component and branch.

b. ***Four-Year Progression Commissioning Plan.***

i **Lower-Division Courses (Basic Course).** Under the four-year commissioning plan, lower-division military science courses (MLSC 1101, 1201, 1202, 2101, 2201, 2202) are required prior to taking upper-division military science courses. These course must also be completed to commission as a military officer. Nevertheless, these courses remain open to all students without obligation for future military service. These basic courses provide instruction in leadership, communication skills, critical thinking, time management, and provide an introduction to the U.S. Army profession. The basic course highlights the career options, values/ethics, training, and benefits provided by the U.S. Army. Scholarship or contracted students will receive a monthly allowance of $300 as freshman and $350 as sophomores. Students must maintain a 2.5 GPA, pass the Army Physical Fitness Test, maintain height and weight standards, and maintain high moral and ethical standards to remain enrolled and earn their commission as an officer.

ii **Upper-Division Courses (Advance Course).** The Upper-Division (3000 and 4000 level) courses offered by the department are normally taken during the junior and senior years or while pursuing graduate work. These courses prepare students for their future as commissioned officers in the United States Army. Enrollment in upper-division courses requires the student to commit (contract) to commissioning after graduation and serving in the U.S. Army Reserve, the Army National Guard, or the Active Army. Students enrolled in upper-division courses receive a monthly subsistence allowance of $450 as a junior and $500 as a senior. Students are required to attend the Advanced Course at Fort Knox, Kentucky during the summer between their junior and senior years. At the Advance course, students in the upper division participate in physically and mentally challenging instruction and training. During this training period, the student demonstrates their proficiency through leadership scenarios and through the completion of hands-on tasks. The government pays all travel expenses, furnishes room, board, and clothing, and pays students a per diem of approximately $900.00. The university awards students four credit hours for the training. Lower-division military science courses are required prior to enrolling in upper-division courses if pursuing the four-year commissioning plan.

iii **Professional Military Education (PME) Component.** The United States Army mandates that Army ROTC students pursuing a commission as an Army officer complete certain Professional Military Education (PME) requirements in order to be commissioned. The PME consists of a baccalaureate degree and the completion of at least one undergraduate course from each of the following designated fields of study: written communications and , military history. Students desiring to pursue a minor in Military Science, and/or a course of instruction which will satisfy the requirements for a commission in the U.S. Army, are required to seek dual advising and approval from the university and the Military Science Department Chair in order to ensure that these special requirements are satisfied.

iv **Cadet Professional Development Training (CPDT).** During the four year commissioning plan, Military Science Level students have increased time and opportunites to conduct additional training beyond their attendance at Advance Camp. They can choose to attend Cadet Troop Leader Training (CTLT), apply for Cultural Understanding and Learning Programs (CULP) or apply for internships. Additional opportunities include serving as a leader during a Basic Camp rotation, acting as Opposing Forces (OPFOR) for an Advanced Camp rotation, or attending Army schools such as Airborne, Air Assault, Northern Warfare, or Scuba school. All of these opportunities require students to compete against their peers for a position and provide important skills and competencies required to earn their desired component and branch.

No-Obligation Program

1. **No-Obligation Program (Basic Course).** The lower-division (1000 and 2000 level) courses offered by the department are open to all students without obligation for present or future military service. These courses provide instruction in basic leadership and endurance skills that are applicable to any future profession. These courses are generally taken during the freshman and sophomore years. Students attending the no-obligation course may also participate (at no obligation) in summer Cadet Professional Development Training (CPDT) to include Basic Camp, Airborne, Air Assault, Northern Warfare, Mountain Warfare training, and the Advanced Camp Support Mission. Preference for CPDT goes to contracted Cadets, but non-contracted students will be considered on a case-by-case basis.
   a. **BASIC CAMP.** Basic Camp is a four week developmental training camp conducted at Fort Knox, Kentucky. The camp provides hands-on leadership skills through immersive training scenarios. Specific skills developed include: radio training, weapons proficiency, tactical leadership, and basic Army standards and etiquette. The camp produces a Cadet grounded in foundational leadership doctrine and skills. Upon completion of training, the Cadet demonstrates proficiency in individual and collective tasks at the team and squad level and applies them in a physically demanding, complex, tactical environment. Cadets also comprehend critical thinking and problem solving skills using Troop Leading Procedures. Finally, Cadets learn the value of diversity and understand the officer's role in leading change. This camp teaches

the fundamentals of the Army as a profession. The Cadet receives approximately $900 per diem during training and all travel costs are covered by the government.

b. **AIRBORNE TRAINING.** This physically demanding school is scheduled during the summer over a three-week period at Fort Benning, Georgia. Students who successfully complete this school are qualified as Army parachutists and are awarded Army Paratrooper Wings. This training is offered to any student enrolled in Military Science, although available seats are limited.
c. **AIR ASSAULT TRAINING.** This physically demanding school scheduled during the summer consists of ten days of training which includes a twelve mile road march, an obstacle course, classes in aircraft safety and familiarization, rappelling, rigging, and sling-loading. Air Assault school is offered at various Army posts throughout the United States. This training is offered to any student enrolled in Military Science, although available seats are limited.
d. **NORTHERN WARFARE SCHOOL.** This is a two-week course conducted at Fort Greeley, Alaska. It consists of physically and mentally demanding training emphasizing movement in mountainous terrain, on glaciers and in in-land waterways. This training is offered to any student enrolled in Military Science, although available seats are limited.
e. **MOUNTAIN WARFARE SCHOOL.** This is a two-week course conducted at Jericho, Vermont. This training is both physically and mentally challenging with emphasis placed on movement in mountainous terrain. This training is offered to any student enrolled in Military Science, although available seats are limited.
f. **ADVANCED CAMP SUPPORT MISSION.** Cadets in the Basic Course track have the opportunity to support Advance Camp by serving as Opposing Forces (OPFOR) in the summer of their first or second year. They learn about the Advance Camp structure and gain a tactical training advantage over their peers during the course of this month long support to the Advance Camp mission. Cadets earn approximately $900 per diem for this summer training mission.

COURSE DESCRIPTIONS

Accounting (ACCT)

ACCT 2301. Principles Of Financial Acc. 3 Hours.
A study of the basic accounting concepts and procedures underlying the organization and reporting of financial information. Topics include the accounting cycle; the preparation of financial statements; the measurement and reporting of business income; and the valuation and presentation of assets; current liabilities; and stockholders' equity. Emphasis is placed on the relevance of the business and economic information generated by the accounting process and how it is used in personal and business decision making. Students who plan to take ACCT 3313 must earn a minimum grade of C in ACCT 2301.
Prerequisite: 18 semester hours of college credit.

ACCT 2302. Principles Of Managerial Acc. 3 Hours.
A continuation of financial accounting topics followed by an introduction to managerial accounting. Topics include investments, long-term liabilities, statement of cash flows, job costing, cost behavior, cost-volume-profit analysis, budgeting, and performance evaluation. Emphasis is placed on the usage of accounting information in managerial decision making. Students who plan to take ACCT 3313 must earn a minimum grade of C in ACCT 2302.
Prerequisite: ACCT 2301.

ACCT 3304. Managerial Accounting. 3 Hours.
Further development of financial accounting concepts, interpretation, and the study of management uses of accounting data. This course includes a study of basic accounting concepts, interpretation of accounting reports, cost control and analysis, and methods of measuring performance. Non-Majors and Non-Minors only.
Prerequisite: ACCT 2302.

ACCT 3313. Intermediate Accounting I. 3 Hours.
A thorough study of the accounting principles underlying the preparation of financial statements. This course is concerned primarily with the recording process, formats of the financial statements, and the measurement and reporting of current and non-current assets and related revenues and expenses. The course emphasizes the environment of accounting and basic accounting theory.
Prerequisite: ACCT 2301 and ACCT 2302 with a minimum grade of C in each.

ACCT 3314. Intermediate Accounting II. 3 Hours.
A continuation of ACCT 3313, this course extends the study of the preparation of financial statements to the measurement and reporting of current and long term liabilities, stockholders' equity and investments. Additional topics include time value of money concepts, cash flow statements, accounting for leases and income taxes.
Prerequisite: ACCT 3313 with a minimum grade of C.

ACCT 3324. Prn Accounting Systems Design. 3 Hours.
A study of principles of accounting systems design integrated into both manual and computerized systems. Also includes emphasis on the accounting cycle, internal control structures, computerized transaction processing systems, relational databases, and integrated enterprise resource planning systems in accounting.
Prerequisite: ACCT 2301 and ACCT 2302.

ACCT 3340. International Accounting. 3 Hours.
An introduction to the accounting aspects of international business. Topics covered from an international perspective include the interaction between accounting and its environment, differing national accounting practices, international harmonization of accounting and reporting, foreign currency translation and exchange rate issues, problems of inflation, transfer pricing and taxation, managerial accounting and analysis of foreign financial statements.
Prerequisite: ACCT 2302.

ACCT 3347. Cost Accounting. 3 Hours.
A study of cost accounting principles and techniques of assembling data for product costing and for managerial use in planning and control and decision making. Cost terminology, cost behavior, job order and process costing, budgeting, cost-volume-profit analysis, standard costs, and activity based costing are topics covered.
Prerequisite: ACCT 2301 and ACCT 2302 with a minimum grade of C in each.

ACCT 3353. Income Tax Accounting. 3 Hours.
A study of basic tax concepts and income taxation of individuals. Emphasis is placed on the determination of income and statutory deductions in order to arrive at the net taxable income. Consideration is given to tax planning as well as decision-making and tax return problems.
Prerequisite: ACCT 2301 and ACCT 2302 with a minimum grade of C in each.

ACCT 4080. Independent Study. 1-3 Hours.
Individual study as arranged with members of the faculty. This course may be repeated and may be taken for Academic Distinction Program Credit. Variable Credit (1-3).
Prerequisite: Consent of Department Chair.

ACCT 4085. Special Topic. 1-3 Hours.
This course of faculty-led study is designed to provide undergraduate students exposure to new Accounting topics and concepts in a course setting. Variable credit (1-3).

ACCT 4315. Advanced Accounting I. 3 Hours.
A study of various special reporting topics in financial accounting, this course surveys financial statement presentation and disclosure requirements for special areas of income recognition and accounting changes, dilutive securities, earnings per share calculations, reporting for business segments and interim periods, and accounting and reporting standards for partnerships. The course also covers multinational enterprises, including foreign currency transactions and financial instruments and translation of foreign entity statements.
Prerequisite: ACCT 3314 with a minimum grade of C.

ACCT 4316. Advanced Accounting II. 3 Hours.
A study of the financial accounting standards and procedures used in accounting and reporting for business combinations and intercorporate investments and consolidated financial statements, .
Prerequisite: ACCT 3314 with a minimum grade of C.

ACCT 4360. Oil And Gas Accounting. 3 Hours.
An introduction to oil and gas accounting. Emphasizes accounting for costs incurred in the acquisition, exploration, development, and production of oil and natural gas using successful efforts, full cost, and tax accounting methods. Also introduces students to joint interest accounting, gas pipeline accounting, the required disclosures for oil and gas activities, and analysis of oil and gas companies' financial statements.
Prerequisite: ACCT 3313 with a grade of C or better.

ACCT 4363. Fraud Examination. 3 Hours.
An examination of fraud within organizations with an emphasis on its detection and prevention. This course examines the nature and causes of financial and occupational fraud, ways to prevent and deter fraudulent conduct, and procedures for uncovering and investigating fraud.
Prerequisite: ACCT 3313 with a grade of D or higher or ACCT 5300 with a grade of C or higher.

ACCT 4372. Auditing Principles. 3 Hours.
An introduction to auditing concepts and procedures. Emphasizes generally accepted auditing standards; professional responsibilities; the nature, acquisition, evaluation, and documentation of audit evidence; internal control; and the auditor?s reports.
Prerequisite: ACCT 3324 and ACCT 3314 with a minimum grade of C in each.

ACCT 4389. Internship In Accounting. 3 Hours.
This course provides students with an internship experience allowing the application of accounting and auditing skills in an actual work setting. Students generally will work full-time in public or industry accounting paid positions for a minimum of 150 hours. Students generally will workfull-time for one-half of the semester and attend accelerated accounting courses during the remaining half. For Spring semester internships, should be taken concurrently with ACCT 4316 and ACCT 4372.
Prerequisite: Junior standing, ACCT 3314, ACCT 3324, permission of the Department Chair of Accounting, and selection by an employing firm.

Agribusiness (AGBU)

AGBU 2317. Principles Of Agri Economics. 3 Hours.
This course introduces concepts such as economics, supply and demand analysis, cost of production and market price risk; all related to practical application to agriculture.
Prerequisite: College-level ready in Mathematics, Reading and Writing and completed 15 credit hours.

AGBU 2385. Analysis of the Agr Sector. 3 Hours.
This course provides an overview of the various sectors and institutions servicing agriculture. Focus is on the marketing efforts and added value that each sector provides to farm products. The course emphasizes the structure of each area, and the trends that shape their activities. An introduction to marketing activities with emphasis on agricultural commodities is also provided.
Prerequisite: College-level ready in Mathematics, Reading and Writing and completed 15 credit hours.

AGBU 2389. Agribusiness Financl Analysis. 3 Hours.
Introduction to financial management for agricultural enterprises. Topics include: depreciation, balance sheet, income and expense, production records, income tax principles, enterprise budgeting, partial budgeting, cash flow budgeting, and analysis and interpretation of farm records.
Prerequisite: College-level ready in Mathematics, Reading and Writing, and completed 15 credit hours.

AGBU 2396. Spec Top in Ag Business. 3 Hours.
This course will examine special topics/issues in Agricultural Business at an introductory level. This course may be repeated up to three times as topics and subject matter change.

AGBU 3350. Agribusiness For Ag Sci Teachr. 3 Hours.
This course is designed to present agribusiness concepts that are included in the curriculum of post-secondary schools of Texas. Subjects include budgeting, finance, insurance, organization and management, marketing and government policies.
Prerequisite: CISE Minors only, Sophomore standing, and AGBU 2317.

AGBU 3361. Agribusiness Org & Mgt. 3 Hours.
Management principles relevant to agribusiness firms, marketing management, e-commerce and value-added agriculture, managerial concepts, human resource management, and business organizations.
Prerequisite: AGBU 2317, AGBU 2389 and completed 45 credit hours.

AGBU 3367. Agricultural Finance. 3 Hours.
Advanced agribusiness management applications of borrowed capital to operations; methods of determining loan needs for farmers; budgeting incomes to facilitate repayment of loans; cost of using borrowed capital; management of financial resources in agribusiness; and time value of money applications.
Prerequisite: AGBU 2389 with a grade of C or higher, and completed 45 credit hours.

AGBU 3385. Quant Mthds for Agribusiness. 3 Hours.
This course presents analysis tools from the fields of economics, statistics, and management as they relate to agricultural business decision making. The analytical and quantitative principles are applied to a variety of agricultural business situations. Topics include forecasting, decision analysis, and linear programming. Computer-based methods are emphasized.
Prerequisite: STAT 1369 or MATH 1369 and MATH 1324 and completed 45 credit hours.

AGBU 4319. Agribusiness Ventures. 3 Hours.
In this course, students investigate the initiation of new food and agricultural enterprises through identification of innovative opportunities. Effective entrepreneurial behaviors, environment analysis, and risk management for start-ups will be emphasized.
Prerequisite: AGBU 3361.

AGBU 4340. Agribusiness Marketing. 3 Hours.
A study of the major marketing strategies and decisions that must be made by agribusiness firms, including target market selection, marketing research, sales forecasting, product policies, distribution channels, pricing, advertising, and market control. The development of a strategic marketing plan for an agribusiness firm will be required.
Prerequisite: AGBU 2317 and AGBU 2385, and completed 45 hours.

AGBU 4362. Natural Resource Economics. 3 Hours.
A contemporary study of issues in land, natural resource and environmental economics. Topics include energy, forests, population, fisheries, world food production, and minerals and pollution. This course discusses market efficiency relative to allocations of natural resources and pollution.
Prerequisite: AGBU 2317 and Junior standing.

AGBU 4363. Agricultural Sales & Consulting. 3 Hours.
This course presents the principles of professional sales techniques used by food and agricultural firms. Necessary skills required in the agribusiness industry such as interpersonal skills, sales techniques, and sales forecasting skills are developed and enhanced.
Prerequisite: AGBU 2317, AGBU 2385 and completed 45 credit hours.

AGBU 4365. Legal Issues in Agribusiness. 3 Hours.
This course will examine legal concepts and practical legal problems facing rural residents, farmers, agribusiness and local government. Taught from a "preventive" perspective, students will acquire legal awareness necessary to become an effective and analytical agribusiness decision maker. Legal issues will include statutes, common law (cases), customs, and business and administrative regulations.
Prerequisite: AGBU 2317 and completed 45 credit hours.

AGBU 4369. Special Topic. 3 Hours.
Individual study in specialized areas of Agricultural Business. To be directed and approved by the Agricultural Business advisor. This course is designed to be a multi-topic course. The student can take the course under various special topics being offered.
Prerequisite: Junior standing.

AGBU 4374. Agr Mkt Analysis & Prices. 3 Hours.
Principles of agricultural market analysis to include: price analysis, price forecasting, forward contracting, futures market, market structure analysis, marketing and sales management.
Prerequisite: AGBU 2317 and MATH 1369 or STAT 1369, and completed 45 credit hours.

AGBU 4375. Advanced Agribusiness Mgt. 3 Hours.
This course serves as a capstone course for agribusiness majors. Contemporary issues related to agribusiness are approached using information systems, industry representatives, field trips, and class presentations.
Prerequisite: AGBU 3367 and AGBU 4361 or AGBU 3361, and completed 90 credit hours.

AGBU 4377. Economics Of Land Use & Plannng. 3 Hours.
This course applies economic principles and legal policy relative to the allocation and conservation of natural resources and the environment. Topics such as land use, energy policy, forestry, fisheries, water rights, animal rights, world food production, and pollution are discussed in an economic and legal framework.
Prerequisite: Junior standing.

AGBU 4378. Farm & Ranch Management. 3 Hours.
Focus on planning for the most efficient resource allocation in agricultural operations. This course uses previously taught financial management practices and applies that to an agricultural industry case study.
Prerequisite: AGBU 3367 AND AGBU 3385.

AGBU 4386. Agriculture & Food Policy. 3 Hours.
This course examines and analyzes the effects of government participation on farmers, ranchers, agribusiness firms and consumers. Topics include the policy making process and the analysis of commodities, conservation, food safety, international trade, rural development programs, and the interrelationship of agriculture and agribusiness.
Prerequisite: AGBU 2317 and completed 75 credit hours .

Agricultural Communications (ACOM)

ACOM 2396. Special Topics in Agriculture Communications. 3 Hours.
This course will examine special topics/issues in Agricultural Communications at an introductory level. This course may be repeated up to three times as topics and subject matter changes. Credit 3.

ACOM 3360. Communication Skills for Agriculturists. 3 Hours.
Provides an overview of information systems, principles and procedures used in communicating agricultural news and information in various agricultural professions. Emphasis is placed on effective written and oral communication means in professional and media environments in addition to public relations efforts in the fields of agricultural education and agribusiness. Sophomore standing. Only IAGR, IAGA, IAGB, IAGE, IAGH, and ACOM majors.
Prerequisite: ENGL 1302.

ACOM 4369. Special Topic. 3 Hours.

Agricultural Engineering Techn (AGET)

AGET 2301. Fund Ag Power Units & Ctrl Sys. 3 Hours.
Selection, maintenance and service of agricultural power units including small engines overhaul and preventive maintenance on agricultural tractors.

AGET 2303. Intro to Ag Engineering Tech. 3 Hours.
Introduction to current and emerging topics and industry related to agricultural engineering technology. Topics covered include: bio-diesel, wind energy, GPS/GIS applications, nanotechnology, theory of fusion of metals, efficiency of internal combustion engines, and other technology-related subjects.
Prerequisite: None.

AGET 2396. Spec Top in Ag Engineer Tech. 3 Hours.
This course will examine special topics/issues in Agricultural Engineering Technology at an introductory level. This course may be repeated up to three times as topics and subject matter changes.

AGET 3300. Agricultural Electrification. 3 Hours.
Principles and theory of electricity and applications in agriculture. Topics covered will include the transmission and distribution of electricity, Ohm?s Law, DC/AC current, safety, NEC, converting bio-mass to electrical power, peak demand, dispatchable power, wind energy, photo-voltaic cells, and net-metering. Sophomore standing.
Prerequisite: AGET 2303 or ETDD 1361.

AGET 3380. Agricultural Machinery. 3 Hours.
Design, construction, adjustment, operation and testing of agricultural machinery and equipment systems. Topics include theoretical and effective capacities, costs of operation, valuation of used equipment and queuing theory. Sophomore standing. Completed 55 hours.
Prerequisite: AGET 2303 or ETDD 1361.

AGET 3383. Soil & Water Conservation Engr. 3 Hours.
This course includes principles of soil and water conservation, erosion control, storm water management, structures for floodwater routing, culvert design, design of waterways, and retention basins. Plane surveying, topographic mapping, geographical information and global positioning systems will be utilized. Sophomore standing.
Prerequisite: AGET 2303 or ETDD 1361.

AGET 3386. Agricultural Structures and Environmental Control Systems. 3 Hours.
Functional requirements of agricultural buildings; valuation, appraisal and estimating; structural requirements of agricultural buildings; planning and designing major service and processing buildings. Topics discussed will include thermodynamics, confined livestock housing, and environmental controls. Junior standing.
Prerequisite: AGRI 2303 or ETDD 1361.

AGET 4369. Special Topic. 3 Hours.

AGET 4381. Adv Agricultural Mechanics. 3 Hours.
This course serves as a capstone course for agricultural science students with previous experience in the area of agricultural engineering technology. Teams will address and solve a complex problem and as a result may design and construct a building, trailer, or other equipment in the laboratory.
Prerequisite: AGET 2303 or ETDD 1361 and Junior standing.

AGET 4384. Fusing & Joining of Metals & Non-Metals. 3 Hours.
A comprehensive study of the theories, principles, and procedures of bonding and fusing metallic and non-metallic materials by the electric arc, oxy-fuel, and adhesive processes. Technical classroom instruction, laboratory exercises, and field trip experiences will involve selection and utilization of new and emerging technologies and equipment, workplace planning, supervision, and management. Junior standing.
Prerequisite: AGET 2303 or ETDD 1361.

AGET 4385. Applied Electronics/Hydraulics. 3 Hours.
Cutting edge applications and integration of electronic and hydraulic principles and applications in agricultural and industrial processes and distribution systems. Topics include Ohmis Law, Pascalis Law, and principles and theory of fluid dynamics. Junior standing.
Prerequisite: AGET 2303 or ETDD 1361.

AGET 4387. Agricultural Engines & Tractor. 3 Hours.
Principles of the internal combustion engine, fuel injection, carburetion, and computerized engine monitoring equipment. Selection, valuation, wear analysis, and maintenance of power units for agricultural and industrial applications including those powered by alternative fuels will be covered. Junior standing.
Prerequisite: AGET 2303 or ETDD 1361.

AGET 4390. Turf & Cropland Irr & Drainage. 3 Hours.
Design and selection of surface or sub-surface irrigation and drainage systems for golf courses, greenhouses, sports fields, crops, landscape applications, and construction sites. Principles of pressurized irrigation systems including crop water requirements, soil moisture, irrigation scheduling, sprinkler irrigation, trickle irrigation, pumps, pipelines, and irrigation wells will be covered.
Prerequisite: AGET 2303 or ETDD 1361 and Junior standing.

AGET 4392. GPS Applications in Agriculture and Construction. 3 Hours.
Global positioning and geographic information system software and equipment will be applied in settings involving precision farming and construction.
Prerequisite: AGET 2303 or ETDD 1361 and Junior Standing.

AGET 4393. Renewable Energy Srces Fr Agr. 3 Hours.
This course will familiarize students will existing and potential alternative energy sources and production capacities including wind, solar, bio-mass conversion, hydrogen, ethanol, vegetable oil, and bio-diesel. Impacts on the environment, ecological systems, world food supply, and economy will be studied.
Prerequisite: AGET 2303 or ETDD 1361.

AGET 4396. Directed Stud in Ag Eng Tech. 3 Hours.
Arranged professional development learning experiences incorporating a practical application of Agricultural Engineering Technology skills and practices. To include internships, individual research and industry studies. May be repeated for credit up to six hours.
Prerequisite: Sophomore standing.

Agriculture Education (AGED)

AGED 2396. Spec Top in Ag Education. 3 Hours.
This course will examine special topics/ issues in Agricultural Education at an introductory level. This course may be repeated up to three times as a topics and subject matter changes. Credits 3.

AGED 3310. Teaching Ag Technology. 3 Hours.
Methods in delivering instruction in agricultural technology. Principles in managing high school agricultural mechanics laboratories in a safe and efficient manner. Intended for SED minors. Junior standing. Approval by Instructor.
Prerequisite: AGRI 2302 or ITEC 1390 or ITEC 1361.

AGED 3320. Interdiscip Agr Sci & Technol. 3 Hours.
This course is designed to develop competencies of agricultural science teachers to teach essential elements in agricultural business, agricultural mechanization, animal science, and horticulture and crop science. CISE minors only.
Prerequisite: Completed 55 Hours.

AGED 4096. Independent Studies. 1-3 Hours.
Arranged professional and developmental learning experiences incorporating a practical application of agricultural education skills and practices. To include internships, individual research and industry studies. May be repeated for credit up to six hours.
Prerequisite: Sophomore standing.

AGED 4364. Methds Tchg Agricultural Sci. 3 Hours.
A study of the professional competencies required for the teaching of agricultural science. Included is the development of curriculum and occupational education programs as well as evaluation of teaching techniques, procedures, and resource materials. Methods of teaching the handicapped will be discussed. Must be currently enrolled in AGED 4380, AGED 4365, and AGED 4366. Senior standing. Admission to the Student Teaching Program.
Prerequisite: Grade of C or better in AGRI 3320 and CISE 4364.

AGED 4365. Std Tchng Agricultural Science. 3 Hours.
Senior standing. Must be currently enrolled in AGED 4364, AGED 4380, and AGED 4366.
Prerequisite: Grade of C or better in AGRI 3320 and CISE 4364.

AGED 4366. Std Tchng Agricultural Science. 3 Hours.
Directed observation and student teaching in an approved high school agricultural science classroom are required. Participation is essential in related agricultural science and FFA activities such as fairs, shows, contests, FFA alumni and young farmer programs, etc. Must be currently enrolled in AGED 4380, AGED 4365, and AGED 4366. Senior standing. Admission to the Student Teaching Program.
Prerequisite: Grade of C or better in AGRI 3320 and CISE 4364.

AGED 4369. Special Topics In Agri Edu. 3 Hours.
This course will examine special topics/issues and(or) subject matter in the field of agricultural education. Different subject matter can be addressed each semester. This course may be repeated as topics and subject matter change.
Prerequisite: Junior standing.

AGED 4380. Respnsblty Of Pro Agr Sci Edu. 3 Hours.
This course is designed to assist future agricultural science and technology teachers in understanding the structure, organization, and management of public schools at the national, state, and local levels. Course content will include a study of the needs of the special learner, school finance and funding for career and technical education programs, agricultural science curriculum and graduation requirements, and cultural issues. The course will also focus on professionalism, program planning, personnel employment and evaluation, and legal issues critical to the success of agricultural science and technology teachers. Must be currently enrolled in AGED 4364, AGED 4365, and AGED 4366. Admission to the Student Teaching Program.
Prerequisite: Grade of C or better in AGRI 3320 and CISE 4364.

AGED 4388. Agr Sci & Tech Program Mgt. 3 Hours.
This course focuses on developing and managing the youth leadership aspect of agricultural science and technology programs in public schools. Students will learn about leadership and career development events, the agricultural education record book documentation system, program of activity development, financial management, student and chapter awards programs, and scholarships for agricultural education students.
Prerequisite: Completed 55 hours.

AGED 4394. Ag. Ed. Learning Environments. 3 Hours.
In this course, students examine classroom management and discipline approaches appropriate in secondary agricultural education (AGED) classrooms and laboratories. Proactive and preventative measures will be discussed to ensure student safety and a successful learning environment.
Prerequisite: Admission to student teaching.

American Sign Language (SGNL)

SGNL 1401. Elementry American Sign Lang I. 4 Hours.
For students who have had no previous instruction in American Sign Language. The work includes vocabulary acquisition, cultural components, drills, sentence formation, and everyday conversation leading to proficiency. Language laboratory periods weekly are required.

SGNL 1402. Elementry American Sign Lng II. 4 Hours.
A continuation of SGNL 1401 with more speaking and writing toward advancing proficiency. Language laboratory periods weekly are required.
Prerequisite: Grade of C or better in SGNL 1401 or equivalent.

SGNL 2311. Intermediate American Sign Language I. 3 Hours.
A continuation of SGNL 1402 with emphasis on more advanced skills.
Prerequisite: SGNL 1401 and SGNL 1402 with a grade of C or better.

SGNL 2312. Intermediate American Sign Language II. 3 Hours.
A continuation of SGNL 2311 with emphasis on fluent usage of American Sign Language. Intensive study with the purpose of mastering mid-level proficiency skills.
Prerequisite: SGNL 1401, SGNL 1402, and SGNL 2311 with a grade of C or better.

American Studies (AMST)

AMST 3311. Intro to American Studies. 3 Hours.
This course is an introduction to American Studies, an interdisciplinary approach to understanding America and its cultures. By examining America's cultural productions through class discussions and reading and research, students will hone their analytical abilities, develop their understanding of history and culture, and acquire the skills to become critical, informed, and engaged global citizens.

Animal Science (ANSC)

ANSC 1119. Animal Science Laboratory. 1 Hour.
Laboratory for ANSC 1319.
Prerequisite: Concurrent enrollment in ANSC 1319.

ANSC 1319. Animal Science. 3 Hours.
This is a basic course of study to acquaint students with the scope of animal science: origin, history and development of economically important species and breeds of livestock; concepts of selection, breeding, nutrition, management and research as applied to livestock production. Laboratory experiences (ANSC 1119) involve the practical skills needed to manage animal enterprises.
Prerequisite: Concurrent enrollment in ANSC 1119.

ANSC 2321. Livestock Evaluatn & Selection. 3 Hours.
This course is designed to present the basic principles and concepts in selection and evaluation of beef cattle, sheep, swine, and horses. The ability to present accurate and concise oral reasons for selecting and placing livestock is reviewed.

ANSC 2330. Companion Animal Science. 3 Hours.
This course is an overview of the companion animal industry, including species and breeds, feeding and nutrition, reproduction, anatomy and physiology, care, management, training, health, behavior, and current research topics related to companion animals.

ANSC 2360. Animals And Society. 3 Hours.
This course will acquaint the student with the broad role of animals in society from national, global and historic perspectives. The impact of animals and domestic livestock on economic, social and political policy will be discussed. Emphasis will be placed on agricultural and non-agricultural uses, societal and cultural perspectives, consumer influences, animal ethics, animal research, appropriate animal care, livestock quality assurance programs, animal welfare, animal rights and the animal-human bond.

ANSC 2396. Spec Topics in Animal Science. 3 Hours.
This course will examine special topics/issues in Animal Science at an introductory level. This course may be repeated up to three times as topics and subject matter changes. Credits 3.

ANSC 3336. Livestock Marketing. 3 Hours.
This course will be a study of livestock marketing techniques, cash sales, risk management, forward contracting, problem solving using real-time livestock marketing situations, and risk of ownership in hypothetical livestock operations.
Prerequisite: ANSC 1319 and Sophomore standing.

ANSC 3363. Anatomy & Physiology of the Domestic Animal. 3 Hours.
Introduction to anatomy and physiology of domestic animals. Aspects of the nervous, skeletal, muscular, circulatory, urinary, and endocrine systems are covered.
Prerequisite: ANSC 1319 and Sophomore standing.

ANSC 3373. Animal Nutrition. 3 Hours.
This course consists of a study of the processes of digestion, absorption, metabolism, physiology, and circulation. Each nutrient is studied from the standpoint of chemistry, sources, function, and metabolism.
Prerequisite: ANSC 1319 and Sophomore standing.

ANSC 3376. Meat Science. 3 Hours.
Lecture topics will include muscle and skeletal biology, conversion of muscle to meat, food-borne illnesses and HACCP. Labs will focus on the methods of harvesting, preparation, preserving, and storing meat. Junior standing.
Prerequisite: ANSC 1319.

ANSC 3377. Meat and Muscle Biology. 3 Hours.
In this course, students examine fundamental principles of muscle structure, function, fiber type, and repair, as well as the physiological transformation of muscle to an edible product. Additionally, students investigate how each of the characteristics of muscle will affect the ultimate quality of a product through its conversion into meat.
Prerequisite: ANSC 1319.

ANSC 4310. Animal Growth & Performance. 3 Hours.
A study of the physiological and endocrine system factors affecting growth and performance of domestic animals. The course includes the study of meat animal growth and developmental processes and factors that affect body/carcass composition, carcass quality and value.
Prerequisite: ANSC 3373 and Junior standing.

ANSC 4336. Stocker & Feedlot Management. 3 Hours.
The course will evaluate the basic principles involved in feeding, management, marketing and disease control of stocker and feedlot cattle for economical production of beef. A review of scientific knowledge and research advances will be applied to modern stocker and feedlot cattle operations. Junior standing.
Prerequisite: ANSC 1319.

ANSC 4337. Behavior & Mgmt of Domest Anim. 3 Hours.
This course will study behavior associated with domesticated animals. The effects of selective breeding, physical and social environments, and the developmental stage on social organization will be studied. Additionally, aggressive behavior, sexual behavior, productivity, and the training of domestic animals will be examined. Junior standing.
Prerequisite: ANSC 1319.

ANSC 4339. Advanced Livestock and Horse Evaluation. 3 Hours.
This course provides an advanced study of the visual appraisal, grading, and evaluation techniques affiliated with livestock and horses. The evaluation of conformation will be studied along with the influence of heredity and environmental factors, industry trends and standards, and performance and production factors. Junior standing.
Prerequisite: ANSC 2321 or ANSC 2390.

ANSC 4360. Livestock Mgt Techniques. 3 Hours.
Skills and knowledge pertaining to the production of beef cattle, swine, goats, sheep, and horses. Laboratory exercises involve various management practices and selection of livestock based on visual evaluation and genetic performance. This course is not intended for animal science majors. CISE minors only.
Prerequisite: ANSC 1319 and must have completed 55 hours of coursework.

ANSC 4369. Animal Science Special Topics. 3 Hours.
Individual study in specialized areas of Animal Science. To be directed and approved by the Animal Science advisor. This course is designed to be a multi-topic course. The student can take the course under various special topics being offered.
Prerequisite: Junior standing.

ANSC 4376. Sheep & Goat Production & Mgt. 3 Hours.
Application of basic genetic principles, physiology, and nutrition to practical sheep, meat goat and Angora goat production systems; management, health care and marketing of animals and fiber. Junior standing.
Prerequisite: ANSC 1319.

ANSC 4380. Beef Cattle Production & Mgmt. 3 Hours.
A study of basic principles and methods of breeding, nutrition, reproduction, management, marketing, and disease control relating to various segments of the beef industry. Application of the latest bovine research is reviewed. Laboratory exercises involve practical skills relating to performance records and management of beef cattle.
Prerequisite: ANSC 1319 and Junior standing.

ANSC 4389. Animal Reproduction. 3 Hours.
Physiology of the male and female reproductive tract; hormones governing reproduction; the estrous cycle; mating; gestation; parturition; lactation; artificial insemination; embryo transfer technology; and factors affecting reproductive efficiency of common animal species used for agricultural purposes. Junior standing.
Prerequisite: ANSC 1319.

ANSC 4394. Animal Feeds And Feeding. 3 Hours.
A study of the characteristics of feedstuffs, a review of the essential nutrients and digestion, ration and mixture formulation, feeding methods, and nutritional management of beef, swine, sheep, goats, poultry, and horses. Exercises will consist of practical applications in formulating rations for livestock using conventional techniques and computers.
Prerequisite: ANSC 3373 and Junior standing.

ANSC 4395. Animal Breeding & Genetics. 3 Hours.
The application of genetic principles to livestock improvement. Study of genetic basis of selection and systems of mating, and the development of breeding programs based on the principles of population genetics.
Prerequisite: ANSC 1319 and Junior standing.

ANSC 4398. Animal Diseases & Public Hlth. 3 Hours.
This course will study diseases shared in nature between animals and man. Emphasis will be placed on how these diseases exist in natural environments, modes of transmission and methods of control and prevention. The course will cover infectious agents and the clinical signs that they cause in both man and animal.
Prerequisite: ANSC 1319 and junior standing.

Arabic (ARAB)

ARAB 1411. Elementary Arabic I. 4 Hours.
(SH Prior Course ID: ARB 131); For students with no previous instruction in Arabic. Introduction to the Arabic alphabet, pronunciation, vocabulary and basic language codes, stressing an oral approach to the language with emphasis on conversation and oral drill.

ARAB 1412. Elementary Arabic II. 4 Hours.
A continuation of ARAB 1411. Language codes with more complexity discussed and drilled. Stress on aural and oral skills.
Prerequisite: Grade of C or better in ARAB 1411 or equivalent.

ARAB 2311. Intermediate Arabic I. 3 Hours.
A continuation of ARAB 1412, adding more complex structures as a basis for reading and aural comprehension as well as for oral communication.
Prerequisite: Grade of C or better in ARAB 1412 or equivalent.

ARAB 2312. Intermediate Arabic II. 3 Hours.
A continuation of ARAB 2311. Special emphasis on practical needs for communication. Short cultural reading passages. More complex grammar. Particular emphasis on roots of Arabic words.
Prerequisite: Grade of C or better in ARAB 2311 or equivalent.

ARAB 3380. The Contemporary Arab World. 3 Hours.
Taught in the Arabic language for additional skill development in listening, speaking, reading and writing, the course emphasizes the fifth skill: cultural knowledge with insights and perspective via the viewpoint and linguistic expression of the native Arabic speaker. Introduces and describes the linguistic and cultural ramifications of the historical, political, social and economic situations in Arab countries with some analysis comparison among Arabic countries. An emphasis on gender issues, progress and reforms, the rise of fundamentalisms and the Arab-Israeli conflict.

ARAB 4075. Individual Readings in Arabic. 1-3 Hours.
This course is designed for advanced students to engage in independent study of an area of interest in Arabic Studies. Variable Credit (1-3).

ARAB 4370. Smnr Sel Tpcs in Arabic Cultur. 3 Hours.
(Prior SH course id: ARB 470); This course is an in-depth study of a selected topic. The topic to be explored will change from year to year. This course may be repeated for credit as the content varies.
Prerequisite: Advanced standing in Arabic or consent of instructor.

Art (ARTS)

ARTS 1301. Intro To The Visual Arts. 3 Hours.
(SH Prior Course ID: ART 160); This course will introduce the visual elements of art, their nature, functions and relationships in Painting, Sculpture and Architecture to the non-major.
Prerequisite: Non-Majors only.

ARTS 1302. Exploring Contemporary Art. 3 Hours.
This course presents a critical analysis of major themes in contemporary art, providing students with an appreciation of the artifacts of human imagination. Through the processes of synthesis and interpretation, students will engage in critical, creative, and innovative communication about contemporary works of art.

ARTS 1303. Art History Survey I. 3 Hours.
(SH Prior Course ID: ART 260); This course provides a chronological survey of the major monuments of painting, sculpture, architecture, textiles, and metalwork from the ancient through the medieval periods.

ARTS 1304. Digital Art & New Technology. 3 Hours.
This course will strengthen and complement current course offerings in the Department of Art, in particular, by providing more course offerings for non-majors. Our current course offerings do not include a study of contemporary art at the freshman level.

ARTS 1313. W.A.S.H. - 2D. 3 Hours.
(SH Prior Course ID: ART 130); This studio course introduces the studio arts, art history, theory and technology to the incoming student. It is designed to immerse students in an intense program of researching, interpreting and creating art in the twenty-first century. ARTS 1313 emphasizes the2-Dimensional Arts. Its companion courses, ARTS 1314 and ARTS 1315, support this studio course with lectures, readings, visiting artists and demonstrations. Co-requisites: ARTS 1314 and ARTS 1315.

ARTS 1314. W.A.S.H. - 3D. 3 Hours.
(SH Prior Course ID: ART 131);This studio course introduces the studio arts, art history, theory and technology to the incoming student. It is designed to immerse students in an intense program of researching, interpreting and creating art in the twenty-first century. ARTS 1314 emphasizes the3-Dimensional Arts. Its companion courses, ARTS 1315 and ARTS 1313, support this studio course with lectures, readings, visiting artists and demonstrations. Co-requisites: ARTS 1315 and ARTS 1313.

ARTS 1315. W.A.S.H. - Lecture. 3 Hours.
(SH Prior Course ID: ART 132); This course introduces the concepts, theories and information for development in ARTS 1313 and ARTS 1314, the studio components linked with this visual arts foundation course. It is an arena for students to experience lectures, demonstrations, seminar activities and visiting speakers, as well as the more traditional aspects of the discipline. It is geared towards contemporary visual concerns and uses experimental techniques to expose students to an array of styles and methodologies. Co-requisites: ARTS 1313 and ARTS 1314.

ARTS 1316. Drawing. 3 Hours.
An in-depth study of the fundamental principles of drawing and mark making. Students will draw from observation and develop the ability to create 2 dimensional representations using Line, Value, Shape, Edge, Plane and Volume, Space, Texture, Perspective, and Gesture. The use of negative space and compositional strategies are emphasized. Traditions of drawing are examined and drawing is placed in a historical context that emphasizes its importance in contemporary art.

ARTS 2313. Foundations In Digital Art. 3 Hours.
(SH Prior Course ID: ART 262); This is an introductory course in the use of the computer as an art-making medium. The course introduces students to digital software and techniques, image creation and manipulation, digital design and compositional methods, and the use of digital tools as a vehicle of creative problem solving and personal creative expression.

ARTS 2317. Life Drawing I. 3 Hours.
Drawing from the model in various media. Gesture drawing and figure structure are studied. Line, Value, and Shape, Plane and Volume are used as elements to depict the figure in space with accurate proportions. The study leads toward a final portfolio that demonstrates proficiency representing the figure in cohesive and complete compositions for submission to the BFA portfolio review.
Prerequisite: ARTS 1313, ARTS 1314, ARTS 1315 and ARTS 1316 with a grade of C or better.

ARTS 2323. Principles Of Graphic Design. 3 Hours.
(SH Prior Course ID: ART 234); This entry-level course is the first in building the foundation for graphic design. The emphasis is on creative thinking and problem solving and the development of the designer in process. Each project builds upon the previous in depth and complexity of that process. The student is introduced to computer application of two-dimensional concepts and output.
Prerequisite: ARTS 1313,ARTS 1314, ARTS 1315, ARTS 2313.

ARTS 2343. Animation Concepts And Technqs. 3 Hours.
The principles and techniques of traditional animation, including the principles of motion, storyboarding, flipbooks, cel and pencil animation. Also introduces students to the use of computers in animation.
Prerequisite: ARTS 1313, ARTS 1314, ARTS 1315, ARTS 1316, ARTS 1317 and ARTS 2313 with a grade of C or better.

ARTS 2344. 2D Computer Animation. 3 Hours.
In this course, computer software is used to create 2D animations that incorporate traditional techniques and styles such as drawing and painting, cut paper, cel animation and stop action. Story development is emphasized and video editing techniques are practiced.
Prerequisite: ARTS 1313, ARTS 1314, ARTS 1315, ARTS 2343 and ARTS 3317 with a grade of C or better.

ARTS 2365. Photographic Visualization. 3 Hours.
(SH Prior Course ID: ART 232); Students will be introduced to advanced exposure techniques and the principles necessary to master use of the large format camera.

ARTS 2370. Digital Photography I. 3 Hours.
(SH Prior Course ID: ART 233); This course introduces the student to the tools and techniques used in the scanning, creation, manipulation, and presentation of digital images.

ARTS 2375. Photographic Concepts. 3 Hours.
(SH Prior Course ID: ART 236); Students are introduced to basic camera functions and concepts, use of visual design elements and articulation of personal ideas through the medium of fine art photography.

ARTS 3305. Painting I. 3 Hours.
An introduction to the materials, techniques and concepts of oil painting. Emphasis is placed on painting from observation, the depiction light and shadow, and basic color theory. Process based painting and concept based abstraction are explored. Students will learn to recognize and use the tools and materials and nomenclature related to oil painting including supports and grounds, mediums, binders and brushes. The role of Painting in art history and in contemporary art will be examined.
Prerequisite: ARTS 1313, ARTS 1314, ARTS 1315, ARTS 1316.

ARTS 3307. Performance and Video Art. 3 Hours.
Students will explore performance and video art both in practice and theory including live performance, performance and video, live presence/virtual spaces, performance for the camera, site specific performance, and collaborative performance.
Prerequisite: ARTS 1313, ARTS 1314, and ARTS 1315.

ARTS 3310. Printmaking. 3 Hours.
An introduction to the techniques and procedures of printmaking. The emphasis is on relief, monoprint, and intaglio methods.
Prerequisite: ARTS 1313, ARTS 1314, ARTS 1315, ARTS 1316 and ARTS 2313.

ARTS 3315. Collage. 3 Hours.
A class which follows the precepts of the twentieth century art form of using and exploring the juxtaposition and layering of a variety of materials and images. The dynamics of composition and a further investigation of the use of color and inherent capabilities of contrasting images and textures will be studied. Students will use a variety of materials including the found object, discarded papers, invented textures and painted surfaces to create their imagery.
Prerequisite: ARTS 1313, ARTS 1314, ARTS 1315, ARTS 1316, ARTS 2313 and ARTS 3318.

ARTS 3317. Life Drawing II. 3 Hours.
This course explores the use of the figure as subject matter in art. Observational skills are practiced and refined and personal expression is emphasized. A variety of media are explored. The use of the figure in contemporary art is studied.
Prerequisite: ARTS 1313, ARTS 1314, ARTS 1315, ARTS 1316, and ARTS 1317 or 2317.

ARTS 3318. Sculpture I. 3 Hours.
Students will explore a variety of processes and materials as ways of learning the vocabulary of three-dimensional art. Students will incorporate wood, metal, and found objects into art as ways of expanding their visual vocabulary. Group critiques will help the student learn contemporary approaches to art making, to improve their sculptural skills and to develop personal artistic vision.
Prerequisite: ARTS 1313, ARTS 1314, ARTS 1315.

ARTS 3320. Ceramics I. 3 Hours.
An introduction to clay, the potential it has as a material and an overview of the basic principles involved in the forming/processing of it. The basic forming techniques will explore all aspects of hand building (pinch, coil and slab construction), as well as an introduction to the wheel. Basic firing techniques and finishes will be discussed. The emphasis of the course will be rooted in sculpture.
Prerequisite: ARTS 1313, ARTS 1314, ARTS 1315 and ARTS 1316.

ARTS 3322. Typography. 3 Hours.
This foundation course introduces an overview of history, principles, processes and terminology of typography. Type sensitivity is developed through a variety of means: classifying and identifying typefaces, designing typographic logotypes, as well as designing with type. The majority of work is created on the computer.
Prerequisite: ARTS 1313, ARTS 1314, ARTS 1315, ARTS 1316, ARTS 2313, and ARTS 2323.

ARTS 3323. Graphic Design In Context. 3 Hours.
The techniques and processes of print media are explored. The use of color is emphasized. Students will be exposed to historical and aesthetic issues.
Prerequisite: ARTS 1313, ARTS 1314, ARTS 1315, ARTS 2323, ARTS 3322.

ARTS 3324. Corporate Identity Design. 3 Hours.
Publication design problems are presented as they relate to a specific corporation/product. Typical projects include corporate identity systems and ad campaigns. Production methods are individually explored to produce presentation quality mockups.
Prerequisite: ARTS 1313, ARTS 1314, ARTS 1315, ARTS 3323.

ARTS 3326. Graphic Design Production. 3 Hours.
This advanced course focuses on graphic design production techniques and the application of contemporary tools and processes employed by visual designers. This course emphasizes the mastery of a digital workflow, concluding with the physical output.
Prerequisite: ARTS 1313, ARTS 1314, ARTS 1315, ARTS 1316, ARTS 2313, ARTS 3322, ARTS 3323 .

ARTS 3330. Methods in Art Education. 3 Hours.
This class is designed to give the art education major the tools necessary to be successful in the classroom. The primary focus will be the development of a teaching philosophy and curricula relevant to the all level teaching certification. Topics covered include developing a teaching philosophy, preparing and presenting lesson plans, techniques in various art mediums that are applicable to the classroom, and strategies for assessments and critiques. Class discussions and readings on current art education topics are also required.
Prerequisite: ARTS 3385, CISE 3384.

ARTS 3335. Packaging Design. 3 Hours.
This course will explore graphic communication and techniques for packaging structure and three dimensional-design issues. Experimentation with diverse materials and forms, typography, color, and images will be developed for the targeted audience based on depth of research and design brief. In addition, packaging sustainability will be addressed.
Prerequisite: ARTS 1313, ARTS 1314, ARTS 1315, and ARTS 3322 with a grade of C or better.

ARTS 3343. Intro To 3D Computer Animation. 3 Hours.
Basics of 3D Animation including 3D modeling techniques, key-framing and graph editing, shading, lighting and rendering.
Prerequisite: ARTS 1313, ARTS 1314, ARTS 1315, ARTS 1316, and ARTS 2313.

ARTS 3344. Advanced 3D Computer Animation. 3 Hours.
This course is designed for students who are experienced with basic 3D animation concepts and technical practice. The course introduces more sophisticated concepts and techniques and emphasizes animation development through hands-on practice. The course will focus on animation concepts, creative animation design, and expanding students? knowledge of topics, tools, and techniques.
Prerequisite: ARTS 1313, ARTS 1314, ARTS 1315, ARTS 3343 with a grade of C or better.

ARTS 3353. Motion Graphics. 3 Hours.
A study of the use of type in motion to create animated graphic designs, logos, titles, and animated concrete poetry.
Prerequisite: ARTS 1313, ARTS 1314, ARTS 1315, ARTS 2313 and ARTS 2343 or ARTS 3317 (concurrent enrollment allowed) with a grade of C or better.

ARTS 3354. Experimental Animation. 3 Hours.
This course is an exploration of alternative techniques in the creation of animation to include cutout animation, pixilation, lo-fi animation, as well as other emerging processes. Coursework will also focus on experimintal approaches to story and content generation. Readings and discussions will focus on technical, aesthetic, and theoretical issues relating to these disciplines.
Prerequisite: ARTS 1313, ARTS 1314, ARTS 1315, ARTS 1317, ARTS 2313 and ARTS 2343.

ARTS 3356. Visual Effects and Animation. 3 Hours.
In this course students explore visual effects for animation and digital film making. Students concentrate on the creative pipeline for the development of visual effects and the procedures for planning, creating and applying such effects. Specific topics will include masking, particle systems, motion tracking, chroma key and other related techniques. Students will explore the use of visual effects for narrative and experimental contexts. Readings and discussions will focus ontechnical, aesthetic, and theoretical issues relating to this discipline.
Prerequisite: ARTS 2343.

ARTS 3360. The Photographic Digital Print. 3 Hours.
This course will provide an investigation of traditional and alternative digital photographic printing and mixed media processes. Students will complete a portfolio of original photographic work demonstrating personal creative and conceptual development.
Prerequisite: ARTS 1313, ARTS 1314, ARTS 1315, ARTS 2365, ARTS 2370, ARTS 2375.

ARTS 3362. Environmental Portraiture. 3 Hours.
Blending portraiture and context, the environmental portrait illuminates the character and personality of its subject. Learning to photograph people in their natural surroundings thus capturing insight into their lives is the goal of this course. Students will complete a portfoilio of original photographic work focusing on the topic of environmental portraiture.
Prerequisite: ARTS 1313, ARTS 1314, ARTS 1315, ARTS 2365, ARTS 2370, ARTS 2375.

ARTS 3364. Photography Seminar. 3 Hours.
A different topic is presented each semester. May be repeated for credit.
Prerequisite: ARTS 1313, ARTS 1314, ARTS 1315, ARTS 2365, ARTS 2370, ARTS 2375.

ARTS 3365. Film Appreciation. 3 Hours.

ARTS 3368. Studio Practices I. 3 Hours.
Students learn the fundamentals of working with light both in the studio and on location. They are introduced to the use and control of existing light as well as high-powered electronic flash in the realm of digital photography.
Prerequisite: ARTS 1313, 1314, 1315, 2365, 2370, and 2375 with a grade of C or better.

ARTS 3370. Digital Photography II. 3 Hours.
This course will engage students in an advanced study of the tools, techniques, and applications of digital photography in the desktop computing environment. Emphasis is placed onnon-destructive manipulation of images and digital workflow techniques.
Prerequisite: ARTS 1313, ARTS 1314, ARTS 1315, ARTS 2365, ARTS 2370 and ARTS 2375.

ARTS 3373. Digital Imaging. 3 Hours.
This course involves the exploration of advanced computer imaging techniques in support of individual student interests. Advanced capture, manipulation, and printing procedures are explored and applied in developing digital portfolios. Credit 3 or 6.
Prerequisite: ARTS 1313, ARTS 1314, ARTS 1315, ARTS 2370.

ARTS 3374. Alternative Photo Processes. 3 Hours.
In this course students are introduced to a variety of non-standard photographic processes.
Prerequisite: ARTS 1313, ARTS 1314, ARTS 1315, ARTS 2365, ARTS 2370, ARTS 2375 with a grade of C or better.

ARTS 3375. Web Site Development. 3 Hours.
This course introduces students to the process of designing and creating web sites for the World Wide Web. Beginning with an understanding of the Internet and HTML, the basic language of the web, students move on to work with authoring tools used in building and maintaining websites. The course concludes with a discussion of challenges facing web designers and the future of this powerful communication tool.
Prerequisite: ARTS 2370.

ARTS 3382. The History Of Animation. 3 Hours.
A survey of the History of Animation from early cartoons through contemporary special effects and 3D characters. The political, artistic and social uses of animation are examined.
Prerequisite: ARTS 2386 OR ARTS 3385.

ARTS 3383. Design History. 3 Hours.
Design History provides an in-depth study of styles, schools, philosophies, and parallel fields of design from the Industrial Revolution to current day. Emphasis will be on the development of the profession of graphic design and its relationship to commerce and technology.
Prerequisite: ARTS 2386 or ARTS 3385.

ARTS 3385. Art History Survey II. 3 Hours.
This course provides a chronological survey of the major monuments of painting, sculpture, architecture, textiles, and metalwork from the medieval period to the present.

ARTS 3386. Ancient Greek and Roman Art. 3 Hours.
Students in this course examine the art and architecture of the ancient Greek and Roman empires. Studies will also include earlier civilizations such as the Minoans and Myceneans through the dissolution of the Roman Empire and the early medieval period. Students consider various art forms such as ancient coins, bronze and marble sculpture, Roman wall painting, and religious and civic architecture.
Prerequisite: ARTS 1303, ARTS 3385.

ARTS 3387. Renaissance Art History. 3 Hours.
This course will survey the art and architecture of the Renaissance. Credit: 3. .
Prerequisite: ARTS 3386.

ARTS 4019. Special Topic. 1-6 Hours.
An undergraduate seminar course concerning problems selected within an area of specialization. Variable Credit (1-3). (This course may be taken for Academic Distinction credit. See Academic Distinction Program in this catalog.)
Prerequisite: 6 hours of credit in the area of investigation, with permission of the instructor and department chair.

ARTS 4079. Independent Study. 1-3 Hours.
This course is provided to allow the student, under the supervision of a faculty member, to develop specialized skills, to conduct an investigation into an area of special interest. Regular meetings will be held with the faculty sponsor. The course will culminate in a portfolio of photographs and/or a scholarly written report. Departmental approval is required before student may enroll in this course. May be repeated or taken concurrently to a maximum of 6 hours. Variable credit (1-3).
Prerequisite: ARTS 2375 and ARTS 2370.

ARTS 4305. Advanced Painting. 3 Hours.
Exploration of traditional painting processes and concepts along with the introduction of non-traditional techniques and materials. Emphasis is placed on skill development and individual exploration of ideas.
Prerequisite: ARTS 1313, ARTS 1314, ARTS 1315, ARTS 3305.

ARTS 4307. Painting In Aquamedia. 3 Hours.
The focus is on transparent watercolor. Landscape, still life, and the figure are emphasized, along with experimentation.
Prerequisite: ARTS 1313, ARTS 1314, ARTS 1315, and ARTS 3305 with a grade of C or better.

ARTS 4309. Book Arts. 3 Hours.
In this course students explore techniques and processes used to create books as an artistic expression. Techniques such as papermaking and bookbinding are used along with printmaking, photography, and drawing. Students use traditional and experimental book structures to create books that are personal expressions. Each student creates a series of books. The historical and conceptual foundations of contemporary artists' bookmaking is also examined.
Prerequisite: ARTS 3310.

ARTS 4310. Advanced Printmaking. 3 Hours.
Advanced problems in printmaking. Special procedures and problems involving further investgation of various printmaking media and formats. An emphasis is placed on creative development.
Prerequisite: ARTS 1313, 1314, 1315, and 3310 with a grade of C or better.

ARTS 4311. Advanced Studio. 3 Hours.
This course is an interdisciplinary studio course emphasizing contemporary issues in art. Students will be encouraged to work in a variety of mediums, cross boundaries between mediums, incorporate technology, and collaborate. They will develop a body of work that is based on concepts relevant to personal expression and contemporary issues. Group and individual critiques will be used to evaluate progress and students will be encouraged to exhibit their work. Credit 3
Prerequisite: 9 hours of advanced Art Studio or Photography courses with a grade of C or better.

ARTS 4313. W.A.S.H Practicum. 3 Hours.
Students will gain leadership and advanced critque skills while mentoring other students, contributing and particpating in the Workshop in Art Studio and History (W.A.S.H) program. Additionally, students will be expected to complete an independent studio project. Departmental approval is required.
Prerequisite: ARTS 1313, ARTS 1314, ARTS 1315, Senior standing.

ARTS 4315. Professional Practices in Art. 3 Hours.
This class is designed to prepare the art studio major for a professional presentation of their portfolio to present to a gallery or for admittance into graduate school. Students will learn how to photograph their art-work, write a resume, artist statement and cover letter. Crate building, mat cutting and frame making will also be covered. Class discussions, guest lectures and readings on current art topics are also required.
Prerequisite: ARTS 1313, ARTS 1314, and ARTS 1315 with a grade of C or better.

ARTS 4316. Advanced Drawing. 3 Hours.
Drawing problems with emphasis on the development of personal expressive techniques.
Prerequisite: ARTS 1313, ARTS 1314, ARTS 1315, ARTS 3317.

ARTS 4317. Museum And Gallery Practices. 3 Hours.
This course focuses on the practices and operations of Alternative Art Spaces, Commercial Art Galleries, and Museums of Art. Students will visit museums and galleries in the area and assist with exhibitions in the Gaddis Geeslin Gallery in the Department of Art. The course will cover art handling and installation, registration procedures, and curatorial theories and practices. Students will curate and mount an exhibit, and prepare press materials and publicity as a course project.
Prerequisite: ARTS 1313, ARTS 1314, ARTS 1315, and ARTS 2386 or ARTS 3385 with a grade of C or better.

ARTS 4318. Sculpture II. 3 Hours.
The exploration of three-dimensional media through the proper use of tools, working processes, and a variety of materials. Emphasis placed on skill development and individual exploration of ideas.
Prerequisite: ARTS 1313, ARTS 1314, ARTS 1315, ARTS 3318.

ARTS 4320. Ceramics II. 3 Hours.
A continued exploration of clay with an emphasis on personal expression and discovery. The course is geared towards those students dedicated to understanding the contemporary issues surrounding the material in relationship to their own work and methodology. There are a number of required readings/writings, along with several group discussions. Additional technical information will be provided regarding advanced techniques (mold-making, firing wood/gas/soda kilns, and alternative building techniques). Interdisciplinary work is encouraged.
Prerequisite: ARTS 1313, ARTS 1314, ARTS 1315, and ARTS 3320 with a grade of C or better.

ARTS 4323. Senior Studio In Graphic Desgn. 3 Hours.
An internship in an approved field and an intense portfolio review.
Prerequisite: ARTS 1313, ARTS 1314, ARTS 1315, ARTS 2323, ARTS 3322, ARTS 3323, and ARTS 3324 with a grade of C or better.

ARTS 4325. Advanced Typographic Design. 3 Hours.
Advanced Typographic Design is an exploration of typography beyond its foundations. Students will investigate the interdependence of type, image, and content, as they relate to visual communication. Experimental and hand created type will be explored with the goal of developing a sophisticated typographic voice.
Prerequisite: ARTS 1313, ARTS 1314, ARTS 1315, and ARTS 3323 with a grade of C or better.

ARTS 4331. Illustration. 3 Hours.
This course promotes the inventive and individual solutions to illustrational problems, explores relationships of the image to the text and develops individual skill level using a variety of media, including the computer.
Prerequisite: ARTS 1313, ARTS 1314, ARTS 1315, ARTS 2313, ARTS 2323, and ARTS 3322 with a grade of C or better.

ARTS 4333. Interactive Design. 3 Hours.
This is an advanced course for web design concepts and processes as well as motion graphics applying Dreamweaver, Flash, Photoshop, and ImageReady applications. The course addresses terminology of the web environment, usability, web file formats, JavaScript, web typography, and web graphics. In addition, this course introduces web-based interactive multimedia including animation, sound, and motion graphics.
Prerequisite: ARTS 1313, ARTS 1314, ARTS 1315, ARTS 2313, ARTS 3322, ARTS 3323, and ARTS 3375 with a grade of C or better.

ARTS 4350. Character Animation. 3 Hours.
This course explores the techniques of character animation and rigging using pre-rigged characters and models in 3D computer software.
Prerequisite: ARTS 1313, ARTS 1314, ARTS 1315, ARTS 1316, ARTS 2313, ARTS 2343, and ARTS 3343 with a grade of C or better.

ARTS 4355. Shading, Lighting & Rendering. 3 Hours.
An in depth study of surfaces and shaders including: texture and image mapping, lighting for compositing, cel shading, and rendering methods.
Prerequisite: ARTS 1313, ARTS 1314, ARTS 1315, ARTS 1316, ARTS 2313, ARTS 2343, and ARTS 3343 with a grade of C or better.

ARTS 4356. 2D Interactive Animation. 3 Hours.
This course is an in-depth study of 2D Interactive Mutimedia Technologies for the creation and distribution of content over the internet and as stand-alone desktop applications. Coursework will concentrate on the development of interactive audio and video, interactive narratives, and game production. Focus will be on both asset creation and scripting for these types of applications. Readings and discussions will focus on technical, aesthetic, and theoretical issues relating to this evolving art medium.
Prerequisite: ARTS 1313, 1314, 1315, 1316, 2313, 2343, and 3343.

ARTS 4357. 3D Interactive Animation. 3 Hours.
This course is an in-depth study of 2D Interactive Multimedia Technologies for the creation and distribution of content over the internet and as stand-alone desktop applications. Coursework will concentrate on the development of interactive audio and video, interactive narratives, and game production. Focus will be on both asset creation and scripting for these types of applications. Readings and discussions will focus on technical, aesthetic, and theoretical issues relating to this evolving art medium.
Prerequisite: ARTS 1313, ARTS 1314, ARTS 1315, ARTS 1316, ARTS 2313, ARTS 2343, and ARTS 3343 with a grade of C or better.

ARTS 4358. Animation Portfolio. 3 Hours.
Students in this course will create a work in a specific area of expertise and author a demo reel using this work and refined work from previous courses. A print portfolio will be created and job searching skills such as presentation and resume building will be taught.
Prerequisite: 12 hours of animation courses with a grade of C or better.

ARTS 4368. Studio Practices II. 3 Hours.
This course is a continuation of ARTS 3368. Students will learn advanced studio lighting techniques while completing a bosy of creative photographic work. Credit. 3.
Prerequisite: ARTS 1313, ARTS 1314, ARTS 1315, ARTS 2365, ARTS 2370, ARTS 2375 and ARTS 3368 with a grade of C or better.

ARTS 4370. Documentary Photography. 3 Hours.
Prerequisite: ARTS 1313, ARTS 1314, ARTS 1315, ARTS 2365, ARTS 2370, and ARTS 2375 with a grade of C or better.

ARTS 4371. Human Form: A Photographc Stdy. 3 Hours.
This course will take an investigative look ino the use of the human form through the medium of photography. There will be discussion of the variety of contexts and representations of the human body throughout the history of art. Students will complete a body of photographic work using or referencing the human figure.
Prerequisite: ARTS 1313, ARTS 1314, ARTS 1315, ARTS 2365, ARTS 2370, ARTS 2375 .

ARTS 4372. Photographic Narratives. 3 Hours.
This course provides a broad and intensive investigation of visual narratives through photographic representation. Photographic books, journals, installations, slide shows, and mixed media collage will be explored as a means of developing visual fluency and personal expression. The implications of photographic sequencing and contextual significance will also be an emphasis of this course.
Prerequisite: ARTS 1313, ARTS 1314, ARTS 1315, ARTS 2365, ARTS 2370, and ARTS 2375 with a grade of C or better.

ARTS 4373. Contemporary Issues in Pho. 3 Hours.
This course is designed to provide students with an understanding of contemporary photographic trends. The work of photographers who are currently having an impact on fine art photography will be discussed along with critical analysis of art theory. Students will be expected to complete a body of photographic work that demonstrates personal conceptual development.
Prerequisite: ARTS 1313, ARTS 1314, ARTS 1315, ARTS 2365, ARTS 2370, and ARTS 2375 with a grade of C or better.

ARTS 4381. History of Photography. 3 Hours.
A study is made of the history of photography from its earliest beginnings. Technical, visual, aesthetic and social aspects are considered.
Prerequisite: ARTS 2386 or ARTS 3385 with a grade of C or better.

ARTS 4384. Modern Art Before 1945. 3 Hours.
This course will provide an examination of modern art in Europe and the United States through a critical engagement with ideas of modernism and methodologies from 1850 through World War II. Mediums to be studied include photography, painting, drawing, sculpture, and early film. Credit 3
Prerequisite: ARTS 2386 or ARTS 3385 with a grade of C or better.

ARTS 4385. Art Since 1945. 3 Hours.
This course is an international examination of painting, sculpture, and other media since 1945. Students will explore artistic production through social, political, historical, and theoretical frameworks.
Prerequisite: ARTS 2386 or ARTS 3385 with a grade of C or better.

ARTS 4387. History Of Mexican Art. 3 Hours.
This course is a survey of Mexican and Mesoamerican art. Students will study images of prehistoric artifacts and the art and architecture of pre-hispanic cultures including the Olmec, Mixtec, Maya, and Aztec. The impact of the Spanish conquest, the role of art in the Mexican Revolution and the Socialist movement, Arte Popular, the Muralists, late twentieth century and contemporary Mexican art are also explored.
Prerequisite: ARTS 1303 and (ARTS 2386 or ARTS 3385) with a grade of C or better.

ARTS 4389. Criticism Thry In Visual Arts. 3 Hours.
The study of historical and contemporary aspects of major thinking concerning the visual arts.
Prerequisite: ARTS 1303 and (ARTS 2386 or ARTS 3385) and (ARTS 4385 or ARTS 4388) with a grade of C or better.

Athletic Training (ATTR)

ATTR 2110. Taping and Bandaging. 1 Hour.
This skills-based course explores the appropriate utilization and application of preventative, therapeutic, and rehabilitative taping and bandaging used in the athletic training profession. The wrapping and bandaging of various extremities susceptible to injury in sport and activity are emphasized in this course.

ATTR 2300. Intro to Athletic Training. 3 Hours.
This course is an introduction to the profession of Athletic Training. Topics include methods of care, treatment, and rehabilitation of athletic injuries. Laboratory experiences are provided to assist the student with athletic injury scenarios.
Prerequisite: None.

ATTR 3169. Therapeutic Interv I Lab. 1 Hour.
This course will include hands-on application of skills in the areas of therapeutic modalities and manual therapies used to treat impairments due to injury or illness. This laboratory includes instruction, practice, and evaluation of clinical skills related therapeutic interventions (e.g. cryotherapy, thermotherapy, electrical stimulation, ultrasound, intermittent compression, and manual therapies). Commission on Accreditation of Athletic Training Education (CAATE) 5th edition competencies in the domain areas of Evidence-Based Practice, Therapeutic Interventions, and Healthcare Administration will be included in this course. Concurrent enrollment with ATTR 3369.Credit 1
Prerequisite: Admission to the Athletic Training Program, ATTR 3370; must be taken concurrently with ATTR 3369.

ATTR 3170. Prevention and Care of Injuries LAB. 1 Hour.
This course will include hands-on application of skills in the prevention and care of injuries and illness in sport. This course will include practice of skills related to emergency and acute care of injuries, care of the equipment-laden athlete, environmental illnesses, and prevention of injury and illnesses. Commission on Accreditation of Athletic Training Education (CAATE) 5th edition competencies in the domain areas of Acute Care, and Prevention and Health Promotion will be included in this course. Concurrent enrollment with ATTR 3370. Credit 1
Prerequisite: Admission to the Athletic Training Program OR Department Approval; must be taken concurrently with ATTR 3370.

ATTR 3291. Clinical Experiences in Athletic Training I. 2 Hours.
This course includes professional experience which provides students with the opportunity to apply basic knowledge and theory related to the philosophy, principles, and competencies of the athletic training profession in real-patient settings under the supervision of a Clinical Preceptor. Clinical experience sites include both on-campus and off-campus healthcare settings. Clinical experiences are coordinated through the Athletic Training Program. Credit 2
Prerequisite: Admission to the Athletic Training Program AND Department Approval.

ATTR 3292. Clinical Experiences in Athletic Training II. 2 Hours.
This course includes professional experience which provides students with the opportunity to apply intermediate knowledge and theory related to the philosophy, principles, and competencies of the athletic training profession in real-patient settings under the supervision of a Clinical Preceptor. Clinical experience sites include both on-campus and off-campus healthcare settings. Clinical experiences are coordinated through the Athletic Training Program.
Prerequisite: Admission to the Athletic Training Program, ATTR 3370, ATTR 3170, ATTR 3291 and Department Approval.

ATTR 3300. Admin of Athletic Training. 3 Hours.
This course provides students with an overview of the organizational, professional, and management skills required to work in the Athletic Training field. Course content includes: standards of practice, ethical issues, emergency preparedness, resource activation, community relationships, and conflict management. Admittance to the Athletic Training Program, or Departmental Approval.
Prerequisite: ATTR 2300, 2310.

ATTR 3369. Therapeutic Interventions I. 3 Hours.
A study of the theories and principles involved in the use of therapeutic modalities in treating injuries to the physically active, providing students with the necessary skills and theoretical knowledge to formulate treatment plans for injuries.
Prerequisite: ATTR 3370 or Departmental Approval.

ATTR 3370. Prevention & Care of Injuries. 3 Hours.
This course includes instruction and laboratory work in the care and prevention of injuries. It is designed to meet the needs of the athletic coach and physical education teacher.
Prerequisite: BIOL 2401 or BIOL 2403.

ATTR 3383. Head & Face Injuries in Sport. 3 Hours.
This course will examine common head and facial injuries in sport and physical activity. Emphasis will be placed on guiding laws, rules and current evidence used for effective evaluation, diagnosis, care, referral, and return-to-activity guidelines.
Prerequisite: ATTR 2300, ATTR 3370, OR Department Approval.

ATTR 4100. Lower-Extremity Injuries Lab. 1 Hour.
This course will include hands-on application of skills in the evaluations, care, diagnosis, and referral of lower-extremity injuries. Commission on Accreditation of Athletic Training Education (CAATE) 5th edition competencies in the domain areas of Evidence-Based Practice; Clinical Examination and Diagnosis; and Healthcare Administration will be included in this program.
Prerequisite: Admission to the Athletic Training Program, ATTR 3370 and ATTR 3170; must be taken concurrently with ATTR 4300.

ATTR 4110. Upper-Extremity Injuries Lab. 1 Hour.
This course will include hands-on application of skills in the evaluation, care, diagnosis, and referral of upper-extremity injuries. Commission on Accreditation of Athletic Training Education (CAATE) 5th edition competencies in the domain areas of Evidence-Based Practice; Therapeutic Interventions, and Healthcare Administration will be included in this program. Concurrent enrollment with ATTR 4310.
Prerequisite: Admission to the Athletic Training Program, ATTR 3370, ATTR 3170, ATTR 4300 and ATTR 4100; must be taken concurrently with ATTR 4310.

ATTR 4169. Therapeutic Interventions II Lab. 1 Hour.
This course will include hands-on application of skills in the areas of therapeutic exercise and therapeutic medications used to treat impairments due to injury or illness. This laboratory includes instruction, practice, and evaluation of clinical skills related therapeutic interventions in the treatment of pain, and deficiencies in movement, strength, endurance, speed, neuromuscular control, coordination, agility, cardiorespiratory fitness, and activity specific skills. Commission on Accreditation of Athletic Training Education (CAATE) 5th edition competencies in the domain areas of Evidence-Based Practice, Therapeutic Interventions, and Healthcare Administration will be included in this course. Concurrent enrollment with ATTR 4369.
Prerequisite: Admission to the Athletic Training Program, ATTR 3370, ATTR 3369, and ATTR 3169; must be taken concurrently with ATTR 4369.

ATTR 4175. Gen Med Conditions Lab. 1 Hour.
This course will include hands-on application of skill in the evaluation, care, diagnosis and referral of general medical conditions often seen in an active population. Commission on Accreditation of Athletic Training Education (CAATE) 5th edition competencies in the domain areas of Evidence-Based Practice; Clinical Examination and Diagnosis; Healthcare Administration; and Psychosocial Strategies and Referral will be included in this course. Concurrent enrollment with ATTR 4375.
Prerequisite: Admission to the Athletic Training Program, ATTR 3370, ATTR 3170, ATTR 4300, ATTR 4100, ATTR 4310 and ATTR 4110.

ATTR 4291. Clinical Experiences in Athletic Training III. 2 Hours.
This course includes professional experience which provides students with the opportunity to apply intermediate knowledge and theory related to the philosophy, principles, and competencies of the athletic training profession in real-patient settings under the supervision of a Clinical Preceptor. Clinical experience sites include both on-campus and off-campus healthcare settings. Clinical experiences are coordinated through the Athletic Training Program.
Prerequisite: Admission to the Athletic Training Program, ATTR 3369, ATTR 3169, ATTR 3291, ATTR 3292, ATTR 4300, ATTR 4100 and Department Approval.

ATTR 4292. Clinical Experiences in Athletic Training IV. 2 Hours.
This course includes professional experience which provides students with the opportunity to apply advanced knowledge and theory related to the philosophy, principles, and competencies of the athletic training profession in real-patient settings under the supervision of a Clinical Preceptor. Clinical experience sites include both on-campus and off-campus healthcare settings Clinical experiences are coordinated through the Athletic Training Program.
Prerequisite: Admission to the Atheltic Training Program, ATTR 4310, ATTR 4110, ATTR 4369, ATTR 4169, ATTR 3291, ATTR 3292, and Department Approval.

ATTR 4300. Care of the Lower Extremity. 3 Hours.
This course is designed to educate Athletic Training students regarding the anatomical lower extremity including the hip, thigh, knee, calf, ankle, and foot. Evaluation of injuries occurring in the athletic setting will be emphasized, as well as orthopedic tests to determine injury in joints and tissue of the lower body.
Prerequisite: ATTR 3370 AND BIOL 2401 OR BIOL 2403 or Departmental Approval.

ATTR 4310. Care of the Upper Extremity. 3 Hours.
This course is designed to educate Athletic Training students regarding the anatomical upper extremities including the head, spine, thoracic region, shoulder, elbow, wrist, and hand. Evaluation of injuries in the athletic setting are emphasized, as well as orthopedic tests to determine pathology in joints and tissue of the upper body.
Prerequisite: ATTR 3370 AND ATTR 4300 AND BIOL 2401 or Departmental Approval.

ATTR 4350. Athletes and Disabilities. 3 Hours.
This course will familiarize the Athletic Training student with the specific signs and symptoms of various medical, physical, and cognitive disabilities that are present in an athletic population. Admittance to the Athletic Training Program, or Departmental Approval.
Prerequisite: ATTR 2300, ATTR 2310, ATTR 3300, ATTR 4300, ATTR 4310, BIOL 2401.

ATTR 4369. Therapeutic Interventions II. 3 Hours.
This course will focus on therapeutic exercise for a variety of injuries and conditions common in sport and exercise settings. Emphasis will be placed on timing and healing phases as indicators of appropriate interventions. Indications, contraindications, and precautions of various interventions will be included.
Prerequisite: ATTR 3370 and ATTR 3369, or Departmental Approval.

ATTR 4375. Gen Med Conditions in Sport. 3 Hours.
Students will review the body systems and various injuries and illnesses commonly sustained during sport and physical activity. Emphasis will be placed on medical terminology, effective evaluation, diagnosis, care, referral, and return-to-activity guidelines.
Prerequisite: ATTR 3370.

Bassoon (BSSN)

BSSN 1201. Ind Performances-Bassoon. 2 Hours.

BSSN 3201. Ind Performances-Bassoon. 2 Hours.

BSSN 3202. Applied Bassoon W/ Jr Recital. 2 Hours.

Bilingual/Eng as Sec lang (BESL)

BESL 2301. Multicultural Infl On Learning. 3 Hours.
This course examines how the diversity of the United States influences classroom learning. Linguistic dialects, socio-economic status, and cultural diversity are among the factors examined in relation to the educational process.
Prerequisite: 30 hours.

BESL 3301. Second Language Acquistion. 3 Hours.
This course examines language acquisition theories and philosophies related to learning a second language from early childhood to adult. The course also examines the history, rationale, political, community and global perspectives of bilingual education and English as a second language programs. Emphasis is placed on the principles and implementation of how children learn a language or languages, and how educators can develop academic programs and curriculum plans incorporating local, state, and national policies. Field experiences in K-12 public schools may be required.

BESL 4088. Individual Problems in Bilingual Education and English as a Second Language Programs. 1-3 Hours.
This course is designed for persons interested in enhancing educational principles related to current bilingual and English as a second language issues. This course will address specific topics related to second language learning, methodologies, curriculum, instruction, evaluation, parent/community involvement, program design and field experiences.

BESL 4089. Independent Study in Bil/ESL/E. 1-3 Hours.

BESL 4301. Spanish Fluency In Classroom. 3 Hours.
This course is designed for persons interested in teaching in a Spanish instructional environment. Terminology specific to the instructional process, curriculum, and community is emphasized. Linguistic and cultural comparisons among different Spanish dialects represented in Texas are examined. The course is taught in Spanish.

BESL 4303. Cur In Bilgl & Sec Lang Progs. 3 Hours.
This course identifies appropriate curricula and teaching strategies to teach reading, language arts, mathematics, science and social studies to second language learners. Principles of current content area curriculum and instructional theory as related to language learning in a bilingual classroom are studied. This course is taught in Spanish. Field experiences in K-6 schools required. Taken concurrently with BESL 4304.
Prerequisite: 50 hours, BESL 3301 and TESL 4303.

BESL 4304. Lang Lrn Lit Dev In Mltlngl St. 3 Hours.
This course provides an intensive study of the theories of language learning and literacy development for students learning English as a second language. Processes and strategies on the development of oral language and reading in the first and second languages are emphasized. Taught in Spanish. Field experience in K-6 public schools required. Taken concurrently with BESL 4303.
Prerequisite: 50 hours, BESL 3301 and TESL 4303.

BESL 4305. Acad Lang in Dual Lang Prog. 3 Hours.
In this course students study formal academic language needed by bilingual educators with a focus on building content area vocabulary and appropriate terminology for teaching in dual language programs. Students engage in extensive practice in oral discourse, written expression, and the creation of culturally authentic didactic materials.
Prerequisite: BESL 4301.

BESL 4320. Stu Tchg In Bilngl/Esl Classrm. 3 Hours.
The EC-6 Bilingual Generalist candidate is assigned to student teaching in a bilingual/elementary classroom full time for approximately seven weeks.
Prerequisite: Admission to Student Teaching program.

Biology (BIOL)

BIOL 1401. Environmental Science. 4 Hours.
A general course designed to cover all areas relating to contemporary ecological problems. Topics include air, water, and soil pollution; radiation, limnology, climate, pesticides, wastes, and land conservation. This course is designed for non-science majors to help them meet their General Education science requirement, and as in introductory course in environmental science for ENVR majors. BIOL 1401 cannot be applied to either a major or a minor in Biology.
Prerequisite: Demonstrated college-level readiness in reading, writing, and math.

BIOL 1408. Contemporary Biology. 4 Hours.
Presentation for the non-science major of biological concepts and topical subjects related to science methods, embryological development, reproduction, genetics, evolution, human organ systems, disease, and environmental biology. Ethical considerations of reproduction and birth control, genetic engineering, environmental pollution and population control will be included. This course is designed for non-science majors to help them meet their General Education science requirement and cannot be applied to either a major or a minor in Biology. Includes a 2 hour lab. Fall, Spring, Summer. >b> .

BIOL 1411. General Botany. 4 Hours.
General principles of botany are presented. Emphasis is placed on morphology, taxonomy, genetics, physiology, and ecology of plants in an evolutionary and ecological context. Students may begin sequence with either BIOL 1411 or BIOL 1413. Includes a 3 hour lab. Fall, Spring, Summer.
Prerequisite: Demonstrated college-level readiness in reading, writing, and math.

BIOL 1413. General Zoology. 4 Hours.
General principles of zoology are presented in an evolutionary context. Emphasis is placed on the anatomy, behavior, and ecology of animals. Students are introduced to evolutionary and ecological principles of biology. Students may begin sequence with either BIOL 1411 or BIOL 1413. Includes a 3 hour lab. Fall, Spring, Summer.
Prerequisite: Demonstrated college-level readiness in reading, writing, and math.

BIOL 1436. Foundations Of Science. 4 Hours.
The course focuses on the nature of science as a reliable method of acquiring knowledge about the natural world. Students will learn how to apply key scientific facts, concepts, laws and theories to distinguish science from non-science, bad science, and pseudoscience by analyzing a variety of claims and case studies. By employing an innovative, interdisciplinary approach to science education, this course is designed to increase science literacy and critical thinking skills for introductory-level students. This course is designed for non-science majors to help them meet their General Education science requirement and cannot be applied to either a major or a minor in Biology. Students must enroll concurrently in the corresponding lab for this course. Includes a lab.
Prerequisite: Demonstrated college-level readiness in reading, writing, and math.

BIOL 2320. Sustainability and Environment. 3 Hours.
In this course, students will investigate and assess the impacts that human activity can have on the environment and will seek to identify innovative, cross-disciplinary solutions to many of the world's most pressing environmental challenges. Given that Sustainability Science involves making decisions and taking actions that are in the interest of protecting the natural world, course topics will include current sustainability issues related to population growth, agriculture, natural resources, energy usage, habitat degradation and ecological economics. This course will typically be offered every other fall semester.
Prerequisite: BIOL 1401.

BIOL 2401. Human Anatomy. 4 Hours.
This course deals with structure and form of the human body. It includes studies of cells, tissues, and organ systems. Registration is primarily for students in prenursing or majors in kinesiology or health. Two-hour laboratory. Fall, Spring. Credit in this course cannot be applied to either a major or minor in Biology.
Prerequisite: Demonstrated college-level readiness in reading, writing, and math.

BIOL 2402. Human Physiology. 4 Hours.
This course will help students identify and understand the function of several important human organ systems and how these systems maintain homeostasis. Topics and the mechanisms involving circulation, digestion, metabolism, muscle action and respiration will receive the most emphasis. This course is designed to emphasize a clinical knowledge of physiology and techniques required by students studying nursing, physical therapy, and related health fields. Two-hour laboratory. Fall and Spring. Demonstrated college-level readiness in reading, writing, and math.
Prerequisite: Minimum grade of C in BIOL 2401 and CHEM 1406 or CHEM 1306 and CHEM 1106 or CHEM 1411 or CHEM 1311 and CHEM 1111.

BIOL 2403. Human Anatomy & Physiology I. 4 Hours.
This course is the first course in a two-semester sequence that examines the systems of the human body using an integrated approach. Emphasis will be given to the study of cells and tissues, and the anatomical and physiological interrelationships of the skeletal, muscular, and nervous systems and special senses. Laboratory exercises will enhance the student?s appreciation and comprehension of the biological concepts of structure and function of the human body.
Prerequisite: Demonstrated college-level readiness in reading, writing, and math.

BIOL 2404. Human Anatomy & Physiology II. 4 Hours.
This course is the second course in a two-semester sequence that examines the systems of the human body using an integrated approach. Emphasis is placed on the study of the following systems: endocrine, cardiovascular, lymphatic and immune, respiratory, digestive, urinary, and reproductive. In addition this course requires in-depth application of topics related to cellular function and metabolism and of organ systems studied during Human Anatomy and Physiology I. Laboratory exercises will enhance the student?s appreciation and comprehension of the biological concepts of structure and function of the human body.
Prerequisite: Minimum grade of C in BIOL 2403 and demonstrated college-level readiness in reading, writing, and math.

BIOL 2420. Intro Applied Microbiology. 4 Hours.
An introduction to microorganisms, their morphology, growth requirements, methods of culture, and the manner in which they affect health. Reactions of the body toward pathogenic organisms and the principles of immunity and chemotherapy are considered. Two-hour laboratory. Fall, Spring. Credit in this course cannot be applied to a major or minor in Biology. Demonstrated college-level readiness in reading, writing, and math.
Prerequisite: Minimum grade of C in BIOL 2401 and BIOL 2402, and C or better in CHEM 1411 or CHEM 1406 or a C or better in CHEM 1111 and CHEM 1311 or CHEM 1106 and CHEM 1306.

BIOL 2440. Introductory Cell Biology. 4 Hours.
An introduction to the study of cells, including scientific methods, biochemistry, metabolism, cell energetics, membranes, cellular evolution, DNA, protein synthesis, the cytoskeleton, cell division, and the cellular basis of inheritance, with emphasis on the development of problem solving skills. Two-hour laboratory. Fall, Spring, Summer. Demonstrated college-level readiness in reading, writing, and math.
Prerequisite: Minimum grade of C in BIOL 1411, BIOL 1413, and CHEM 1311, CHEM 1111 or CHEM 1411.

BIOL 3364. Plant Taxonomy. 3 Hours.
A study of the characteristics and classification of plants emphasizing systematic techniques. Focus on identification of the more common plant families allows transfer of knowledge to other regions of the country and world. Two-hour laboratory. Spring. Demonstrated college-level readiness in reading, writing, and math.
Prerequisite: Minimum grade of C in BIOL 1311, BIOL 1111, BIOL 1313, BIOL 1113.

BIOL 3390. Science Teaching Methods. 3 Hours.
In this course, students seeking the Composite Science teaching certification for the 7th through 12th grade level examine topics related to science teaching pedagogies. Topics include relevant concepts and literature regarding the nature of science, the planning and implementation of scientific investigations and activities, theory-grounded lesson construction and implementation, the use of equipment and technology, and the implementation of safety practices in laboratory settings.
Prerequisite: BIOL 1413, BIOL 2440, CHEM 1411, CHEM 1412, GEOG 1401, GEOL 1403, GEOL 1404, PHYS 1301/1101, PHYS 1302/1102 or instructor approval.

BIOL 3409. General Ecology. 4 Hours.
A study of physical and biotic components of the environment, responses of organisms to their environment, community ecology, natural ecosystems, and human?s interaction with ecosystems. Field studies are an integral part of the laboratory. Three-hour laboratory and field work. Fall, Spring. Demonstratedcollege-level readiness in reading, writing, and math.
Prerequisite: Minimum grade of C in BIOL 1411 and 1413.

BIOL 3410. Human Biology. 4 Hours.
This course deals with the study of structure and function of the human body. The structure of various organ systems are discussed and their function as organs and systems described.Two-hour laboratory as needed. Fall, Spring. This course may not be used for graduation credit by Medical Allied Health Students. Demonstrated college-level readiness in reading, writing, and math.
Prerequisite: Minimum grade of C in BIOL 1311, BIOL 1111, BIOL 1313, BIOL 1113, BIOL 2440.

BIOL 3420. Comparative Vertebrate Anatomy. 4 Hours.
A study of representative vertebrates, their anatomy, ontogeny, and phylogeny. The course is strongly recommended for premedical/professional students. Three-hour laboratory. Fall. Demonstrated college-level readiness in reading, writing, and math.
Prerequisite: Minimum grade of C in BIOL 1411 and BIOL 1413 or consent of the instructor.

BIOL 3430. Plant Physiology. 4 Hours.
General course dealing with principal life processes of plants. Topics include photosynthesis, respiration, nutrition, flowering, dormancy, hormones, growth, and development. Three-hour laboratory. Even year, Spring. Demonstrated college-level readiness in reading, writing, and math.
Prerequisite: Minimum grade of C in BIOL 1311, BIOL 1111, BIOL 1313, BIOL 1113, BIOL 2440, CHEM 1311, CHEM 1111 or CHEM 1411 and CHEM 1312, CHEM 1112 or CHEM 1412.

BIOL 3440. General Physiology. 4 Hours.
The study of the primary mechanisms by which autotrophic and heterotrophic organisms function. Important fundamental aspects of cellular, regulatory, and systemic physiology are presented emphasizing the functional aspect of living systems at the cellular and molecular levels. Students are expected to develop an integrated understanding of the areas presented and recognize the interdependence of these mechanisms in the maintenance of homeostasis. Three-hour laboratory. Spring. Demonstrated college-level readiness in reading, writing, and math.
Prerequisite: Minimum grade of C in BIOL 1411, BIOL 1413, BIOL 2440, CHEM 1411, CHEM 1412, CHEM 2323, CHEM 2123.

BIOL 3450. Introductory Genetics. 4 Hours.
Study is made of the physical bases of inheritance and principles of heredity and variation. Topics include Mendelian genetics, cytogenetics, molecular basis of genetics, gene expression and regulation, and DNA technologies. Two-hour laboratory. Fall, Spring. Demonstrated college-level readiness in reading, writing, and math.
Prerequisite: Minimum grade of C in BIOL 2440, CHEM 1311, CHEM 1111 or CHEM 1411 and CHEM 1312, CHEM 1112 or CHEM 1412.

BIOL 3460. Pathophysiology. 4 Hours.
A study of basic physiological systems and underlying system dysfunctions associated with human disease processes across the life span. Relationships between etiologic agents and their consequence to human form and function will be stressed. Critical thinking processes integrating symptoms, treatment and prognosis will be applied to physiological perspectives. Four hours lecture per week. Spring. Demonstrated college-level readiness in reading, writing, and math.
Prerequisite: Minimum grade of C in BIOL 2440.

BIOL 3461. Fish Wildlife Recreation Mngt. 4 Hours.
The history and basic principles, philosophy and concepts of wildlife management as they relate to habitats, people, and the problems associated with their interactions. Three-hour laboratory and field work. Spring. Demonstrated college-level readiness in reading, writing, and math.
Prerequisite: Minimum grade of C in BIOL 1311, BIOL 1111, BIOL 1313, BIOL 1113, and BIOL 3409.

BIOL 3470. General Microbiology. 4 Hours.
An introduction to microorganisms including bacteria, viruses and fungi. Major areas considered are morphology, physiology, genetics, and pathology. Microorganisms are studied in relation to soil, water, food, industrial processes, and disease. Three-hour laboratory. Fall, Spring. Demonstrated college-level readiness in reading, writing, and math.
Prerequisite: Minimum grade of C in BIOL 1411, 1413, 2440, CHEM 1312/1112 or CHEM 1412.

BIOL 3480. Developmental Biology. 4 Hours.
This is a study of the early development of representative vertebrates from fertilization until differentiation of organs has been completed. Two-hour laboratory. Even year, Fall. Demonstrated college-level readiness in reading, writing, and math.
Prerequisite: Minimum grade of C in BIOL 1311, BIOL 1111, BIOL 1313, BIOL 1113, BIOL 2440.

BIOL 3490. Histology. 4 Hours.
A study of animal tissues with emphasis on human materials. Identification and preparatory techniques are stressed. Three-hour laboratory as needed. Spring. Demonstrated college-level readiness in reading, writing, and math.
Prerequisite: Minimum grade of C in BIOL 1311, BIOL 1111, BIOL 1313, BIOL 1113, BIOL 2440, CHEM 1312, CHEM 1112 or CHEM 1412.

BIOL 3492. Plant Morphology. 4 Hours.
Survey of the plant kingdom with emphasis on morphogenesis, comparative structure and life cycles of representative plant forms. Three-hour laboratory. Fall, Summer. Demonstrated college-level readiness in reading, writing, and math.
Prerequisite: Minimum grade of C in BIOL 1311, BIOL 1111, BIOL 1313, BIOL 1113, and BIOL 2440.

BIOL 4080. Field and Experiential Biology. 1-3 Hours.
This course provides students with an informative, stimulating, and hands-on introduction to field biology and field research. This course introduces undergraduate students to field methods and to the ecology and natural history of a particular geographic region. This course consists of two parts: a weekly seminar during the semester that introduces and discusses the geographic region and ecological system (i.e. the Florida Everglades), and an off-campus field trip to that location during a semester break. Spring, Summer. Demonstrated college-level readiness in reading, writing, and math.
Prerequisite: Approval of Instructor.

BIOL 4095. Undergrad Rsrch Tpcs-Biology. 4 Hours.
This course is designed to allow selected, advanced students in specific areas of biology to participate directly in biological research. The research project will be developed jointly by the student and a faculty mentor, and must be pre-approved by the Chair of the Department of Biological Sciences. Variable Credit (1-4). Demonstrated college-level readiness in reading, writing, and math. This course may be taken for Academic Distinction Credit. See Academic Distinction Catalog Program in this Catalog.
Prerequisite: Biology major, minimum Junior standing.

BIOL 4096. Spcl Topics In Undergrad Bio. 3 Hours.
This course of faculty-led study is designed to provide exposure of undergraduate students to new biological topics and concepts in a course setting, prior to that course's formal Department, College, and University course adoption. This course may be repeated for different Special Topics (different courses). Variable Credit (1-4). Demonstrated college-level readiness in reading, writing, and math. This course may be taken for Academic Distinction Credit. See Academic Distinction Catalog Program in this Catalog.
Prerequisite: Biology major, minimum Junior standing.

BIOL 4110. Undergraduate Seminar. 1 Hour.
Discussions of current literature in the biological sciences. Required of senior Biology majors. Fall, Spring. Demonstrated college-level readiness in reading, writing, and math.
Prerequisite: Biology major, Senior standing.

BIOL 4111. Undergraduate Seminar. 1 Hour.
Discussions of current research presented by faculty participating in the Department of Biological Sciences weekly seminar series. Demonstrated college-level readiness in reading, writing, and math.
Prerequisite: Biology major, Senior standing.

BIOL 4306. Philosophy Of Biology. 3 Hours.
This course will help the student understand the philosophical issues associated with defining and applying theoretical terms and constructs within evolutionary biology. Even year, Spring. advanced biology, and Junior standing. Demonstrated college-level readiness in reading, writing, and math.
Prerequisite: Minimum grade of C in BIOL 1311, BIOL 1111, BIOL 1313, BIOL 1113, BIOL 2440, and 8 hrs.

BIOL 4320. Environmental Toxicology. 3 Hours.
(Also listed as ENVR 4320). This course presents basic toxicology as a qualitative and quantitative science of the effects of poisons (toxins) upon the environment, individuals, and populations. The course will also provide a comparison of the toxicology of human and other species? exposure to common environmental contaminants. Two one-hour lectures and one two-hour laboratory as needed. CHEM, and Junior standing. Demonstrated college-level readiness in reading, writing, and math.
Prerequisite: BIOL 1411, BIOL 1413, and BIOL 2420 or BIOL 3470; MATH 3379 or BIOL 4374; 8 hrs.

BIOL 4330. Aquatic Biology. 3 Hours.
Physical, chemical, and biological features of inland waters; organisms of freshwater; factors in biological productivity; methods and equipment. Largely a field course dealing with various approved methods of studying freshwater systems. This course is designed to meet the needs of chemists, teachers of science, biologists, and environmental scientists. Two-hour laboratory. Spring. Demonstrated college-level readiness in reading, writing, and math.
Prerequisite: Minimum grade of C in BIOL 1411 and BIOL 1413 and Junior standing.

BIOL 4350. Immunology. 3 Hours.
Humoral and cell-mediated immunobiology, genetics, and chemistry are considered along with immunoanalyses and pathologies. Spring. Demonstrated college-level readiness in reading, writing, and math.
Prerequisite: Minimum grade of C in BIOL 2323, BIOL 2123 and Junior standing.

BIOL 4360. Genetic Anlys of Human Disease. 3 Hours.
(Prior SH course id: BIO 436); A study of the transmission and molecular basis of human genetic traits and genetic diseases. Various simple and complex genetic disorders will be examined using pedigree, molecular, and biochemical analyses. Novel approaches to the diagnosis and treatment of human genetic disorders will be discussed. Special topics examining the ethical, legal, and social issues and concerns of genetic testing and discrimination, germ line therapy, genetic enhancement, and human cloning will be examined. Spring. Demonstratedcollege-level readiness in reading, writing, and math.
Prerequisite: Minimum grade of C in BIOL 3450, and Junior standing.

BIOL 4361. Introductory Evolutionary Bio. 3 Hours.
Evolution is the core theory of modern biology. Students will be introduced to the major principles of evolutionary biology, from the history of evolutionary thought through theory and current concepts of evolution. Emphasis will be placed on molecular and cellular evolution, mechanisms of evolution including natural selection, gene flow, founder effect, and speciation. Fall, Spring. advanced biology, and Junior standing. Demonstrated college-level readiness in reading, writing, and math.
Prerequisite: Minimum grade of "C" in BIOL 1411, BIOL 1413, BIOL 2440 and 8 hrs.

BIOL 4362. Paleobiology. 3 Hours.
This course examines temporal and spatial changes of life on earth in an evolutionary context, particularly large scale events such as radiations and extinctions. Emphasis is placed on anatomy and taxonomy of fossil invertabrates and vertabrates. The laboratory component encompasses the collection, preparation, and description of a variety of fossil types.
Prerequisite: Minimum grade of C in BIOL 1311, BIOL 1111 and BIOL 1313, BIOL 1113, or permission of the instructor.

BIOL 4363. Genomics and Bioinformatics. 3 Hours.
This course will discuss advances in genomics and bioinformatics. Students will study computational and bioinformatic approaches to understand the genome structure, function, and evolution. Topics will include DNA sequencing, sequence assembly, gene and protein sequence alignments, whole genome comparison, annotation of DNA sequences, promoter analysis, transcriptomics, proteomics, and phylogenetic analysis.
Prerequisite: Minimum grade of C in BIOL 3450, and Junior standing.

BIOL 4370. Microbial Ecology. 3 Hours.
This course introduces the student to basic ecological concepts through the study of microbial communities. Interactions at the microscopic and macroscopic levels will be discussed along with biogeochemical cycles. Bioremediation concepts will also be explored. Two one-hour lectures and one three-hour laboratory as needed. Demonstrated college-level readiness in reading, writing, and math.
Prerequisite: BIOL 1311, BIOL 1111, BIOL 1313, BIOL 1113, BIOL 2440, and BIOL 2420 or BIOL 3470, CHEM 2125 and CHEM 2325, and Junior standing.

BIOL 4374. Biostatistics. 3 Hours.
This course includes an introduction to statistical methods and their application to real biological problems. Topics include descriptive statistics, probability distributions, estimation, hypothesis testing, correlation and regression, and analysis of variance. Use of the computer in statistical analyses will also be stressed. Fall. advanced biology, MATH 1314 or MATH 1420 and Demonstrated college-level readiness in reading, writing, and math.
Prerequisite: 8 hrs.

BIOL 4380. Medical Microbiology. 3 Hours.
An advanced study of the microorganisms that cause disease and of the disease processes with focus on bacteria and viruses. Emphasis will be placed on pathology, epidemiology and treatment/prevention of specific infectious diseases of medical importance. Spring. Demonstrated college-level readiness in reading, writing, and math.
Prerequisite: Minimum grade of C in BIOL 3470 and Junior standing or consent of the instructor.

BIOL 4394. Biological Sciences Internship. 3 Hours.
A supervised, off-campus intern work experience in an approved area of the biological sciences with business, industry or government. This elective course provides the student with direct professional work experience in such areas as biotechnology, biomedical research, ecological assessment, wildlife biology, and science/nature education. Academic credit is based on a written technical report and an oral presentation. Writing enhanced. of advanced biology, Junior standing, 3.0 GPA and approval of Department Chair.
Prerequisite: Biology major, 6 hrs.

BIOL 4398. Senior Thesis I. 3 Hours.
In this class, a student works under close faculty supervision on a sustained research project to produce a thesis proposal. Project topics will vary based on advisor's research expertise. Students will gain hands on experience in conducting research and scientific writing. Successful completion of BIOL 4398 and BIOL 4399 may qualify the student to graduate with Academic Distinction (see the undergraduate catalog for additional requirements of the Academic Distinction Program).
Prerequisite: Senior standing and approval of the department chair.

BIOL 4399. Senior Thesis II. 3 Hours.
Students in this course work under close faculty supervision on a sustained research project to produce a thesis. Project topics will vary based on advisor's research expertise. Students will gain hands-on experience in conducting research and scientific writing. Sucessful completion of BIOL 4398 and BIOL 4399 may qualify the student to graduate with Academic Distinction (see the undergraduate catalog for additional requirements of the Academic Distinction Program).
Prerequisite: Minimum grade of B in BIOL 4398 and approval of the department chair.

BIOL 4410. General Entomology. 4 Hours.
A study is made of insect morphology, taxonomy, development, and life histories. Collection and identification by use of keys are stressed. Two-hour laboratory. Spring. Junior standing. Demonstrated college-level readiness in reading, writing, and math.
Prerequisite: Minimum grade of C in BIOL 1311, BIOL 1111, BIOL 1313, BIOL 1113, and BIOL 2440.

BIOL 4430. Vertebrate Natural History. 4 Hours.
This course deals with the taxonomy, natural history, and ecology of vertebrates. Laboratories emphasize the identification of Texas Vertebrates and field techniques used in their study.Two-hour laboratory. Spring. Demonstrated college-level readiness in reading, writing, and math.
Prerequisite: Minimum grade of C in BIOL 1311, BIOL 1111, BIOL 1313, BIOL 1113, and Junior standing.

BIOL 4460. Parasitology. 4 Hours.
Morphology, life cycles, physiological adaptations, evolution, and distribution of parasitic animals. Three-hour laboratory. Fall. Demonstrated college-level readiness in reading, writing, and math.
Prerequisite: Minimum grade of C in BIOL 1411 and BIOL 1413, and Junior standing.

BIOL 4470. Animal Behavior. 4 Hours.
A study of the mechanisms and functional explanations of behavior. Experimental approaches to addressing questions of behavior will be emphasized. Topics will include behavioral genetics, neuroethology, migration, habitat selection, foraging, communication, social behavior, reproductive strategies, and human sociobiology. Field studies and independent projects will be integral components of this course. Two-hour laboratory. Fall. Demonstrated college-level readiness in reading, writing, and math.
Prerequisite: Minimum grade of C in BIOL 1411 and BIOL 1413 and Junior standing.

BIOL 4471. Invertebrate Zoology. 4 Hours.
This course will explore the diversity of invertebrate types morphologically, embryologically and physiologically. The ecological role of invertebrates will be emphasized. Two-hour laboratory. Even year, Fall. Demonstrated college-level readiness in reading, writing, and math.
Prerequisite: Minimum grade of C in BIOL 1311, BIOL 1111, BIOL 1313, BIOL 1113, BIOL 2440 and Junior standing.

BIOL 4480. Molecular Biology. 4 Hours.
A hands-on study of the structure and function of molecules important for the Central Dogma of molecular biology, including DNA and protein, with emphasis on electrophoretic analysis and gene cloning. Three-hour laboratory. Fall, Spring. Demonstrated college-level readiness in reading, writing, and math.
Prerequisite: Minimum grade of C in BIOL 1411, BIOL 1413, BIOL 2440, BIOL 3450, BIOL 3470, CHEM 2125 and CHEM 2325, and Junior Standing.

BIOL 4481. Physiological Ecology. 4 Hours.
This course is a study of the functional processes of organisms within the context of ecological and evolutionary theory, focusing on mechanisms of organismal function, energetics, and the energetic consequences of homeostasis when function is influenced by the environment and other ecological and evolutionary processes. This course is designed for students preparing for graduate studies in integrative biology and does not meet the physiology requirement or recommendation for physiology of medial/dental or allied health programs. Three-hour laboratory. Spring. Demonstrated college-level readiness in reading, writing, and math.
Prerequisite: Minimum grade of C in BIOL 3450, BIOL 3409, Concurrent enrollment allowed; Junior standing.

BIOL 4490. Cell Biology. 4 Hours.
A study of eukaryotic cell structure and function, including protein synthesis, membrane structure and function, intracellular trafficking, cell communication, cell motility, mitosis, and cell cycle control, with emphasis on the use of model organisms. Three-hour laboratory. Fall. Demonstrated college-level readiness in reading, writing, and math.
Prerequisite: Minimum grade of C in BIOL 1411, BIOL 1413, BIOL 2440, BIOL 3450, CHEM 1311, CHEM 1111 or CHEM 1411 and CHEM 1312, CHEM 1112 or CHEM 1412, and Junior standing.

BIOL 4493. Endocrinology. 4 Hours.
This course is designed to familiarize the student with the structure, development, comparative anatomy, and physiology of the endocrine system. Two-hour laboratory. Spring, or as needed. Demonstrated college-level readiness in reading, writing, and math.
Prerequisite: Minimum grade of C in BIOL 3450 and Junior standing.

Business Administration (BUAD)

BUAD 1011. PGA/PGM Professional Dev Lab. 1-3 Hours.
This course is designed to guide students through the completion of the Level 1 materials of the PGA of America Professional Golf Management Program. Only available to students enrolled in the PGA/PGM program. May be repeated for a maximum of 8 academic credit hours. Variable credit (1 to 3).

BUAD 1301. Bus Prin in Intrnatl Envrnmnt. 3 Hours.
A survey course of all the major business disciplines with an emphasis on helping define career objectives and supporting academic interest areas. An overview of what is involved in accounting, marketing, management, legal aspects of business, economics and finance. An ideal choice for non-business majors wanting to learn of opportunities in business and how to pursue them. Not open to business majors with junior or senior standing.

BUAD 1305. Electronic Communications Tech. 3 Hours.
This course is designed to develop student proficiency with business software. These skills include producing properly formatted business documents and reports, creating computerized spreadsheets for problem-solving and decision-making, and as a tool for preparing effective presentations.

BUAD 2189. Pga/Pgm Internship. 1 Hour.
A course designed to provide the student with an initial opportunity to apply academic skills in a practical work environment as required to complete the PGA/PGM Program. (See Internship Coordinator prior to enrolling.) All internships must be approved in advance in order to receive credit. The course may be repeated for a maximum of 2 hours of academic credit and is only available to students enrolled in PGA/PGM program.

BUAD 2301. Business Legal Environment. 3 Hours.
This course covers legal environment from a "preventive law", practical perspective. Specific subjects include: Litigation, Alternative Dispute Resolution, Torts, Business Organizations, Real and Personal Property Law. The course provides an introduction to Environmental Law, Consumer Law, Securities Law, Human Resources Management Law (Labor Law), and Marketing Law (Anti-Trust).

BUAD 2321. Dsgn/Presentation Bus.Projects. 3 Hours.
The focus of this course is designing and delivering effective business presentations. Topics include planning, developing, organizing, and delivering business presentations. Students will design/develop effective visual aids which will be used in their business presentations using computer-assisted software..
Prerequisite: 30 hours.

BUAD 3069. Adv PGA/PGM Professional Dev. 1-3 Hours.
This course is designed to guide students through the completion of the Levels 2 and 3 materials of the PGA of America's Professional Golf Management Program. Only available to students enrolled in the PGA/PGM program. May be repeated for a maximum of 6 academic credit hours. Variable credit (1 to 3).

BUAD 3189. Pga/Pgm Internship III. 1 Hour.
A course designed to provide the student with additional opportunity to apply academic skills in a practical work environment as required to complete the PGA/PGM Program. (See Internship Coordinator prior to enrolling.) All internships must be approved in advance in order to receive credit. The course is only available to students enrolled in PGA/PGM program.

BUAD 3335. Business Communication. 3 Hours.
Students will develop skills required to use communications as a business tool and a personal skill with emphasis on the logical development of routine, written messages, and reports..
Prerequisite: ENGL 1302 and 50 hours.

BUAD 3336. Successful Workplace Relations. 3 Hours.
This course is designed to provide the foundation for the development of successful workplace relationships. The course includes an overview of social and emotional intelligence skills that are most commonly used by successful business professionals. Skills are introduced for managing personal ethics, conflict, and trust, which are essential for managing and leading in the business environment. Credit: 3.

BUAD 3338. Entrepreneurial Law. 3 Hours.
This course is an examination of the major legal issues confronting entrepreneurs and owners of small businesses. The course presents an overview of the legal issues, strategies and documents required to start a new business, raise capital and manage legal and civil liability. An assortment of legal documents, such as employment contracts, sales contracts, insurance contracts, and shareholder agreements will be examined. Procedures to protect intellectual property will also be addressed.

BUAD 3345. Entreprenuership I- Startup. 3 Hours.
Provides an overview of theories of entrepreneurship, the process of creating wealth, and public policies that encourage new venture formation and economic growth.

BUAD 3355. Business Law. 3 Hours.
The focus of this course is on areas of modern commercial law as needed by business professionals in conducting business transactions in buying and selling goods and services. Common Law Contracts and negotiation strategies are presented. An examination of the Uniform Commercial Code includes Sales Law, Leasing, Commercial Paper - Negotiable Instruments, Commercial Storage and Distribution of Goods, and Transfer of Securities. Creditor?s rights and U.S. Federal Bankruptcy Code are also covered.

BUAD 3357. Financial Compliance and Regulations. 3 Hours.
This course covers current financial and banking industry regulations critical to effective financial and banking management. Emphasis will be placed on how to create a compliance program that is in accordance with both state and federal regulatory agencies.
Prerequisite: Junior standing.

BUAD 3360. Human Resources Mgt Law. 3 Hours.
Designed for those seeking management positions and human resource management specialists, this course covers employment law with particular emphasis on Federal Laws on discrimination, compensation and promotion issues, worker safety, and employment benefits. Taught from a ? preventive law? perspective, students acquire skills needed to keep abreast of the changing legal environment for employers and employees. Sexual harassment, affirmative action, workers compensation, worker safety and practical overview of employment manuals and procedures provide valuable information for future employees, managers or business owners.
Prerequisite: 50 credit hours.

BUAD 3365. Real Estate Law. 3 Hours.
This course covers the legal aspects of real estate including the legal principles and legal instruments used in real estate transactions.

BUAD 4080. Independent Study. 1-3 Hours.
An opportunity for the student to design a course, perhaps on a topic not offered or to more deeply investigate a subject of personal interest. A faculty member will be teamed up on a one-to-one basis to customize a project. Variable Credit (1-3).
Prerequisite: Consent of the department chair.

BUAD 4085. Special Topic. 1-3 Hours.
This course of faculty-led study is designed to provide undergraduate students exposure to new General Business topics and concepts in a course setting. Variable credit (1-3).

BUAD 4289. Pga/Pgm Internship IV. 2 Hours.
A course designed to provide the student with an opportunity to apply advanced academic skills in a practical work environment as required to complete the PGA/PGM Program. (See Internship Coordinator prior to enrolling.) The course is only available to students enrolled in PGA/PGM program.

BUAD 4325. Negotiation in Business. 3 Hours.
The focus of this course is effective business negotiation. Students will plan and execute negotiations in and outside the classroom. The course includes an overview of theoretical and tactical skills used to make professional business negotiations, and other elements that are essential for managing and leading in the business environment.
Prerequisite: None.

BUAD 4335. Intercultural Business Comm. 3 Hours.
This course prepares students for the complex leadership roles and communication tasks they will encounter in an increasingly multicultural, global work environment. The course familiarizes students with the cultural impacts on global business; managing culturally diverse work forces, transitions, relocations, diversity and performance; and explores cultural specifics of various countries.

BUAD 4340. International Business Law. 3 Hours.
An overview of the international legal environment from a commercial and entrepreneurial perspective. This course examines the implications of international laws on foreign investment, intellectual property, sales contracts, money and banking, financing of enterprises, labor regulation and hiring, taxation, and dispute settlement.

BUAD 4345. Entrepreneurship II - Growth. 3 Hours.
This course covers the growth and harvest/exit phases of an entrepreneurial business. It focuses on the challenges faced by such businesses as they move beyond startup. Students learn how to create value by growing a business profitable, and how to harvest the value through an appropriate exit strategy.
Prerequisite: BUAD 3345.

BUAD 4348. Entrepreneurship III - Cases. 3 Hours.
Designed for the aspiring entrepreneur or for those who are curious as to how wealth is created in a free market economy, this course provides a practical experience of how to evaluate business opportunities, how ventures are started with little or no capital, how wealth is realized, and how to develop innovative entrepreneurial skills and planning techniques to minimize the cost of experience. By the end of the course, students develop their own Personal Entrepreneurs Plan useful in focusing the direction of their personal careers.
Prerequisite: BUAD 3345.

BUAD 4389. Internship. 3 Hours.
A course designed to provide the student with an opportunity to apply academic skills in a practical work environment. (See Internship Coordinator prior to enrolling.) All internships must be approved in advance in order to receive credit. The course may be repeated one time for a maximum of 6 hours.

Business Analysis (BANA)

BANA 2372. Business Analysis. 3 Hours.
This course is an introduction to the use of quantitative business techniques. Students will learn the following topics in this course: organizing and presenting data, descriptive statistics, probability, discrete and continuous distributions, systems of equations, modeling, optimization procedures, and statistical inference.
Prerequisite: MATH 1324 or MATH 1420 or MATH 1314.

BANA 3363. Inter Business Analysis. 3 Hours.
This course is a continuation of BANA 2372 and is designed to introduce the use of statistics as a business tool in the face of incomplete knowledge. Students will learn the following topics in this course: estimation, hypothesis testing, analysis of variance, goodness-of-fit measures, correlation, simple and multiple regression.
Prerequisite: 50 Completed hours and BANA 2372.

BANA 3364. Operations Research. 3 Hours.
In this course, students will learn quantitative methods used in the analysis of business problems. Topics include: decision theory, linear programming, transportation and inventory models, Bayesian probability, and queuing theory.
Prerequisite: 50 Completed hours and BANA 2372.

BANA 4080. Independent Study. 3 Hours.

BANA 4365. Intro To Bus Forecasting& Econ. 3 Hours.
In this course, students will apply statistical methods for business and economic forecasting and for hypothesis testing, estimation, and analyzing economic data.
Prerequisite: 50 Completed hours and ECON 2301, ECON 2302, and BANA 3363.

Career and Technology (CATM)

CATM 4360. Work-Based Mentorship. 3 Hours.
Designed to provide students with the opportunity to gain specialized work-based experiences. Credit 1-9. May be repeated or taken concurrently to a maximum of 9 hours. Department Approval required.
Prerequisite: Junior or senior standing.

Chemistry (CHEM)

CHEM 1105. Chemistry in Context Lab. 1 Hour.
Laboratory for CHEM 1305. Concurrent enrollment in CHEM 1305 is recommended.

CHEM 1305. Applying Chemistry to Society. 3 Hours.
Chemical phenomena, concepts and principles are explored within the context of the role of science and technology in society. A life-centered approach rather than a subject-centered one has been employed in the development of course curriculum. This course is specifically designed to satisfy the natural science core requirement of students who are not specializing in science. Concurrent enrollment in CHEM 1105 is recommended.

CHEM 1406. Inorganic & Envir Chemistry. 4 Hours.
The elements and their compounds are considered from a non-technical standpoint with emphasis placed on more familiar materials. Two-hour laboratory. This course is for non-science majors.

CHEM 1407. Intro Organic and Biochemistry. 4 Hours.
An orientation in organic chemistry is given in the first part of the course to allow treatment of the chemistry of nutrition and other biochemical aspects given in the last part. Two-hour laboratory. This course is for non-science majors.
Prerequisite: CHEM 1406, CHEM 1411, or completion of a high school chemistry course.

CHEM 1411. General Chemistry I. 4 Hours.
The following topics are studied: chemical changes and laws governing them; nomenclature; introduction to thermodynamics; reactions involving oxygen, hydrogen, acids, bases, and salts; ionization; metathesis; the periodic table, and atomic and molecular structure. Three-hour laboratory. This course is for chemistry and other science majors. Fall, Spring, Summer I.
Prerequisite: Minimum grade of C in MATH 1410, MATH 1314, MATH 1324 or MATH 2384 or equivalent, or a minimum Math score of 23 on the ACT or 560 on the SAT (580 on new SAT) or equivalent.

CHEM 1412. General Chemistry II. 4 Hours.
Descriptive chemistry, gas laws, equilibria, kinetics, thermodynamics, electrochemistry, and oxidation-reduction reactions are presented. Three-hour laboratory. Fall, Spring, Summer II.
Prerequisite: A minimum grade of C in CHEM 1411.

CHEM 2123. Organic Chemistry I Lab. 1 Hour.
Laboratory for CHEM 2323. Fall, Spring, Summer I.
Prerequisite: A minimum grade of C in CHEM 1411, CHEM 1412, and prior credit for or concurrent enrollment in CHEM 2323.

CHEM 2125. Organic Chemistry II: Lab. 1 Hour.
Laboratory for CHEM 2325. Fall, Spring, Summer II.
Prerequisite: A minimum grade of C in CHEM 1411,CHEM 1412, CHEM 2123, CHEM 2323, and prior credit for or concurrent enrollment in CHEM 2325.

CHEM 2323. Organic Chemistry I: Lecture. 3 Hours.
A study of chemical bonding and structure of organic molecules is made. Functional group reactions and syntheses are emphasized. Reaction mechanisms, nomenclature and isomerism are studied. Fall, Spring, Summer I.
Prerequisite: A minimum grade of C in CHEM 1411 and CHEM 1412.

CHEM 2325. Organic Chemistry II: Lecture. 3 Hours.
The general plan of CHEM 2323 is continued. Fall, Spring, Summer II.
Prerequisite: A minimum grade of C in CHEM 1411, CHEM 1412, CHEM 2323, and CHEM 2123.

CHEM 2401. Quantitative Analysis. 4 Hours.
The fundamental principles of quantitative analysis are emphasized. Acid-base, complexometric, precipitation, and redox titrations, solution equilibria and spectrophotometric analysis are discussed. Laboratory exercises involve all types of volumetric procedures and colorimetric analysis. Four-hour laboratory. Fall, Spring.
Prerequisite: A minimum grade of C in CHEM 1411, CHEM 1412.

CHEM 3339. Biochemistry II. 3 Hours.
This course is a study of the bioenergetics associated with the metabolic pathways and processes. The metabolism of carbohydrates, lipids, proteins, and nucleic acids; the interrelationship of the metabolic pathways; and the regulation of metabolism are emphasized. Spring.
Prerequisite: A minimum grade of C in CHEM 1411, CHEM 1412, CHEM 2323, CHEM 2123, CHEM 2325, CHEM 2125 and CHEM 3438.

CHEM 3361. Discoveries In Chm & Textiles. 3 Hours.
Attention will be focused on early scientists, the times in which they worked, important aspects of their efforts, and how their research continues to impact us today. Lectures will occur in the geographical areas where their work took place. Odd years during the Spring/Summer I break.
Prerequisite: CHEM 1406 or CHEM 1411, junior standing, and permission of the instructor.

CHEM 3367. Intro Inorganic Chemistry. 3 Hours.
General principles of inorganic chemistry are presented with a descriptive and practical rather than mathematical approach. Periodic relationships of elements and bonding, reactions and synthesis of inorganic compounds, acid-base chemistry are studied. Fall.
Prerequisite: A minimum grade of C in CHEM 1411, CHEM 1412, CHEM 2323.

CHEM 3368. Environmental Chemistry. 3 Hours.
The chemical principles underlying the effects of air, water, and soil pollution are covered. Specific attention is paid to gas phase radical reactions, light absorption characteristics of atmospheric components, solution chemistry of fresh and salt water systems, and the mobility and chemistry of metal components of soil systems. Spring even years.
Prerequisite: A minimum grade of C in CHEM 1411, CHEM 1412, CHEM 2401, CHEM 2323 and CHEM 2325 (or concurrent enrollment in CHEM 2325).

CHEM 3438. Biochemistry I. 4 Hours.
The chemistry and functions of carbohydrates, lipids, proteins, enzymes, nucleic acids and vitamins; enzyme kinetics; the processes of and mechanisms of digestion and absorption; and biological buffers are studied. Four-hour laboratory. Fall, Summer.
Prerequisite: A minimum grade of C in CHEM 1411, CHEM 1412, CHEM 2323, CHEM 2123, CHEM 2325, CHEM 2125.

CHEM 4001. Directed Study In Chemistry. 1 Hour.
A directed study for undergraduates. This course is designed to allow independent study by advanced students. Instruction is on an individual basis. Variable Credit (1-3).
Prerequisite: A minimum grade of C in CHEM 2325 and approval of department chair.

CHEM 4100. Chemical Literature Seminar. 1 Hour.
Methods of searching the literature in chemistry are presented. Emphasis is placed on the use of Chemical Abstracts, Beilstein, chemical patent literature, journals, and reference collections in the several specialties of chemistry. Fall, Spring.
Prerequisite: Junior standing in chemistry.

CHEM 4260. Advanced Integrated Laboratory. 2 Hours.
This course will involve in-depth experiments that require the use of sophisticated synthetic and analytical procedures in the areas of organic, inorganic or analytical chemistry. Spring.
Prerequisite: A minimum grade of C in CHEM 1411, CHEM 1412, CHEM 2323, CHEM 2123, CHEM 2325, CHEM 2125, CHEM 4448.

CHEM 4367. Advanced Inorganic Chemistry. 3 Hours.
Properties of atoms and ions, bonding theory and structure, acid-base theory, reactions of inorganic compounds, nonaqueous solvents, and coordination chemistry are studied. Emphasis is on the underlying theoretical concepts involved. Spring.
Prerequisite: A minimum grade of C in CHEM 1411, CHEM 1412, CHEM 2323, CHEM 2123, CHEM 2325, CHEM 2125, CHEM 4448.

CHEM 4380. Forensic Chemistry. 3 Hours.
This is a one semester course focused on surveying important aspects of chemistry to forensic inquiries. Focus will be on the validity of results. Techniques and methods for selecting proper techniques to answer various questions will be discussed. Spring.
Prerequisite: A minimum grade of C in CHEM 1411, CHEM 1412, CHEM 2323, CHEM 2123, CHEM 2325, CHEM 2125, CHEM 4440 and CHEM 4367 (or concurrent enrollment in CHEM 4367); MATH 1420.

CHEM 4395. Undergrad Research In Chem. 3 Hours.
This course acquaints the senior student with techniques used in simple research problems. May be repeated for an additional three semester hours by those students having a definite project to complete. This course may be taken for Academic Distinction Credit. See Academic Distinction Program in this catalog.
Prerequisite: Student must have a minimum of 20 semester hours in chemistry and consent of the Department Chair.

CHEM 4440. Instrumental Analytical Chem. 4 Hours.
Spectrophotometry, separation techniques and mass spectrometry are discussed. Specific topics include the computer's use in the modern laboratory, ultraviolet and visible absorption, atomic absorption, flame emission, and inductively coupled plasma spectroscopy, infrared absorption, and gas and liquid chromatography. Instruments for these techniques are used in the laboratory work. Four-hour laboratory. Fall.
Prerequisite: A minimum grade of C in CHEM 1411, CHEM 1412, CHEM 2323, CHEM 2325 and CHEM 2401 and a minimum grade of C or concurrent enrollment in CHEM 4448.

CHEM 4441. Mthds-Envir/Industrl Analyses. 4 Hours.
This course covers the philosophy of modern instrumental methods used for environmental and industrial analyses. The topics to be covered include quality control and quality assurance good laboratory practices, waste minimization and elimination, safe laboratory operation, ISO standards, EPA methodology, and statistical data analysis. Spring.
Prerequisite: A minimum grade of C in CHEM 2401, CHEM 2323 and CHEM 2325, and CHEM 3368.

CHEM 4442. Air Quality. 4 Hours.
An in-depth study of the sources of air pollution is made. Sampling procedures and the chemical analyses required for identification of pollutants are studied. Control methods for the restriction of air pollution are outlined. Four-hour laboratory. Spring odd years.
Prerequisite: A minimum grade of C in CHEM 1411, CHEM 1412, CHEM 2401, CHEM 2323 and CHEM 2325.

CHEM 4443. Structural Spectroscopic Methd. 4 Hours.
A survey of the spectroscopic and spectrometric methods for elucidation of structural information for chemical compounds with emphasis on the structural identification of unknowns. The methods of ultraviolet-visible spectrophotometry, Fourier-transform infrared spectroscopy, mass spectrometry, and both one- and two-dimensional nuclear magnetic resonance spectroscopy will be covered. Their relative strengths, complementary nature, and utility will be discussed. The focus will be the determination of chemical structures by spectroscopic/spectrometric methods. Spring even years.
Prerequisite: A minimum grade of C in CHEM 1411, CHEM 1412, CHEM 2323, CHEM 2123, CHEM 2325, CHEM 2125.

CHEM 4448. Physical Chemistry I. 4 Hours.
The foundations of thermodynamics and spectroscopic methods (radio-frequency, microwave, infrared, Raman, UV-visible, and X-ray) are developed from first principles with an atomistic point of view. Four-hour laboratory. Fall.
Prerequisite: A minimum grade of C in CHEM 1411, CHEM 1412, CHEM 2323, CHEM 2123, CHEM 2325, CHEM 2125, MATH 1420, MATH 1430 and one year of physics.

CHEM 4449. Physical Chemistry II. 4 Hours.
The developments of thermochemistry, phase diagrams, equilibria, and kinetics are traced from the statistical mechanics of quantum states to the macroscopic observations of thermodynamics. Four-hour laboratory. Spring.
Prerequisite: A minimum grade of C in CHEM 1411, CHEM 1412, CHEM 2323, CHEM 2123, CHEM 2325, CHEM 2125, CHEM 4448.

Clarinet (CLAR)

CLAR 1201. Ind Performances-Clarinet. 2 Hours.

CLAR 3201. Ind Performances-Clarinet. 2 Hours.

CLAR 3202. Applied Clarinet W/ Jr Recital. 2 Hours.

Communication Studies (COMS)

COMS 1361. Public Speaking. 3 Hours.
An introductory course in research, composition, organization, and delivery of informative and persuasive speeches for various purposes and occasions. Includes strategies for reducing speaker apprehension.

COMS 2331. Intro - Comm Theory & Research. 3 Hours.
An introduction to theory and research in the field of communication with an emphasis on interpersonal and family communication. Students prepare reviews of literature as well as scholarly abstracts.

COMS 2382. Comm. for Bus. & Professions. 3 Hours.
This course examines theory and research in interpersonal principles, leadership strategies, listening, and nonverbal communication. Emphasis is on the application of this knowledge to develop communication skills in settings such as interviewing, group decision-making, speech preparation and presentation. Non-Minors only. Non-Specializations only.
Prerequisite: Non-Majors only.

COMS 2386. Interpersonal Communication. 3 Hours.
Theory and research in one-to-one communication in relationships. Topics include perception, listening, conflict management, and the development and maintenance of relationships.

COMS 2390. Multimedia Communication. 3 Hours.
Applications of technology to the preparation and presentation of speeches and other forms of oral discourse.
Prerequisite: 12 COMS hours completed and Sophomore, Junior or Senior Classification.

COMS 3350. Communication and Pop Culture. 3 Hours.
Students will identify messages and meanings contained in popular culture, and will examine how messages from music, television, films, celebrities, and advertising reflect and create social norms.

COMS 3360. Interpreting Visual Images. 3 Hours.
This course will examine messages found in visual communication. Students will learn how to analyze visual messages using theoretical constructs. The course will increase students' awareness of visual messages and the persuasive impact of those messages. Credits 3.

COMS 3365. Humor in Communication. 3 Hours.
This course examines how humor functions across a variety of contexts, including interpersonal, organizational, public, and political. It is based on theory, research, and practical application.
Prerequisite: Junior standing or consent of instructor .

COMS 3370. Intercultural Communication. 3 Hours.
A study of the theory, research, and practice of communicating within and across cultures. Research in intercultural communication will be studied with an emphasis on application to the studentis own intercultural communication.

COMS 3371. Conflict, Negotiatn & Resolutn. 3 Hours.
Explores the complexities of conflict in order to understand the forces that make conflict challenging and to develop a repertoire of skills for thinking about and managing conflict more effectively in a variety of close relationship contexts.

COMS 3372. Interpersonal Health Comm. 3 Hours.
This course examines patient and physician communication skills, communicating social support for those with serious illnesses, survivorship, identity issues, media influence, and e-health across a wide range of communication contexts. These include family, culture, and computer-mediated communication. The course uses a lecture/discussion format.
Prerequisite: Junior standing.

COMS 3382. Persuasion. 3 Hours.
A study of the principles of attitude change and theories of persuasion as they apply to the speaker, political campaigns, and social movements. Fall.

COMS 3383. Small Group Communication. 3 Hours.
An examination and application of the research, theories, and practices of interaction, leadership, and problem-solving in formal and informal small group settings. Spring. Spring.
Prerequisite: COMS 2386 or COMS 3384.

COMS 3385. Community Applied Communica. 3 Hours.
Recommendations are made for improving student communication with people from differing backgrounds in community organizations. Students will work with such an organization throughout the semester for a minimum of 20 total hours over at least six visits to the service-learning site. A list of organizations is provided in class.

COMS 3390. Human Comm In Virtual Organztn. 3 Hours.
Analyzes the impact of human communication technology on organizations of all types, including political, social, religious, and educational institutions. The course will examine how communication technologies shape organizations, channel power, manage crisis, establish leadership, and redefine privacy and freedom of expression.
Prerequisite: Sophomore standing and 12 hours of communications studies courses.

COMS 4091. Independent Study in Communication Studies. 3 Hours.
This course allows a student to pursue particular problems or issues beyond the limits of current course offerings. The problem or issue, however, will be within the studentis area of specialization. This course may be taken for Academic Distinction credit. See Academic Distinction Program in this catalog. May be repeated for credit. Senior standing.
Prerequisite: 12 hours COMS completed and approval of the Chair.

COMS 4365. Nonverbal Communication. 3 Hours.
The study of systems of nonverbal communication and their effective use, including body language, vocalic, facial, and spatial communication. Students will apply current theory and research in nonverbal communication to their own communication.

COMS 4366. Deceptive Communication. 3 Hours.
(Prior SH course id: COM 466); An in-depth study of lying and other forms of deception in a variety of communication contexts, including interpersonal, public, and legal. Designed to provide empirical, ethical, and critical understanding of deception to aid students in assessing their own messages and the messages of others.
Prerequisite: At least sophomore standing.

COMS 4378. Internship In Comm Studies. 3 Hours.
An on-the-job application of skills and theories learned in the classroom for selected individual students who have completed their junior year. Internships are with public relations and governmental agencies, businesses and non-profit organizations.
Prerequisite: At least junior standing, 12 COMS hours completed, and approval of the Chair.

COMS 4381. Communication Theory. 3 Hours.
Survey of contemporary theories of communication.
Prerequisite: 12 hours COMS completed.

COMS 4385. Professional Comm. Development. 3 Hours.
This course will strengthen development of communication skills required for professionals working in complex organizations, especially non-profit and community organizations. Each student will be assigned to work with a community organizational leader throughout the semester who will provide individual assessments and feedback.
Prerequisite: Sophomore standing.

COMS 4386. Family Communication. 3 Hours.
An intensive examination of interpersonal communication at all levels in the context of families. Students pursue original research projects, reviews of literature, and annotated bibliographies.
Prerequisite: COMS 2386.

COMS 4387. Relationship Communication. 3 Hours.
This course explores communication as it occurs in various types of personal relationships, with a special focus on romantic relationships and close friendships. Emerging contexts for such relationships, such as long-distance and mediated forms, are included, as are suggestions for enhancing the quality of communication and satisfaction with them.
Prerequisite: Sophomore standing.

COMS 4392. Sem In Communication Studies. 3 Hours.
This course provides students an opportunity to study new areas of scholarship in communication and special interest topics offered on a rotating basis.
Prerequisite: Sophomore standing.

Composition (COMP)

COMP 1101. Applied Composition I. 1 Hour.

COMP 3301. Applied Composition II. 3 Hours.

Computer Science (COSC)

COSC 1436. Programming Fundamentals I. 4 Hours.
This course is an introduction to programming. Topics include fundamental concepts of computer programming and software development methodology, including data types, control structures, functions, arrays, and the mechanics of programming running, testing, and debugging. The development of procedures and the writing and testing of programs to implement them are emphasized. This course includes a 2-hour lab-based component. This course assumes a general familiarity with computers.
Prerequisite: Grade of C or better in MATH 1410, MATH 1314, or MATH 1316, basic keyboarding, and PC skills.

COSC 1437. Programming Fundamentals II. 4 Hours.
This course is a continuation of COSC 1436 and emphasizes the relationships between the data objects in computer programs. The use of control structures and data types is reviewed, with emphasis on structured data types. An object-oriented programming paradigm is used, focusing on the definition and use of classes along with the fundamentals of object-oriented design. The course includes basic analysis of algorithms, searching and sorting techniques, and an introduction to software engineering. This course includes a 2-hour lab-based component.
Prerequisite: COSC 1436.

COSC 2327. Intro to Computer Networks. 3 Hours.
Installation, usage, and management of computer hardware and operating systems for business. Topics include scripting, macros, intelligent agents. Installation and management of networks, the Internet, and communications software is covered.
Prerequisite: COSC 1436.

COSC 2329. Comp Organiz & Machine Lang. 3 Hours.
An introduction to instruction set architectures, emphasizing central processor organization and operations. Specific topics include data representations, register architectures, addressing modes, the fetch/ execute cycle; interrupts, subprogram calls, I/O services, digital logic gates and basic Boolean algebra, and sequential and combinational circuits. Programs will be assigned in a representative assembly language to explore these areas.
Prerequisite: COSC 1437 (may be taken concurrently).

COSC 2340. Special Topics in Computer Sci. 3 Hours.
Topics and courses are selected to suit individual needs of students. The course may be repeated for additional credit as long a different topic is covered.
Prerequisite: COSC 1436.

COSC 2347. Special Topics/Programming. 3 Hours.
In-depth study of a programming language used to implement information systems. Real time components, visual techniques, and artificial intelligence will be utilized as appropriate. This course may be repeated for credit with the approval of the undergraduate advisor. A different language must be covered to receive approval for repeat credit.
Prerequisite: COSC 1437.

COSC 3312. Numerical Methods. 3 Hours.
This course develops the concepts underlying the use of the computer for interpolation, approximations, solutions of equations and the solution of both linear and nonlinear systems equations. Mathematical software and/or user written programs are utilized. Also offered asMATH 3394.
Prerequisite: COSC 1436 and MATH 1430 or consent of instructor.

COSC 3317. Game Programming and Design. 3 Hours.
This course is an introduction to game programming. Topics covered include: different game genres; issues in game programming; storyboarding; etc. This course covers the basic elements of 2D games. This course is designed to give a strong introduction to the basics of game programming: graphics, sound, and input.
Prerequisite: COSC 2329.

COSC 3318. Data Base Management Systems. 3 Hours.
This course emphasizes the design of information systems using database software and query language/programming interfaces. Data warehouse concepts are introduced. Legacy systems, LAN and distributed systems based systems are used to give the student hands-on experience in systems development.
Prerequisite: COSC 1437 .

COSC 3319. Data Structures and Algorithms. 3 Hours.
Introductory treatments of such topics as orthogonal lists, strings, arrays, linked lists, multilinked structures, indexed and direct files, and generalized data management and database management systems.
Prerequisite: COSC 1437 or MATH 1430.

COSC 3321. Digital System Design. 3 Hours.
This course is an introduction to Boolean Algebra and graph theory with emphasis on their applications in the design of digital computer software and hardware. Logic systems are designed and analyzed.

COSC 3327. Computer Architecture. 3 Hours.
This course is a continuation of COSC 2329, exploring computer organization and architectures in more depth and breadth. Specific topics include milestones in the philosophy of computer design, Karnaugh maps for circuit minimization, memory types and organization, caching, pipelining, micro-architectures, parallel architectures, I/O devices, buses and bus protocols. Throughout the course, physical and performance considerations will be stressed along with the hardware's interaction with operating systems.
Prerequisite: COSC 2329.

COSC 3331. Human-Computer Interaction. 3 Hours.
This course presents a comprehensive introduction to the principles and techniques ofhuman-computer interaction. The course examines the event-driven model through the development of applications utilizing graphical design environments and the use of rapid application prototyping to explore a variety of techniques for HCI, particularly in relation to mobile and other non-traditional devices.
Prerequisite: COSC 1437.

COSC 3332. Game Programming and Design. 3 Hours.
(Prior Course ID: CS 378); This course allows those students who desire to learn more about game programming to apply what they have learned in their foundation courses in that area. Gaming is a compelling way to motivate students to learn challenging technical concepts such as programming, software engineering, algorithms, and project management.
Prerequisite: COSC 2329.

COSC 3337. Infor Sys Design & Management. 3 Hours.
This is a course in the design and implementation of large-scale file and persistent object-based information systems. Client/server systems are covered.
Prerequisite: COSC 2347.

COSC 4149. Seminar in Computer Science. 1 Hour.
Students in this course learn fundamental ideas of emerging technologies and their real-life applications in ever-evolving software and hardware computing environments. The content of the course may vary from semester to semester, but will include current trends, issues, and professional skills.
Prerequisite: Senior standing in Computer Science.

COSC 4314. Data Mining. 3 Hours.
This course provides an introduction to the newly-emerging field of data mining. Data mining is concerned with the automatic extraction of novel information and knowledge from large amounts of data in practical real world problems. Topics will include fundamental concepts, data preparation and feature selection, standard data mining algorithms (including but not limited to association, classification, clustering, and prediction), and applications and evaluation of data mining techniques.
Prerequisite: COSC 3318 and COSC 3319.

COSC 4316. Compiler Design & Construction. 3 Hours.
This course deals with the design and implementation of assemblers, interpreters and compilers. Topics include symbol tables, lexical scanning, syntactic analysis, object code generation and storage allocation. Programming assignments will involve implementation of functional components of a translator.
Prerequisite: COSC 2329 and COSC 3319.

COSC 4318. Advanced Language Concepts. 3 Hours.
This course emphasizes programming languages which support the Object-Oriented Programming (OOP) paradigm. Programming assignments are used to illustrate the features and weaknesses of the language and to develop the studentis proficiency in the use of OOP technology.
Prerequisite: 3 advanced hours of COSC.

COSC 4319. Software Engineering. 3 Hours.
This course is an introduction to formal methods of specifying, designing, implementing and testing software for large programming projects. Methods of estimating and predicting reliability are discussed.
Prerequisite: 6 advanced hours of COSC and COSC 3318.

COSC 4320. System Modeling and Simulation. 3 Hours.
This is an introduction to modeling and simulation for analysis of computer software and hardware. Application of simulation analysis to design and development of computer software and systems including modeling of computer and software components will be discussed. Design, coding and use of discrete event simulation software will be covered.
Prerequisite: 6 advanced hours COSC and MATH 3379.

COSC 4326. Network Theory. 3 Hours.
This course examines the theoretical basis for data communication together with an examination of the structures and protocols associated with the control of error, congestion and routing. The course includes an examination of network administration fundamentals and socket programming in client-server applications.
Prerequisite: 6 advanced hours of COSC.

COSC 4327. Computer Operating Systems. 3 Hours.
This course is concerned with software organization of computer systems. It is intended to bring together the concepts and techniques of programming languages, data structures and computer organization by considering their role in the design of general computer systems. The problems which arise in multi-accessing, multiprogramming, and multiprocessing are emphasized.
Prerequisite: COSC 3327 and COSC 3319.

COSC 4332. Computer Graphics. 3 Hours.
This course introduces graphical APIis used in developing graphical user interfaces and multimedia applications. Topics covered are selected from the PHIGS, Windows, Presentation Manager, X-Windows, digital video and other appropriate technologies.
Prerequisite: 6 advanced hours of COSC.

COSC 4337. Digital Signal Processing. 3 Hours.
This course examines the nature of signal processing and its application to real-world applications such as speech synthesis, video processing, genomics, and biomedical signal processing, and distributed sensor networks. The course addresses theoretical, algorithmic and practical issues.
Prerequisite: COSC 3327.

COSC 4340. Spc Tpcs In Computer Sci. 3 Hours.
Topics of general interest are offered on a timely basis. Previous topics include Cognitive Computing, Embedded Linux Systems, Visual Graphics/ Component Systems. Variable Credit (1-3). advanced COSC and senior standing.
Prerequisite: 6 hrs.

COSC 4349. Professionalism and Ethics. 3 Hours.
This course examines the nature, need and value of well-formed ethical constructs within the digital forensics profession. Included in this course is a discussion, through case studies, of the nature of professionalism, personal and professional codes of ethics and conduct, and the professional handling of ethical and moral conflict. The course also explores the role of the professional in public policy and the awareness of consequences of ethical dissent and whistle blowing.
Prerequisite: Senior standing.

Computer Science Technology (CSTE)

CSTE 1330. Introduction To Computers. 3 Hours.
This is a computer literacy course. Basic computing concepts are presented. Assignments provide a hands-on experience in using microcomputer applications. Multimedia and the Internet are introduced. May not be taken for credit toward a CS major or minor. This course may be taken as a classroom based course or as an Independent Study/Internet course.

CSTE 1331. Visual Computing. 3 Hours.
This course is an introduction to programming using the visual paradigm, aimed at students with little or no background in programming. The core notions of problem solving through programming are introduced, following an object-oriented approach to visual programming.

CSTE 2330. Multimedia Technologies. 3 Hours.
TThis course examines the use of modern multimedia tools in the production foof professional communication materials. The course specifically examines multi-platform image, sound and video editing tools, CD/DVD, wiki and podcast production tools as well as supporting web-publishing tools and scripting techniques for the purpose of enriching the professional communication environment. May not be taken for credit toward a COSC major or minor.

CSTE 3330. Web Technologies. 3 Hours.
This course explores the concepts and techniques associated with the development of modern dynamic Web sites. Topics covered include web design fundamentals, modern web development tools, style sheets, markup languages, accessibility, session management, interactive communication and security. The course also examines a number of Web 2.0 technologies that support blog, wiki and social networking applications.
Prerequisite: CSTE 2330.

CSTE 4330. Web Server Technologies. 3 Hours.
This course explores web server technologies associated with the server components, web scripts, web forms, and dynamic interactive features.
Prerequisite: CSTE 3330.

Construction Management (ETCM)

ETCM 1363. Wood Frame Construction. 3 Hours.
This course is a study of materials and methods of wood frame construction found in residential and commercial construction focusing on aspects of load-bearing structural design elements. Instruction is given in the correct use of hand tools and machine tools, job safety, job-site controls, material handling, equipment, and application. Laboratory experiences include design and construction of a wood frame structure with elements typically found in residential construction. (2-2).

ETCM 2363. Architectural Design. 3 Hours.
This course consists of the development of a set of plans and specifications for a small residence.
Prerequisite: ETDD 1390 or ETDD 1361 or FACS 1360 or FACS 2364.

ETCM 2396. Special Topic. 3 Hours.
Individual study in specialized areas of Industrial Technology. To be directed and approved by the Construction Management advisor. This course is designed to be a multitopic course. The student can take the course under various special topics being offered.

ETCM 3368. Concrete/Masonry Construction. 3 Hours.
This course is a study of materials and methods of construction found in concrete and masonry structures. Concrete chemistry, mixing and placement equipment, testing, finishing techniques, reinforcing, formwork, specification, and job-site safety implementing these materials are studied. Laboratory experiences include batch sampling and testing and small group projects implementing concrete and masonry methods and materials. Sophomore standing.
Prerequisite: ETCM 1363.

ETCM 3370. Construction Technology II. 3 Hours.
This course focuses on non-structural construction typically found in cabinetry, trim, and furniture construction. Included is the study of woods, synthetic materials, hardware, and wood joinery. Instruction is given in the correct use of hand and machine tools, job safety, job-site controls, and material specification. Lab experiences include designing, planning, construction, and finishing of a piece of cabinetwork or furniture. Sophomore standing.
Prerequisite: ETCM 1363.

ETCM 3371. Civil Drafting. 3 Hours.
This course will consist of drafting techniques and requirements necessary for civil engineering offices. Topics include survey drafting, map drafting, topos, site plans, subdivision plats, profile drawings and other related topics. Sophomore standing.
Prerequisite: ETDD 1361 or ETDD 1390.

ETCM 3372. Construction Drafting. 3 Hours.
This course is a study of drafting techniques and requirements for the commercial and heavy construction industries and will add to the skill set of construction management students. Topics will include foundation design, commercial building design, structural detail, and premanufactured metal constructed building design. Demonstrations, student inquiry, in-class problem solving, and three dimensional (3D) modeling will be utilized. Sophomore standing.
Prerequisite: ETDD 1361 and ETEC 1371.

ETCM 4096. Directed Study. 1-6 Hours.
Arranged professional and developmental learning experiences incorporating a practical application of construction management skills and practices. To include internships, individual research and industry studies. Variable Credit (1-6).
Prerequisite: Sophomore standing.

ETCM 4330. Construction Mgt & Procedures. 3 Hours.
This course is designed to provide a general knowledge of construction applications and procedures. Emphasis is on site preparation, foundations, and concrete. Emphasis will be placed on the responsibility of general or prime contractors and specialty contractors. Students will be taught cost estimation and procedures for bidding. Junior standing.
Prerequisite: ETCM 1363 and ETDD 1361.

ETCM 4368. Building Materials. 3 Hours.
This course is devoted to the study of qualities, types, and sizes of materials such as lumber and other wood products, masonry, paint, hardware, ceramic and metal products. In addition cost estimates for materials and labor is studied by figuring the cost estimate of a small residence. Extensive use is made of actual samples and other visual aids. Prerequiste: ITEC 1361, ITEC 1340, and ITEC 1363. Junior standing.

ETCM 4369. Special Topic. 3 Hours.
Individual study in specialized areas of Construction Management. To be directed and approved by the Industrial Technology advisor. This course is designed to be a multitopic course. The student can take the course under various special topics being offered.

ETCM 4370. Construction Plans & Documents. 3 Hours.
This course is designed to give a clear insight into the particular problems of construction and proper construction procedures. The site selection, availability of services, grading, subsurface explorations to determine foundation needs, construction organization, and other activities of construction are presented in logical units.
Prerequisite: ETEE 1340, ETDD 1361, and ETCM 1363 or consent of instructor.

ETCM 4371. Building Information Modeling. 3 Hours.
This course focuses on current issues in the construction industry from a Building Information Modeling standpoint. This approach incorporates the integrated project delivery method, productivity measurement, digital modeling, and construction process modeling for construction scheduling.
Prerequisite: ETCM 2363 and ETCM 3372.

Counselor Education (COUN)

COUN 2332. Career Development. 3 Hours.
This course will help students explore a lifelong plan for career development. Students will use real life assessments to determine aptitudes, interests and values related to careers. Students will learn how to utilize on campus and internet resources to develop resumes, portfolios and practice job interviewing skills. Activities in this course are designed to give students an advantage for entering the job market.

COUN 3321. Intro To Helping Relationship. 3 Hours.
This course will provide an introduction to the helping relationship, especially as it relates to educational and community settings. Students will be challenged to consider their motivations, needs, and goals related to the art of helping. Students will engage in a service learning project as part of exploring the nature of the helping relationship. Students will also be introduced to basic attitudes, dispositions and skills needed for helping relationships and counseling.

COUN 3322. Career Development. 3 Hours.
This course will help students explore a lifelong plan for career development. Students will use real life assessments to determine aptitudes, interests and values related to careers. Students will learn how to utilize on campus and internet resources to develop resumes, portfolios and practice job interviewing skills. Activities in this course are designed to give students an advantage for entering the job market.

COUN 3331. Intro To Principles Of Counsln. 3 Hours.
This course will provide students with an overview of the counseling profession to include professional issues, ethics, history, credentialing, professional associations, and roles of counselors in various settings. Emphasis is placed on the development of professional identity, the value of the counseling relationship, and theory. Students will choose from several activities allowing them to recognize the value of counseling in human service activities.

COUN 3332. Therapeutic Play Skills. 3 Hours.
Participants will learn the basic principles that guide child-centered play sessions via didactic and experiential activities. The course will help participants understand how child-centered play sessions facilitate the recognition and expression of feelings in children, as well as strengthen problem-solving skills, pro-social skills, and engagement with parents. Students will role-play facilitative skills including recognizing and responding to childrenis feelings, play session limit setting, and building children's self-esteem. Students will have opportunities to observe live and video taped child-centered play sessions.

COUN 4088. Special Topics in Counseling. 3 Hours.

COUN 4089. Independent Stdy in Counseling. 1-3 Hours.
This independent study course will allow the undergraduate student to conduct in-depth study in a specific topic area related to counseling and human services. Topics will vary as needs demand. May be repeated as scheduled topics vary.

COUN 4379. Wellness Counseling. 3 Hours.
This course is an introduction to the history of wellness and the contributions of various cultures to the wellness concept. Several models and theories for the practice of counseling are addressed. Behavior change models and current research related to specific wellness domains will be explored with a focus for working with clients from a wellness perspective.

Criminal Justice (CRIJ)

CRIJ 2361. Intro To The Crim Justice Sys. 3 Hours.
(SH Prior Course ID: CJ 261); An introductory course designed to familiarize students with the facets of the criminal justice system, the sub-systems and how they interrelate, processing of offenders, punishment and its alternatives, and the future of the criminal justice system.

CRIJ 2362. Criminology. 3 Hours.
(SH Prior Course ID: CJ 262); Crime as a form of deviant behavior; nature and extent of crime; past and present theories; evaluation of prevention, control, and treatment programs.

CRIJ 2364. Fundamentals Of Criminal Law. 3 Hours.
(SH Prior Course ID: CJ 264); A course in substantive criminal law which includes definition of law, definition of crime, general principles of criminal responsibility, elements of the major crimes, punishments, conditions or circumstances which may excuse from criminal responsibility or mitigate punishment, the court system of Texas and the United States, basic concepts of criminal law with emphasis on the penal law of the State of Texas.

CRIJ 2365. Correctional Sys & Practice. 3 Hours.
(SH Prior Course ID: CJ 265); Analysis and evaluation of contemporary correctional systems; discussion of recent research concerning the correctional institution and the various field services.

CRIJ 2367. Police Systems & Practices. 3 Hours.
(SH Prior Course ID: CJ 267); Philosophy and history of law enforcement; limitations imposed on law enforcement in a democratic society in accordance with the Constitution; agencies of law enforcement; role and place of law enforcement in the total justice process.

CRIJ 2368. Criminal Investigation. 3 Hours.
This course provides a brief overview of scientific crime detection and more detailed discussion of techniques for case management and documentation, the concept of proof, the impact of emergent technology on the investigative process, interacting with victims and witnesses, and interviewing suspects. Particular emphasis may be placed on the investigation of particular types of crimes, for example, homicides, sex offenses, child abuse, hate crimes, and so forth. .
Prerequisite: CRIJ 2367 or consent of instructor.

CRIJ 2394. Courts And Criminal Procedure. 3 Hours.
(SH Prior Course ID: CJ 294); Examines procedural requirements for judicial processing of criminal offenders. Examines concepts of evidence sufficiency, standards of proof, due process, and constitutional safeguards.

CRIJ 3339. His Of Criminal Justice System. 3 Hours.
(SH Prior Course ID: CJ 339); A study of the major social, economic, legal and political events which have contributed to the formation of the American Criminal Justice System. Emphasis is on the common roots of the different components of the present system.
Prerequisite: CRIJ 2361 .

CRIJ 3340. Gender and Crime. 3 Hours.
The course investigates definitions of gender and gender roles and how gender impacts offending, victimization, and criminal justice processing. This course also evaluates the influence of gender on working in criminal justice as professionals. Criminological theories are evaluated in light of gender and the relationship between gender and criminal justice.
Prerequisite: CRIJ 2361, CRIJ 2362.

CRIJ 3341. Aging, Crime and Victimization. 3 Hours.
This course combines a general education about aging in America with information about senior adults as crime victims, criminals or prison inmates. Future directions for public policy related to crime and aging are also evaluated.
Prerequisite: CRIJ 2361, CRIJ 2362.

CRIJ 3350. Victimology. 3 Hours.
(SH Prior Course ID: CJ 480); Survey of the literature, research and current trends concerning the victim in the criminal justice system; particular attention is given to the victim rights and compensation, fear of crime measuring victimization, and the impact of victimization on the individual.

CRIJ 3351. Victim Service Delivery. 3 Hours.
This course analyzes the provision of social and criminal justice services to victims of crime. This is accomplished by examining community and inidividual services for that are afforded to crime victims. Material covered also includes how victim advocacy is positioned within the formal systems of criminal justice. Finally, this course addresses the social and legal issues that impose upon victim service delivery and the theories that explain these impediments to service provision.
Prerequisite: CRIJ 3350.

CRIJ 3361. Comparative Crimnl Jstc System. 3 Hours.
(SH Prior Course ID: CJ 361); The study of criminal justice in societies other than the United States including, but not limited to, the European region, the Asian region, and the African region. Emphasis is on the uncommon roots of criminal justice in these regions and the effectiveness of such systems in responding to criminal behavior.
Prerequisite: CRIJ 2361 and CRIJ 2362.

CRIJ 3362. White Collar Crime. 3 Hours.
(SH Prior Course ID: CJ 362); The study of the ideas and perspectives that are dominant in the field of white-collar crime. Topics such as organizational crime, occupational crime, legislation aimed at white collar crime, law enforcement, causes of white collar crime, and possible forms of intervention will be discussed.
Prerequisite: CRIJ 2361 and CRIJ 2362.

CRIJ 3363. Violent Offenders. 3 Hours.
(SH Prior Course ID: CJ 363); This course provides an introduction to psychological issues relating to understanding, assessing, managing criminal and other abnormal behavior. An overview of mental disorders and their relationship to criminality and violence is provided. Topics include sanity, psychopathy, criminal profiling, serial killers, stalking, women who kill, and threat assessment.
Prerequisite: CRIJ 2361 or CRIJ 2362 .

CRIJ 3364. Spec Offenders & Spec Needs. 3 Hours.
(SH Prior Course ID: CJ 364); The identification and study of special or unusual offenders with special or unusual needs . Special offenders include those which rarely are covered in standard criminology classes, such as wildlife poachers, serial killers, computer hackers, substance abusers, and business and professional scam artists.
Prerequisite: CRIJ 2361 and CRIJ 2362 .

CRIJ 3368. Understanding Sexual Offending. 3 Hours.
(SH Prior Course ID: CJ 368); This course provides an overview of the sexual offender. The origins and various motivations for sexual offending are explored as are treatment strategies and their relative effectiveness with different offender groups. Various approaches to community supervision are examined as are controversial issues such as castration of sex offenders.
Prerequisite: CRIJ 2361 or CRIJ 2362 .

CRIJ 3378. Intro To Methods Of Research. 3 Hours.
(SH Prior Course ID: CJ 378); Methods and techniques of research in the behavioral sciences; historical development of psychological and social research; techniques and problems.

CRIJ 3394. Glbl Terrorism& Homlnd Securty. 3 Hours.
(SH Prior Course ID: CJ 394); This course provides an overview of the field of terrorism. Using a multi-dimensional approach that draws from international relations, law, and police strategies, the course emphasizes research and analysis. Students also gain the ability to examine and scrutinize international strategies aimed at reducing terrorist incidents.
Prerequisite: CRIJ 2361 or CRIJ 2362 .

CRIJ 3396. Juvnl Delinqncy & Juvnl Justic. 3 Hours.
(SH Prior Course ID: CJ 396); Nature and extent of delinquency, explanatory models and theories: the juvenile justice system; history, philosophy, and evaluation of the juvenile court, juvenile court practices and procedures; the role of the police officer and the correctional officer.

CRIJ 4330. Law And Society. 3 Hours.
(SH Prior Course ID: CJ 430); The nature, functions, limitations and objectives of law; civil procedure; civil law and selected social problems, for example abortion, euthanasia; the civil courts; the grand jury and petit jury; torts; civil liability for police and correctional officers; family law.

CRIJ 4332. Legal Aspects Of Corrections. 3 Hours.
(SH Prior Course ID: CJ 432); Legal problems from conviction to release; pre-sentence investigations, sentencing, probation and parole; incarceration; loss and restoration of civil rights. Emphasis on practical legal problems confronting the probation and parole office and the correctional administrator.

CRIJ 4336. Understanding Human Behavior. 3 Hours.
(SH Prior Course ID: CJ 436); The dynamics of human behavior; analysis of the biological, cultural, sociological and psychological factors.

CRIJ 4338. Child Abuse And Neglect. 3 Hours.
(SH Prior Course ID: CJ 438); Students will develop knowledge concerning key concepts and terminology related to child abuse and neglect, related laws and court procedures, ways to address and investigate cases, and programs available to assist in the prevention of child abuse and neglect, as well as programs designed to protect children. This course will also provide a foundation for students who may enter professional careers that place them in a position to address and/or investigate suspected cases of child abuse and neglect.

CRIJ 4351. Trauma and Crisis Intervention. 3 Hours.
This course focuses on understanding and effectively assisting victims of traumatic events. Students will learn how the context in which trauma occurs can affect the cognitive, affective, behavioral, and neurological functioning of an individual. Multicultural aspects that either impair or facilitate recovery are assessed. Crisis intervention models and the pertinent legal and ethical issues for service provision are evaluated. Prerequisite CRIJ 3350.

CRIJ 4360. Crime And The Media. 3 Hours.
(Prior SH course id: CJ 460); This course surveys the connections between the mass media, crime, and criminal justice. It explores how the criminal justice system, criminals, and crime are portrayed in film, TV drama and news media and examines how the media reflect our collective perceptions of crime, violence and victimization and shape attitudes toward crime.

CRIJ 4362. Substance Use And Abuse. 3 Hours.
(SH Prior Course ID: CJ 462); The description, classification, and analysis of the extent of the drug problem.

CRIJ 4363. Cybercrime. 3 Hours.
This seminar focuses on topics related to cybercrime, including legal, enforcement, behavioral, and social factors that influence its perpetration, prevention, and prosecution.
Prerequisite: Junior/Senior standing .

CRIJ 4365. Professionalism & Ethics In CJ. 3 Hours.
(SH Prior Course ID: CJ 465); The study of theories and practices in areas of legality, morality, values and ethics as they pertain to criminal justice. Included will be such topics as police corruption, brutality, and methods of dealing with such practices, as well as the concept of profession and professional conduct.

CRIJ 4367. Correctional Strategies. 3 Hours.
(SH Prior Course ID: CJ 467); This course examines treatment options in both institutional and field corrections settings. There is a focus upon special populations, including mental health populations and their treatment, aging in prison, women, HIV populations, and issues surrounding race and ethnicity.
Prerequisite: Junior Standing and CRIJ 2365 .

CRIJ 4368. Global Organized Crime. 3 Hours.
(SH Prior Course ID: CJ 468); Historical survey of organized crime in America, areas of influence, remedial practices and control.

CRIJ 4370. Interviewing & Counseling. 3 Hours.
(SH Course Prior ID: CJ 470); Counseling psychology with emphasis on principals and procedures; the theoretical foundations of therapeutic psychology; therapeutic techniques and therapeutic process.

CRIJ 4373. Ungr Intern Criminal Justice. 3 Hours.
(SH Prior Course ID: CJ 473); A minimum of three months in an approved criminal justice or social agency setting taken preferably between junior and senior years. Designed to provide the student with an opportunity to apply academic learning in practical situations. See the College's Internship Coordinator for details about this program.

CRIJ 4376. Independent Studies in CJ. 1-3 Hours.
(SH Prior Course ID: CJ 476); Designed for advanced students in the behavioral sciences who are capable of independent study. Registration upon approval of the appropriate Assistant Dean of the College of Criminal Justice and the instructor directing the course. Credit to be arranged.

CRIJ 4377. Spc Topics In Criminal Justice. 3 Hours.
Designed to give the advanced undergraduate student academic flexibility. Maybe repeated for credit.

CRIJ 4382. Social Deviance. 3 Hours.
(SH Prior Course ID: CJ 482); The psychological and sociological aspects of socially deviant behavior; theoretical overviews and implications for social control and social policy.

CRIJ 4383. Family Violence. 3 Hours.
(SH Prior Course ID: CJ 483); The course will address the theoretical issues, both past and present, regarding family violence in order to provide the student with an understanding of the salient issues. In addition, attention will be given to the impact family violence has on the victim and society, legal aspects of family violence, key factors associated with recognition of family violence (especially child abuse), and pertinent research focusing on the subject.

CRIJ 4384. Police Strategies. 3 Hours.
Analysis of police policies with particular attention to the current major problem areas from the point of view of both the administrator and the line operations officer. Integration of established scientific knowledge with practical police experience in the various areas of police functioning.
Prerequisite: CRIJ 2367 .

CRIJ 4385. Criminl Justc & Social Divrsty. 3 Hours.
(SH Prior Course ID: CJ 485); This course is the study of how social diversity and inequality shape the way criminal behavior is defined and controlled through the application of the criminal law and criminal justice system. Attention is given to the disparity of criminal offending, victimization, and criminal justice processing across demographic groups as well as explanations for observed disparities. The course also explores subordinate group members as criminal justice professionals.
Prerequisite: CRIJ 2361, CRIJ 2362, CRIJ 3378 .

CRIJ 4386. Problem Analysis In CJ. 3 Hours.
(SH Prior Course ID: CJ 486); This course serves as a capstone for the Criminal Justice undergraduate student. Students will use skills and knowledge from prior courses to address challenges facing the criminal justice system. The class will focus on application of research skills and analytic techniques to address these issues.
Prerequisite: Senior Standing, CRIJ 3378 and STAT 3379 or equivalent .

CRIJ 4390. Violence Against Women. 3 Hours.
This course is designed to help students understand the deeper social context in which violence against women occurs. Topics to be covered include domestic violence, rape and sexual assault, and sexual harrassment. Attention will be given to the ways in which violence against women affects women, men, and children. This class will also address the ways that the criminal justice system responds to these types of crimes including how the criminal justice system and social service agencies may better address the needs of victims and offenders.
Prerequisite: CRIJ 3350.

CRIJ 4394. Constitutnl Issues In Law Enfr. 3 Hours.
(SH Prior Course ID: CJ 494); The course focus is the intersection of the U.S. Constitution and the criminal justice system. Major decisions of the U.S. Supreme Court serve as the core resource, including those addressing Fourth, Eighth, and Fourteenth Amendment governmental authority issues. Emphasis is placed on development of analytical reasoning skills through the case study method.
Prerequisite: Junior Standing and CRIJ 2364 .

CRIJ 4398. Prblm Analysis in Vict Studies. 3 Hours.
This course serves as a capstone for Victim Studies undergraduate students. Students will use skills and knowledge from prior victim studies courses to address victimization issues. The course will consist of applications of research skills and analytic techniques to address facets of victimization including intimate partner violence, violence against women, elder abuse, and child abuse and neglect.
Prerequisite: Senior standing and CRIJ 3350.

Dance (DANC)

DANC 1101. Dance Workshop. 1 Hour.
This is a practical workshop in support of the Department of Dance concerts and activities. Duties include costume construction, backstage and front of house support, and audio/video recording and dubbing.

DANC 1201. Pilates-based Cond for Dance. 2 Hours.
This is an introductory course in Pilates-based body conditioning. Designed by Joseph Pilates in the early 20th Century, Pilates is a movement-based exercise method that stretches, strengthens, and balances the body. Much of its popularity today is due to its regenerative effects on the body-its ability to encompass and connect the mind, body, and spirit with result of health, wholeness and a highly refined overall movement system.

DANC 1204. Folk Dance Forms. 2 Hours.
Dances indigenous to Europe, Mexico and the United States are studied in relation to their cultural derivations. Special consideration is given to dance as a cultural and recreational activity.

DANC 1206. Theater Dance Forms. 2 Hours.
Specific theatrical dance forms such as ballet, jazz, modern dance, and Hip Hop are studied in specially dedicated sections.

DANC 1221. Intro to Ballet Dance Techniqu. 2 Hours.
This course introduces the theory and practice of ballet. No previous experience in dance is required.

DANC 1222. Intro to Modern Dance Techniqu. 2 Hours.
This course introduces concepts of modern dance and gives students practice in self expression through movement. No prior experience in dance is required.

DANC 1223. Jazz Dance Technique I. 2 Hours.
This course introduces students to the dance vocabulary and movement of jazz technique. No prior dance experience is required.

DANC 1228. Tap Dance Technique I. 2 Hours.
In this course, tap technique is introduced and practiced. No prior dance experience is expected.

DANC 1229. Hip Hop Dance Technique. 2 Hours.
This course gives students practice in forms of hip hop dancing. No previous experience is required.

DANC 1333. Ballet Dance Technique I. 3 Hours.
This course establishes the fundamentals of ballet, including alignment, technique and vocabulary. May be repeated for credit, max or 6 credits.

DANC 1334. Modern Dance Technique I. 3 Hours.
This course establishes the fundamental of modern dance technique. May be repeated for credit, max of 6 credits.

DANC 1372. Dance As Art. 3 Hours.
This course is a video survey of the vast range of theatrical dance that has taken place in the twentieth century. Forms and styles covered include ballet, modern/postmodern, jazz, musical theater, tap, contemporary dance, and dance for music video.

DANC 2223. Jazz Dance Technique II. 2 Hours.
This course expands on the basic dance vocabulary and movements offered in DNC 1223, Introduction to Jazz. Students should have basic experience in jazz dance.

DANC 2228. Tap Dance Technique II. 2 Hours.
This course builds on the basics of tap offered in DNC 1228, Tap Dance Technique I. Students must have prior experience in tap dancing.

DANC 2331. Pilates Body Conditioning II. 3 Hours.
The focus of the course is to develop a solid personal matwork practice at all levels from pre-Pilates through intermediate work, with a strong application of the principles of the Pilates method of body conditioning. Experiences with classical Pilates apparatus will supplement and enrich the matwork exercises.
Prerequisite: DANC 1201.

DANC 2332. Social And Folk Dance Forms. 3 Hours.
Social and folk dance forms of ethnic and social significance are studied and performed in relation to their cultural derivations and historical perspectives and their use in period theatrical/concert production. Special emphasis is placed upon the importance of ethnic art forms to contemporary society.

DANC 2333. Ballet Dance Technique II. 3 Hours.
This is a ballet technique class designed for students with fundamental ballet technique. May be repeated for credit, max of 12 credits. Open by audition only.

DANC 2334. Modern Dance Technique II. 3 Hours.
This is a modern dance technique class designed for students with fundamental dance technique. Students who are not dance majors must have permission of instructor or department chair to register. May be repeated for credit, max 12 credits.

DANC 2337. Beginning Aerial Dance. 3 Hours.
This course introduces students to aerial dance technique. The course activities include conditioning exercises targeting core strength building, learning basic aerial dance vocabulary, and practicing fundamental aerial climbing techniques.

DANC 2372. Dance History. 3 Hours.
A chronological survey is made of the history of dance from the 1700's to the modern period. Special emphasis is placed on the philosophic relationship of dance to the various cultural epochs.

DANC 2373. World Dance:Exploring Cultures. 3 Hours.
In this course, students will experience dances from different world regions. Although comparisons between cultures will become evident, the primary objective is to identify and study cultural characteristics.

DANC 2376. Choreography I. 3 Hours.
The student learns to analyze the various components of design and to create basic dance studies that demonstrate understanding of dance as a craft and as an art.
Prerequisite: A minimum of intermediate standing in ballet or modern dance, or permission of the instructor is required to register for this course.

DANC 3301. Pilates Teaching Methods I. 3 Hours.
Students will become familiar with the foundational principles and concepts behind the Pilates Method of body conditioning in preparation for teaching its matwork component. Course work will address breath, core activation, neutral spine, and lumbo-pelvic stability as they apply to the proper execution of beginning to intermediate-level exercises. An essential aspect of the course is observation of professional Pilates teachers in practice, with both individual clients and in a group instruction setting. Course requirements include regular class meetings, a minimum of 15 documented hours of teacher observation, a journal of observations, and written and practical evaluation.
Prerequisite: DANC 1201, DANC 2331, and either DANC 3374 or BIOL 2401.

DANC 3333. Ballet Dance Technique III. 3 Hours.
This is an intermediate level ballet technique class that presumes substantial ballet training. Open by audition only. May be repeated for credit, max of 12 credits.

DANC 3334. Modern Dance Technique III. 3 Hours.
This is an intermediate level modern dance technique class that presumes substantial modern dance training. Open by audition only. May be repeated for credit, max of 12 credits.

DANC 3335. Jazz Dance Technique III. 3 Hours.
This course is designed for the dancer with sound foundations in jazz technique. The course will focus on developing technical skills, increasing strength and flexibility, and developing performance quality in jazz dance. May be repeated for credit, max of 9 credits. Open by audition only.

DANC 3336. Improvisation & Partnering. 3 Hours.
Through the study of improvisational and partnering techniques, students will explore a wide range of movement and develop spontaneous problem-solving skills. Additionally, students will learn proper body mechanics that will assist them in various partnering techniques.

DANC 3337. Intermediate/Advanced Aerial Dance. 3 Hours.
This course further develops skills learned in Beginning Aerial Dance by expanding aerial dance vocabulary and exploring aerial dance as an expressive art form. The activities include intermediate to advanced conditioning exercises targeting core strength building, and applying thoughtful artistry to the performance of aerial dance.
Prerequisite: DANC 2337 and permission of the instructor.

DANC 3373. Laban Movement Analysis. 3 Hours.
This course provides an overview of Laban Movement Analysis emphasizing the areas of Body, Effort, Shape, Space, and components necessary to understand and support non verbal communication. Theory, supported by experiential activities, provides the student the opportunity to better understand human movement as well as providing a means of acquiring efficient, expressive movement. A brief history/application of LMA is included in the curriculum.

DANC 3374. Principles Of Dance Technique. 3 Hours.
This course provides the student with an overview of the movement system emphasizing the subjective control experience in dance. Methods of tuning the system including body therapies, conditioning regimes, body awareness techniques, and dance training. These methods will be practiced, reviewed, and compared.

DANC 3376. Choreography II. 3 Hours.
This course builds on skills developed in DANC 2376, Choreography I. Students develop duet and small group compositional studies.
Prerequisite: DANC 2376 and/or permission of the instructor.

DANC 4092. Special Topic. 1-3 Hours.
Opportunities are offered for thorough study of a variety of topics which students may choose in dance. Such topics as Historical Period Dance, Ethno-cultural Studies, Choreographic Projects, et cetera, are illustrative.

DANC 4093. Independent Study. 1-3 Hours.
Opportunities are offered for individual study of an approved problem in dance. May be repeated for credit. Credit 1-3.

DANC 4301. Pilates Teaching Methods II. 3 Hours.
Students will gain a greater level of expertise in the Pilates Method of body conditioning as they prepare to teach its mat work component. Using the foundational concepts and principles learned in DANC 3301 they will further explore the integration of the musculo-skeletal system in movement by way of the Advanced and Super-Advanced exercises. In addition they will address the conduct of a group instruction setting over a period of time to become familiar with the process of bringing students to a more advanced level in their individual practice. An important aspect of the course is the actual teaching of both private lessons and group classes to gain practical experience as teachers. Course requirements will include regular class meetings, a minimum of 35 documented hours of student teaching, and written and practical evaluation.
Prerequisite: DANC 1201, DANC 2331, DANC 3301, and either DANC 3374 or BIOL 2401.

DANC 4330. Repertory. 3 Hours.
The student is involved in rehearsals in which dance works by faculty and guest artists, as well as the great masters of choreography, are staged or reconstructed in preparation for major dance program performances.

DANC 4333. Ballet Dance Technique IV. 3 Hours.
This is a pre-professional level of ballet technique in which dancers will develop a high degree of technical ability and expressive range. Open by audition only. May be repeated for credit, max of 12 credits.
Prerequisite: DANC 3333 or permission of the instructor.

DANC 4334. Modern Dance Technique IV. 3 Hours.
This is a pre-professional level of modern dance technique in which dancers will develop a high degree of technical ability and expressive range in the modern dance idiom. Open by audition only. May be repeated for credit, max of 12 credits.
Prerequisite: DANC 3334 or permission of the instructor.

DANC 4335. Jazz Dance Technique IV. 3 Hours.
This is a pre-professional level of jazz dance technique in which dancers will develop a high degree of technical ability and expressive range. May be taken for repeat credit, max of 9 credits. Open by audition only.

DANC 4372. Dance Criticism & Analysis. 3 Hours.
Students will develop critical skills, applying multiple lenses and approaches that are needed for the analysis of choreography and choreographers. Exploring the political and social contexts that inform the work will broaden students' understandings of external influences on creative expression. Emphasis is on writing informed, insightful analyses of the form, content, context, and effectiveness of choreographic works.

DANC 4376. Choreography III. 3 Hours.
This course is designed to help the student develop extended solo, duet, and ensemble works for performance expanding on compositional tools from DANC 2376, Choreography I, and DANC 3376, Choreography II.
Prerequisite: DANC 3376 and/or permission of the instructor.

DANC 4377. Senior Studio. 3 Hours.
In this capstone choreography course, students will develop skills needed to create and produce dance. These skills include conducting an audition, coordinating a rehearsal schedule, directing and managing dancers through the creative process, and communicating effectively with costumers and lighting designers. The culminating efforts of this class will result in a fully-produced dance concert in which each student will complete and present the choreography developed during the course.
Prerequisite: DANC 3376.

DANC 4384. Dance Pedagogy. 3 Hours.
This course acquaints students in dance with methods for teaching ballet and modern dance technique. Students gain theoretical and practical experience, focusing on the use of anatomically-correct and systematic approaches to developing dance skills. Class structure, design of exercises, effective communication with students, and selection of appropriate musical accompaniment are examined.

DANC 4388. Dance and Technology. 3 Hours.
This course is a continuation of the choreography series and enables students to effectively pursue technology in their creative endeavors. It introduces methods of integrating media technologies into the dancer's experience in the areas of dance graphics, sound design for dance, and dance video. Students learn camera, computer and software skills that will facilitate their ability to expand creative expression as well as enhance their ability to package and promote themselves as artists in a variety of media.
Prerequisite: DANC 2376 and DANC 3376.

DANC 4389. Career Resources in Dance. 3 Hours.
This course is designed for the graduating dance student who is preparing to enter the job market. Emphasis will be placed on resume building, the job search, and the audition process. Students will create and package a portfolio that includes a resume, letter of application, video resume, an audition solo, and an artistic statement.

Design and Development (ETDD)

ETDD 1361. Engineering Graphics. 3 Hours.
This is a recognized standard course in beginning drawing for engineering and industrial education.

ETDD 1366. Machining Technology I. 3 Hours.
This course serves as an introduction to the problems, techniques, and processes of modern machining technology. Instruction is given in the use of hand and machine tools, introduction to computer numerical control, product planning and development, metric measurement, safety, and opportunities for employment in the machining industry.

ETDD 1390. Intro -Computer Aided Drafting. 3 Hours.
This course is intended to provide the student with an understanding of Computer-Aided Drafting principles. Students will utilize the software command structure of two popular CAD programs, namely AutoCAD and MicroStation, to complete a number of typical and practical drafting application exercises. Approximately one-half of the semester will be spent on each program.

ETDD 2367. Metal Building Systems. 3 Hours.
This course is a study of materials and methods of construction found in metal building systems. Instruction is given in the correct use of hand and power tools, job safety, job-site controls, material handling, equipment and application. Aspects of load design calculations, fastener use, metal coatings, and erection equipment are studied. Laboratory instruction includes basic metal working processes (welding, sheet-metal, foundry, and wrought-iron work) used in metal frame construction. (2-2).

ETDD 2396. Special Topic. 3 Hours.

ETDD 3310. Product Design & Development. 3 Hours.
This course explores the processes by which products are brought to the market place. Processes are examined with special emphasis placed on manufacturing, prototyping, patent and trademark procedures, industrial deisgn, problem solving, and decision-making. In addition, creating and working in cross-functional teams to produce products for consumer use is addressed.
Prerequisite: Sophomore standing, ETDD 1390 or ETDD 1361.

ETDD 3379. Industrial Systems Drafting. 3 Hours.
This course includes the illustration and preparation of drawings and the related symbolism used in electrical and fluid fields. Related and required piping and fitting fundamentals are also covered.
Prerequisite: ETDD 1390 or ETDD 1361 and Sophomore standing.

ETDD 4096. Directed Study. 1-6 Hours.
Arranged professional and developmental learning experiences incorporating a practical application of design and development skills and practices. To include internships, individual research and industry studies. Variable Credit (1-6).
Prerequisite: Sophomore standing.

ETDD 4339. Computer-Aided Drafting Produc. 3 Hours.
This is a computer applications course for design and drafting and introduces students to the techniques used to produce technical models/drawings. Students will learn drafting practices and how to apply them using computer-aided software. Prior knowledge of drafting software and/or prior experience of working with computers is advantageous, but not required/expected. Students will produce technical drawings using various computer design and drafting practices. Concepts of 2D drawings will be covered along with an introduction to three dimensional parametric modeling. The intent is to develop fundamental knowledge and skills that are conceptually applicable to any computer-aided design (CAD) system.
Prerequisite: ITEC 1361 or ITEC 1363 and Junior standing.

ETDD 4369. Special Topic. 3 Hours.

ETDD 4380. Material Hand & Plant Layout. 3 Hours.
This course is the study of the basic requirements needed to develop the most efficient layouts of equipment and of operating and service facilities whether in manufacturing plants, warehouses, or other industrial or business applications. Special emphasis is on the necessary coordination between plant layout, materials handling, work simplification and production planning, and operation control. Junior standing.
Prerequisite: ETDD 1361.

ETDD 4388. 3D Parametric Design. 3 Hours.
This is a computer applications course for parametric design and drafting, in which the computer is used to produce parametric technical models/drawings. Students will learn drafting practices and how to apply them using computer aided software. Students will further be able to produce technical drawings using 3D CAD packages. Concepts of creating 2D drawings will be covered along with introduction to 3D parametric modeling. The course will enable the student to use Autodesk Inventor in advanced parametric design/drafting and other courses.
Prerequisite: ETDD 1390 or ETDD 1361.

Digital Forensics (DFSC)

DFSC 1316. DF and IA Fundamentals I. 3 Hours.
This course introduces students to the fundamentals of Digital Forensics (DF) and Information Assurance (IA) technologies. Topics include basics of DF and IA, numbering systems, logic, Boolean operations, network packets, OSI layers, TCP/IP protocols, basic scripting and compiled languages, and basics of hardware and file system forensics.

DFSC 2316. DF and IA Fundamentals II. 3 Hours.
This course focuses on Digital Forensics (DF) and Information Assurance (IA) processes and methodologies. Topics include preparation of the investigator, proper acquisition of evidence, authentication, analyzing data without modifying it, reporting findings, and risk assessment of evidence. In addition, current methodologies such as cryptography and network security, Internet programming, smartphone forensics, network forensics, and cloud forensics will be discussed.
Prerequisite: DFSC 1316.

DFSC 2320. Hardware Forensics. 3 Hours.
Techniques in the duplication, recovery and restoration of digital evidence. Includes hard disks, floppy drives, CD formats, DVD formats, zip drives, mobile phones, PDA?s smart cards, memory technologies, and other devices capable of storing digital information.
Prerequisite: DFSC 1316.

DFSC 3316. Cryptography and Network Scrty. 3 Hours.
This course involves the study of both the theory and practice of cryptography and computer and network security, and focuses on the security aspects of the web and the internet. It surveys cryptographic tools used to provide security, such as shared key encryption, public key encryption, key exchange, and digital signature algorithms. It then reviews how these tools are used in the current Internet protocols and network security applications, including wireless network protocols. System security issues, such as viruses, worms, intrusion, and firewalls will also be discussed.
Prerequisite: DFSC 2316 and MATH 2395 .

DFSC 3320. Digital Forensics Tools. 3 Hours.
This course explores tools for the recovery of information on protected or damaged hardware for the purpose of providing evidence of misuse or abuse of systems. Topics also include the chain of evidence, protocols for data recovery, cryptographic analysis, password recovery, the bypassing of specific target operating systems, and obtaining data from digital devices that have been damaged or destroyed.
Prerequisite: DFSC 1316.

DFSC 4317. Information Security. 3 Hours.
This course provides an introduction to basic security needs. The course will include, but not be limited to individuals vs. government privacy issues, federal encryption standards, the different layers of security currently available, the practical application of user level and system level cryptography, and strategies for evaluation and selection of security methods.
Prerequisite: DFSC 2316 and 3 advanced DFSC hours.

DFSC 4318. Malware. 3 Hours.
This course focuses on analyzing, dissecting, debugging, and reverse-engineering malicious software. Topics include conventional and advanced static and dynamic analysis of malware in a virtual environment using disassemblers, debuggers, packers/unpackers and virtual machine tools.
Prerequisite: DFSC 3320 and a basic knowledge of the C programming language, fundamentals of x86 disassembly and Windows programming are required.

DFSC 4319. Principles of Data Quality. 3 Hours.
This course provides a rigorous exploration of data quality concepts, assessment techniques, and problems in organizational information systems, databases, and data warehouses. A combination of state-of-the-art literature review and hands-on projects is used to develop knowledge and ability to analyze and clean the data.
Prerequisite: 6 advanced COSC/DFSC hours.

DFSC 4338. Cyber Warfare. 3 Hours.
This course examines the philosophies, targets, and tactics of organizations involved in the development of cyber offensive and defensive capabilities. Topics include emerging cyber warfare trends and the role of the private sector and the U.S. government in identifying, protecting, detecting, responding to, and recovering from cyber warfare threats.
Prerequisite: DFSC 4318.

DFSC 4340. Spcl Tpcs In Digital Forensics. 3 Hours.
Topics of general interest are offered on a timely basis. Previous topics include DC3 Challenge.
Prerequisite: 6 advanced hours of DFSC and senior standing.

Early Childhood Education (ECHE)

ECHE 3128. Field Exp - Early Childhood Ed. 1 Hour.
Students will practice behavior management techniques with children in public school pre-kindergarten or kindergarten classrooms. This course is taken concurrently with ECHE 3229.
Prerequisite: 60 hours.

ECHE 3229. Guidance Of Young Children. 2 Hours.
Classroom and behavior management techniques which are appropriate for young children will be presented with an emphasis on inductive discipline which leads to self-discipline. This course is taken concurrently with ECHE 3229.
Prerequisite: 60 hours.

ECHE 3243. Curriculum For Early Childhood. 2 Hours.
This course will prepare teacher candidates in the EC-6 certification program to become successful in teaching in the early childhood grades, EC-3, by using effective models of teaching and learning. Emphasis is placed on assessment strategies that help strengthen the link between the early childhood grades, EC-3 curriculum and responsive instructional practices for meeting the needs of diverse young children. 10 hours of field experiences in public schools at appropriate levels included in this course.
Prerequisite: 60 hours, CIEE 3374, ECHE 3313, SPED 2301.

ECHE 3313. Early Childhood Cognition. 3 Hours.
This course is intended to provide a foundation for viewing the early years of life as a distinctly different period in the childis life. The early childhood view of the world is based on the child is developing physical, cognitive, linguistic, and socio-emotional skills and processes. Focus will include an emphasis on the child, the family, and the environment in which the child lives.

ECHE 3315. Developmentally Appropriate Creative Expression. 3 Hours.
This course is intended to provide a foundation in understanding children?s creative thought and expression. Topics also addressed will be the integration of health, physical education, art, drama, creative writing, dance, and music into the curriculum in a way that fosters developmentally appropriate learning and growth.

ECHE 3325. Creative Arts for Educators. 3 Hours.
In this course, students explore the underlying concepts of art, music, dramatic interpretation, theater, and dance and movement. Students learn to integrate these artistic expressions throughout the early childhood curriculum.

ECHE 3363. Wrkng /W Families-Diverse Comm. 3 Hours.
This course is an in-depth study of the relationships between families and schools in diverse communities. Topics addressed in this course include discussions of major theories that support partnerships with parents; models for parent, school, and community partnerships; home, school and community influences on children?s lives; parenting styles; family dynamics; parent education strategies; communication with parents; and the rights and responsibilities of parents, children and teachers. Field experience with young children, their families, and the community will be required.
Prerequisite: 60 hours.

ECHE 4088. Spc Topics in Early Childhd Ed. 1-3 Hours.
This course is designed to permit individual students to study specific areas of interest and need.
Prerequisite: Approval of Department Chair.

ECHE 4089. Ind Study Early Childhood Ed. 1-3 Hours.

ECHE 4333. Dev Appr Prog For Yng Children. 3 Hours.
An in-depth study will be made of developmentally appropriate practices in schools for young children. Appropriate curriculum and instruction, thematic unit development, and a study of the Texas Essential Knowledge and Skills are major areas of emphasis. Field experience is required.
Prerequisite: 60 hours.

ECHE 4343. Curriculum for Early Childhood. 3 Hours.
In this course, students analyze and practice developmentally appropriate pedagogy that strengthens the link between age appropriate, active, engaged learning with identified state standards for the early childhood classroom (preschool - kindergarten). Fifteen hours of field experience in preschool/kindergarten classrooms are required as part of this course.
Prerequisite: 60 hours.

ECHE 4349. Lang/Lit Development. 3 Hours.
Candidates will investigate language acquisition and early literacy experiences of children from birth through kindergarten. Special emphasis is given to the characteristics of early learning envrionments and the teacher's role in the development of language processes, early experiences with print, and integrating early language and literacy activities into experiences of young children.
Prerequisite: ECHE 3313.

ECHE 4350. Preschool Child Wellness. 3 Hours.
In this course candidates will identify and analyze principles of wellness in the early childhood setting. Topics include health and physical fitness, signs of neglect and abuse, educator legal and ethical responsibilities, and communication with parents regarding young children's well being.
Prerequisite: 60 hours.

ECHE 4373. Early Childhood Theory and Cognition. 3 Hours.
This course is a required course for the Bachelor of Arts in Applied Science in Early Care and Education. The class is designed for early childhood preschool and Head Start teachers who are not seeking Texas Teacher Certification. Topics include an emphasis on the young child?s cognitive, physical, and social abilities as a foundation for planning appropriate classroom experiences.

ECHE 4399. Std Tch Kindergarten Classroom. 3 Hours.
Approximately six to seven weeks of student teaching experience in a public pre-kindergarten or kindergarten is provided.
Prerequisite: Admission to Student Teaching Program.

Economics (ECON)

ECON 1100. Economics of Social Problems. 1 Hour.
This course will develop needed critical thinking skills by requiring students to analyze the distributional effects, equity, benefits/costs, and unintended consequences of policies. Students will learn the importance of becoming engaged citizens with an emphasis on efficiency and equity issues. The course will enhance student offerings by providing an additional option to complete the one hour elective in the Social and Behavioral Science component of the university core.

ECON 2300. Introduction To Economics. 3 Hours.
This course is a combination of micro-economic and macro-economic principles. It is designed for those who are neither majors nor minors in economics but who would benefit from a one semester introduction to economic principles. No credit given for ECON 2300 if ECON 2302 or ECON 2301 previously completed.

ECON 2301. Principles Of Macroeconomics. 3 Hours.
In this course, students will survey the following topics: the economic role of government, public finance and taxation, unemployment and inflation, national income theory, money and banking, economic fluctuations and growth, and international trade and finance.

ECON 2302. Principles Of Microeconomics. 3 Hours.
In this course, students will survey basic economic principles including individual decision making, price theory, analysis of the firm, competition and monopoly, and the distribution of income.

ECON 3341. Comparative Economics Systems. 3 Hours.
In this course, students will examine market oriented, free enterprise capitalism, and its development, compared with alternative economic system.
Prerequisite: 50 Completed hours and ECON 2300 or ECON 2301 or ECON 2302.

ECON 3344. Cont International Issues Eco. 3 Hours.
In this course, students will survey current literature dealing with international trade and financial issues.
Prerequisite: 50 Completed hours and ECON 2300 or ECON 2301 or ECON 2302.

ECON 3351. Labor Economics. 3 Hours.
In this course, students will examine unemployment, wage theory, collective bargaining, labor legislation, and proposals for the solution of labor problems. The recent problems of labor are given special consideration.
Prerequisite: 50 completed hours and ECON 2300 or ECON 2301 or ECON 2302.

ECON 3352. Energy & Environmental Econ. 3 Hours.
In this course, students will examine how human values, activities, and institutions affect the environment and how the tools of economics can be used to evaluate public policy alternatives designed to improve the quality of the environment.
Prerequisite: 50 Completed hours and ECON 2300 or ECON 2301 or ECON 2302.

ECON 3357. Intermediate Microeconomics. 3 Hours.
In this course, students will study the following topics: pricing and output policies of firms; resource pricing; and distribution under condition of perfect competition, monopoly, oligopoly, and monopolistic competition.
Prerequisite: 50 completed hours and ECON 2302 and BANA 2372.

ECON 3370. Economics Of Business & Govt. 3 Hours.
In this course, students will study the complex relationship between the business sector and the public sector in the United States and in the global marketplace. Topics will include the regulation of business in its various formats and the promotion of business nationally and internationally.
Prerequisite: 50 Completed hours and ECON 2300 or ECON 2301 or ECON 2302.

ECON 3372. Intermediate Macroeconomics. 3 Hours.
In this course, students will examine the following topics: national income concepts and measurements; the analysis of the factors influencing the level of national income, employment, price, and production; and applications to current problems.
Prerequisite: 50 Completed hours and ECON 2301 and BANA 2372.

ECON 3373. Urban And Regional Economics. 3 Hours.
In this course, students will analyze issues of spatial economics, including why cities are formed, patterns of residential and business location, transportation problems, crime, poverty, and suburban sprawl.
Prerequisite: 50 Completed hours and ECON 2300 or ECON 2301 or ECON 2302.

ECON 3374. Eco Of Public Fin & Public Pol. 3 Hours.
In this course, students will examine the function of government in the marketplace with emphasis on pubic goods, externalities, taxation, fiscal federalism, and cost-benefit analysis.
Prerequisite: 50 Completed hours and ECON 2300 or ECON 2301 or ECON 2302.

ECON 4080. Independent Study. 1-3 Hours.
Individual study arranged with a member of the Economics and International Business faculty. Conferences and written reports are typically required. A carefully prepared research paper concludes the course. This course may be taken for Academic Distinction Credit and can be used for internship credit. This course may be repeated. Variable Credit (1-3).
Prerequisite: 50 completed hours and departmental approval.

ECON 4085. Special Topic. 1-3 Hours.
This course of faculty-led study is designed to provide undergraduate students exposure to new Economics topics and concepts in a course setting. Variable credit (1-3).

ECON 4340. International Economics. 3 Hours.
In this course, students will survey a wide range of topics of international economics with emphasis on international trade theory and policy.
Prerequisite: 50 Completed hours and ECON 2300 or ECON 2301 or ECON 2302.

ECON 4348. Economic Development. 3 Hours.
In this course, students will examine the theoretical explanations and historical factors of economic development and underdevelopment, as well as analyze policies for accelerating development in third world countries.
Prerequisite: 50 Completed hours and ECON 2301 and ECON 2302.

ECON 4350. Health Economics and Finances. 3 Hours.
The health care sector compromises one-sixth of the U.S. Gross Domestic Product and has grown continuously over the last 20 years. Given the large employment by the health care sector and the complex policy issues regarding health care, students will benefit from a clear understanding of the structure of the industry.
Prerequisite: 50 Completed hours and ECON 2300 or ECON 2302 or departmental approval.

ECON 4353. Economics Of Sports. 3 Hours.
In this course, students will apply economic principles to sport and analyze economic aspects of sports including ; demand and supply, advertising, team output decisions, and league/conference organization role of government.
Prerequisite: 50 Completed hours and ECON 2300 or ECON 2301 or ECON 2302.

ECON 4357. Managerial Economics. 3 Hours.
This course in an integration of economic tools of analysis with optimization techniques such as calculus, LaGrangian multipliers, and linear programming. Additional topics include risk analysis and decision-making under uncertainty, inventory control, profitability analysis, and capital budgeting.
Prerequisite: 50 Completed hours and ECON 2301 and ECON 2302 and BANA 3363 and FINC 3320.

ECON 4360. Intl Field Studies in Economic. 3 Hours.
This course is the study of economic policy, institutions, firms, and consumer behavior of the host country in a study abroad program.
Prerequisite: 50 Completed Hours, ECON 2300 or ECON 2301 or ECON 2302, and departmental approval.

ECON 4362. Econometrics for Business. 3 Hours.
This course focuses on the process of gathering and analyzing nonexperimental economic data. Students will analyze cross-sectional, time series, and panel data; using multiple regression techniques and interpret the results within an economics framework.
Prerequisite: BANA 3363 and ECON 3357 or FINC 3320.

ECON 4365. Intro To Bus Forecasting& Econ. 3 Hours.
In this course, students will apply statistical methods for business and economic forecasting and for hypothesis testing, estimation, and analyzing economic data.
Prerequisite: 50 completed hours and ECON 2301 and ECON 2302 and BANA 3363.

ECON 4373. Monetary Economics. 3 Hours.
In this course, students will study the role of money in a market economy with special attention given to national and international monetary and banking systems, as well as to their influence on the levels of income, employment, and international capital movements. (Taught only in the Fall.)
Prerequisite: 50 completed hours and ECON 2300 or ECON 2301 or ECON 2302.

ECON 4389. Internship. 3 Hours.
This course is designed to provide the student an opportunity to apply academic skills in a practical work environment under the supervision and guidance of a working professional.
Prerequisite: 50 completed hours, overall GPA of 2.5 or greater, ACCT 2301, ACCT, 2302, BANA 2372, ECON 2301, ECON 2302, and departmental approval.

Electronics Technology (ETEE)

ETEE 1340. Electronics Technology I. 3 Hours.
This course is designed to provide fundamental understanding of electronics in DC circuits. Emphasis is on knowledge and application of electrical safety, power generation, metering instruments and circuit analysis. Laboratory experiences include hands-on circuit construction and basic troubleshooting.

ETEE 2320. Electronics Technology II. 3 Hours.
This course is an in-depth study of the electronic principles associated with AC circuits. Topics of study include network theorems, circuit analysis methods, resonance, filters and frequency responses of reactive circuits.
Prerequisite: ETEE 1340 or consent of instructor.

ETEE 2396. Special Topic. 3 Hours.

ETEE 3350. Solid State Electronics. 3 Hours.
This course is designed to provide in-depth knowledge and experience in the principles and applications of solid-state devices. Specific emphasis is placed on the construction, characteristics and applications of diodes, rectifiers, transistors, thyristors and integrated circuits. Laboratory experience is gained through circuit construction, testing and troubleshooting.
Prerequisite: ETEE 2320 or consent of instructor.

ETEE 3373. Industrial Electronics. 3 Hours.
The principles and operation of electrical switching, timing and control devices are studied with emphasis on industrial solid state and digital controls. Topics of coverage include serveomechanisms, tranducers, motor control systems and closed-loop industrial systems. Sophomore standing.
Prerequisite: ETEE 2320 and ETEE 1340.

ETEE 4096. Directed Study. 1-6 Hours.
Arranged professional and developmental learning experiences incorporating a practical application of electronics technology skills and practices. To include internships, individual research and industry studies. Variable Credit (1-6).
Prerequisite: Sophomore standing.

ETEE 4351. Automation & Control Systems. 3 Hours.
This course explores the concepts of automation, electrical control systems, and programmable logic controllers. Topics may include principles of control system operations, numbering systems as applied to electrical controls, types of programmable logic controllers and their operation, equipment interfacing, and ladder logic programs. Application-oriented laboratory experiments and design problems are used to enhance students' knowledge and skills.
Prerequisite: ETEE 3350.

ETEE 4352. Instrumentation & Interfacing. 3 Hours.
This course focuses on computer-aided instrumentation and interfacing. Topics include real-time industrial data acquisition hardware and software, sensors, signal conditioning, and the design of data acquisition systems using software tools.
Prerequisite: ETEE 3350.

ETEE 4369. Special Topic. 3 Hours.

ETEE 4373. Digital Electronics. 3 Hours.
This course is a study of the principles and applications of digital logic circuits including logic gates, counters, shift registers, and combinational logic circuits. Laboratory experiences consist of experimental problems. Junior standing.
Prerequisite: ETEE 2350 or consent of instructor.

Elementary Education (CIEE)

CIEE 2333. Becoming A Teacher. 3 Hours.
This required course for those seeking EC-6 or 4-8 certification is an introduction to the concept of teaching as a professional career that makes a difference in the lives of children, youth and their families. The course engages the teacher candidates in the examination of social economics, language diversity, historical, political, curriculum, theoretical, and philosophical issues related to making a commitment to education. Ten (10) hours of field experience required in Pre-K-6 public schools.
Prerequisite:18 Hours.

CIEE 3323. Curriculum for Intermediate Grades. 3 Hours.
Curriculum for Intermediate Grades will prepare teacher candidates to analyze and plan EC-6 and 4-8 content using the Texas Essential Knowledge and Skills. For those seeking EC-6 and 4-8 certification only. Must be completed before content methods.
Prerequisite: 54 Hours.

CIEE 3334. Mth Instruction In Elem Grades. 3 Hours.
This course emphasizes making mathematics meaningful to children. Experience is provided in the selection and evaluation of mathematics curriculum and audio visual materials and the preparation of appropriate instructional materials. Students observe and teach mathematics lessons in an elementary grades classroom. Field experiences required. This course is taken as part of the Elementary Methods Block for EC-6 Certification.
Prerequisite: CIEE 3374 and CIEE 3323 Admission to Educator Preparation Program and Departmental Approval.

CIEE 3335. Sci Instruction In Elem Grades. 3 Hours.
This course emphasizes making science meaningful to children. Experience is provided in the selection and evaluation of science curriculum and audio visual materials and the preparation of appropriate instructional materials. Students observe and teach science lessons in an elementary grades classroom. Admission to Educator Preparation Program and Departmental approval. Field experiences required. This course is taken as part of the Elementary Methods block for EC-6 Certification.
Prerequisite: CIEE 3374 and CIEE 3323.

CIEE 3336. Soc Stdy Instrctn In Elem Grds. 3 Hours.
This course emphasizes making social studies meaningful to children. Experience is provided in the selection and evaluation of social studies curriculum and audio visual and the preparation of appropriate instructional materials. Students observe and teach social studies lessons in an elementary grades classroom. Admission to Educator Preparation Program and Departmental approval. Field experiences required. This course is taken as part of the Elementary Methods block for EC-6 Certification.
Prerequisite: CIEE 3374 and CIEE 3323.

CIEE 3343. Curriculum and Assessment. 3 Hours.
In this course, teacher candidates focus on design, implementation, and evaluation of curriculum including components of highly successful programs. Emphasis is on assessment strategies that strengthen the link between curriculum and responsive instructional practices for meeting the needs of all learners.

CIEE 3374. Human Growth & Learning. 3 Hours.
This course examines growth and learning in elementary environments. Major theories of the teaching-learning process are studied. Human development related to education is emphasized. Special attention is paid to the cultural milieu. Field experiences in public schools (10 hours). Required for EC-6 certification.
Prerequisite: 54 hours.

CIEE 3385. Creatng Env For Learng In Elem. 3 Hours.
The purpose of this course is to provide the prospective elementary school teacher with the experiences in classroom management and discipline theories appropriate for the diverse population of students in the elementary school. Admission to Educator Preparation Program and Departmental aproval. This course is taken as part of the Elementary Methods Block for EC-6 Certification.
Prerequisite: CIEE 3374 and CIEE 3323.

CIEE 4088. Special Topics in Elem Educ. 1-3 Hours.

CIEE 4089. Independent Study in Elementary Education. 1-3 Hours.
Designed to permit individual students to study specific areas of interest and need.
Prerequisite: Departmental Approval.

CIEE 4116. Integrating Technology II. 1 Hour.
The purpose of this course is to plan, organize, deliver, assess, and evaluate instruction for diverse learners in a public school. Incorporating the effective use of technology at each level of the instructional cycle. In addition, this course incorporates the implementation of appropriate media for communication with and among colleagues, mentors and students. For those seeking EC-6 certification only.
Prerequisite: Senior standing.

CIEE 4117. Assessment. 1 Hour.
This course focuses on the study and application of assessment to ascertain the development of knowledge and skills of children in the classroom. Emphasis is placed on the integration of assessment with technology and complexities in working with ELL learners. This course is offered in conjunction with student teaching. For those seeking EC-6 certification only.
Prerequisite: Senior standing and completion of the Methods Block coursework.

CIEE 4227. Integrating Technology I. 2 Hours.
This course will apply technology and computers to support instruction in various content areas. The course will explore, evaluate, and utilize computer/technology resources to design and deliver instruction as well as to assess student learning. Field experience required.
Prerequisite: Senior standing, CIEE 3374 and CIEE 3385.

CIEE 4367. Intgrt Tech Into Instr In Elem. 3 Hours.

CIEE 4376. Developing Prof Tchr Portfolio. 3 Hours.
The purpose of this course is to provide the prospective elementary or middle school teacher the opportunity to organize artifacts on the development, exploration, integration, application, and teaching of content knowledge, pedagogical knowledge and skill development in the development of a professional teacher portfolio.
Prerequisite: Concurrent enrollment in student teaching and Departmental Approval.

CIEE 4377. Early Adolescent Learners. 3 Hours.
In this course, teacher candidates focus on the developmental changes that occur in early adolescence and the best practices that influence instruction in middle grades (grades 4-6).
Prerequisite: CIEE 3374.

CIEE 4384. Assessment Of Student Learning. 3 Hours.
This course will prepare teacher candidates to become successful in developing assessment strategies that help strengthen the link between the elementary school curriculum and responsive instructional practices for meeting the needs of diverse learners. This course is taken as part of student teaching.
Prerequisite: CIEE 3323 and CIEE 3374; Admission to Educator Preparation Program and Departmental approval.

CIEE 4391. Std Tch Elementary School. 3 Hours.
The student is assigned to student teach in an elementary school classroom for two placements totalling approxiamately twelve to fourteen weeks. This time is divided among observation, participation, teaching and conference activities in two classrooms that span certification grades. This course corresponds to one of those placements. As an example, an EC-6 student will have one placement in a lower grade such as 1st grade and the second placement in a higher level such as 5th grade.
Prerequisite: Senior status and admission to Student Teaching.

CIEE 4392. Std Tch Elementary School. 3 Hours.
The student is assigned to student teach in elementary school classrooms for two placements totally approximately twelve to fourteen weeks. This time is divided among observation, participation, teaching and conference activities in two classrooms that span the certification grades. This course corresponds to one of those placements. Substitutions in specialized program areas include BESL 4320, SPED 4384, or CISE 4397.
Prerequisite: Senior status and admission to Student Teaching.

Engineering Technology (ETEC)

ETEC 1010. Engineering Foundations. 1-2 Hours.
This course focuses on leadership and study skills necessary for succeeding in the many career options available to professionals in industrial education, buisiness and industry. This course is intended for beginning students. Variable credit 1-2.

ETEC 1371. Descriptive Geometry. 3 Hours.
This course emphasizes problems of space relations of points, lines, surfaces, intersections, and developed surfaces, and their application to the graphical solution of engineering problems.

ETEC 2396. Special Topic. 3 Hours.

ETEC 3300. Technology Innovations. 3 Hours.
This course provides a study of societal technologies and their effects on the daily lives of consumers. The course presents the pervasive nature of technology innovations and increases the awareness of the promises of uncertainty associated with the use of technology as a human enterprise. .

ETEC 3340. Solar and Wind Energy Systems. 3 Hours.
This course will examine grid-connected and stand-alone solar photovoltaic and wind energy systems. System components including batteries, PV modules, charge controllers, maximum power point trackers, vertical and horizontal axis turbines, aerodynamics of wind turbines, wind farms and sighting, and inverters will be discussed. A comprehensive review of power production methods from solar and wind resources will be included, along with site surveying, commercial development,economics and environmental impacts.
Prerequisite: ETEE 1340 and Junior Standing.

ETEC 3360. Related Sci Mth & Tech In Occ. 3 Hours.
This is the written portion of an 18-hour segment of proficiency examinations. Consent of department chair.
Prerequisite: Sophomore standing.

ETEC 3361. Related Science, Mathematics, and Technology in Occupations. 3 Hours.
This is the written portion of an 18-hour segment of proficiency examinations.
Prerequisite: Consent of department chair.

ETEC 3362. Manipulative Skills In Occuptn. 3 Hours.
This segment is for the manipulative portion of the proficiency examination. Consent of department chair.
Prerequisite: Sophomore standing.

ETEC 3363. Manipulative Skills in Occupations. 3 Hours.
This segment is for the manipulative portion of the proficiency examination.
Prerequisite: Consent of department chair.

ETEC 3364. Rel Subj In Occuptnl Pers Qual. 3 Hours.
This is the oral portion of the proficiency examination. Consent of department chair.
Prerequisite: Sophomore standing.

ETEC 3365. Knowledge of Related Subjects in Occupations and Personal Qualifications. 3 Hours.
This is the oral portion of the proficiency examination.
Prerequisite: Consent of department chair.

ETEC 3367. Engineering Materials Techn. 3 Hours.
This course consists of the principles and techniques involved in designing and drawing machine parts and other items normally required in an industrial setting. Topics include sectioning, dimensioning, view rotation, symbols, legends, developments, and blueprint details. Junior standing.
Prerequisite: ETDD 1390 or ETEC 1361.

ETEC 3374. Time And Motion Study. 3 Hours.
A study of the principles of motion economy, work measurement and improvement of production methods as they apply to modern industry. Attention is given to human relations, work simplification, and selected charting procedures.
Prerequisite: Sophomore standing or consent of instructor.

ETEC 3375. Statics. 3 Hours.
This course examines qualitative and quantitative treatments of forces and moments. Designing trusses, constructing free body diagrams, and performing equilibrium analysis for coplanar systems are included.
Prerequisite: PHYS 1301, PHYS 1101, and MATH 1316 or MATH 1430 or MATH 2399.

ETEC 3376. Microcontroller Applications. 3 Hours.
This course introduces microcontroller architecture and microcomputer systems, including memory and input/output interfacing. Topics include low-level language programming, bus architecture, I/O systems, interrupts, and other related topics. The functional and technological characteristics of microcontroller structures, memory components, peripheral support devices, and interface logic will be examined. Various hardware configurations and interfacing techniques will be discussed.
Prerequisite: ETEE 1340 and ETEE 2320 and Junior Standing or Consent of Instructor.

ETEC 4096. Directed Study. 1-6 Hours.
Arranged professional and developmental learning experiences incorporating a practical application of engineering technology skills and practices. To include internships, individual research and industry studies. Variable Credit (1-6).
Prerequisite: Sophomore standing.

ETEC 4099. Engineering Innovation. 1-3 Hours.
In this course, students work closely with faculty to design, develop, and implement innovative engineering projects as part of their capstone experience. Variable credit 1-3.
Prerequisite: Faculty Approval.

ETEC 4340. Alternative Energy Technology. 3 Hours.
This course examines existing and potential ambient alternative energy sources, production capacities, energy harvesting, conversion, and storage techniques. The course will also examine fundamental concepts, terminology, definitions, and nomenclature common to all energy systems.
Prerequisite: ITEC 1340 and junior standing.

ETEC 4369. Spec Topics in Industrial Tech. 3 Hours.
Individual study in specialized areas of Industrial Technology. To be directed and approved by the Industrial Technology advisor. This course is designed to be a multitopic course. The student can take the course under various special topics being offered. Sophomore standing.
Prerequisite: Approval of faculty, program coordinator and chair.

ETEC 4376. Strength of Materials. 3 Hours.
This courses focuses on the analysis of stresses, strains, deflection, and deformation in bodies under the action of loads. Topics include statically indeterminate axially loaded members, thermal deformation, distribution of bending and shearing stresses in beams, stress and shear flow formulas, combined stresses and Mohr's circle, torsion on a circular shaft, empirical column formulas, and bolted joint failures.
Prerequisite: ETEC 3375.

ETEC 4384. Supervisory Personnel Practice. 3 Hours.
This course introduces students to the principles of management as pertaining to personnel. Responsibilities of management, industrial economics, supervisory information, training, group dynamics, work simplification, labor and human relations, working conditions, morale, motivation, and mental health are covered. Junior standing.
Prerequisite: ITEC 1361, ITEC 1363 and ITEC 1340.

ETEC 4390. Directed Studies. 3 Hours.
Designed to provide students with the opportunity to gain specialized experience in one or more of the following areas: internship, laboratory procedures, individualized study, innovative curricula, workshops, specialized training schools, and seminars. Internship is required of all teacher education majors. May be repeated or taken concurrently to a maximum of 9 hours. Faculty, Program Coordinator and Chair approval required.
Prerequisite: Sophomore standing.

ETEC 4391. Work Base Mentorship. 3 Hours.
Students work in their specialization in the industry. Students may complete their internship in one or two semesters. Students must work 100 clock hours for 1 college credit. Faculty, Program Coordinator and Chair approval required.
Prerequisite: Junior standing.

English (ENGL)

ENGL 0111. Tutorial for Basic Writing. 1 Hour.
This course is a one-hour writing tutorial, which focuses on basic conventions of college writing, providing instruction in the fundamentals of English grammar, mechanics, word choice, vocabulary, and spelling. The primary concerns are the word, the sentence, the paragraph, and the short theme. The goals of the course are to raise the students' level of understanding of SAE (Standard American English), support them in the ENGL 1301 in which they are simultaneously enrolled, and prepare them for ENGL 1302. Prerequisite: Score of 360-362 in writing in the Texas Success Initiative Assessment Test or Departmental Approval. Credit in this course will not be allowed to count toward graduation or computation of grade point average or classification of students by hours completed. (Course does not fulfill University degree requirements.)
Prerequisite: Score slightly below passing on the writing portion of the Texas Success Initiative (TSI) Assessment Test or departmental approval.

ENGL 1301. Composition I. 3 Hours.
Basic studies in English diction, sentence structure, and rhetoric with emphasis on the development of college level writing. Students scoring 363 or higher in the Texas Success Initiative Assessment may enroll in this course without the companion course ENGL 0111.

ENGL 1302. Composition II. 3 Hours.
A continued study of writing skills in English, emphasizing more complex methods in the writing process thanvENGL 1301. This course prepares students to write academic essays and research papers. An oral component is also included.
Prerequisite: ENGL 1301.

ENGL 2332. Wrld Lit I: Before 17 Century. 3 Hours.
Readings in the classical, medieval, and renaissance masterpieces to analyze and evaluate the philosophical insights and aesthetic values of writers of various cultures. Written assignments are based on themes and concepts in the works studied. Open to all students. Required of English majors.
Prerequisite: ENG 1301 and ENGL 1302.

ENGL 2333. World Lit II: 17th C & After. 3 Hours.
Readings in selected works of representative writers of various cultures beginning from the seventeenth century through the present. Written assignments are based on themes and concepts in the works studied. Open to all students.
Prerequisite: ENGL 1301 and ENGL 1302.

ENGL 3330. Intro To Technical Writing. 3 Hours.
A course in the special problems of technical literature and technical report writing, focusing on the design and content of written communications in business, industry, and government.
Prerequisite: ENGL 1301 and ENGL 1302.

ENGL 3334. Literature And Film. 3 Hours.
A study of the structure, imagery, characterization, and themes of novels, short stories, essays and poems with those of selected motion picture films.
Prerequisite: ENGL 1301 and ENGL 1302.

ENGL 3336. Studies In Women's Literature. 3 Hours.
A study of works by women writers encompassing a variety of genres, nationalities, and literary periods.
Prerequisite: ENGL 1301, ENGL 1302 and either ENGL 2332 or ENGL 2333.

ENGL 3337. African-American Literature. 3 Hours.
Exploration of historical, political, and literary problems particular to African-American writers; the course also explores the development of African-American identity through cultural expression in a variety of media and genres.
Prerequisite: ENGL 1301, ENGL 1302 and either ENGL 2332 or ENGL 2333.

ENGL 3338. Studies In Multicultural Lit. 3 Hours.
Study of themes, techniques, and literary movements from different cultures. Focus will typically be on more than one ethnic or national culture.
Prerequisite: ENGL 1301, ENGL 1302 and either ENGL 2332 or ENGL 2333.

ENGL 3360. Survey Of American Lit To 1865. 3 Hours.
A survey of themes, genres, and authors in American literary history from the period of exploration and settlement through the American Renaissance and the Civil War. Required of all English majors.
Prerequisite: ENGL 1301, ENGL 1302, and either ENGL 2332 or ENGL 2333.

ENGL 3361. Survey Amer Lit From 1865-Pres. 3 Hours.
A survey of authors, genres, and movements in American literature from 1865 to the present, including representative works of Realism, Naturalism, Modernism, and Post-Modernism. Required of all English majors.
Prerequisite: ENGL 1301, ENGL 1302 and either ENGL 2332 or ENGL 2333.

ENGL 3363. Mythology. 3 Hours.
The study of myths and their application to literary studies. Recommended for certification program in Language Arts composite (see Secondary Education Requirements).
Prerequisite: ENGL 1301, ENGL 1302 and either ENGL 2332 or ENGL 2333.

ENGL 3364. Folklore. 3 Hours.
The study of folk motifs of various cultures throughout the world. Recommended for certification program in Language Arts (see Secondary Education Requirements.
Prerequisite: ENGL 1301, ENGL 1302 and either ENGL 2332 or ENGL 2333.

ENGL 3370. Modern Drama. 3 Hours.
The major figures in modern British, American and Continental drama.
Prerequisite: ENGL 1301, ENGL 1302 and either ENGL 2332 or ENGL 2333.

ENGL 3372. Introduction to Linguistics. 3 Hours.
A general introduction to English linguistics. The course covers areas such as the sound system of English, the structure and meaning of words and sentences, language use in context, language and the brain, dialect and register variation, and the place and history of English among the languages of the world.
Prerequisite: ENGL 1301, ENGL 1302, and either ENGL 2332 or ENGL 2333.

ENGL 3373. English Grammar. 3 Hours.
An introduction to the linguistic analysis of English sentence structure. Students learn to identify different grammatical forms and their functions, different sentence types, and transformations. The course provides an analytic understanding of students? pre-existing linguistic knowledge?the knowledge that allows them to generate an infinite number of grammatical patterns with a mere handful of rules.
Prerequisite: ENGL 1301, ENGL 1302, and either ENGL 2332 or ENGL 2333.

ENGL 3374. Teaching Writing and Lit. 3 Hours.
Theory and practices of teaching writing and literature in the secondary school. The course will focus on classroom practices, definition of standards, invention, assignment design, evaluation of student writing, and approaches to young adult literature.
Prerequisite: ENGL 1301, ENGL 1302, ENGL 3373 and ENGL 2332 or ENGL 2333.

ENGL 3377. Argument And Persuasion. 3 Hours.
An advanced writing class that focuses on successful argumentative and persuasive writing. Study will include a survey of the history of argument, structuring of a sound argument, and stylistics.
Prerequisite: ENGL 1301, ENGL 1302 and ENGL 2332 or ENGL 2333.

ENGL 3378. Designing Written Documents. 3 Hours.
(Prior SH course id: ENG 378); In this course students will analyze and create written and electronic documents using major rhetorical and visual design theories. Students will craft professional texts that integrate effective visual and written strategies to create complete and compelling messages across a variety of workplace genres.
Prerequisite: ENGL 1301, ENGL 1302 and ENGL 3330.

ENGL 3380. Advanced Composition. 3 Hours.
A study of rhetorical forms and approaches to problems of composition.
Prerequisite: ENGL 1301, ENGL 1302 and either ENGL 2332 or ENGL 2333.

ENGL 3381. Intro Creative Writing:Fiction. 3 Hours.
Directed writing in fiction.
Prerequisite: ENGL 1301, ENGL 1302, and either ENGL 2332 or ENGL 2333.

ENGL 3382. Intro Creative Writing: Poetry. 3 Hours.
Directed writing in poetry.
Prerequisite: ENGL 1301, ENGL 1302, and either ENGL 2332 or ENGL 2333.

ENGL 3383. Practicum In Publishing. 3 Hours.
The study of topics and issues related to editing and publishing. Students will be placed with internal or external organizations for semester-long internships.
Prerequisite: ENGL 1301, ENGL 1302, either ENGL 2332 or ENGL 2333, and either ENGL 3381 or ENGL 3382.

ENGL 3384. Early English Masterworks. 3 Hours.
A study of the major figures in British literature from the beginning to 1798. Required for all English majors.
Prerequisite: ENGL 1301, ENGL 1302, and either ENGL 2332 or ENGL 2333.

ENGL 3385. Later English Masterworks. 3 Hours.
A study of the major figures in British literature from 1798 to the present. Required for all English majors.
Prerequisite: ENGL 1301, ENGL 1302, and either ENGL 2332 or ENGL 2333.

ENGL 3388. Texas Crossroads. 3 Hours.
An interdisciplinary study of intersections among literature, history, science, culture, and politics of the "Crossroads" area of Texas. of ENGL 3000 level.
Prerequisite: ENGL 1301, ENGL 1302, either ENGL 2332 or ENGL 2333, and 3 hrs.

ENGL 3390. The Bible As Literature. 3 Hours.
Narrative, structural, and thematic study of selected books of the Old and New Testament. Course of study includes an examination of Hebrew and Christian scriptures in translation and an analysis of various genres. Consideration will also be given to the cultural and mythological context of selected portions and to some of the literary influences exerted by these passages.
Prerequisite: ENGL 1301, ENGL 1302, and either ENGL 2332 or ENGL 2333.

ENGL 3391. Shakespeare: Tragedies & Hist. 3 Hours.
A study of Shakespeare's tragedies and histories, from the earliest experiments of his career to the great history plays of the 1590's through the major tragedies of the early 1600's.
Prerequisite: ENGL 1301, ENGL 1302, and either ENGL 2332 or ENGL 2333.

ENGL 3392. Shakespeare:Comedies & Romance. 3 Hours.
A study of Shakespeare's comedies and romances from his early years through the great festive comedies of the late 1590's through the "Dark Comedies" of the 1600's to the romances of the last years of his career.
Prerequisite: ENGL 1301, ENGL 1302, and either ENGL 2332 or ENGL 2333.

ENGL 4330. Writing In The Professions. 3 Hours.
Additional training in technical writing, including instruction in the preparation and editing of specialized documents in various professional writing situations.
Prerequisite: ENGL 1301, ENGL 1302, either ENGL 2332 or ENGL 2333, and ENGL 3330.

ENGL 4331. Comp Thry & The Tching Of Wrtg. 3 Hours.
An introduction to pedagogical technique for composition appropriate for elementary and secondary students. Major theories of composition will be studied.
Prerequisite: ENGL 1301, ENGL 1302, either ENGL 2332 or ENGL 2333, and 3 hours of 3000 level ENGL.

ENGL 4335. Studies In Rhetoric. 3 Hours.
Selected topics may include rhetorical theory, style and stylistics, rhetorical criticism, ethical issues in rhetoric, and rhetoric literature.
Prerequisite: ENGL 1301, ENGL 1302, either ENGL 2332 or ENGL 2333, and ENGL 3384.

ENGL 4339. Teaching Lit Of Diversity. 3 Hours.
A study of literature by women and by persons of color appropriate for the secondary English classroom.
Prerequisite: ENGL 1301 and ENGL 1302, ENGL 2332 or ENGL 2333, and 3 hrs of ENGL 3000 level.

ENGL 4340. Professional Style and Editing. 3 Hours.
Students in this course engage in an advanced study of style and editing in the specialized conventions of technical and professional communication. Students learn to analyze, generate, and refine technical prose.
Prerequisite: ENGL 3330.

ENGL 4360. The English Romantic Movement. 3 Hours.
A survey of the Romantic moment in England, with major emphasis upon the works of Wordsworth, Coleridge, Byron, Keats, and Shelley. of ENGL 3000-level.
Prerequisite: ENGL 1301, ENGL 1302, either ENGL 2332 or ENGL 2333, and 3 hrs.

ENGL 4363. Studies English Renaissance. 3 Hours.
A study of non-dramatic literature of England written between 1500 and 1660. of ENGL 3000-level.
Prerequisite: ENGL 1301, ENGL 1302, either ENGL 2332 or ENGL 2333, and 3 hrs.

ENGL 4364. Mth Tch Eng In Sec Sch. 3 Hours.
Directed studies and practice in the selection, organization, and presentation of English subject matter and skills to students. Required for English majors and minors who are working for a secondary teaching certificate.
Prerequisite: ENGL 1301, ENGL 1302, ENGL 3374 and ENGL 2332 or 2333.

ENGL 4365. Victorian Literature. 3 Hours.
A survey of major writers of the Victorian period, supplemented by lectures on the political, social and economic background of the age. of ENGL 3000-level.
Prerequisite: ENGL 1301, ENGL 1302, either ENGL 2332 or ENGL 2333, and 3 hrs.

ENGL 4367. History Of English Language. 3 Hours.
A survey of the English language, including its relationship to other Indo-European languages, followed by a study of the changes in English sounds, morphology, syntax, and lexicon from Anglo-Saxon times to the present. of ENGL 3000-level.
Prerequisite: ENGL 1301, ENGL 1302, either (ENGL 2332 or ENGL 2333), and 3 hrs.

ENGL 4369. Studies Sel Genres In Am Lit. 3 Hours.
Readings in major writers, themes, and/or historical movements within a selected genre in American literature. The approach may vary from semester to semester, and will include such subjects as modern poetry, the short story, the Naturalists, folklore, regional literature, nonfiction prose, or others. of ENGL 3000-level.
Prerequisite: ENGL 1301, ENGL 1302, either ENGL 2332 or ENGL 2333, and 3 hrs.

ENGL 4370. American Regional Literature. 3 Hours.
Selected representative Southern/Southwestern writers. Readings will emphasize works of artistic merit, but they may include ancillary material such as folklore, ?local color,? and historical documents for background study. of ENGL 3000-level.
Prerequisite: ENGL 1301, ENGL 1302, either ENGL 2332 or ENGL 2333, and 3 hrs.

ENGL 4372. American Lit: 1820'S - 1860'S. 3 Hours.
A study of the emergence of a distinctive American literary art, including such writers as Poe, Emerson, Thoreau, Hawthorne, Melville, and Whitman. of ENGL 3000-level.
Prerequisite: ENGL 1301, ENGL 1302, either ENGL 2332 or ENGL 2333, and 3 hrs.

ENGL 4374. Studies In The English Novel. 3 Hours.
The study of a variety of topics and figures in the British novel. of ENGL 3000-level.
Prerequisite: ENGL 1301, ENGL 1302, either ENGL 2332 or ENGL 2333, and 3 hrs.

ENGL 4375. Special Problems In English. 3 Hours.
Directed study on individual topics or problems for advanced students. Admission by permission of the Department Chair. This course may be taken for Academic Distinction credit. See Academic Distinction Program in this catalog. of ENGL 3000-level.
Prerequisite: ENGL 1301, ENGL 1302, either ENGL 2332 or ENGL 2333, and 3 hrs.

ENGL 4376. Tudor And Stuart Drama. 3 Hours.
The development of the drama in England, the predecessors and contemporaries of Shakespeare. of ENGL 3000-level.
Prerequisite: ENGL 1301, ENGL 1302, either ENGL 2332 or ENGL 2333, and 3 hrs.

ENGL 4377. Lit-Rstoratn &18 Cen:1660-1800. 3 Hours.
A study of the drama, poetry, and prose of the ?long eighteenth century.? The course reads the works of such writers as Dryden, Swift, Pope, and Johnson within their cultural contexts. of ENGL 3000-level.
Prerequisite: ENGL 1301, ENGL 1302, either ENGL 2332 or ENGL 2333, and 3 hrs.

ENGL 4378. Studies In World Fiction. 3 Hours.
The study of a variety of topics and figures in world fiction. of ENGL 3000-level.
Prerequisite: ENGL 1301, ENGL 1302, either ENGL 2332 or ENGL 2333, and 3 hrs.

ENGL 4380. Adv Creative Wrtng: Nonfiction. 3 Hours.
An advanced undergraduate writing workshop that emphasizes the theory and craft of creative nonfiction, with special attention to peer review of student writing in the areas of the memoir, the personal essay, personal cultural criticism, and literary journalism.
Prerequisite: ENGL 1301, ENGL 1302, either ENGL 2332 or ENGL 2333, and ENGL 3380.

ENGL 4381. Adv Creative Writing: Fiction. 3 Hours.
An advanced undergraduate writing workshop that emphasizes the theory of modern and contemporary fiction, with special attention to peer review of student writing in the areas of the novel and short fiction.
Prerequisite: ENGL 1301, ENGL 1302, either ENGL 2332 or ENGL 2333, and ENGL 3381.

ENGL 4382. Adv Creative Writing: Poetry. 3 Hours.
An advanced writing class that emphasizes the writing of poetry, with related outside readings in poetic theory and form.
Prerequisite: ENGL 1301, ENGL 1302, either ENGL 2332 or ENGL 2333, and ENGL 3382.

ENGL 4383. Development Of Drama In Amer. 3 Hours.
A study of major movements and significant figures in American dramatic literature from Royall Tyler to the present. of ENGL 3000-level.
Prerequisite: ENGL 1301, ENGL 1302, either ENGL 2332 or ENGL 2333, and 3 hrs.

ENGL 4384. Studies In The American Novel. 3 Hours.
The study of a variety of topics and figures in the American novel. of ENGL 3000-level.
Prerequisite: ENGL 1301, ENGL 1302, either ENGL 2332 or ENGL 2333, and 3 hrs.

ENGL 4385. Studies In Chaucer. 3 Hours.
A close study of the works of Chaucer, with primary emphasis on "The Canterbury Tales" as they reflect the man and his times. of ENGL 3000-level.
Prerequisite: ENGL 1301, ENGL 1302, either ENGL 2332 or ENGL 2333, and 3 hrs.

ENGL 4386. Literature Of The Middle Ages. 3 Hours.
A study of selected works of Old and Middle English literature with some continental works. The course will include, at various times, works as early as Beowulf (ca. 8th-9th c.) to ones as late as Malory?s "Morte D?Arthur" (late 15th c.). of ENGL 3000-level.
Prerequisite: ENGL 1301, ENGL 1302, either ENGL 2332 or ENGL 2333, and 3 hrs.

ENGL 4387. 20th Cnt Lit-Eng,Irel,Commwlth. 3 Hours.
A study of a variety of 20th-century literature by writers associated with England, Ireland, or English-speaking groups (not American) formerly colonized by the British. Though the course varies from term to term, it generally aims to have students read literary works by major figures, learn of the cultural and historical forces influencing these works and writers, and develop an understanding of the main concepts and movements that distinguish this body of literature. of ENGL 3000-level.
Prerequisite: ENGL 1301, ENGL 1302, either ENGL 2332 or ENGL 2333, and 3 hrs.

ENGL 4390. Literary Criticism And Theory. 3 Hours.
A survey of the major modes of literary criticism. Study of the basic concepts underlying specific theories of literary criticism and their application and impact within a literary field selected by the instructor. of ENGL 3000-level.
Prerequisite: ENGL 1301, ENGL1302, either ENGL 2332 or ENGL 2333, and 3 hrs.

ENGL 4394. Stdy 17th Century British Lit. 3 Hours.
(Previous SH course: ENGL 494); This course is designed to offer students a survey of British literature in the seventeenth century. Major authors of the period will be given special attention.
Prerequisite: ENGL 1301, ENGL 1302, either ENGL 2342 or ENGL 2311, and ENGL 3384.

ENGL 4399. Stdy In Sel Lit Apprchs & Topc. 3 Hours.
The modified topics course is designed to vary from semester to semester. Topics may focus on a particular author, region, period, theme, genre, or critical approach.
Prerequisite: ENGL 1301, ENGL 1302, either ENGL 2332 or ENGL 2333, ENGL 3384 and 6 completed hours ENGL 3000-level.

Environmental Science (ENVR)

ENVR 1101. Environmental Science Lab. 1 Hour.

ENVR 1301. Environmental Science. 3 Hours.

ENVR 3305. Legal Aspects Of Polution Cont. 3 Hours.
A study comparing various state and federal laws with particular emphasis on the State of Texas statutes will be conducted. Nature of evidence for prosecution under these laws will be considered. Fall.
Prerequisite: BIOL 1401, and CHEM 2401.

ENVR 3310. Environmental Sanitation. 3 Hours.
A study of topics relating to public health and sanitation. The causative agents of human diseases of public health importance are characterized, and present knowledge of prevention and control of these diseases is reviewed. Two-hour laboratory. Odd year, Fall. of Chemistry.
Prerequisite: BIOL 1311, BIOL 1111, BIOL 1313, BIOL 1113, BIOL 2420 OR BIOL 3470, and 8 hrs.

ENVR 3320. Solid Wastes And Recycling. 3 Hours.
A study of solid wastes and recycling pertaining to sources, storage, processing, economics, and legal issues involved. Physical and chemical components of wastes and waste processing and their environmental effects will be stressed. Odd year, Spring.
Prerequisite: BIOL 1311, BIOL 1111, BIOL 1313, BIOL 1113, BIOL 2420 or BIOL 3470, ENVR 3305, GEOL 1303, GEOL 1103, and CHEM 2401 and Junior standing.

ENVR 3330. Industrial Hygiene. 3 Hours.
A study of industrial hygiene and occupational health and safety. This course will present the basics of industrial hygiene and work place monitoring. Emphasis will be on fundamentals of work place hazard recognition, techniques of evaluation, and methods of control. Even year, Spring.
Prerequisite: BIOL 1311, BIOL 1111, BIOL 1313, BIOL 1113, CHEM 2401, and PHYS 1301, PHYS 1101, PHYS 1302, PHYS 1102.

ENVR 3430. Water Supply & Waste Water Dis. 4 Hours.
Water supply, development, treatment and distribution; waste water collection and treatment; water purification and reuse; and the chemistry and ecology of aquatic systems are studied. Two-hour laboratory. Fall.
Prerequisite: BIOL 1301, BIOL 1101, CHEM 2401, and MATH 1420.

ENVR 4095. Spc Topics Environmental Sci. 1-3 Hours.
Individual study in specialized areas of Environment Science. To be directed and approved by the Environmental Science advisor. Variable Credit (1-3).

ENVR 4110. Undergraduate Seminar. 1 Hour.
Student discussions of current scientific literature in environmental science. Required of environmental science majors. Fall, Spring.
Prerequisite: Senior standing.

ENVR 4111. Undergraduate Seminar. 1 Hour.
Student discussions of current scientific literature in environmental science. Required of environmental science majors. Fall, Spring.
Prerequisite: Senior standing.

ENVR 4305. Hazardous Waste Management. 3 Hours.
This course deals with the technical and regulatory aspects of handling and disposing of toxic and hazardous wastes based on recently mandated legislation procedures. This course will educate current students in an area that is of major national concern and will update persons already working in the field of environmental science. Spring.
Prerequisite: CHEM 2401, BIOL 1401, GEOL 1403, and Junior standing.

ENVR 4320. Environmental Toxicology. 3 Hours.
(Also listed as BIOL 4320). This course presents basic toxicology as a qualitative and quantitative science of the effects of poisons (toxins) upon the environment, individuals, and populations. The course will also provide a comparison of the toxicology of human and other species? exposure to common environmental contaminants. Two one-hour lectures and one two-hour laboratory. Even year, Fall. CHEM, and Junior standing.
Prerequisite: BIOL 1311, BIOL 1111, BIOL 1313, BIOL 1113, and BIOL 2420 or BIOL 3470; MATH 3379 or BIOL 4374; 8 hrs.

ENVR 4361. Environ Sci Field Exp. 3 Hours.
A supervised off-campus intern work experience in an approved area of Environmental Science with industry, business, or government. This course provides the student with direct professional work experience with industry or governmental entity. Academic credit is based on a written technical report and an oral presentation. Summer. of advanced Environmental Science and approval of instructor.
Prerequisite: 6 hrs.

ENVR 4405. Air Quality. 4 Hours.

Equine Science (EQSC)

EQSC 2364. Equine Science. 3 Hours.
A survey of the working and pleasure horse industry; breed selection, breeding, feeding, diseases, unsoundness and management. Laboratory work involves evaluation, care and grooming, tack and equipment, and basic management.
Prerequisite: ANSC 1319.

EQSC 2390. Selection & Eval Of Horses. 3 Hours.
This course will allow the student to become familiar with the basic concepts necessary to select and evaluate horses from a judge's perspective. Evaluation of conformation, balance, symmetry, cadence, suppleness, and impulsion will be used to understand these concepts. The ability to prepare and present oral reasons to support critical thinking and decision making skills will be reviewed.

EQSC 2396. Special Topic. 3 Hours.
This course will examine special topics/issues in Equine Science at an introductory level. This course may be repeated up to three times as topics and subject matter changes. Credits 3.

EQSC 3340. Equine Behavior & Training I. 3 Hours.
This course will aid in developing skills to increase horsemanship ability and knowledge so that the student can more effectively communicate with the young horse. The fundamentals of equine behavior will be studied. Ground training methods will also be applied to teach the young horse discipline while increasing the training and value of the horse. Stable management, equipment, and pedigrees will also be discussed. Sophomore standing.
Prerequisite: EQSC 2364 or concurrent enrollment.

EQSC 4096. Directed Study. 1-6 Hours.
Arranged professional and developmental learning experiences incorporating a practical application of equine skills and practices. To include internships, individual research and industry studies. Variable Credit (1-6).
Prerequisite: Sophomore standing.

EQSC 4367. Stock Horse Equitation. 3 Hours.
The course will be an in-depth study of equitation including simple and advanced maneuvers that are essential to various types of equine performance events. Students will be expected to strengthen communication skills between horse and rider through various exercises. The university equestrian team will be developed from this course. Junior standing.
Prerequisite: EQSC 3340.

EQSC 4369. Special Topic. 3 Hours.
Individual study in specialized areas of Equine Science. To be directed and approved by the Animal Science advisor. This course is designed to be a multi-topic course. The student can take the course under various special topics being offered.
Prerequisite: Junior standing.

EQSC 4373. Equine Reproduction. 3 Hours.
General principles and applications of equine reproduction will be presented. Course material will include reproductive anatomy of the mare and the stallion and endocrinology as related to reproduction.
Prerequisite: EQSC 2364 and Junior standing.

EQSC 4379. Equine Nutrition. 3 Hours.
An overall evaluation of the equine digestive system in regards to anatomy, physiology, digestive processes, nutrient requirements, feedstuffs, management, and health care. Current topics in equine nutrition research will also be discussed. Junior standing.
Prerequisite: EQSC 2364.

EQSC 4391. Equine Behavior & Training II. 3 Hours.
A study of equine behavior, safety, and training techniques. Laboratory work involves planning record keeping systems, feeding and breeding schedules, tack and equipment, training young stock for work and pleasure, and specialized management practices.
Prerequisite: EQSC 3340 and Sophomore standing.

Euphonium (EUPH)

EUPH 1201. Ind Performances-Euphonium. 2 Hours.

EUPH 3201. Ind Performances-Euphonium. 2 Hours.

EUPH 3202. Applied Euphonium w/Jr Rectl. 2 Hours.

Family and Consumer Sciences (FACS)

FACS 1330. Intro Soft Textiles Constructn. 3 Hours.
Fundamental principles and techniques of clothing and textiles-based interior elements construction are studied. Pattern alteration and fitting techniques are included. Practical applications are provided through laboratory experiences. (2-2). Offered spring semesters.

FACS 1331. Intro To Hospitality Industry. 3 Hours.
An overview of the hospitality industry, this course includes restaurants, hotels and resorts. Includes historical perspective, analysis of the industry in terms of professional opportunities and the future outlook for the industry. (3-0). Offered fall semesters.

FACS 1360. Basic Principles of Design. 3 Hours.
Specific attention is given to fundamental art elements and principles of design as they function in the lives of individuals and their environments. Opportunities are provided for a variety of experiences with art media through lecture-demonstrations. Practical application in two-dimensional and three-dimensional projects is made through laboratory experiences. (2-2).

FACS 1367. Basic Nutrition. 3 Hours.
Basic principles of nutrition for personal health and wellness. Current concepts in diet adequacy and nutritional needs of individuals is stressed. The influence on healthy diet practices and their relationship to health promotion and disease prevention is the focus. Diet quality and the impact of food choices are explored.

FACS 1441. Food Preparation And Selection. 4 Hours.
Scientific principles in the preparation of selected basic food products are applied. Consideration is given to the composition and properties of food, methods of preparation and processing to retain nutrients, standards for desirable products, simple meal service, and food economics. Practical application is made through laboratory experiences. (3-2).

FACS 2078. Special Topics in FCS. 1-3 Hours.
On-line instruction provides opportunities for students to take lower-level courses through the Family and Consumer Sciences Distance Education Alliance (open to FCS teacher certification majors only). Registration is permitted only with departmental approval. Course may be repeated for credit. Variable Credit (3-4).
Prerequisite: Permission of instructor.

FACS 2361. History of Furnishings I. 3 Hours.
A study of history of interior furniture, furnishings, and architecture from the Egyptian period to the Renaissance. Emphasis is given to the social, economic, and political conditions that influenced furniture, interiors, and architectural design. (3-0). Offered spring semesters.

FACS 2362. Nutrition. 3 Hours.
Study is made of the fundamental concepts of nutrition. The various nutrients, their sources, metabolism, physiology and interrelationships are emphasized. Healthy eating guidelines for health promotion and disease prevention and requirements for different stages of growth and development for individuals and populations are studied. (3-0). Meets requirement for pre-nursing curriculum. Will allow enrollment of transfer and major change students while maintaining science pre-requisite.
Prerequisite: 3 hours completed in BIOL or CHEM.

FACS 2364. Design Theory And Materials. 3 Hours.
A theoretical analysis of design is merged with understanding of interior materials and products which meet human needs. Assessment of quality and performance criteria is emphasized, along with the design process. (3-0). Offered fall semesters.
Prerequisite: FACS 1360.

FACS 2365. Digital Drawing for ID. 3 Hours.
This course addresses computer graphics for interior designers. It will focus on the implementation of computer-aided design processes and drafting techniques to produce construction and presentation drawings. Students will explore various digital drafting techniques to develop 2-dimensional and 3-dimensional drawings. Offered spring semesters.
Prerequisite: Grade of C or better in FACS 2364 and FACS 2387.

FACS 2366. Fashion In Society. 3 Hours.
Basic fashion theory is studied along with theories of dress and adornment from both psychological and sociological perspectives. The course also examines the individual?s attitudes toward and perceptions of personal dress and the appearance of others. Offered fall semesters. (3-0).

FACS 2368. Consumer Education. 3 Hours.
This study of consumer goods and services includes the study of rational consumer decisions in an electronic economy, major consumption expenditures, budget management, risk management, financial management, quality assessment, marketing, and consumer legislation. (3-0).

FACS 2369. Introduction To Textiles. 3 Hours.
This course provides an introduction to fiber science and technological advances in the manufacture of textile products. It focuses on the complex interrelationships of fibers, yarns, fabrics, finishes, and coloring processes. Offered spring semesters and summer. (3-0).

FACS 2386. Space Planning Fundamentals. 3 Hours.
This course provides the student with an introduction to the complex process of planning residential and small commercial spaces for interior design. As part of the design process, space planning begins with a programmatic investigation of human needs, desired spatial quality, and building parameters. Students will explore space planning variations applied to a variety of interior spaces, stressing the importance of the changing needs in design development and problem solving. Influencing factors such as the human element, barrier-free design and building systems are included.
Prerequisite: FACS 1360.

FACS 2387. Architectural Graphics For Int. 3 Hours.
The course focuses on the development of two-dimensional graphic representations of architectural design. Practical application is achieved through development of drafting skills and representational sketching. (2-2). Offered spring semesters.
Prerequisite: MATH 1332 or MATH 1314.

FACS 2388. Building Systems For Interiors. 3 Hours.
This course focuses on helping students to develop an understanding of building systems as they apply to interior design. Student understanding of systems is communicated in drawing of construction, electrical, mechanical, ceiling and floor systems as part of design solutions. (2-2). Offered spring semesters.
Prerequisite: FACS 2387 with a grade of C or better.

FACS 2441. Meal Management In Hospitality. 4 Hours.
This course includes choice, purchase, preparation and service of meals in hospitality settings. Through laboratory experiences emphasis is given to table settings and appointments, various forms of meal service and special occasion functions. The importance of acceptable social procedures and aesthetic values related to the above activities are stressed. (3-2). Offered spring semesters.

FACS 3329. Nutrition through the Lifespan. 3 Hours.
Students in this course focus on nutrient needs throughout the lifespan and the physiological basis for these needs. Instruction focuses on the interrelationships of diet, nutrition, body composition, emotional development, behavior, and aging. Factors related to the development of food behaviors at various life stages and current research trends focused on lifespan nutrition issues are explored.
Prerequisite: FACS 2362 and Junior Standing.

FACS 3330. Patternmaking & Apparel Produc. 3 Hours.
Industry techniques in the construction and fit of garments from original designs. Construction using superior quality techniques is emphasized. Students develop skills in use of apparel production equipment. (2-2). Offered fall semesters.
Prerequisite: FACS 1330, FACS 1360, and FACS 2369.

FACS 3332. Lighting Applicans Interiors. 3 Hours.
This course provides basic principles of light and color, measurement and control of light as applied to human needs in both residential and commercial interiors. Environmental systems for day lighting and solar design are studied. (3-0). Offered fall semesters.
Prerequisite: FACS 2364, FACS 2387 and FACS 2388 with a grade of C or better.

FACS 3334. Lodging Operations. 3 Hours.
A study is made of principles involving basic operations of hospitality facilities including guest expectations, management of services, budget control, personnel management and security. (3-0). Offered spring semesters.
Prerequisite: FACS 1331.

FACS 3335. Event Administration. 3 Hours.
This course prepares students to attain the operational skills involved in event administration. The course focuses on social and corporate events, target markets and market segments, budgeting and forecasting, theme and proposal writing, and logistics and planning for on- and off-premise events. The course also examines the benefits of networking, promoting sales and marketing, and the importance of human resource issues in event administration.
Prerequisite: Junior Standing.

FACS 3337. Design Process. 3 Hours.
This course will focus on the implementation of the design process through drawings and model construction techniques. Students will explore various rendering media and develop three-dimensional drawings along with volumetric study of spaces. (1-4). Offered fall semesters.
Prerequisite: Grade of C or better in ARTS 1316, FACS 2365, and FACS 2388.

FACS 3338. Residential Design. 3 Hours.
This course will focus on applying the design process to residential spaces. It will include development of schematic and technical drawings, material selection, perspective representations of space, and specifications. (1-4). Offered spring semesters.
Prerequisite: Grade of C or better in FACS 3337 and ETCM 2363.

FACS 3339. Community Nutrition. 3 Hours.
This course examines the role of nutrition in health promotion and disease prevention in community groups. Tools for developing community nutrition interventions are emphasized. Students will implement a community intervention using behavior theories, needs assessment, developing goals, objectives and program evaluations. Government food and nutrition programs and health care delivery system are also examined. Students will study the legislative, sociological, and scientific aspects of public and community health.
Prerequisite: FACS 3380.

FACS 3350. Discovery in Chemical, Textile, and Nutritional Science. 3 Hours.
This study abroad course is focused on 18th- to early 20th-century scientists, with special emphasis on the times in which they worked, important aspects of their efforts, the impact of their personal lives on their scientific careers, and their enduring legacy to contemporary society in the form of discoveries in chemistry, biochemistry, textiles, and nutritional science. Lectures take place in the same geographical settings where the work occurred. Offered odd years during the Spring/Summer I break. Cross-listed with CHEM 3361.
Prerequisite: CHEM 1406 or CHEM 1411, and junior standing, or department approval.

FACS 3360. Int Dsgn Prof Prac & Procedure. 3 Hours.
This course includes fundamentals of business procedures used in interior design residential and commercial establishments. Practical application is implemented through design project management. (3-0). Offered spring semesters.
Prerequisite: Grade of C or better in FACS 2364 and FACS 2388.

FACS 3361. History of Furnishings II. 3 Hours.
This course is focused on the study of history of interiors, architecture, and furnishings from the post-Renaissance era to the present. Emphasis is given to the social, economic, and political conditions that influenced furniture, interior, and architectural design. Offered fall semesters.(3-0).

FACS 3364. Suvery of Interior Design for Non-Majors. 3 Hours.
This course is designed for students pursuing teacher certification in secondary Family and Consumer Sciences. Content includes design theory, materials, space planning, manual and computer-aided project drafting, and project planning and implementation. This course will not count as credit toward the major in Interior Design. Offered spring semesters.
Prerequisite: FACS 1360 and completed 45 hours.

FACS 3365. Digital Drawing for ID II. 3 Hours.
Students in this course focus on computer applications through digital design, three-dimensional modeling, perspective drawing, problem identification, problem solving, and research techniques applied to interior environments.
Prerequisite: ETCM 2363, FACS 2365, and FACS 2388.

FACS 3367. Food Science. 3 Hours.
This course provides fundamentals of physical and chemical structures and properties of food materials and foods during harvesting, preparation, processing, preservation and storage. (1-4). Offered spring semesters. , FACS 1441, FACS 2362.
Prerequisite: CHEM 4 hrs.

FACS 3369. Family Relationships. 3 Hours.
This course focuses on analysis of the changing and supportive role of the members in the contemporary stages of the family life cycle. Study is made of family heritage and family interaction patterns with an emphasis on individual development. (3-0).
Prerequisite: Junior standing.

FACS 3370. Nutritional Pathways. 3 Hours.
This advanced course establishes knowledge and understanding of nutritional concepts in the biochemical context. Biochemical, physical and metabolic functions of the nutrients; pathways of nutrients from ingestion, assimilation and metabolism; digestive and metabolic interactions between drugs and nutrients are discussed. (3-0). Offered fall semesters.
Prerequisite: CHEM 1412, FACS 3380, junior standing, FSN majors only.

FACS 3371. Fashion Merchandising. 3 Hours.
This course addresses fundamental principles for successful merchandising of fashion goods, including sales, buying, and marketing procedures. Analysis of consumer and customer demands also are explored. Taken prior to FACS 4369 Internship. (3-0). Offered fall semesters.
Prerequisite: Junior standing.

FACS 3376. Textile Science. 3 Hours.
This course involves exploration of textiles from a scientific perspective is emphasized, explaining the interactions among textile fibers, finishes, dyes and laundry products that impact maintenance of textile products and performance criteria. Students are exposed to hands-on experiences with various fibers, finishes, and dyeing processes. (3-0). Offered fall semesters.
Prerequisite: FACS 2369, sophomore standing.

FACS 3377. Codes,Stndrds & Facility Maint. 3 Hours.
A study of laws, codes, standards and regulations that are in effect to protect human health and safety is the focus of this course. Included are the fire and life safety codes, barrier-free design, and ergonomics. (3-0).
Prerequisite: Junior standing.

FACS 3378. Fashion Promotion. 3 Hours.
Promotion principles are applied to the merchandising of fashion goods through special events, displays of merchandise, and advertising and personal selling. (3-0). Offered spring semesters.
Prerequisite: FACS 1360.

FACS 3380. Advanced Nutrition. 3 Hours.
Course focus is on concepts of normal nutrition in relation to the chemistry and physiology of the human body; analysis of methods used in assessing human nutrition status; evaluation of current nutritional problems. Offered spring semesters.
Prerequisite: FACS 2362.

FACS 3440. Pattern Mkg & Adv Cloth-Honors. 4 Hours.

FACS 3445. Quan Food Pur Prep & Ser. 4 Hours.
Course provides experience in menu planning, food preparation, service, and use of institutional equipment in quantity food service. Principles and methods of buying, preparing, and serving food for various types of quantity food facilities are considered. Factors affecting food quality, food costs, and quantity food production as related to the time factor are emphasized. Planned to meet the needs of dietitians, food service administrators, lunchroom supervisors, family and consumer sciences teachers and others in related areas. Field and practical application is provided. Laboratory experiences arranged. (2-4).
Prerequisite: FACS 1441 or FACS 2441, 45 hours completed.

FACS 4068. Research Problems. 1-4 Hours.
Seminars provide adequate research experiences for students having special needs and requirements for the completion of work for a degree. Registration is permitted only by approval of the department chair. Course may be repeated for credit. Variable Credit (1-4). .
Prerequisite: Junior standing.

FACS 4330. Commercial Design I. 3 Hours.
A study is made of design development of interiors through analysis of space and structure. Focus is on comprehensive design solutions implemented through multiphase projects including space planning, contract documents, specifications, finish selections, sustainability, and various presentation techniques. (1-4). Offered fall semesters.
Prerequisite: FACS 3338 and FACS 3377 with a grade of C or higher and senior standing.

FACS 4331. Commercial Design II. 3 Hours.
The capstone course for Interior Design majors, this course includes a semester-long project or a series of comprehensive projects preparing students for internship and professional office settings. Students are encouraged to demonstrate knowledge gained to-date to solve various design situations. Graphics presentations include hand and digital drawings and media. (1-4). Offered spring semesters.
Prerequisite: FACS 4330 with a grade of C or higher, senior standing.

FACS 4332. Textile Design. 3 Hours.
Students in this course focus on the processes, ideas, and history of textile design. Students examine textile processes of the world through the lenses of design, historical application, and culture. Projects include 2- and 3-dimensional investigations, with an emphasis on design and material understanding. Discussions and readings focus on aesthetic and technical issues of textile design. Prerequisite:

FACS 4333. Child Dev & Guidance. 3 Hours.
This course includes directed observation and participation in a child development center or public school setting to provide students with experience in the practical aspects of child development. Emphasis is placed upon helping children build feelings of security and adequacy and maintaining limits of behavior. Lectures are concerned with types of child-based care, rearing and guidance; growth and development; clothing; and nutrition for prenatal through adolescent years. (3-0). Offered fall semesters.
Prerequisite: Junior standing or permission of instructor.

FACS 4360. Clinical Dietetics I. 3 Hours.
Study of medical nutrition therapy. Course includes current diet manipulations for disease conditions including the provision of enteral and parentaral nutrition. Nutritional adequacy for disease conditions and the impact of sociological, economic, psychological factors on nutritional status is addressed. Case studies and work with clients to gain hands-on knowledge is required. Offered fall semesters.
Prerequisite: FACS 4371, FSN majors only.

FACS 4361. Clinical Dietetics II. 3 Hours.
Continuation of the study of the applications of medical nutrition therapy from FACS 4360. It includes current diet therapy for a variety of disease conditions including the provision of enteral and parentaral nutrition. Nutritional adequacy for disease conditions and the impact of sociological, economic, psychological factors on nutritional status is addressed. It includes class discussions, case studies and work with clients to gain hands-on knowledge. Students utilize the scientific literature to understand evidence-based practice. Offered spring semesters. FSN majors only.
Prerequisite: FACS 4360.

FACS 4362. Presentation Techniques. 3 Hours.
A study is made of different types of presentations used to communicate a technique, an idea, or a product. Principles and techniques of communication and media, with emphasis on classroom, extension and commercial presentation, are covered. Classroom experience includes actual preparation and presentation of lecture materials for direct and video audiences. Also included is development is resumes and portfolios. (3-0).
Prerequisite: Junior Standing.

FACS 4363. Merchandising Control. 3 Hours.
Techniques of merchandise control including retail mathematics involved in markup, markdown, stock control, open-to-buy, inventory control, pricing and financial statements are studied. Consideration is given to managerial decisions based on the mathematical information encountered in retailing. Recommended prior to FACS 4369 Internship. (3-0). Offered spring semesters.
Prerequisite: FACS 3371, ACCT 2301, or consent of instructor, junior standing.

FACS 4364. Mth Tchng Fam & Consumer Sci. 3 Hours.
A study of professional competencies required to teach family and consumer sciences including development of curriculum. Analysis and evaluation of teaching methods, procedures, strategies, and resource materials used in Family and Consumer Sciences. Laboratory situation includes preparing, presenting and video taping micro teaching experiences. Cross-listed with CISE 4364. (3-0). Also offered through the FCS Alliance.
Prerequisite: Admission to Teacher Education program, CISE 3383 or FACS 4333 with a grade of C or better.

FACS 4365. Studnt Tchg Fam & Consumer Sci. 3 Hours.
Supervised observation and teaching in Family and Consumer Sciences. Off-campus teaching centers furnish laboratory experiences for the courses. Activities include work with the total school program, supervising and working with occupational activity program, parental contacts, advisory council, and FCCLA. Advance registration required. (6-0).
Prerequisite: Twelve hours secondary education, forty hours family and consumer sciences, FACS 4364 .

FACS 4366. Stdnt Tchng Fam & Consumer Sci. 3 Hours.
Supervised observation and teaching in Family and Consumer Sciences. Off-campus teaching centers furnish laboratory experiences for the courses. Activities include work with the total school program, supervising and working with occupational activity program, parental contacts, advisory council, and FCCLA. Advance registration required. Cross-listed with CISE 4396. (6-0).
Prerequisite: Twelve hours secondary education, forty hours family and consumer sciences, FACS 4364.

FACS 4367. Smn Cloth Textiles & Mdseing. 3 Hours.
This course consists of inquiry in special areas of clothing: marketing, production, consumption and socioeconomic behavioral aspects of consumers of textiles and clothing. (3-0). Offered fall semesters.
Prerequisite: FACS 3371, junior standing.

FACS 4369. Internship. 3 Hours.
Course consists of a supervised off-campus work experience in an approved cooperative business or agency to better understand the challenges and potential of various careers in family and consumer sciences professions and services. Student obtains own position in keeping with the major program area. A minimum of three hundred (300) supervised clock hours is required for appropriate credit, and student must be enrolled in FACS 4369 at the time the work is being completed. Taken on acceptance of the application.
Prerequisite: Departmental Approval Required and 100 completed hours.

FACS 4370. Adv Food Sys Org & Mngt. 3 Hours.
Course is focused on principles of organization and management as they relate to food service systems; development of managerial and motivational skills; communications; decision making; management by objectives. (3-0). Offered spring semesters.
Prerequisite: FACS 3445.

FACS 4371. Nutrition Assessment. 3 Hours.
A study of nutrition assessment methods for determining nutrition diagnoses and care. Skills development in obtaining nutrition histories, diet analysis, motivational interviewing, body composition and performing nutrition-focused physical examinations. Students will learn to develop nutrition prescriptions and counseling plans as well as documentation of nutrition care. Experiential learning is utilized. Offered spring semesters.
Prerequisite: FACS 3380 or concurrent enrollment, FSN majors only.

FACS 4372. Resource Management. 3 Hours.
Managerial and social problems pertaining to individuals and families are examined. Emphasis is placed on decision-making of time, energy, and financial management as well as efficient use of resources. (3-0). Offered spring semesters or through the FCS Alliance.
Prerequisite: Junior standing.

FACS 4373. Cultural Food Practices. 3 Hours.
Cultural food practices from around the world will be studied. Students will learn various nutrition education strategies used to make effective dietary changes in keeping with cultural norms. An exploration and appreciation of how cultural factors effect our food patterns will assist in developing cultural competency. Offered spring semesters. Credits 3.
Prerequisite: FACS 1441, and FACS 2362.

FACS 4392. Independent Study in Family and Consumer Science. 3 Hours.

FACS 4395. Special Topics Fam&Con Science. 3 Hours.

Finance (FINC)

FINC 1307. Personal Finance. 3 Hours.
A study of the problems of personal financial management. Topics include savings, risks, investment considerations, insurance, and taxation. Also recommended for non-business majors.

FINC 3310. Financial Inst & Mkts. 3 Hours.
This course explores the process of providing external funds and finance with emphasis on the role of financial institutions and markets. The nature, participants, instruments, and relationships of the money and capital markets are examined.

FINC 3320. Business Finance. 3 Hours.
This course is a study of financial principles as applied to corporate investment and financing decisions. The ethical role of the financial manager is examined as it relates to value creation.
Prerequisite: ACCT 2302 and MATH 1324 or equivalent.

FINC 3330. Financial Spreadsheet Modeling. 3 Hours.
This course extends coverage of financial principles and presents advanced analytical techniques. This course is designed to augment the knowledge and skills required for upper level finance courses. Topics include financial math, mastery of spreadsheet skills, advanced capital budgeting and cash flow estimation techniques, working capital management techniques, financial statements and ratios, and advanced risk analysis.
Prerequisite: FINC 3320 with a grade of C or better.

FINC 4080. Independent Study. 1-3 Hours.
The student may pursue special studies for which a special course is not organized. Variable Credit (1-3).
Prerequisite: Consent of department chair.

FINC 4085. Special Topic. 1-3 Hours.
This course of faculty-led study is designed to provide undergraduate students exposure to new Finance topics and concepts in a course setting. Variable credit (1-3).

FINC 4315. Entrepreneurial/Small Firm Fin. 3 Hours.
A study of the development, implementation, and control of financial plans, strategies, and policies by owner-managers of small firms. Financing alternatives for small firms are explored. Typically offered only during the Spring semester.
Prerequisite: FINC 3320 with a grade of C or better.

FINC 4320. Commercial Banking. 3 Hours.
This course incorporates the roles of banks in the financial services industry and the specific functions in a bank. Case studies are utilized to reinforce the materials and provide first-hand experience about bank operations. The course also presents the roles of the regulatory authorities and their interaction with banks. Special attention is given to recent changes in bank regulation.
Prerequisite: FINC 3310 and FINC 3320.

FINC 4325. Selling Financial Services. 3 Hours.
This course offers a study of the process and principles involved in selling financial instruments and services. It emphasizes the special aspects related to selling/marketing in the banking industry. Both financial products and services will be addressed. The course is typically offered only during the Fall semester.

FINC 4330. Commercial Bank Lending. 3 Hours.
A study of theoretical issues and various applications relevant to the commercial lending activities of a bank using finance principles. Readings and case studies are utilized to provide a contemporary perspective.
Prerequisite: FINC 3320 with a grade of C or better.

FINC 4335. Financial Statmnt/Credit Analy. 3 Hours.
A study of theoretical issues and various applications relevant to the analysis of financial statements using finance and accounting principles. Readings and case studies are utilized to provide a contemporary perspective.
Prerequisite: FINC 3320 with a grade of C or better.

FINC 4340. International Finance. 3 Hours.
This course provides the student with a background in international finance by examining financial circumstances/problems unique to business entities engaged in international business. Topics include the structure and functioning of the foreign exchange market, the identification, measurement and management of foreign exchange risks, trade financing, investment analysis, financing choices, and financial control of international operations.
Prerequisite: FINC 3320 with a grade of C or better.

FINC 4345. Investments. 3 Hours.
In this course students analyze securities markets, money market instruments, mutual funds, stocks, bonds, options, futures, and other securities. Theoretical concepts in investment analysis and trading applications are developed. Analysis of derivative securities and their use in the context of hedging are introduced..
Prerequisite: FINC 3320.

FINC 4355. Security Analy & Portfolio Mgt. 3 Hours.
This course is an advanced analysis and study of the techniques for selecting and combining securities into a portfolio. Content includes identifying appropriate investment objectives, structuring an appropriate statement of investment policy, and techniques for investment management. Emphasis is placed on diversification and risk management. Typically offered only during Spring semesters.
Prerequisite: FINC 4345.

FINC 4365. Sem in Financial Derivatives. 3 Hours.
A study of options, futures, and other financial derivative contracts. The course includes the markets, valuation, and specification of these derivative contracts, and their use in corporate financial risk management. Typically offered only during the Fall semester.
Prerequisite: FINC 3320 with a grade of C or better.

FINC 4389. Undergrad Internship in Fin. 3 Hours.
A course designed to provide the student with an opportunity to apply academic skills in a practical work environment. (See Finance Internship Coordinator prior to enrolling. A minimum of 150 work hours in a pre approved finance organization. May be repeated for a maximum of 6 hours credit granted for internship.)

FINC 4390. Managerial Finance. 3 Hours.
This course includes an in depth study of some of the tools used in financial management. Problems in the valuation of securities, capital costs, capital budgeting, risk analysis, capital structure, financial statement analysis, and dividend policy are stressed.
Prerequisite: FINC 3320 with a minimum grade of C.

Fine Arts and Mass Comm (FAMC)

FAMC 2301. Creative Arts Seminar. 3 Hours.
This course is an investigation into the theories, meanings, purposes and practical experiences of the fine arts: Dance, music, the visual arts, and either theatre or film. It includes opportunities to participate in creative activities in each of the four subject fields and experience dance and music concerts, theatre or film productions, and art exhibits. Students will devote one-fourth of the semester to each of the four disciplines, moving from one instructor/discipline to another. This course satisfies Core Curriculum Area 5 (Creative Arts).

FAMC 4068. Special Topic. 1-3 Hours.
This course provides interdisciplinary opportunities for special topic courses within the College of Fine Arts and Mass Communication. May be repeated for credit. Variable Credit (1-3).
Prerequisite: Instructor approval.

Flute (FLUT)

FLUT 1201. Ind Performances-Flute. 2 Hours.

FLUT 3201. Ind Performances-Flute. 2 Hours.

FLUT 3202. Applied Flute W/ Jr Recital. 2 Hours.

Foreign Language (FOLG)

FOLG 1411. Beginning Foreign Language I. 4 Hours.
(Prior SH course id: FL 141); First semester language is the first half of an elementary course on spoken and written language designed for beginning students.
Prerequisite: Grade of C or better is required to move on to FOLG 1412.

FOLG 1412. Beginning Foreign Language II. 4 Hours.
(Prior SH course id: FL 142); Second semester language is an elementary course on spoken and written language designed for students that have some basic language knowledge, but want to improve their level in speaking, listening, writing and reading. This course can also expand on cultural knowledge.
Prerequisite: Grade of C or better in FOLG 1411 or the equivalent.

FOLG 2311. Intermediate Foreign Language. 3 Hours.
Third semester language emphasizes oral, listening, writing and reading skills. The class will include oral drills on pronunciation, as well as listening comprehension exercises. Additional activities will consist of reading exercises to improve intonation, pronunciation with the objective of making students comfortable and confident in speaking and writing correctly.
Prerequisite: FOLG 1411 and FOLG 1412 with a grade of C or higher.

FOLG 2312. Intermed Foreign Language II. 3 Hours.
Fourth semester language is a middle course on spoken and written language designed for students that have some basic language knowledge, but want to improve their level in speaking, listening, writing and reading. This course can also expand on cultural knowledge.
Prerequisite: FOLG 1411, FOLG 1412, and FOLG 2311 with a grade of C or higher.

FOLG 2361. Intro-American Sign Language. 3 Hours.
This course is designed for the individual intermediate-level student who may need study of a particular era, genre, or author. Enrollment in this course is restricted and approval of such must be obtained from the department chair. The course may be repeated for credit as content varies.
Prerequisite: Grade of "C" or better in FOLG 2312 or the equivalent.

FOLG 3061. Individual Readings. 1-3 Hours.
This course is designed for the individual advanced-level student who may need study of a particular era, genre, or author. Enrollment in this course is restricted and approval of such must be obtained from the department chair. The course may be repeated for credit as content varies.

FOLG 4363. HOW LANGUAGES ARE LEARNED: CONCEPTS & METHODS. 3 Hours.
Methods of Teaching Secondary Foreign Languages is designed as a methods course in second language acquisition. This course will present information and materials for Second Language teachers that will enhance their teaching. Currently, SHSU does not offer this course, either in the Department of Foreign Languages or in the College of Education.

Forensic Science (FORS)

FORS 3331. Foundations of Applied Anthro. 3 Hours.
This is an introductory course on the study of the biology of humans from an applied anthropological perspective. It is a foundation course for students interested in careers in applied anthropology, biological or forensic anthropology, nursing, medicine, or crime scene investigation. The course will introduce the student to all four fields of anthropology: archaeology (prehistoric and historic human activity), cultural anthropology (medical practices in past and present cultures), biological anthropology (primates, basic genetics, human evolution, human biological diversity, and forensic anthropology), and linguistics (language and communication and forensic linguistics) and how these fields are intertwined and applied in a variety of disciplines. The course content focuses predominantly on biological aspects of man and in human society.

FORS 3366. Forensic Science. 3 Hours.
This course introduces students to a wide variety of forensic science disciplines. Students will gain basic knowledge of evidence handling, fingerprints, impression evidence, trace evidence, firearms and toolmarks, serology and forensic DNA, controlled substances and toxicology.

FORS 3380. Intro to Forensic Chemistry. 3 Hours.
This course provides an introduction to forensic chemistry. Current practices, technologies, and techniques will be discussed for some of the most common forensic chemistry disciplines.
Prerequisite: CHEM 2325 and FORS 3366.

FORS 3420. Hum Osteol Analys of Hum Bone. 4 Hours.
This course thoroughly examines the human musculoskeletal system. The course covers the structure and function of bone including bone growth and development and the distinction between juvenile and adult skeletal elements. The course is designed to equip the student with thorough knowledge of the normal appearance of the human skeleton and its variation caused by population variation, genetic disorders, diseases, or trauma.

FORS 4077. Special Topics in Forensic Sci. 1-4 Hours.
This course is designed to give advanced undergraduate students academic flexibility by allowing them to take structured courses on emerging topics or other matters about which there are no courses already approved in the catalog. Variable Credit (1-4).
Prerequisite: Senior standing.

FORS 4310. Physical Evidence Techniques. 3 Hours.
This course provides an overview of physical evidence concepts and identification techniques. Pattern recognition of physical evidence, including fingerprints, bloodstains, gunshot residue, tire prints, shoeprints, fire investigation, firearms, and digital evidence will be discussed. The use of electronic databases in pattern evidence comparison will be addressed. Prerequistie: FORS 3366.

FORS 4320. Fundamentals of Forensic Bio. 3 Hours.
This course explores fundamental principles of forensic biology including serology and DNA. Current technologies and procedures used within the field of forensic biology will be discussed.
Prerequisite: FORS 3366.

FORS 4330. Fingerprint Examination. 3 Hours.
Students will learn the process of fingerprint identification including the nature, physiological properties and morphogenesis of fingerprints. Students will cover the different methods of physical and chemical development of fingerprints from various surfaces, the interpretation of fingerprint patterns and their classification, as well as the methodology of Analysis, Comparison, Evaluation and Verification (ACE-V) that fingerprint examiners apply in their casework.
Prerequisite:FORS 4310.

FORS 4343. Advanced Techniques in Forensic Anthropology. 3 Hours.
This course provides practical experience in the application of various methods that aid in the identification of unknown skeletal remains, such as geometric morphometrics and digital imaging. Students will understand the histology and biomechanics of bone and identify and differentiate bone pathology from bone trauma. The course will train students in proper writing in forensic anthropology, manuscript preparation including photography of bone trauma and pathology.
Prerequisite: FORS 4442.

FORS 4364. Crime Scene Invstg Techniques. 3 Hours.
This course provides a foundational overview of criminalistics from the standpoint of crime scene investigation. Theoretical understanding and hands-on experience in crime scene processing is provided. Basic criminalistic and laboratory techniques are introduced and discussed.
Prerequisite: FORS 3366.

FORS 4380. Ethics & Prof Practice. 3 Hours.
This course provides an overview of ethics and professional practice in forensic science. Ethical dilemmas, bias, and organizational culture will be explored.
Prerequisite: FORS 3366.

FORS 4442. Intro to Forensic Anthropology. 4 Hours.
This course equips students with the methodologies and applications of forensic anthropology. The course includes extensive hands-on exercises working with the human skeletal system. Students will learn and apply the methods used in building the human biological profile, which includes the determination of sex, age, ancestry, and stature based on skeletal features. Students learn the biomechanics of bone and identify skeletal pathologies and/or trauma. **Prerequisite:** FORS 3420.

French (FREN)

FREN 1411. Elementary French. 4 Hours.
For students who have no previous instruction in French. Introduction to French pronunciation, vocabulary, and basic language codes stressing an oral approach to the language with special emphasis on conversation and oral drill. Two one-hour language laboratory periods weekly are required, one of which is a concurrent lab class enrollment. For non-native speakers of French. Native speakers should take the CLEP or register for FREN 2312.

FREN 1412. Elementary French. 4 Hours.
This course is a continuation of FREN 1411. Language codes with more complexity are discussed and drilled. Stress is placed on aural and oral skills. Two one-hour language laboratory periods weekly are required, one of which is a concurrent lab class enrollment. For non-native speakers of French. Native French speakers should take the CLEP or register for FREN 2312.
Prerequisite: Grade of C or better in FREN 1411 or equivalent.

FREN 2311. Intermediate French I. 3 Hours.
Readings of medium difficulty are used as a basis for reading and aural comprehension as well as for oral communication. For non-native speakers of French. Native French speakers should take the CLEP or register for FREN 2312.
Prerequisite: Grade of C or better in FREN 1412 or equivalent.

FREN 2312. Intermediate French II. 3 Hours.
A continuation of FREN 2311 with special emphasis on practical needs for communication.
Prerequisite: Grade of C or better in FREN 2311 or equivalent.

FREN 3365. French Grammar And Stylistics. 3 Hours.
A continuing emphasis on fluent usage of oral and written French. Intensive study of selected written work with the purpose of mastering mid-level proficiency skills.
Prerequisite: FREN 1411, FREN 1412, FREN 2311 and FREN 2312 with a grade of C or higher.

FREN 3367. Fren Phonetics & Conversation. 3 Hours.
Basic theory of French pronunciation and intonation. With ample opportunity for drill, students achieve an intermediate level of oral proficiency.
Prerequisite: FREN 1411, FREN 1412, FREN 2311 and FREN 2312 with a grade of C or higher.

FREN 3380. French Culture & Civilization. 3 Hours.
A course to portray the overall picture of the role played by French culture and civilization throughout the world. This course will provide cultural background for French majors or minors. Conducted in French.
Prerequisite: FREN 1411, FREN 1412, FREN 2311 and FREN 2312 with a grade of C or higher.

FREN 4075. Individual French Readings. 1-6 Hours.
This course is designed for the individual student who may need study of a particular era or genre or author. Enrollment in this course is restricted and approval for such must be obtained from the Program Coordinator. The course may be repeated for credit as content varies.Variable Credit (1-3).
Prerequisite: Advanced standing in French or consent of instructor and department chair.

FREN 4364. Mod French Usage & Conversatn. 3 Hours.
A useful course for all levels, including those seeking oral proficiency. Emphasis is placed on extemporaneous speech and conversation dealing with modern topics. Conducted in French.
Prerequisite: FREN 1411, FREN 1412, FREN 2311 and FREN 2312 with a grade of C or higher.

FREN 4370. Seminar in Selected Topics of Literacy, Language, and Civilization. 3 Hours.
This course will be an in-depth study of a selected topic by which French majors and minors, tracking specific skills, may acquire the necessary knowledge of francophone culture and/or the ability to speak, read, and write the French language at an advanced level. The topic to be explored will change from semester to semester. The course may be repeated for credit as the content vaires.
Prerequisite: FREN 1411, FREN 1412, FREN 2311 and FREN 2312 with a grade of C or higher.

FREN 4377. French for Business Comm. 3 Hours.
Specialized focus on vocabulary, expressions and language used in oral and written business communication in French. Conducted in French.
Prerequisite: FREN 1411, FREN 1412, FREN 2311 and FREN 2312 with a grade of C or higher.

FREN 4379. Francophone Literature. 3 Hours.
A survey of the major topics in Francophone literatures and film from the French-speaking regions of the world. Conducted in French.
Prerequisite: FREN 1411, FREN 1412, FREN 2311 and FREN 2312 with a grade of C or higher.

Geography (GEOG)

GEOG 1300. People, Place and the Envrnmt. 3 Hours.
The basic concepts of meteorology and climatology are introduced. Atmospheric temperature, pressure, winds, moisture, and air masses and storms are systematically covered, followed by an overview of the major climates and ecosystems of the earth. Environmental problems related to weather, climate, and ecosystems are considered throughout.

GEOG 1401. Weather and Climate. 4 Hours.
The basic concepts of meteorology and climatology are introduced. Atmospheric temperature, pressure, winds, moisture, and air masses and storms are systematically covered, followed by an overview of the major climates and ecosystems of the earth. Environmental problems related to weather, climate, and ecosystems are considered throughout. The lab portion of weather and climate is an activity-related treatment of the basic components of meteorology and climatology. Specific topics covered are similar to the lecture.

GEOG 2320. Sustainability and Environment. 3 Hours.
In this course, students will investigate and assess the impacts that human activity can have on the environment and will seek to identify innovative, cross-disciplinary solutions to many of the world's most pressing environmental challenges. Given that Sustainability Science involves making decisions and taking actions that are in the interest of protecting the natural world, course topics will include current sustainability issues related to population growth, agriculture, natural resources, energy usage, habitat degradation and ecological economics. This course will typically be offered every other fall semester.
Prerequisite: BIOL 1401.

GEOG 2341. Physical Geography. 3 Hours.
n this course, students examine the basic physical and biological systems of planet Earth, including the atmosphere, oceans, landforms, soils, and ecosystems. Emphasis is placed on understanding the distribution, scale, and dynamic inter-relationships and processes which shape the physical and biological landscape, as well as the ways in which humans alter the environment and are, in turn, affected by the environment.

GEOG 2355. World Reg Geo-Eur Asia Aust. 3 Hours.
An introductory level course giving a general overview of the land and people. Topics discussed will include the physical environment, cultural characteristics and the various ways people live and make their living. Attention will be focused upon the relationships which exist between location, the physical environment and human activity. Examples of countries covered are Russia, Germany, France, China, Japan, and United Kingdom.

GEOG 2356. Reg Geo-Lat Am Africa So Asia. 3 Hours.
An introductory level course giving a general overview of the land and people. Topics discussed will include the physical environment, cultural characteristics and the various ways people live and make their living. Attention will be focused upon the relationships which exist between location, the physical environment and human activity. Examples of countries covered are Mexico, Brazil, Argentina, Egypt, Republic of South Africa, Israel, Iran, and India.

GEOG 2364. Geo-Spatial Technology. 3 Hours.
An introduction to technologies, such as geographic information systems (GIS) and global positioning systems (GPS), that are used to map and study the Earth. The emphasis is on the application of these technologies in areas of environmental and natural resources management, business and marketing, and law enforcement and national security.

GEOG 2464. Intro to Geographic Info Sys. 4 Hours.
This course will introduce basics of geographic information systems (GIS) with an emphasis on environmental and resource management applications. Students will design and develop a digital spatial database, perform spatial analyses, create hardcopy maps, and generate reports. Students will be introduced to several GIS software packages. This course does incorporate a laboratory component.

GEOG 3301. Environmental Geography. 3 Hours.
Environmental Geography is a study of the spatial dimensions of the interaction between humans and their physical environment. Key principles of how the earth and the earth's ecosystems work, how they are interconnected, and how humans use and impact these natural resource systems will be introduced.

GEOG 3310. Sustainable Development. 3 Hours.
Sustainable development is both a fundamental concept used to understand the modern world and a tool to address global issues. In this course, students examine this concept using the framework of geography and a global perspective. The course focuses on the intersections of environment and society, including environmental, economic, and social barriers to development, environmental and social impacts of development, and the role of environmental sustainability in achieving global development goals.
Prerequisite: GEOG 1321 or GEOG 2355 or GEOG 2356.

GEOG 3350. Cultural Geography. 3 Hours.
This course focuses on the concept of culture from a spatial or geographical perspective, examining culture as it relates to the geographic landscape. Topics include the spatial dynamics of language, religion, race, ethnicity, music, sport, folk and popular cultures, and the built environment. The course also provides an examination of symbolic landscapes, contested spaces, subaltern geographies, representations of place in film and literature, gendered spaces, and place-situated identities.

GEOG 3352. Tourism Geography. 3 Hours.
Provides an introduction to the geography of tourism. Topics include the historical development of travel and tourism, place promotion, location of tourism destinations, geographic resources of tourism, and the physical and social outcomes of tourism.
Prerequisite: GEOG 1321 or GEOG 2355 or GEOG 2356.

GEOG 3358. Historcl Geog Of United States. 3 Hours.
A survey of the changing geography of the United States including initial exploration, European perception of North America, geographical expansion of the United States to the Pacific, and geographical factors underlying the urbanization and industrialization of the nation.

GEOG 3359. Regional Geography:Us & Canada. 3 Hours.
This course provides a general overview of the land and people of the United States and Canada. Topics covered include the physical environment (weather patterns, landforms and water resources), cultural differences, and the various ways people live and make their living. Attention is focused upon the relationships which exist between location, the physical environment and human activity. This course is available on-line and via traditional classroom delivery.

GEOG 3362. Map Use & Map Interpretation. 3 Hours.
This course teaches students how to use and interpret topographic maps and helps them to develop an appreciation of their use as tools by geographers. It familiarizes students with map projections and their limitations, various coordinate systems, map measurements, GPS, and the basics of air photo interpretation.

GEOG 3363. Computer Cartography. 3 Hours.
Fundamentals of thematic mapping, including appropriate usage, projections, base-map compilation, data measurement and analysis, map design and construction, color principles, and other cartographic concepts will be emphasized.
Prerequisite: GEOG 2464.

GEOG 4075. Readings in Geography. 1-3 Hours.
A course designed specifically for advanced students of geography who are capable of independent study. Registration is permitted only upon approval of the program coordinator. This course may be taken for Academic Distinction credit. See Academic Distinction Program in this catalog. Variable Credit (1-3).

GEOG 4076. Special Topics. 1-3 Hours.
This course of faculty-led study is designed to explore geographical topics and concepts in a course setting. Students engage in either an in-depth, interdisciplinary study of a particular geographic region in the world, or a systematic study of a geographic topic. The course is repeatable for different regions or different topics. Variable Credit (1 to 3).
Prerequisite: GEOG 1321,or GEOG 2355, or GEOG 2356, or permission of instructor.

GEOG 4331. Conservatn Of Naturl Resources. 3 Hours.
This course stresses the impact of human activities on the natural world, environmental protection, and the wise use of the earth?s resources. Topics include: environmental history, economics, law and ethics, ecology, population issues, agriculture and grazing, soil conservation, forestry, endangered and exotic species, water availability and water pollution, hazardous and solid waste management, air pollution (including global warming), energy resources (fossil, nuclear, and renewable), and the impact of technology on the future health of the planet.

GEOG 4333. Field Studies. 3 Hours.
Use of geospatial technologies such as Global Positioning Systems (GPS), laser surveying, digital aerial photography and computerized mapping (GIS) will be stressed. Applications of these technologies will include surveying, water resources, forestry, soil science, wetlands delineation, urban and transportation planning, automobile accident reconstruction and crime scene evidence recovery. Half of the class meetings will take place at a variety of outdoor locations.

GEOG 4351. Economic Geography. 3 Hours.
An examination of the importance of location to human activity. The locational characteristics of primary, secondary, and tertiary economic activities are examined, with an emphasis on land use and urban form, its theory, and descriptive analysis, as well as an explanation of market forces and their consequences. Writing enhanced.

GEOG 4356. Urban Geography. 3 Hours.
This course will introduce the scope and nature of urban areas from a geographical or spatial perspective. The course will focus on the spatial structure of urban areas and will examine the geography of cities using an urban systems approach. Emphasis will be placed on the North American city and its problems: land use, transportation, political fragmentation, physical environment, demographic and social change, economic dynamics, residential patterns, urban culture, poverty, etc. Trends in urbanization in both developed and developing worlds will be discussed. Writing enhanced.
Prerequisite: GEOG 1321 or GEOG 2355 or GEOG 2356.

GEOG 4357. Population Geography. 3 Hours.
Population geography examines spatial patterns and processes influencing the distribution, density, composition, and growth in human populations. The course will focus on migration, and to a lesser extent on fertility and mortality together with socio-economic, political, and environmental causes and consequences of population dynamics that vary between regions and over time. Writing enhanced.
Prerequisite: GEOG 1321 or GEOG 2355 or GEOG 2356.

GEOG 4358. Geography Of Texas. 3 Hours.
A survey of the regional geography of Texas. Consideration is given to the significance of primary and secondary activity within the state, urbanization, and potential for development.

GEOG 4359. Transportation Geography. 3 Hours.
This course introduces the concepts, theories, and methods of transportation geography. It covers transportation infrastructure, modes of terminals, transportation economics, urban transportation, logistics, and transportation planning. In addition, this course covers various analytical techniques applied in transportation analysis, such as network analysis, gravity models, location-allocation modeling, and geographic information systems in transportation studies.
Prerequisite: GEOG 1321 or permission of instructor.

GEOG 4360. Cultural Field Study. 3 Hours.
This course focuses on a number of topics and concepts that fall within the sub-discipline of cultural geography. Students engage in place-based learning, with the primary emphasis being a field experience that directly exposes students to processes and concepts introduced and discussed in the classroom. These include migration, urbanization, economic transformations, demographic change, social and technological change, racial segregation, civil rights, heritage tourism and other topics. Writing enhanced.
Prerequisite:6 GEOG advanced hours or permission of Instructor.

GEOG 4361. Geographic Information Systems for Public Health. 3 Hours.
This course covers the theory and application of Geographic Information Systems (GIS) for public health. It includes an overview of the principles of GIS in public health and practical experience in its use. In addition, it covers the application of GIS mapping and analyzing the geographic distribution of populations at risk and health outcomes. The practical component involves the use of desktop GIS software packages.
Prerequisite: GEOG 2464 or HLTH 3350 or HLTH 3360.

GEOG 4365. Applied Geographic Info Systms. 3 Hours.
Applied GIS is designed to meet the needs for a highly applied course with realistic practical training extending the fundamental principles learned in Introduction to Geographic Information Systems (GEOG 2464). The application of GIS technology to mapping, modeling and management of large data bases will be emphasized.
Prerequisite: GEOG 2464.

GEOG 4430. Hydrology and Water Resources. 4 Hours.
Students in this course examine the hydrologic cycle, with an emphasis on surface water processes. Specific topics may include precipitation, infiltration, evapotranspiration, fluvial processes, and sediment transport. Using the physical concepts and equations related to these topics, students analyze water-related hazards, including flooding and drought, as well as water management and policy. While Texas-specific issues are emphasized, this course includes both U.S. and international geographies of hydrology, water resources, and water management.
Prerequisite: GEOL 1403 or GEOG 2341 or GEOG 4432 and MATH 1314 or MATH 1369 or MATH 1420; or permission of instructor.

GEOG 4432. Geomorphology. 4 Hours.
This course focuses on surficial geological processes and the resulting landforms. Specific topics include landscape processes associated with streams, glaciers, wind, coasts, mass wasting, weathering and soil development, and geologic structure. Labs emphasize landform analysis through interpretation of topographic maps and aerial photos. Two-hour laboratory.
Prerequisite: GEOL 1303.

GEOG 4468. Remote Sensing. 4 Hours.
This course introduces students to the methods used to analyze and interpret aerial photography and satellite imagery. Emphasis is placed on multispectral satellite imagery, digital image processing, and land use and land cover analysis using remotely sensed imagery. Lab included.

Geology (GEOL)

GEOL 1403. Physical Geology. 4 Hours.
An introduction to the materials, processes, and structure of the earth. Topics include earthquakes, volcanoes, plate tectonics, mountain building, weathering and erosion, glaciation, oceans, and mineral resources. The laboratory taken concurrently with the lecture includes experiences that involve the study of rocks, minerals, and map interpretations. Fall, Spring, Summer.

GEOL 1404. Historical Geology. 4 Hours.
An introduction to the history of the earth and its past inhabitants, including a section on the dinosaurs and their extinction. This course gives a broad overview of the tectonic evolution of the planet, indicated by various major mountain-building events; ancient environments and changing sea levels recorded in sedimentary deposits; and the evolution of life represented by the fossil record. The laboratory taken concurrently with the lecture includes the study of common animal and plant fossils and problems which illustrate practical applications of geological principles. Fall, Spring, Summer.

GEOL 1405. Geologic Hazards & Resources. 4 Hours.
An introduction to the interrelationship between humans and the geologic environment. This includes the potential hazards posed by geologic processes, and the planning that needs to be done to lessen their impact. Earth materials and their uses by humans are also emphasized. The laboratory taken concurrently with the lecture includes map and air photo interpretation, analysis of remote sensing data, and study of economically important earth materials. Field trips and take-home computer exercises are also required. Fall, Spring, Summer.

GEOL 1436. Foundations Of Science. 4 Hours.
The course focuses on the nature of science as a reliable method of acquiring knowledge about the natural world. Students will learn how to apply key scientific facts, concepts, laws and theories to distinguish science from non-science, bad science, and psedudoscience by analyzing a variety of claims and case studies. By employing an innovative, interdisciplinary approach to science education, this course is designed to increase science literacy and critical thinking skills for introductory-level science students. Students must enroll concurrently in the corresponding lab for this course.

GEOL 3301. Field Methods. 3 Hours.
This course provides experience with common field techniques used in geologic mapping and geologic investigations. It emphasizes techniques and skills used for systematic field observations and data collection for construction of stratigraphic columns, structural cross-sections, and the development of geologic maps. The course has a mandatory two-week field component.
Prerequisite: GEOL 1304/GEOL 1104 or GEOL 1404 and GEOL 1303/GEOL 1103 or GEOL1403 or GEOL 1305/GEOL 1105 or GEOL 1405.

GEOL 3326. Environmental Geology. 3 Hours.
This course offers an introduction to geological processes and materials, and how they affect people and the environment. Specific topics include earthquakes, volcanism, mass wasting, floods, coastal hazards, and climatic change. Optional topics may include such items as energy and water resources, subsidence, and waste disposal. Even year, Fall.
Prerequisite: GEOL 1303, GEOL 1103.

GEOL 3330. Oceanography. 3 Hours.
A survey of the general principles of oceanography is made. The geology of ocean basins, tide-water processes and the chemistry of sea water are studied. Biophysics of the sea and environmental problems are considered. Spring, Summer I.
Prerequisite: GEOL 1303, GEOL 1103.

GEOL 3332. Forensic Geology. 3 Hours.
The course covers many of the basic geological principles and techniques used in solving crime. A significant part of the course will involve case studies as well as hands-on field and laboratory analyses. Even year Fall.
Prerequisite: GEL132/112 or GEOL 1303, GEOL 1103 plus CHEM 1311, CHEM 1111, CHEM 1312, CHEM 1112, and MATH 1316.

GEOL 3404. Mineralogy. 4 Hours.
This course covers crystallography, genesis of minerals, identification and classification of minerals, and optical mineralogy. Includes lab work. Odd year, Fall.
Prerequisite: GEOL 1303/GEOL 1103 or GEOL 1403 or GEOL 1305/GEOL1105 or GEOL 1405 and GEOL 1304/GEOL 1104 or GEOL 1404 and CHEM 1311/CHEM 1111 or CHEM 1411 and CHEM 1312/CHEM 1112 or CHEM 1412 and MATH 1316 or MATH 1410.

GEOL 3405. Petrology. 4 Hours.
The classification, origin, occurrence and associations of igneous, sedimentary, and metamorphic rocks. Includes optical petrology using thin sections. Spring.
Prerequisite: GEOL 3404.

GEOL 3415. Paleontology of Invertebrates. 4 Hours.
The focus of this course will be the fundamental concepts, principles, and methods involved in deciphering the origin, development, and extinction of past life as revealed through the study of invertebrate fossils.
Prerequisite: GEOL 1404.

GEOL 4095. Special Topics in Geology. 1-3 Hours.
Individual study in special areas of geology. Topic content will usually be selected and agreed upon by the student and a member of the Geology faculty. Sometimes special topics courses will be offered by the Geology faculty. This course may be taken for Academic Distinction credit. See Academic Distinction Program in this catalog. Fall, Spring, Summer. Variable Credit (1-3). May be repeated for credit.
Prerequisite: Prerequisites and credit will be determined by the faculty member.

GEOL 4304. Geochemistry. 3 Hours.
A general introduction to all types of geochemistry that includes a discussion of the underlying chemical concepts, with an emphasis on the applications to geological environments. The chemical concepts include isotopic chemistry, thermodynamics, crystal chemistry, and aqueous solutions. The geological metasomatism, geothermobarometry, and environmental geochemistry. Even year Fall.
Prerequisite: GEOL 1305, GEOL 1105 or GEOL 1303, GEOL 1103 plus CHEM 1311, CHEM 1111.

GEOL 4312. Economic Geology. 3 Hours.
This course is concerned with the origin and occurrence of economically important minerals. A portion of the course is devoted to petroleum. W Odd year Spring.
Prerequisite: GEOL 1403 or GEOL 1405 plus GEOL 1404.

GEOL 4320. Petroleum Geology. 3 Hours.
This course reviews the origin and development of petroleum and natural gas deposits, and surveys the various tools used to prospect for commercial deposits of oil and natural gas.
Prerequisite: GEOL 1304, GEOL 1104 and GEOL 1303, GEOL 1103 or GEOL 1305, GEOL 1105.

GEOL 4331. Geology Of North America. 3 Hours.
A study of the geologic history of the continent of North America. Topics include paleogeography, major depositional areas and stratigraphic units, and paleotectonics. Even year Spring.
Prerequisite: GEOL 1303/GEOL 1103 or GEOL 1403 or GEOL 1305/1105 or GEOL 1405 and GEOL 1304/GEOL 1104 or GEOL 1404.

GEOL 4337. Plate Tectonics. 3 Hours.
An introduction to the movement of lithospheric plates. Topics to be covered include earthquakes, volcanism, seismic tomography, the evolution of continents and ocean basins, and the influence of the earth?s interior on these processes. Lecture only. Odd year Fall.
Prerequisite: GEOL 1303/1103 or GEOL 1403 or GEOL 1305/1105 or GEOL 1405 and GEOL 1304/1104 or GEOL 1404.

GEOL 4360. Field Geology. 3 Hours.
These courses will consist of on-site studies in structure, stratigraphy, petrology and paleontology. Field trips will be taken to appropriate areas in Texas and/or surrounding states. Writing enhanced. T
Prerequisite: Senior standing.

GEOL 4361. Field Geology. 3 Hours.
These courses will consist of on-site studies in structure, stratigraphy, petrology and paleontology. Field trips will be taken to appropriate areas in Texas and/or surrounding states. Writing enhanced. T
Prerequisite: Senior standing.

GEOL 4400. Stratigraphy And Sedimentation. 4 Hours.
A study of the principles and methods used in describing, classifying and correlating strata. Includes studies of modern and ancient depositional environments. Lab/field work included. Odd year Spring.
Prerequisite: GEOL 1304/GEOL 1104 or GEOL 1404 and GEOL 1303/GEOL 1103 or GEOL 1403 or GEOL 1305/GEOL 1105 or GEOL 1405.

GEOL 4402. Structural Geology. 4 Hours.
This course covers the principles of deformation of the Earth?s lithosphere, with emphasis on mechanical principles, identification and interpretation of structures from the microscopic scale to the scale of mountain belts. Other topics include regional tectonics and application in petroleum exploration. Lab work will focus on graphical and quantitative techniques of analyzing geologic structures. Odd year Spring.
Prerequisite: GEOL 1303, GEOL 1103, PHYS 1301, PHYS 1102, MATH 1316.

GEOL 4413. Methods In Applied Geophysics. 4 Hours.
Applied Geophysics involves measurements made on the surface of the Earth that are interpreted to yield the distribution of subsurface properties, particularly those having economic and engineering importance. This course provides an introduction to the latest methods used to map the distribution of physical properties beneath the surface of the Earth, and is widely recommended for students who plan to pursue careers that directly or indirectly involve subsurface imaging and analysis. Odd year Fall.
Prerequisite: GEOL 1305, GEOL 1105 or GEOL 1303, GEOL 1103, MATH 1420, PHYS 1301, PHYS 1101, PHYS 1302, PHYS 1102, or by permission of instructor.

GEOL 4414. Sea Level Chng & Geolgl Record. 4 Hours.
This course will examine the various modern causes of relative and absolute sea level change. The course also will involve the analysis of ancient geological sedimentary and stratigraphic records from the perspective of what they reveal about rates and scales of sea level change in the past, as well as implications for the future. Sequence stratigraphic concepts (commonly used in the petroleum industry) will be critically examined via field-based, and paper and core-based studies. Even year Spring.
Prerequisite: GEOL 1305, GEOL 1105 or GEOL 1303, GEOL1103 and GEOL 1304, or permission of instructor.

GEOL 4426. Hydrogeology. 4 Hours.
An introduction to the study of groundwater and its role in the hydrologic cycle. Topics include properties and distribution of water on the surface, in the vadose zone and in aquifers; behavior, modeling, and geology of groundwater aquifers; human use and abuse of water resources, including groundwater contamination and extraction; and water law economics, and aquatic ecology. A lab with field trips will focus on measurement and modeling of groundwater.
Prerequisite: GEOL 1303, GEOL 1103, MATH 1316.

German (GERM)

GERM 1411. Elementary German. 4 Hours.
For students who have had no previous instruction in German. The work includes vocabulary acquisition, international cultural components, pronunciation, drills, sentence formation, and everyday conversation leading to proficiency. Two one-hour language laboratory periods weekly are required, one of which is a concurrent lab class enrollment.

GERM 1412. Elementary German. 4 Hours.
A continuation of GERM 1411 with more speaking and writing toward advancing proficiency. Two one-hour language laboratory periods weekly are required, one of which is a concurrent lab class enrollment.
Prerequisite: Grade of C or better in GERM 1411 or equivalent.

GERM 2311. Intermediate German I. 3 Hours.
A continuation of GERM 1412 with emphasis on written and oral skills.
Prerequisite: Grade of C or better in GERM 1412 or equivalent.

GERM 2312. Intermediate German II. 3 Hours.
A continuing emphasis on fluent usage of oral and written German. Intensive study of selected written work with the purpose of mastering midlevel proficiency skills.
Prerequisite: Grade of C or better in GERM 2311 or equivalent.

GERM 2364. Multicultures Of Amer-German. 3 Hours.
A survey course designed to increase an awareness of Central- European culture in America with particular emphasis on the nineteenth and the twentieth centuries. This course may be conducted in English or German. Credit for this course may be applied to the major or minor only with permission of department chair.
Prerequisite: Grade of C or better in GERM 2312 or equivalent.

GERM 3368. German Media. 3 Hours.
Study of German Media. Focus on conversational, listening, reading, and vocabulary skills. Students will watch German television programs and will read articles from major German magazines and newspapers. Includes a review of German grammar.
Prerequisite: GERM 1411, GERM 1412, GERM 2311 and GERM 2312 with a grade of C or better.

GERM 3380. Modern German Culture. 3 Hours.
An overview of the cultures of German speaking countries (Germany, Austria, and Switzerland) from 1780 to the present.
Prerequisite: GERM 1411, GERM 1412, GERM 2311 and GERM 2312 with a grade of C or better.

GERM 4075. Individual Readings in German. 1-3 Hours.
This course is designed for the individual student who may need study of a particular era, genre, or author. Enrollment in this course is restricted and approval of such must be obtained from the department chair. The course may be repeated for credit as content varies. Variable Credit (1-3).

GERM 4360. Modern German Literature. 3 Hours.
An overview of the literatures of German-speaking countries (Germany, Austria, and Switzerland) from 1770 to the present.
Prerequisite: GERM 1411, GERM 1412, GERM 2311 and GERM 2312 with a grade of C or better.

GERM 4370. Seminar in Sel German Topics. 3 Hours.
An in-depth study of a selected topic. The topic to be explored will change from year to year. This course may be repeated for credit as the content varies. Enrollment for this course must be granted by the Department Chair.
Prerequisite: GERM 1411, GERM 1412, GERM 2311 and GERM 2312 with a grade of C or better.

Guitar (GUIT)

GUIT 1201. Ind Performances-Guitar. 2 Hours.

GUIT 3201. Ind Performances-Guitar. 2 Hours.

GUIT 3202. Applied Guitar W/ Jr Recital. 2 Hours.

Harp (HARP)

HARP 1201. Harp. 2 Hours.
The course will focus on harp playing technique, historical performance practice, and fundamentals of harp performance.
Prerequisite: Permission of the instructor.

HARP 3201. Harp. 2 Hours.
The course will provide advanced training and instruction including performance technique, interpretation of music, performance practice in various major musical periods, alternate tunings, and the history of harps and harp playing.
Prerequisite: Passing the sophomore barrier in harp.

HARP 3202. Applied Harp W/ Jr Recital. 2 Hours.
The course consists of individualized private instruction on the harp. Instruction will focus on technique and musicality. Students will also attend a weekly studio class, where there will be opportunities to perform for fellow students, and perform a culminating recital. Credit 2
Prerequisite: Students must have instructor permission.

Health (HLTH)

HLTH 1360. Fund Hlth Promo & Hlth Careers. 3 Hours.
This course explores the determinants of health, theories of health behavior, the nature and history of health education, and the role of the health educator as a professional in the school, work, clinical, and community settings to promote health and prevent disease.

HLTH 1366. Lifestyle And Wellness. 3 Hours.
Lifestyle and Wellness explores a variety of health issues which influence the well-being of an individual throughout the life cycle. The student is given an opportunity to develop a personal philosophy of wellness and self-responsibility for health through self-assessment, investigation of factors affecting one?s health, and the examination of behavior modification strategies.

HLTH 2330. First Aid & CPR - Am Red Cross. 3 Hours.
A course for those who wish to acquire knowledge of Red Cross emergency and preventive measures. Successful completion leads to CPR, first aid, and responding to emergency certification. Students may also become instructors through additional American Red Cross training. (Also listed as KINE 2330).

HLTH 2372. Health & Medical Terminology. 3 Hours.
This course provides medically-oriented students with the cognitive skills they need to understand the foundations of medical technology for health professionals. The content of this course focuses on the prefixes, suffixes, and roots of medical terms that are associated with multiple disease processes, medical protocols, and the human anatomical system.

HLTH 2381. Consumer Health Education. 3 Hours.
A study of the factors which influence the consumer marketplace for health related products and services. Topics include fraud and quackery, advertising, health care professional services, alternative medicine, consumer protection agencies, and consumer protection throughself-responsibility.

HLTH 2383. Multicultural Health Issues. 3 Hours.
This course addressed health issues and problems that various ethnic groups face in the United States. Cultural differences in health behaviors, health care access, and promotion and prevention programs are emphasized.

HLTH 3219. Group Exercise Instruction. 2 Hours.
This course presents a comprehensive and research-based discussion and application of all formats of group exercise instruction. These formats include lifestyle-based, dance-based, equipment-based, and mind-body classes. The course presents foundational knowledge for group exercise instructors.
Prerequisite: KINE 2119 or concurrent enrollment.

HLTH 3345. Health Statistics. 3 Hours.
This course presents an overview of statistical measures used in the health sciences. The problems-based course provides hands-on applications of statistical software that is oriented to authentic health issues and cases. Emphasis will be made in the application of statistical tools to answer and solve real-world public health related questions and problems.
Prerequisite: MATH/STAT 1370.

HLTH 3350. Principles of Public Health. 3 Hours.
This course will prepare students with the knowledge, skills, core values, and professional dispositions they will need to work in one of the diverse areas of public health.
Prerequisite: Junior Standing.

HLTH 3355. US Health Care Systems. 3 Hours.
This course provides students with a comprehensive survey of the components, organization, and management of the US health care system. Topics of the course include the historical perspectives, structure, operations, economic indicators, and current/future directions of the US health care delivery system.

HLTH 3360. Epidemiology. 3 Hours.
The course examines the basic epidemiological tenets, research techniques and technologies, findings of association and causation, distribution of diseases, and those factors that explain such distributions. Emphasis is placed on the interactions of biological, social, and economic factors in relation to accessibility of health services and geographical variations in health risks.
Prerequisite: MATH/STAT 3379 or 1369 or 1370.

HLTH 3361. Health Planning & Evaluation. 3 Hours.
This course surveys the use of program planning models and health behavior theories in the wellness setting as well as assessment and evaluation processes for wellness management programs.
Prerequisite: Junior Standing.

HLTH 3380. Drug Use and Abuse. 3 Hours.
This course explores the use and misuse of drugs and their effects on the health of man.

HLTH 3382. Child & Adolescent Health. 3 Hours.
This course focuses on the causes of and approaches to physical, social, mental, and emotional health problems among young people. Emphasis is placed on creating an environment in which children and adolescents can learn to make prudent decisions regarding health related behaviors. .

HLTH 3385. Safety Education. 3 Hours.
This course presents the foundations of accident prevention and injury control. Applications are made to motor vehicle, home, recreational, and occupational safety.

HLTH 3390. Family Life & Sex Education. 3 Hours.
This course focuses on the formation of intimate relationships: family, marriage, and friends. Individuals are directed into the study of their personal backgrounds, lives, and dreams in preparation for marriage. Includes problems of relationships: rape, battering partners, sexually transmitted diseases, and divorce.

HLTH 3391. Human Diseases. 3 Hours.
Introduction to the relationship between the human body and disease, both communicable and non-communicable. Includes historical aspects of various diseases, etiology, prevention and control, prevalence, symptoms, and treatment.

HLTH 3392. Health Comm & Literacy. 3 Hours.
An exploration of different modalities of communicating health issues and information to audiences in different settings. Emphasis is given to listening, writing and speaking skills. Students will learn how to make effective presentations using computer applications to design print and visual aid materials.
Prerequisite: HLTH 1360 and HLTH 1366.

HLTH 4117. Practicum. 1 Hour.

HLTH 4317. Intl Persp of Env Health. 3 Hours.
Students in this course examine international environmental and public health concerns through the interaction of the environmental triad: Population, poverty, and pollution. The course examines national policy responses to mitigate and adapt to environmental concerns, and how these policies may differentially impact human health. Prerequisite:
Prerequisite: HLTH 3350 or permission of the instructor.

HLTH 4360. Research Methods/Grantsmanship. 3 Hours.
An introduction to research methodology, evaluation, and statistical analysis with direct application to health education and health promotion. Students will learn how to apply these techniques to writing a grant proposal.
Prerequisite: Junior standing.

HLTH 4361. Mgng Hlth Promo In Workplace. 3 Hours.
A course designed to prepare the health educator to establish special programs which promote health in corporate, occupational, or industrial settings.

HLTH 4363. Interventions for Wellness. 3 Hours.
This course addresses the skills and resources needed to implement and facilitate specific interventions within a comprehensive wellness program. The development and delivery of programs including tobacco management, weight control, nutrition, physical activity, workplace safety, disease prevention, and other applicable interventions will be addressed.
Prerequisite: Junior Standing.

HLTH 4364. Directing Wellness Programs. 3 Hours.
This course addresses the general administrative and daily operational skills required to direct a wellness program in corporate, institutional, and community settings. Emphasis is placed on the collaborative and professional skills that are needed to manage wellness programs.
Prerequisite: Junior Standing.

HLTH 4365. Health Care Policy. 3 Hours.
This course prepares students in the essential health policy and law, and the policies and legal issues impacting health care and public health systems. Also included are the methods used to formulate health policies and laws.
Prerequisite: Junior Standing.

HLTH 4366. Health Informatics. 3 Hours.
This course will prepare students with innovative and best practice technological applications to support human health by individuals, professionals, care delivery organizations, and communities. Internet-based health resources, smart phone/mHealth applications, telehealth, health-related social networks, and policies to connect people and technologies securely across health care ecosystems are applied.
Prerequisite: Junior Standing.

HLTH 4367. Economics for Health Managers. 3 Hours.
This course provides an overview of economic principles and analysis tools as applied to the health care industry. Traditional market-based economic theories will be examined along with the significant role that government entities play in health care. Course topics include health care supply, demand, elasticity, risk, cost, pricing, and insurance costs.
Prerequisite: HLTH 3355, ECON 2302 or ECON 2301, Senior Standing.

HLTH 4370. Aids:Curr Hlth Prob/Prevention. 3 Hours.
An examination of the intensity and magnitude of health problems due to HIV and AIDS. Student will explore the nature of HIV; its transmission and progression; and the management of AIDS. The course will focus on prevention of the spread of AIDS among school-age children and young adults, and will address the economical, sociological, and ethical issues of AIDS.
Prerequisite: Junior standing.

HLTH 4371. Patient Navigation. 3 Hours.
This course prepares Bilingual Health Care Studies students with advanced health care concepts, resources, and skills related to patient navigation by applying Culturally and Linguistically Appropriate Services (CLAS) in various health care settings. The course emphasizes the integration of patient navigation into, and through, the US health care system. Students evaluate topics related to patient navigation background and history, discuss the National Standards for CLAS in Health Care, and examine the roles and responsibilities of an effective culturally and linguistically competent patient navigator.
Prerequisite: HLTH 1360, HLTH 3391, Senior standing.

HLTH 4375. Health Laws and Ethics. 3 Hours.
This course is designed to provide students with the fundamentals of health law and ethics. The course explores the multi-faceted aspects of employer-employee relations in the health care setting and the legal ramifications associated with patient relations, patient care, and medical records. In addition, the course explores and analyzes the issue of ethics in contemporary health care situations.
Prerequisite: HLTH 1360, HLTH 3355, Senior standing.

HLTH 4380. Global Health. 3 Hours.
This course serves to provide students with an in-depth approach to the social, economic, environmental, cultural, and intellectual issues that determine the health status of global populations.
Prerequisite: Junior Standing.

HLTH 4384. Internship Preparation. 3 Hours.
This course provides practical experience in wellness programming and leadership skills that are necessary to successfully complete an internship in the wellness management field. Students will be provided with job acquisition skills in resume development, interviewing techniques, and the job search process.
Prerequisite: Senior Standing.

HLTH 4387. Community Health. 3 Hours.
This course is an overview of the political, social, economic, and cultural variables affecting the health of a community. Topics include: foundations of community health, health resources, health through the life span, governmental and voluntary programs, and international health initiatives.
Prerequisite: Junior Standing.

HLTH 4390. Environmental Health. 3 Hours.
This course is designed to investigate community environmental health problems. Topics include population problems, housing, sanitation, air and water pollution, and other environmental health issues. Emphasis is on school-community action programs to conserve the environment.
Prerequisite: Junior standing.

HLTH 4392. Problems In Health. 3 Hours.
A directed individual study of an approved field problem in health and/or allied fields.
Prerequisite: Departmental approval.

HLTH 4393. Prof Prep Health Careers. 3 Hours.
This course is designed to prepare students for their professional internship. Course content focuses on the contemporary areas of: assessing, planning, implementing, and evaluating health programs; communicating health needs; serving as a resource person; and coordinating health needs in a community.
Prerequisite:12 hours of Health including HLTH 4387.

HLTH 4394. Internship Program. 3 Hours.
This course provides the student with opportunities to demonstrate assessment, organization, group process and program planning skills in a health community setting.
Prerequisite: HLTH 4393.

HLTH 4395. Special Topics in Health. 3 Hours.

History (HIST)

HIST 1301. United States History To 1876. 3 Hours.
The colonial origins of the United States and growth of the Republic to 1876.

HIST 1302. United States History Sn 1876. 3 Hours.
Continuing survey of the United States to the present.

HIST 2311. World History to 1500. 3 Hours.
A survey of world history from the dawn of civilization in Mesopotamia, China, India, Egypt, and Mesoamerica through the Middle Ages in Europe and Asia. The Middle Ages, Renaissance, and Reformation, as well as the rise of nation states and the commercial economy are stressed as background to modern history. Recommended as a basic history course for all liberal arts majors.

HIST 2312. World History since 1500. 3 Hours.
A survey of world history since sixteenth century. Special attention is given to European expansion overseas, imperialism and colonization, the Industrial Revolution, the Enlightenment, the French Revolution, nineteenth century nationalism and democracy, and the colonial rebellions in Africa, Latin America, and Asia. Such 20th century problems as World War I, World War II, the Cold War, and the collapse of the Soviet Union are also considered. Recommended as the second half of a basic history course for all liberal arts majors.

HIST 3075. Independent Study. 1-3 Hours.
A course designed especially for advanced students in history with schedule problems who are capable of independent study. This course may be taken for Academic Distinction Credit. See Academic Distinction Program in this catalog.

HIST 3322. Black Civil Rights Movement. 3 Hours.
This course examines the black civil rights struggle in the United States from the late 19th century to the present. Topics examined include the black response to Jim Crow laws, the emergence of national civil rights organizations as well as local activism, and historical events that have served as catalysts for change in civil rights legislation.

HIST 3323. History Of American Slavery. 3 Hours.
This course will provide foundational knowledge for students studying American history prior to the twentieth century. Students will engage in a comprehensive examination of slavery as an integral part of America's social, cultural, and economic development as a country and also as a catalyst to the establishment of antislavery and abolitionist movements.

HIST 3325. Era Of Amer Revoltn 1763-1789. 3 Hours.
An intensive study of the issues of conflict between English continental colonies and British imperial policy which led to the movement for independence. Consideration is also given to internal colonial conflicts and attempts to solve the federal problem culminating in the formation of the Constitution.

HIST 3326. The History Of The West. 3 Hours.
A study of the settlement and development of the Trans-Mississippi West and its influence upon national and international affairs.

HIST 3327. Topics in the History of Gender and Sexuality. 3 Hours.
The topic will vary by semester, each offering of the course likely emphasizing how the understanding of gender and sexuality differs historically according to factors such as race, class, ethnicity, religion and/or sexual orientation.

HIST 3328. Mod France: From Rev To Presnt. 3 Hours.
This course examines the history of France from 1789 ? the present. The military, political, and diplomatic history of France in this era are the main focus of the course.

HIST 3329. Contemporary Latin America. 3 Hours.
The development of the South American Republics from their independence to the present. Social, economic, and political development will be closely examined.

HIST 3330. Modern China And Japan. 3 Hours.
This course will focus on the history of modern China and Japan from the last Chinese dynasties to the present, with emphasis on the resilience and weaknesses of China?s imperial system; the challenges posed to China?s traditions by Western economic and cultural penetration; China?s twentieth century experiments in forms of government and in direction of its cultural development; and the political, economic, social, and intellectual history of Japan from the beginning of the Meiji period (1868) to the present.

HIST 3332. Modern Asian History. 3 Hours.
A study of Asian history since the fourteenth century. The emphasis is on the modernization of Asia and the influence of colonization, nationalism, and industrialization on present-day Asia.

HIST 3333. Religion In World History. 3 Hours.
This course will examine the origins, development, and modern manifestations of the major living world religions. It will discuss the peoples, times and places of the founders of each tradition, the classical literature within each tradition and the canonization of these sacred writings, and the significant sects and schisms within the religions that have influenced major events in world history.

HIST 3334. Renaissance Europe. 3 Hours.
This course examines the intellectual, political, social and cultural history of Europe from the 14th to 16th centuries, a period that saw, starting in Italy, a ?rebirth? of the values and culture of Classical Greco-Roman civilization. The primary focus will be on intellectual and artistic movements, and the profound implications these had for European values, worldview, politics, and art.

HIST 3335. Germany & Cen Europe Sn 1815. 3 Hours.
A study of German and Central European history, emphasizing the principal political, economic and social trends since the Congress of Vienna.

HIST 3336. Middle East Since 1700. 3 Hours.
This course will study the political, social, economic, and cultural development of the Middle East since the seventeenth century. The course will study such topics as the decline of traditional empires; the encroachment of Europe; the Eastern Question; the development of nationalism among the Turks, Arabs, and Iranians; Islam and modern ideologies; and the Middle East in the twentieth century.

HIST 3337. The Bible and Reform in Europe. 3 Hours.
This course examines the religious, social and cultural history of Europe from the 16th into the 17th centuries, a period that saw the fracturing of a unified Christendom. The primary focus will be on religious and theological changes and the profound implications these had for European politics, social norms, cultural values, and economic endeavors.

HIST 3338. Eco His: Ind Rev To Present. 3 Hours.
This course examines the Industrial Revolution as it came into being in Britain in the nineteenth century and as leadership passed to the United States in the twentieth. Topics discussed include the relationship between agriculture and industry, the rise of the corporation, the development of the international monetary system, and systems of trade.

HIST 3339. French Revol & Napoleonic Wars. 3 Hours.
This course examines the history of France during the French Revolution Napoleonic Era, 1789-1815. The course is focused primarily on the military and political history of the era, with a detailed examination of the battles and campaigns of the Napoleonic Wars.

HIST 3340. Mexican Americans Since 1848. 3 Hours.
This course considers the history of Mexican-Americans in what is now the United States Southwest. The course begins with the 1848 Treaty of Guadalupe Hidalgo that ended the war between the United States and Mexico and created a Mexican-American minority within the U.S. It covers such themes as the indigenous background of this population, the Chicana/o perception of the Southwest as a homeland, and the effect of that perception on the history of this ethnic group.

HIST 3342. History of Seapower. 3 Hours.
In this course students examine naval warfare and maritime trade from the mid-seventeenth through the twentieth centuries. The emergence of modern state-based navies, their growing importance in warfare, the role of politics and administration in waging naval war, maritime cultures and societies, privatized war at sea, and major naval campaigns of the era are discussed. The complexities of maritime trade and communication, which the naval forces are committed toward defending or attacking, is also a topic of discussion.
Prerequisite: Junior Standing.

HIST 3350. Early Christianities. 3 Hours.
This course is an interdisciplinary and cross-cultural examination of central themes in the history of early Christianities beginning with the transformation of the Jesus Movement into a separate Christian religion and concluding with the divisions made permanent by the Fourth Crusade.

HIST 3351. Japan: The Age of the Samurai. 3 Hours.
Students in this course study medieval and early modern Japanese history. Beginning with the emergence of warrior bands, students examine how military men established regimes, managed vendettas, and mobilized resources. Topics to be analyzed include warrior ideology, samurai rule, and the dissolution of the samurai caste.

HIST 3355. Urban and Suburban History. 3 Hours.
This course examines the growth and development of cities and suburbs in the U.S., paying particular attention to public policy, race, class, ethnic enclaves, and connections between American and global cities. Special emphasis will be placed on major metropolitan areas, such as Houston, Texas. Research into the city and its surrounding suburbs and locales will be conducted. Credit 3 .

HIST 3357. World War I (1914-1918). 3 Hours.
In this course students examine World War I from its European origins to its emergence as a global conflict. The formation of political and military alliances, emerging role of the state, role of industrial economies in waging war, homefront cultures and societies, major land campaigns of the Eastern and Western Fronts, and war at sea are discussed. The Bolshevik Revolution in Russia, which emerged out of the war, and the complexity of the peacemaking process is also a topic of discussion.
Prerequisite: Junior Standing.

HIST 3358. Silk Roads to Atlantic World. 3 Hours.
This course is an interdisciplinary investigation of the contexts, impulses, and implications of long-distance interplay among cultures in both pre-modern and modern times. Students will apply scholarly models of cross-cultural interactions using three specific case studies: the ancient Silk Roads, the trans-Eurasian Mongol Empire, and the trans- Atlantic Columbian Exchange.

HIST 3359. Germany at War and Peace. 3 Hours.
In this course students examine the history of militarism and warfare in Germany, from the rise of the Prussian state in the 18th century through the present. The relationship between warfare and the development of German politics, society, and culture are discussed. Major historical figures include Frederick the Great, Clausewitz, Otto von Bismarck, and Adolf Hitler. How contemporary, pacifist German politics emerged out of two difficult centuries of warfare is examined.
Prerequisite: Junior Standing.

HIST 3361. The U. S. And The Vietnam War. 3 Hours.
The course will focus on the United States involvement in Southeast Asia from 1945 to 1975. In particular, it will deal with the issues of nationalism and communism in Southeast Asia, the first Indochina war between the French and Vietnamese, the United States military effort in Indochina from 1965 to 1975, and the postwar political, economic, and social problems in the region. The course will also deal with the impact of the Vietnam War on American culture and foreign policy.

HIST 3362. The Middle East, 500 - 1700. 3 Hours.
This course will study the political, social, economic, and cultural development of the Middle East from the eve of the rise of Islam through the seventeenth century. The course will address such general topics as the following: the Middle East before Islam; the Rise of Islam; the faith and practices of Islam; the Rightly-Guided Caliphs; Shiiah and Sunni Islam; the Umayyad and Abbasid Caliphates; the Crusades and Islam; Islam and the Steppe Empires; the rise and apogee of the Ottoman Empire; and Islam?s initial response to the encroachment of the west.

HIST 3363. Britain To 1714. 3 Hours.
This course traces the development of the British peoples from prehistoric times to the end of the Stuart dynasty. While English dominance is a theme, the course also covers the peoples of Wales, Scotland and Ireland.

HIST 3364. Modern Britain 1714-Present. 3 Hours.
A continuation of HIS363, emphasizing the effects of industrial change, the enmity of France in foreign affairs, Great Britain?s renewed expansion overseas following the American Revolution, movements favoring social and economic reform, and political trends to the present.

HIST 3365. Russian History. 3 Hours.
Explores the roots of Russia (Kiev, Christianity, the Mongol occupation, Ivan the Terrible, the Times of Troubles), then surveys Russian history from Peter the Great to the present.

HIST 3366. Modern European Military Hist. 3 Hours.
This course examines European military history and its links to political, social, and cultural changes from 1600 to the present day. While emphasis is placed on major wars in Europe, attention is also given to European military conflicts in the Middle East and North Africa, especially the wars of decolonization.

HIST 3367. Eur-Age Absoltsm/Rev:1648-1815. 3 Hours.
Europe in the Age of Absolutism and Revolution. A study of significant issues in European history from 1648 to 1815. The course focuses on developments in political theory, natural science and economics as well as the tensions in the old social order which helped instigate the French Revolution.

HIST 3368. European History 1815 1914. 3 Hours.
The history of the principal European powers from the Congress of Vienna to World War I.

HIST 3369. The World In The 20Th Century. 3 Hours.
A study of global politics and diplomacy since World War I.

HIST 3370. Ancient History. 3 Hours.
The history of the civilizations of the Ancient Near East, Greece, and Rome with special emphasis upon their contribution to the cultural heritage of the western world.

HIST 3371. Medieval History. 3 Hours.
A study of the political, economic, social, intellectual, and religious institutions and developments in Europe from the collapse of the Roman Empire in the fifth century to the Renaissance.

HIST 3372. Historiography. 3 Hours.
Special emphasis is devoted to a survey of historical interpretations and to the development of research skills.

HIST 3373. Topc In Hist Of Sci & Medicine. 3 Hours.
This course will examine selected topics in the history of science and medicine. Emphasis will be placed on the development of scientific knowledge across the centuries. Because the geographic regions, time frame, and topics will vary from semester to semester, with departmental approval, This course may be repeated for credit.

HIST 3374. US Religious History to 1865. 3 Hours.
Students examine the history of US religious ideas, practices, and traditions between European first contact and the Civil War. Content may include indigenous religions, colonialism, Puritanism, dissent, the constitutional laws on religious liberty, new religious movements, Catholicism, and the Civil War. Special attention will be given to diverse and competing religious expressions.

HIST 3375. US Religious History From 1865. 3 Hours.
Students examine the history of US religious ideas, practices, and traditions between the end of the Civil War and the present. Content may include the growth of secularism, immigration, modernism and fundamentalism, the religious right, and religion during the world wars and civil rights movement. Special attention will be given to diverse and competing religious expressions.

HIST 3376. Early America To 1783. 3 Hours.
An examination of early American history from the beginnings of European colonization through the American Revolution and the War for American Independence.

HIST 3377. America In Midpassge 1783-1877. 3 Hours.
The course examines United States history from 1783 to 1877 and studies the origins of the U.S. Constitution, the early republic and rise of the two party-system, the nature of Jeffersonian and Jacksonian democracy, the sectional crisis and the Civil War, and the era of Reconstruction.

HIST 3378. Emergence Mod Amerca 1877-1945. 3 Hours.
This course will examine United States history from 1877 to 1945 and will include discussions of the Industrial Revolution, the Populist and Progressive movements, World War I, the era of the 1920s, the Great Depression and New Deal, and World War II.

HIST 3379. Recent America, 1945 To Presnt. 3 Hours.
This course will examine United States history from the end of World War II to the present and will include discussions of the Cold War; the civil rights and environmental movements; the Vietnam War, the Gulf War, and the war on global terrorism; the public policy debates surrounding the role of the federal government in the modern economy; and the evolution of American popular culture.

HIST 3380. The American Civil War. 3 Hours.
This course examines the sectional conflicts of the 1850s, the Civil War and Reconstruction. The course focuses on the military, political, social and diplomatic history of the era.

HIST 3381. British Empire & Commonwealth. 3 Hours.
The study of the British Empire and Commonwealth to the present time. Special emphasis is given to the rise of colonial and dominion nationalism, the imperial conferences, and the unfolding of the British Commonwealth of Nations.

HIST 3382. Immigration Ethnicity Amer His. 3 Hours.
A study of ethnic group relations, nativism, and racism in the historical development of American civilization, with special emphasis on the patterns of assimilation and non-assimilation of particular ethnic groups.

HIST 3383. American Women's History. 3 Hours.
An examination of American women?s history, focusing on everyday concerns (including work, marriage, family, sexuality, reproduction, and education) and on the social forces which have aided or blocked change in women?s roles in American society. Particular attention is paid to differences in race, class, and ethnicity.

HIST 3384. Fam & Childhd in Atlantic Wrld. 3 Hours.
This course explores how encounters among Indians, Africans, and Europeans during the early modern period transformed the structure, relationships, and experiences of families and children. Special emphasis is given to primary historical research and the effect of cross-cultural developments on shaping notions of race, gender, and sexuality in the Atlantic World.

HIST 3385. American Diplomatic History. 3 Hours.
A study of selected topics in American Diplomatic History.

HIST 3386. Military & War In America. 3 Hours.
This course is an intensive study of the American military experience from the Colonial period to the present. The course focuses on the military, political and diplomatic history of the great conflicts of the United States.

HIST 3387. World War II. 3 Hours.
A comprehensive study of the inter-war and World War II era from 1919 - 1945, emphasizing the events leading to the war in Europe, the rise of Nazi Germany, the major battles and campaigns in the European theatre, and the aftermath of the war. The course also examines the rise of the Japanese Empire, the events leading to the outbreak of war in Asia and the Pacific, and the major battles and campaigns of the Pacific war through the defeat of Japan.

HIST 3388. Public History. 3 Hours.
This course will explore topics in the field of Public History, including architectural preservation and restoration, museum studies and oral history. The topics will vary from semester to semester, but each semester students will receive instruction on the techniques of analyzing oral sources, primary textual materials and historical artifacts of various types, including architectural dwellings, tools, and local and family records.

HIST 3389. Africa - Past & Present. 3 Hours.
An examination of the problems, potentials, and upheavals of Modern Africa. Emphasis is on such topics as the impact of the slave trade on African society, racial conflicts, apartheid, the emergence of African nationalism, the end of white colonial rule, and the difficulties of achieving economic and political stability in contemporary Africa.

HIST 3390. Conceptualizing History Edu. 3 Hours.
This capstone course will examine conceptualization techniques in Texas, U.S., and World History. The course is designed to enable History students to organize a vast amount of material into a logical framework that will help them to better understand the interactions of individuals, communities, nations, and cultures across time and place. Special emphasis will be placed on subject areas included in the Texas Examination for Educator Standards.

HIST 3391. Colonial Latin America. 3 Hours.
This course is designed to trace the conquest and development of the colonial institutions of Spain and Portugal in the Americas, including the Spanish borderlands as the center of Spanish colonial activity and power in the Americas.

HIST 3392. American Indian History. 3 Hours.
This course examines the history of Native Americans in the United States. Although the emphasis is historical, the course does include ethnographic material.

HIST 3393. African-American History. 3 Hours.
A comprehensive course in the African American experience which explores the various forces shaping race relations in the United States.

HIST 3394. America in the 1960s. 3 Hours.
This course will explore the decade of the 1960s in the United States, paying particular attention to the social, cultural, and political shifts that occurred during these years. Students will develop a nuanced understanding of this pivotal decade in American history and will be able to engage in contemporary debates about its multiple meanings.

HIST 3395. American Environmental History. 3 Hours.
This course focuses on how nature has affected the course of American history, particularly in regards to the role of natural resources, the growth of the economy, responses to environmental crises and challenges, and transformations in the environment resulting from centuries of use.

HIST 3396. The American South. 3 Hours.
This course examines the dynamics and expansive nature of the American South. Key topics include: examining the peoples and varied regions of the South, its economic and political development, literature, race and religion.

HIST 3397. Modern Mexico. 3 Hours.
This course examines the national history of Mexico from the era of independence (c.1810) to the present. It explores the challenges that the Mexican people faced after gaining independence, their resilience during years of political and economic change, and the rich culture that has emerged in the wake of those struggles. Attention is also given to the US-Mexican border as a site of complex cultural interaction.

HIST 3398. Texas And The Southwest. 3 Hours.
As a study of the Greater Southwest, This course examines Spanish expansion and the Spanish-French rivalry in the lower Mississippi region and Texas. Special emphasis is given to geographic factors and cultural developments.

HIST 3399. Special Topics in History. 3 Hours.
This course examines various specialized topics in history not normally covered in detail by other upper-level courses.

HIST 4399. History Senior Seminar. 3 Hours.
Students will explore and evaluate specific topics in historical research. They will also be required to write an extensive research paper on the topic using primary and secondary sources.
Prerequisite: Senior standing in history or departmental approval.

Honors (HONR)

HONR 3321. Honors Seminar in Fine Arts. 3 Hours.
This team-taught class is an investigation into the theories, meanings, purposes, and practical experience of the fine arts, including dance, music, the visual arts, and theater. Students will attend dance and music concerts, theater productions, and art exhibits. Spring semester only.
Prerequisite: None.

HONR 3322. Journeys. 3 Hours.
The Journeys seminar invites approximately ten of the most innovative and successful members of the Sam Houston State University community to give one lecture each. Each speaker has one class period to use however s/he feels is best. Chosen speakers generally detail the paths of their own lives while giving students advice on how to achieve successful and happy lives. Speakers are chosen from a variety of disciplines and backgrounds.
Prerequisite: Admission to the Honors College.

HONR 3331. Culture and Society. 3 Hours.
This course deals with contemporary social, economic, political, and international issues and provides important background information and perspectives on current debates and events. Course content varies.

HONR 3332. Honors Sem In The Humanities. 3 Hours.
This course is a team-taught, cross-disciplinary concentration on ideas, developments, and subject matter in the humanities.

HONR 3342. The Word. 3 Hours.
This seminar changes topics (or "words") every semester, and several faculty with interests and specialties relevant to the theme from various colleges and departments lead discussions from different points of view. Sample topics include "The End," "Connections," "Sustainability," and "Drugs." All words reflect timely topics and student interests.
Prerequisite: Admission to the Honors College.

HONR 3343. Film and Society. 3 Hours.
This seminar invites students to explore the relationship between film and society from a broad range of perspectives. Several faculty from various colleges and departments choose films and lead discussions. Topics vary.
Prerequisite: Admission to the Honors College.

HONR 3365. Decision Making. 3 Hours.
This course introduces students to the fundamentals of decision making and problem solving. Students will (1) learn fundamental principles, generalizations, or theories of decision making, (2) learn how to apply course material to improve thinking, problem solving, and decisions, (3) gain skills for working as a team in presenting a problem for decisions, (4) understand how to analyze and critically evaluate ideas, arguments, and points of view concerned with decisions.
Prerequisite: None.

HONR 3375. Honors Dialogues Seminar. 3 Hours.
The Dialogues Seminar is an interdisciplinary course which examines selected controversial or provocative topics from various academic and intellectual perspectives. The course is team taught, with faculty from various disciplines engaged with one another and with the studets in interactive discussions of the selected topic for the course.
Prerequisite: Membership in the Honors College.

HONR 4095. Independent Study. 1-4 Hours.
This independent study may be taken for any interdisciplinary topic or project for honors students. Variable credit (1-4).
Prerequisite: Admission to the Honors College.

HONR 4375. Special Topics For Honors. 3 Hours.
This course affords honors students the opportunity to do an honors thesis, a long-term research and writing project under the direct supervision of a faculty member. The course is open to honors students in all disciplines.

HONR 4398. Honors Thesis I. 3 Hours.
In this course, the student works under close faculty supervision on a sustained research project to produce a thesis prospectus.
Prerequisite: Admission to the Honors College.

HONR 4399. Honors Thesis II. 3 Hours.
In this course, the student works under close faculty supervision on a sustained research project to produce an honors thesis.
Prerequisite: Admission to the Honors College.

Horn (HORN)

HORN 1201. Ind Performances-Frnch Horn. 2 Hours.

HORN 3201. Ind Performances-Frnch Horn. 2 Hours.

HORN 3202. Applied Horn With Jr Recital. 2 Hours.

Industrial Education (INED)

INED 4300. History and Objectives of CTE. 3 Hours.
A study of the history and philosophy of Vocational Industrial Education.

INED 4310. Occup. Human Relations in CTE. 3 Hours.
This course is designed to prepare the student to develop interpersonal skills and a better understanding of working relationships with people.

INED 4363. Preparation Of Instructnal Mtr. 3 Hours.
This course is designed to prepare a student in the selection, development, organization, and effective use of instructional materials in Industrial Education classes. It involves the study of types, values, limitations and sources of instruction sheets and other teaching aids.

INED 4364. Teaching in Schools & Industry. 3 Hours.
A study of the objectives and the selection, organization and presentation of the subject matter of the various areas of Industrial Education including the organization of units of work, and demonstration teaching.
Prerequisite: Junior standing.

INED 4379. Occupatnl Analysis & Curr Dvlp. 3 Hours.
This course is designed to enable a student to analyze trades, occupational pursuits and jobs for divisions, operations and information in order to develop a curriculum compatible to his/her teaching field.

INED 4382. Work-Based Learning. 3 Hours.
This course is to prepare the Work-Based Learning teacher to implement and teach a Work-Based Learning co-operative education class. The content will cover methods of student selection, work station qualifications, training plans, state and federal laws, and integration of the school and industrial work experience.
Prerequisite: Junior standing.

INED 4391. Lab Mgt,Organization & Control. 3 Hours.
This course is designed to prepare students to successfully manage laboratory activities, organize their labs in accordance with contemporary concepts, and to control materials/supplies within their laboratories.
Prerequisite: Junior standing or consent of instructor.

Integrated Reading and Writing (INRW)

INRW 0014. Tutorial for Integ Read/Write. 1-3 Hours.
This is a reading and writing tutorial designed to integrate students' critical reading and academic writing skills. The goals of the course are to increase practice with SAE (Standard American English), reinforce reading strategies, and support students in the co-requisite ENGL 1301. Credit: 0.
Prerequisite: Score of 350-362 in writing and score of 342-350 for reading in the Texas Success Initiative Assessment Test.

INRW 0111. Tutorial for Integ Read/Write. 1 Hour.
This is a one-hour reading and writing tutorial designed to integrate students' critical reading and academic writing skills. The goals of the course are to increase practice with SAE (Standard American English), reinforce reading strategies, and support students in the co-requisite ENGL 1301. Credit: 0.
Prerequisite: Score of 360-362 in writing and score of 348-350 for reading in the Texas Success Initiative Assessment Test.

INRW 0112. Tutorial for Reading. 1 Hour.
This is a one-hour reading tutorial designed to support students' critical reading skills. The goals of the course are to reinforce reading strategies and assist students in co-requisite reading-intensive courses. Credit in this course will not be allowed to count toward graduation or computation of grade point average or classification of students by hours completed. (Course does not fulfill University degree requirements.) Corequisite: HIST 1301 or SOCI 2319 or other reading-intensive course.
Prerequisite: Scores falling into NCBO range on TSIA, as determined by state guidelines and university-established policy.

INRW 0301. Integrated Reading and Writing. 3 Hours.
The course focuses on applying critical reading skills for organizing, analyzing, and retaining material and developing written work appropriate to the audience, purpose, situation, and length of the assignment. The course fulfills Texas State Initiative (TSI) requirements for reading and/or writing.
Prerequisite: Students scoring 342-347 on the Reading portion of the TSI Assessment Test and/or 350-359 on the Writing portion of the TSI Assessment Test.

Integrated Science (ISCI)

ISCI 1436. Foundations of Science. 4 Hours.
The course focuses on the nature of science as a reliable method of acquiring knowledge about the natural world. Students will learn how to apply key scientific facts, concepts, laws and theories to distinguish science from non-science, bad science, and pseudoscience by analyzing a variety of claims and case studies. By employing an innovative, interdisciplinary approach to science education, this course is designed to increase science literacy and critical thinking skills for introductory-level students. This course is designed for non-science majors to help them meet their General Education science requirement. Students must enroll concurrently in the corresponding lab for this course.

Agricultural Sciences (AGRI)

AGRI 1131. Intro To Pro Leadership Skills. 1 Hour.
An exploration of the career options available to professionals in agricultural sciences, education, and business. Specific requirements for the various professions are discussed by a series of guest speakers. Course is intended for beginning students.

AGRI 1309. Computers in Agriculture. 3 Hours.
This course is designed to acquaint students with software applications useful to agriculture and how various technological advances are applied in modern agricultural enterprises.

AGRI 2396. Topics in Agriculture. 3 Hours.
This course will examine special topics/issues in agriculture at an introductory level. Topics may be offered in: Agriculture, Animal Science, Agricultural Business, Horticulture and Crop Science, and Agricultural Engineering Technology. This course may be repeated up to three times as topics and subject matter changes.

AGRI 4096. Independent Studies. 1-3 Hours.
Arranged professional and developmental learning experiences incorporating a practical application of agricultural skills and practices. To include internships, individual research and industry studies. Course may be repeated for credit, max 6.
Prerequisite: Sophomore standing.

AGRI 4100. Appld Agricultural Technology. 1 Hour.
Arranged developmental learning experiences incorporating an application of agricultural skills and practices in an emphasis area of the studentis choice. Individual study plans are devised by faculty to provide the student with broad-based knowledge.
Prerequisite: Sophomore standing.

AGRI 4120. Professional Career Skills. 1 Hour.
A review of current careers in agriculture with emphasis on professional and managerial opportunities. Includes preparation of resume, interview skills and other means of professional communication.
Prerequisite: Junior standing.

AGRI 4350. Agricultural Biosecurity. 3 Hours.
The purpose of this course is to study the potential spread and prevalence of contagious organisms, reproductive diseases and contaminants in the agriculture, food, fiber and natural resource industries. Concepts dealing with isolation, resistance, sanitation, containment, transportation, and food safety issues and potential economic impact to the agricultural industry and others are major topics.
Prerequisite: Junior standing.

AGRI 4364. International Agriculture. 3 Hours.
An overview of international trade issues and political and economic influences on world food and fiber production and distribution systems. When offered abroad, students will have the opportunity to visit agricultural production, processing, and transport facilities.
Prerequisite: Sophomore standing.

AGRI 4369. Special Topics In Agriculture. 3 Hours.
Individual study in specialized areas of Agricultural Science. To be directed and approved by the Agricultural Science advisor. This course is designed to be a multi-topic course. The student can take the course under various special topics being offered.
Prerequisite: Junior standing.

AGRI 4371. Agricultural Safety & Health. 3 Hours.
This course is designed to provide the student with a basic understanding of the hazards and necessary safety precautions associated with the food, fiber, natural resources and agricultural industry. Control strategies will be explored and prevention methods identified. Hazards examined include machinery, livestock, controlled spaces, pesticides, and other issues common to the food, fiber, natural resources and agricultural industry. Junior standing.
Prerequisite: AGRI 2302 or ITEC 1390 or ITEC 1361.

AGRI 4388. Prin Agr Ldrship Comm Develop. 3 Hours.
Involves the study of the characteristics of leadership theory, parliamentary procedure, personal development, and organizational structure.
Prerequisite: Junior standing or higher.

Kinesiology (KINE)

KINE 1110. Racquet Sports. 1 Hour.
Instruction is provided in skills, knowledge, and strategies in one or more of the racquet-related activities listed in the class schedule.

KINE 1111. Elementary Activities. 1 Hour.
This course provides an overview of the program of activities in elementary school physical education with emphasis on the understanding of movement, common problems and possible solutions.

KINE 1113. Basketball And Soccer. 1 Hour.
This course will offer skills, knowledge, and techniques presented at either the beginning or intermediate level in each of these activities. Enrollment limited to Kinesiology majors and minors.

KINE 1114. Rhythmic Activities & Dance. 1 Hour.
This course introduces kinesiology majors to the skills, concepts and knowledge necessary for teaching development and performance sequences in various rhythmic activities (creative rhythms, routines with small hand apparatus, and novelty dances) and dance forms (folk, social, square, contra, and line).

KINE 1115. Track & Field-Gymnastics. 1 Hour.
The student will gain proficiency in fundamental skills in gymnastics and track and field events, as well as an understanding of basic terminology associated with judging and spotting. Enrollment limited to Kinesiology majors and minors.

KINE 1116. Student-Athlete Affairs. 1 Hour.
This course is based upon the National Collegiate Athletic Association CHAMPS/Life Skills Program and is designed to assist the student-athlete in developing skills in the areas of academics, personal growth, career choice, and commitment to service. Enrollment is limited to members of athletic teams. Substitution of this class for the University?s activity requirement is not permitted. No more than four hours of KINE 1116 can be counted toward the degree. Approval for enrollment must be obtained from the student?s coach prior to registration.

KINE 1117. Lifetime & Individual Sports. 1 Hour.
Each class will have skills, knowledge and techniques presented at either the beginning or intermediate level in one or more of the lifetime and individual sports.

KINE 1120. Martial Arts. 1 Hour.
This course will introduce the student to basic martial arts concepts, principles, terminology, safe practices, and applied execution of skills and strategies. An emphasis will be placed on teaching the student basic self-defense techniques and their application in a variety of situations. The student will improve their general physical fitness and skill performance.

KINE 1331. Foundations Of Kinesiology. 3 Hours.
This course serves as a base for all kinesiology courses. Units will include historical development, philosophical implications, physical fitness, scientific bases of movement, and educational values of kinesiology and career path options.

KINE 2110. Scuba/Diving. 1 Hour.
This course will be offered for all levels of swimming (beginning through advanced), diving, synchronized swimming, or scuba diving. For advanced life saving and water safety instructors see KIN 232.

KINE 2111. Golf & Recreational Activities. 1 Hour.
This course presents rules, knowledge and skills in golf, archery and another leisure time activity selected on a rotational basis. Half a semester is devoted to golf, with equal time allotted to archery and the other named activity. Enrollment limited to Kinesiology majors and minors.

KINE 2112. Archery. 1 Hour.
This course will include skills, knowledge and techniques of archery at the beginning level.

KINE 2113. Softball And Volleyball. 1 Hour.
The student will gain skills, knowledge, and techniques of softball and volleyball at the beginning level. Enrollment limited to Kinesiology majors and minors.

KINE 2114. Wgt Train & Phy Conditioning. 1 Hour.
Experiences in this course will include skills, knowledge and techniques of weight training and physical conditioning at the beginning level.

KINE 2115. Lifetime Health and Wellness. 1 Hour.
Students will gain an understanding of physical conditioning and wellness pertaining to the five components of health-related fitness. Students will develop an understanding of lifestyle related diseases and behavior modification techniques. In addition, there will be opportunities to participate in a variety of movement experiences related to fitness.

KINE 2119. Kinesiology Activities. 1 Hour.
Activities can include special or unique areas as instructors are available. This will include those activities which are not offered on a regular basis including aerobic dance, aquatic exercise, etc.

KINE 2330. First Aid & CPR - Am Red Cross. 3 Hours.
A course for those who wish to acquire a knowledge of Red Cross emergency and preventive measures. Successful completion leads to CPR and first aid certification. Students may become instructors through additional American Red Cross training. (Also listed as HLTH 2330.)

KINE 2333. Honors Lifetime Health and Wellness. 3 Hours.
This course will substitute for HON 215 for students in the Honors Program. Specific topics include flexibility, muscular strength, muscular endurance, nutrition, weight control and theories of obesity, ergogenic aids, date rape, sexually transmitted diseases, Title IX, sexual harassment, message, care and prevention of athletic injuries and aging. Other content will be presented as time permits. Students will be required to complete a formal research project which will involve data collection and analysis.

KINE 2365. Coachng-Track,Basebll,Softball. 3 Hours.
This course includes a study of the skills and techniques used in coaching baseball/softball and track and field in the schools. The skills and techniques are demonstrated and performed on the baseball/softball field and track.

KINE 2366. Coaching Of Football. 3 Hours.
The latest techniques of offensive and defensive football are stressed with emphasis on the problems that will confront high school coaches. Some techniques are demonstrated and performed on the football field.

KINE 2367. Coaching Of Basketball. 3 Hours.
A study is made of the fundamental preparation, operation, expertise and management necessary to coach and conduct a basketball program.

KINE 2368. Coaching Of Volleyball. 3 Hours.
A study is made of the individual fundamentals, strategy, scouting, practice preparation and administrative duties associated with coaching a volleyball program.

KINE 2388. Officiating Sports. 3 Hours.
This course includes a study of the rules, interpretations, and the mechanics of officiating. The course is designed to develop the skills and knowledge required in the officiating of football, basketball, baseball, soccer, track and field, and other interscholastic sports.

KINE 3117. Competency in Motor Skills. 1 Hour.
This basic skills course is designed to equip prospective physical education teachers with the motor skill competencies neccessary to teach physical education in EC-12 schools. Prospective physical education teachers will be assessed on skills in tennis, volleyball, soccer, and other sports.

KINE 3320. Foundations of Sport Coaching. 3 Hours.
Students in this course focus on sport science principles associated with the coaching profession. Course material adheres to the objectives created by the National Standards for Athletic Coaches.

KINE 3362. Functional Kinesiology. 3 Hours.
A study of human motion in two broad areas: the neurological and mechanical aspects of human movement, as well as muscle structure and functions. Application of these two areas to motor skills analysis is emphasized.
Prerequisite: BIOL 2401.

KINE 3363. Assessment In Kinesiology. 3 Hours.
This course presents information on the construction and administration of tests evaluating fitness and motor skills used in sports. Issues in grading and evaluation are also addressed. Previously KIN 321.
Prerequisite: Junior standing.

KINE 3364. Motor Learning. 3 Hours.
This course is designed for students who are preparing for a variety of professions in which the teaching, training, or rehabilitation of motor skills is involved. The goal of this course is to provide a theory-based foundation about the learning of motor skills to facilitate implementation of appropriate strategies and techniques for instructional, training, and rehabilitation applications. Previously KIN 322.
Prerequisite: Junior standing.

KINE 3365. Sport Law. 3 Hours.
Students in this course develop a comprehensive and systematic overview of fundamental legal issues in sport. Topics in this course are intended to introduce students to the legal issues that are most critical to the management of sport including liability, gender equity, risk management, tort law, labor law, and collective bargaining.

KINE 3367. Lifespan Motor Development. 3 Hours.
This course explores the theories of motor development and the applications of these theories to identify continuous processes of motor behavior across the lifespan. The factors mediating human growth and development will be applied. The course focuses on the relationships among growth, gender, maturation, motor performance and the person's context. The critical developmental considerations, with respect to planning and directing movement experiences for individuals across the lifespan, will be emphasized in the course.
Prerequisite: Junior standing.

KINE 3368. Skill Themes & Mvmnt Concepts. 3 Hours.
This course is designed to help the future teacher of physical education for elementary grade children, understand the "skill theme approach" to children's physical education curriculum, based on skill themes, movements concept and generic levels of skill proficiency.

KINE 3372. Team& Indv/Dual Sprt Skll Anal. 3 Hours.
This course will introduce the instructional process of analyzing and sequencing skill components and performance techniques found within team and individual/dual sports. The course is designed to allow the student to engage in individual and cooperative teaching experiences that utilize multiple instructional strategies. The student will investigate the process of a task analysis and other skill sequencing experiences. Aspects of lesson progression and construction will be incorporated throughout the course while maintaining a focus on motor skill acquisition.

KINE 3373. Physiology Of Exercise. 3 Hours.
This course is designed to develop an understanding of the manner in which the body reacts to the exacting requirements of activity and exercise.
Prerequisite: Junior standing.

KINE 3375. Teaching Seconday Physical Edu. 3 Hours.
This course examines the designing of physical education programs, teaching of physical education programs, analysis of student performance in a physical education program, and implementation of a physical education program at the secondary level. Opportunities are provided to work with physical education students in the secondary setting.
Prerequisite: Junior standing.

KINE 3378. Adm of Kinesiology & Sport. 3 Hours.
The purpose of this course will be to examine management theory and practice related to the sport industry. In addition, a variety of specializations associated with the field of sport management will be examined to help the student garner a better understanding of available career opportunities in this sector of business. The application of concepts to scholastic programs will also be discussed.

KINE 3388. Sports In Contemp Society. 3 Hours.
A study is made of sport and its impact upon society.

KINE 3389. Gender and Sport. 3 Hours.
This course offers an introduction to current scholarship and debates surrounding issues of gender in sport. The purpose of this course is to analyze the complex interactions of gender, race, sexuality, and class within sport. A critical perspective will be used to examine sport as a significant social institution and to explore its relationship to the cultural construction and interpretation of gender.

KINE 4117. Practicum. 1 Hour.
A course in which students serve as interns in a laboratory situation where emphasis is placed upon teaching skills. This provides a qualified student with an opportunity to gain teaching experience.
Prerequisite: Permission of department chair.

KINE 4314. Advanced Strength Training. 3 Hours.
Students in this course focus on the fundamentals of strength and conditioning and are prepared for a career as a certified strength and conditioning specialist. This class prepares students to take the national strength and conditioning certification exam.
Prerequisite: KINE 2114 and KINE 3362.

KINE 4335. Sport and Exercise Psychology. 3 Hours.
This course deals with understanding of the psychological make-up of the athlete. It explores traditional myths, syndromes and stumbling blocks facing the modern day athlete and how these may be overcome. The course will focus on the dynamics of the coach/athlete relationship.

KINE 4362. Biomechanical Analysis. 3 Hours.
This course focuses on the quantitative biomechanical analysis of human movement and its relationship to activity, performance, and injury causation and prevention. Students will also explore research methods and investigations in biomechanics.
Prerequisite: KINE 3362 with a minimum grade of C.

KINE 4363. Elementary Physical Education. 3 Hours.
This course is concerned with a study of fine and gross-motor activities and developmental progressions of pre-school children. Opportunities are given for field-based experiences in teaching children motor skills.
Prerequisite: KINE 3368 with a minimum grade of C.

KINE 4364. Fitness Education. 3 Hours.
Students in this course are introduced to the foundations and components of health-related fitness, appropriate curriculum for children and adolescence (Pre-K through 12) programming, effective teaching principles, and assessment of physical activity and fitness. This course prepares students to sit for the Physical Best Health-Fitness Specialist Certification.

KINE 4369. Adapted Physical Activity. 3 Hours.
This course is designed to provide an introduction to adapted physical activity including sports and leisure for persons with disabilities across school, community, and clinical based programs. This course will provide information and knowledge on how to teach movement skills to persons with disabilities in various physical activity settings. Opportunities are provided to work with individuals with disabilities on-and off-campus.

KINE 4373. Adv Tpcs In Physlgy Of Exercis. 3 Hours.
This course bridges the gap between basic undergraduate and graduate physiology of exercise. This course draws upon current research to build upon the basic principles of exercise physiology to develop a more advanced understanding of how exercise affects the body.

KINE 4375. Kinesiology Research Methods. 3 Hours.
Students in this course focus on basic, clinical, and applied research in kinesiology settings. Particular emphasis is given to understanding the body of work on a topic, experimental design, and the research process. Students participate in a research project related to kinesiology. Credit 3
Prerequisite: KINE 3362, KINE 3364, and KINE 3373.

KINE 4377. Prin Exer Testing/Prescription. 3 Hours.
This course is designed to provide the student with the theoretical background and practical experience necessary for the safe and scientific evaluation of physical fitness, particularly as it relates to health and disease and the development of programs for remediation, maintenance and enhancement of motor and health-related qualities.
Prerequisite: KINE 3362 and KINE 3373 with a minimum grade of C.

KINE 4392. Problems In Kinesiology. 3 Hours.
A directed individual study of an approved problem related to the field of kinesiology.
Prerequisite: 9 advanced hours in Kinesiology and permission of the department chair.

KINE 4393. Prncples& Prac Of Adlt Fit Mgt. 3 Hours.
This course is designed to provide the student with the theoretical background and practical experience necessary for a successful internship experience.
Prerequisite: Senior standing.

KINE 4394. Internship. 3 Hours.
This course provides the study with opportunities to demonstrate competencies developed in previous courses by working in an agency under the supervision of a qualified practitioner.
Prerequisite: KINE 4393, KINE 4377 with a minimum grade of C and senior standing.

Library Science for Sch Librns (LSSL)

LSSL 1330. Information Access Strategies. 3 Hours.

LSSL 2363. Lit for Children and Teens. 3 Hours.
Designed to acquaint students with the selection, critical analysis, and historical development of literature for children and young adults. Emphasis will be placed on selecting materials which meet the needs and interest of children and young adults, identifying techniques and strategies which will motivate ALL children and young adults to read and respond to literature, and developing critical abilities for evaluating literature and related materials for children and young adults. A strong multicultural element will also be a part of this course.
Prerequisite: Must have sophomore standing or above.

LSSL 3361. Lit & Related Mat For Children. 3 Hours.
The historical development, critical analysis, and selection of materials for children. Identification and use of folklore, poetry, imaginative, realistic and informational literature. Stresses developmental needs of children including those of various ethnic groups. Emphasis on motivational techniques.
Prerequisite: Must have junior standing or above.

LSSL 3362. Lit & Related Mat For Yng Adlt. 3 Hours.
Selection of literature approved selection tools, the preparation of bibliographies, oral and written reports, book talks, critical evaluations annotations, and the sharing of reading experiences. Stresses developmental needs of young adults. Emphasis on motivational techniques.
Prerequisite: Must have junior standing or above.

LSSL 4010. Library Science Workshop. 1-3 Hours.
This course deals with current topics in school libraries. One semester hour is earned and the course may be repeated for a maximum of three hours. NOTE: Maximum of three hours workshop coursework allowed in a student?s program.

LSSL 4375. Dir Ind Study In Library Sci. 3 Hours.
Arranged professional and developmental learning experiences incorporating a practical application of Library Science skills and practices. To include internships, individual research and studies.

Management (MGMT)

MGMT 3310. Principles Of Management. 3 Hours.
This course is concerned with the principles and methods used in managing and operating organizations, both domestically and abroad. Course coverage includes analysis of the organization's environment and the managerial functions of planning, organizing, leading, motivating, and controlling.
Prerequisite: 50 completed hours.

MGMT 3320. Organizational Behavior. 3 Hours.
Students in this course will learn about individual and group behavior in organizations and how it affects the achievement of organizational objectives.
Prerequisite: MGMT 3310 (can be taken concurrently).

MGMT 3325. New Product Commercialization. 3 Hours.
This course addresses the issues of formulation, financing and operations of bringing new products to market. The course will include a group term project designed to teach the students the process of commercializing new products. Topics will include environmental screening, developing and testing the concept of the product, funding, patents and copyrights.
Prerequisite: MGMT 3310.

MGMT 3327. Mgt of Innovation & Technology. 3 Hours.
This course addresses issues concerning the management of innovation and technology such as developing creative potential in individual and organizations and the management of creative employee. Topics will include the importance of innovation and technology to business and society, forecasting for innovation and technology, the value of creation, types of innovation, and the role technology plays in innovation.
Prerequisite: MGMT 3310.

MGMT 3330. Human Resource Management. 3 Hours.
In this course, students examine core human resource management practices, including job analysis, recruitment and selection, training and development, performance management, compensation and benefits, and employee and labor relations as well as explore legal requirements affecting human resource management decisions..
Prerequisite: MGMT 3310.

MGMT 3348. Small Business Management. 3 Hours.
A comprehensive study of all areas of operations and management of the small business enterprise. Topics covered include: ownership form, site analysis, planning, organizing, staffing, financial control, inventory control, and marketing tactics.
Prerequisite: MGMT 3310 and MKTG 3310.

MGMT 3350. Services Marketing Management. 3 Hours.
This course examines the characteristics of the service domain. The planning, organization, production, and marketing of quality services will be the focus of the course.
Prerequisite: MGMT 3310 and MKTG 3310.

MGMT 3370. Operations Management. 3 Hours.
This course addresses issues pertaining to the operations function within manufacturing and service firms competing in a global environment. The relationship of operations to other organizational functions will be investigated. Topics include decision making, project management, forecasting, capacity planning, facilities design and location, process and product design, inventory management, and quality assurance.
Prerequisite: MGMT 3310 and BANA 3363 (concurrent enrollment allowed).

MGMT 4080. Independent Study. 1-3 Hours.
The credit in this course varies according to the work performed. The student may pursue special studies for which a special course is not organized. Variable Credit (1-3).
Prerequisite: 30 hours in Business and Economics and consent of the instructor.

MGMT 4085. Special Topic. 1-3 Hours.
This course of faculty-led study is designed to provide undergraduate students exposure to new Management topics and concepts in a course setting. Variable credit (1-3).

MGMT 4320. Intl Field Studies in Mgmt. 3 Hours.
Directed studies of organizational behavior, managerial functions, entrepreneurship, and small business in a study abroad program.
Prerequisite: Permission of Instructor or Department Chair.

MGMT 4325. Family Business Management. 3 Hours.
Students are provided an overview of family business, including an exploration of factors contributing to economic success, family harmony, and business continuity, and they explore the challenges and opportunities facing individuals and families involved in family business relationships. Some of the specific topics include the family system, culture, entrepreneurial influences, conflict and negotiation, career planning, ethics, governance, succession and strategic planning, professional support relationships, and survival skills as a son or daughter in a family business.
Prerequisite: Junior Standing.

MGMT 4327. Corporate Entrepreneurship. 3 Hours.
Students explore the concepts, key factors, and practices of entrepreneurial activity as a process inside corporations and examines ways entrepreneurial transformation can be achieved in larger organizations. Course topics emphasized include internal ventures and external collaborative approaches that include corporate venture capital investments, licensing, different types of alliances, and formal joint ventures.
Prerequisite: Junior Standing.

MGMT 4330. Compensation. 3 Hours.
In this course, students will examine the components of a compensation system, which include internal alignment, external competitiveness, recognizing employee contributions, and the management of the system, to promote effective pay determination decisions.
Prerequisite: MGMT 3330.

MGMT 4335. Mgt & Labor Relations. 3 Hours.
A study of the legal perimeter of management labor relations, the collective bargaining process, and problems of union contract compliance.
Prerequisite: MGMT 3330.

MGMT 4340. Internat'l Managmnt & Marketng. 3 Hours.
A study of the decisions that managers must make in the planning, organizing, and operating of companies in cross-cultural environments. Available to Business Majors only.
Prerequisite: MGMT 3310, MKTG 3310.

MGMT 4345. Social Respon Of Management. 3 Hours.
A study of the role business plays in our society and the obligations and responsibility it has to society. The course examines the ethical, environmental, and cultural implications of industrial/technological societies and their history.
Prerequisite: MGMT 3310.

MGMT 4350. Project Management. 3 Hours.
This course focuses on the planning, implementation, and control of projects. Coverage will include the project management knowledge areas and lifecycle of projects. The appropriate intellectual foundation will be established so that students can work, individually and in teams to solve project related problems.
Prerequisite: MGMT 3310 and BANA 2372.

MGMT 4355. Human Resource Development. 3 Hours.
In this course, students will be provided an overview and foundation of the human resource training and development (HRD) profession, they will identify current issues for HRD practitioners and researchers as well as highlight current work place changes and their impact on human resource training and development.
Prerequisite: MGMT 3330.

MGMT 4360. Supply Chain Management. 3 Hours.
This course is a study of how different organizations can effectively coordinate to form the supply chain of a product or a service in order to deliver it to end consumers at the lowest cost possible while optimizing customer service levels. Students will learn the managerial principles and methods used to efficiently perform the sourcing, production, and distribution of products and services in a global environment. Topics include purchasing, supplier selection/development, materials handling, demand planning, risk management, transportation, warehousing, inventory management, and channel relationships.
Prerequisite: MGMT 3370 (co-requisite), MKTG 3310.

MGMT 4365. Service Operations Management. 3 Hours.
This course addresses issues pertaining to the operations function within service organizations competing in a global environment. The relationship of operations to other organizational functions will be investigated. Topics include understanding services, new service development, service quality, process improvement, location decisions, capacity planning, waiting lines, forecasting, inventory management, and service supply relationships.
Prerequisite: BANA 3363 and MGMT 3310.

MGMT 4375. Quality Management. 3 Hours.
A study of current topics in quality assurance management to include total quality control, statistical quality control, statistical process control, quality circles, and Deming's methods. Emphasis will be placed on the systems approach to quality assurance.
Prerequisite: MGMT 3310 and BANA 3363.

MGMT 4389. Internship. 3 Hours.
This course is course designed to provide the student with an opportunity to apply academic skills in a practical work environment. (See Internship Coordinator prior to enrolling.) All internships must be approved in advance in order to receive credit.
Prerequisite: Department approval and minimum overall and COBA GPA of 2.5.

MGMT 4390. Strategic Management & Policy. 3 Hours.
The evaluation of external environmental factors and internal organizational strengths and weaknesses for the purpose of formulating organization strategies.
Prerequisite: Senior standing, MGMT 3310, MKTG 3310 and FINC 3320.

Management Information Systems (MGIS)

MGIS 1301. Intro To Information Systems. 3 Hours.
In this course, students will be provided with the knowledge and skills necessary to succeed in today's computing society. Students will make use of hardware and software to efficiently and effectively solve problems and make better decisions.

MGIS 2320. Business System Implementation. 3 Hours.
An introduction to the implementation of common business applications using current visual application development platforms. Basic structured and object-oriented computer programming techniques are covered in the context of the creation of business-oriented systems.
Prerequisite: CSTE 1330 or BUAD 1305 and MATH 1324 or 1314 or MATH 1420.

MGIS 3310. Principles of MIS. 3 Hours.
An introduction to the management and use of information systems in organizations. Material presented is selected to increase the student's literacy in this rapidly changing field, including commonly used acronyms and emerging technologies. Organizational applications of information systems will be discussed for the functional areas of the firm.
Prerequisite: BUAD 1305 or MGIS 1301 or CSTE 1330 and 50 hours.

MGIS 3320. E-Commerce Implementation. 3 Hours.
An introduction to the implementation of common business applications for e-commerce using Internet related technologies. Hypertext Markup Language (HTML), Cascading Style Sheets (CSS), scripting language(s), and other current technologies will be covered in the context of e-commerce.
Prerequisite: 50 credit hours.

MGIS 3330. Business Database Management. 3 Hours.
Introduction to databases. Design and implementation principles, including entity-relationship modeling and normalization are studied and applied in order to create an organizational database. Students will become better computer users, who are more knowledgeable about the uses of databases in solving business problems, and learning a new way to think about business and its information needs.
Prerequisite: MGIS 3310.

MGIS 4080. Independent Study. 1-3 Hours.
The student may pursue studies for which a special course is not organized. The credit in this course varies according to the work performed. Variable Credit (1-3).

MGIS 4085. Special Topic. 1-3 Hours.
A study of emerging information technologies. Class participants will learn about the technical fundamentals and business applications associated with information technologies. Variable credit (1-3).
Prerequisite: MGIS 3310.

MGIS 4330. Business Database Mgt II. 3 Hours.
This course provides knowledge and skills for database design, development, and implementation in a multi-user business environment using a database management system (DBMS). Structured Query Language (SQL), a database procedural language, and other current technologies will be covered in the context of DBMS.
Prerequisite: MGIS 3330.

MGIS 4340. Systems Analysis & Design. 3 Hours.
In this course, students will acquire knowledge and skills for analyzing an organization's information needs and designing, evaluating, and implementing computer-based information systems using a structured approach. Special attention is given to understanding the needs of an organization and translating those needs into a solution recommendation following project management best practices and a structured methodology.
Prerequisite: MGIS 3310.

MGIS 4350. Business Network Management. 3 Hours.
In this course, students will learn the current and emerging telecommunications services and networking technologies with emphasis on their strengths, limitations, and business applications. They will also investigate aspects of installing and managing networks within business organizations. Covered topics will include commonly used network media, operating systems, LAN and WAN technologies, inter-networking approaches, and media.
Prerequisite: MGIS 3310.

MGIS 4360. Design & Implementation Of Erp. 3 Hours.
This course is the study of the types of issues that managers will need to consider in implementing cross-functional integrated systems. Students will learn the general nature of enterprise computing, re-engineering principles, and the technical foundations of client/server systems and enterprise information architectures. Topics include the tools and methodology, modules, processes, industry initiatives, and different types of enterprise information systems, primarily SAP ERP.
Prerequisite: MGIS 3310.

MGIS 4389. Internship. 3 Hours.
This course is course designed to provide the student with an opportunity to apply academic skills in a practical work environment. (See Internship Coordinator prior to enrolling.) All internships must be approved in advance in order to receive credit.
Prerequisite: Department approval and minimum overall and COBA GPA of 2.5.

Marketing (MKTG)

MKTG 3310. Principles Of Marketing. 3 Hours.
Students are provided general knowledge on the marketing of goods, services, and ideas. They will focus on key marketing concepts and the role of marketing within organizations. Students will learn how marketers deliver value in satisfying customer needs and wants in a dynamic global environment. Students will understand the elements of the marketing mix, market segmentation and targeting, marketing strategies, consumer behavior, marketing research, supply chain management, branding and product development, pricing strategies, professional selling, market planning, and promotion.
Prerequisite: Junior standing.

MKTG 3320. Consumer Behavior. 3 Hours.
A study of consumer decision-making processes in marketing and the factors that influence these processes.
Prerequisite: MKTG 3310.

MKTG 3328. Professional Selling. 3 Hours.
In this course, students will learn the principles of trust-based relationship selling used by businesses offering products or services to other businesses. Included are sales strategies and techniques to build trust, determine customers' needs, address their concerns, and close sales.
Prerequisite: MKTG 3310.

MKTG 3335. Retailing. 3 Hours.
This course includes the evolution of retailing, the scope of retailing, store location, store layout, organization, the customer, buying markets, receiving and marketing merchandise, mark-up, stock control, merchandise plan, fashions, retail credit, accounting, insurance, and sales promotion.
Prerequisite: MKTG 3310.

MKTG 3350. Services Marketing Management. 3 Hours.
This course examines the characteristics of the service domain. The planning, organization, production, and marketing of quality services will be the focus of the course.
Prerequisite: MGMT 3310 and MKTG 3310.

MKTG 3360. Supply Chain Management. 3 Hours.
A study of the marketing channels of distribution and the management of the integrated supply chain for products and services. The course addresses both upstream (suppliers) and downstream (channels of distribution) organizational members. Topics include purchasing, supplier selection/development, inter-organizational information systems, risk management, physical distribution, logistics, warehousing, channel relationships, and inventory management.
Prerequisite: MGMT 3310, MKTG 3310 and BANA 2372.

MKTG 3370. Mkt Comm Promotional Strategy. 3 Hours.
A study of contemporary issues in marketing communications. An examination of how the elements of the promotional mix, with emphasis on advertising, are used to develop effective marketing strategies.
Prerequisite: MKTG 3310.

MKTG 4080. Independent Study. 1-3 Hours.
The student may pursue special studies for which a special course is not organized. The credit in this course varies according to the work performed. Variable Credit (1-3).
Prerequisite: 30 hours in Business and Economics and consent of the instructor.

MKTG 4085. Special Topic. 1-3 Hours.
This course of faculty-led study is designed to provide undergraduate students exposure to new Marketing topics and concepts in a course setting. Variable credit (1-3).

MKTG 4330. Sales Management. 3 Hours.
A study of the selling process and the principles involved in the managing of the selling function. Provides an overview of the field of sales management and the role of the sales manager.
Prerequisite: MKTG 3328.

MKTG 4340. Internat'l Managmnt & Marketng. 3 Hours.
Surveys the economic, cultural and political foundations of international marketing systems, the foreign consumer, product policies, and distributional structures as well as the promotional and marketing research phases of foreign operations.
Prerequisite: Available to business majors only.

MKTG 4350. Marketing Research. 3 Hours.
The study of methods of collecting and analyzing information to be used in determining marketing strategy and making marketing decisions. Available to business majors only.
Prerequisite: MKTG 3310, BANA 3363.

MKTG 4389. Internship. 3 Hours.
This course is course designed to provide the student with an opportunity to apply academic skills in a practical work environment. (See Internship Coordinator prior to enrolling.) All internships must be approved in advance in order to receive credit.
Prerequisite: Department approval and minimum overall and COBA GPA of 2.5.

MKTG 4390. Strategic Marketing Management. 3 Hours.
In this course, students will learn the application of managerial principles in the development and execution of marketing strategy.
Prerequisite: MGMT 3310 & MKTG 3310.

Mass Communication (MCOM)

MCOM 1130. Media Literacy. 1 Hour.
This course requires students to critically examine and analyze media found in the world around them. Through in-class discussions, interactive media demonstrations and other experiences, this course helps students make sense of and control their media environments, as well as develop a critical approach to understanding and creating media.
Prerequisite: None.

MCOM 1300. Mass Communication. 3 Hours.

MCOM 1330. Analysis of Electronic Culture. 3 Hours.
This course will survey the history and theory of mass media in American society with an emphasis on issues in broadcast television, cable television, and print journalism. Topics addressed include the impact of the printing press; evolution of print media, telegraph, film camera, and wireless technologies; structure of contemporary media industries; influence of advertisers, regulatory agencies, and ratings services; production, distribution, and syndication systems; social influence and personal use of mass media content.

MCOM 1332. Writing For Mass Media. 3 Hours.
Designed to introduce writing for media across a wide spectrum of disciplines, this course will provide hands-on practice in basic writing skills for news, broadcast, the web, and public relations. Emphasis is placed on the enhancement of language and grammar skills.
Prerequisite: C in ENGL 1301 or equivalent.

MCOM 1371. Audio Production & Performance. 3 Hours.
This course surveys the mechanics of audio production and the operation of studio equipment. Students study and practice the use of microphone techniques, music, sound effects, and performance. They are introduced to digital audio production and appropriate audio software. Lecture and laboratory projects acquaint students with audio production requirements and responsibilities. Students receive practical hands-on experience with attention to mixing, recording, and editing. Students are expected to produce original content for broadcast on KSHU-FM.

MCOM 2362. News Reporting. 3 Hours.
This course covers theory and practice in writing specialized stories for mass media outlets, including news assignments in public safety, legal issues, government, education, health care, and politics. Emphasis is placed on covering current events.
Prerequisite: MCOM 1332, MCOM 1371.

MCOM 2366. Film Appreciation. 3 Hours.
This course uses the film medium to integrate cinematic history and criticism. Production elements such as lightning, sound and character development, as well as genres, themes and narrative pattern will be analyzed. Emphasis is placed on writing critically about the film.

MCOM 2371. TV & Film Production. 3 Hours.
This course introduces students to the basics of visual image production, focusing on graphic design, creative visualization, video editing, lighting, on-camera performance, and studio producing/directing. Students are expected to produce original content for broadcast on Cable Channel 7.
Prerequisite: MCOM 1332, MCOM 1371.

MCOM 2381. Visual Communication for Media. 3 Hours.
This course is designed to provide skills needed for visual production, developing skills in graphic design for visual imaging, creative visualization, video editing, lighting and studio production and directing. Students may not receive credit for both MCOM 2381 and MCOM 2371.
Prerequisite: Public Relations/Advertising majors only.

MCOM 2382. Design for PR & Advertising. 3 Hours.
This course introduces students to the principles of design applicable to publications created using desktop publishing software and computer technology. Special attention is given to design principles, typography, layout, and production techniques.

MCOM 3026. Media Practicum. 1-4 Hours.
Advanced instruction in practice and projects. Students perform assigned work with co-curricular activities (KSHU-FM, Cable Channel 7, The Houstonian, student news, and Priority One PR) in a laboratory environment. Variable Credit (1-3).
Prerequisite: Faculty Approval.

MCOM 3351. Moving Image Aesthetics. 3 Hours.
This course is an in-depth look into pre-production process as it directly pertains to storyboard creation, character development and design, pre-visualization techniques and principles of concept design.
Prerequisite: MCOM 1332, MCOM 1371, MCOM 2371.

MCOM 3352. Cinematography. 3 Hours.
This course is designed to study emotional and visual qualities of light, and the application of varying strategies in lighting for characters, film composition, lenses, filtration, and manipulation of images in mood creation, and practical techniques, product and narrative style of lightning. Students will utilize their critical thinking skills in producing various original images.
Prerequisite: MCOM 1332, MCOM 1371, MCOM 2371.

MCOM 3353. Advanced Editing for Film & TV. 3 Hours.
This course is a continuation of film editing with concentration on editing applications such as Avid, After Effects, Apple Motion, Soundtrack, DVD Studio, LiveType, and techniques of fine-tuning.
Prerequisite: MCOM 1332, MCOM 1371, MCOM 2371.

MCOM 3354. Film History I. 3 Hours.
Students in this course trace the history of film as a mass medium, art form, and industry from 1895-1945. Film's 19th century origins in photographic technologies and popular theater situate understanding of its emergence as a new medium; it progresses to cover the global film history in the silent era, the transition to sound, and the golden age of sound cinema. Specific film concepts, critical historical contexts, and canonical works are analyzed in a discursive setting.
Prerequisite: MCOM 2366 and 6 additional MCOM hours.

MCOM 3355. Film History II. 3 Hours.
Students in this course trace the history of film as a mass media, art form, and industry from 1945 to the present day. World War II and the advent of electronic media fundamentally changed the societal and technological nature of cinema. Students analyze the global film history in the postwar era and the age of new and emerging media; they also explore specific film concepts, historical contexts and canonical works in a discursive setting.
Prerequisite: MCOM 2366 and 6 additional MCOM hours.

MCOM 3356. Select Film Genre. 3 Hours.
Students in this course examine the history, nature, and major works of a selected film genre. Emphasis is placed on story design, production techniques, and cultural meanings specific to the particular genre. Topics and instructors rotate every semester, and may include sports, horror, melodrama, science fiction, or western films.
Prerequisite: MCOM 2351 and 6 additional MCOM hours.

MCOM 3359. Directing for Film and TV. 3 Hours.
In this course students explore directorial techniques and methods of narrative films and narrative TV drama. Emphasis will be placed on directing a shoot, scene construction, coverage, staging, blocking, camera perspectives and directing actors.
Prerequisite: MCOM 2371, THEA 1364.

MCOM 3360. Specialized Writing. 3 Hours.
This course will cover study and practice in writing for mass media in specialized areas. Emphasis is on developing a level of writing suitable for publication. Course may be repeated as topics vary.
Prerequisite: MCOM 1332, 6 hours of ENGL.

MCOM 3361. Broadcast Journalism Writing. 3 Hours.
This class emphasizes the theory, techniques, and practice of television journalism. Emphasis is on writing and editing news copy and honing style and content skills appropriate for effective broadcast news writing. MCOM 3361 also requires production of broadcast news content and involves discussion of current issues facing broadcast journalists. Students are expected to produce original content for broadcast on Cable Channel 7.
Prerequisite: MCOM 1332, MCOM 2362, MCOM 2371.

MCOM 3362. Media Criticism. 3 Hours.
This course explores mass communication theory, focusing on social-behavioral and critical-cultural approaches. It emphasizes how the same issues (e.g. media violence) recur over time and how ideas about media have changed as new media technologies have emerged.
Prerequisite: MCOM 1332, 2362, 6 hrs MCOM.

MCOM 3364. News Editing. 3 Hours.
This course focuses on the editor?s functions in handling news copy from writing to the printed page or script with emphasis on writing quality and new technologies of production. Content includes copy editing and headline writing, computers as tools of the trade, picture cropping, caption writing, working with wire service copy, typography, and graphics.
Prerequisite: MCOM 1332, MCOM 2362, 6 hrs MCOM.

MCOM 3365. Announcing for Broadcast News. 3 Hours.
This course will prepare students for positions in announcing broadcast journalism for television, radio, and online. Students will examine techniques of voice and movement on television news, broadcast news announcing styles, interviewing techniques, and specialized announcing of events such as sports or cultural events.
Prerequisite: MCOM 1332, MCOM 2362, and 3 hrs MCOM.

MCOM 3366. Photojournalism. 3 Hours.
This course will focus on reporting through the photo. The student will study the applications of news, feature, sports, weather, environmental portraiture and the photo essay. Fundamental principles of photojournalism such as history, freedom of press, ethics and the power of the image to convey the message.
Prerequisite: MCOM 1332, 9 hrs of MCOM.

MCOM 3370. Media Programming. 3 Hours.
Students in this course analyze programming techniques and strategies for broadcast and cable television, radio, and the internet. Special focus is given to exploration of emerging trends, including multiplatform strategies, new and emerging media, wireless media, and pay-per-view structures. Students consider how programs are selected or rejected, arranged, evaluated, promoted, and regulated.
Prerequisite: MCOM 1371.

MCOM 3372. Single Cam & Non-Linear Edit I. 3 Hours.
This course teaches pre-production, field production, and post-production techniques. Elements include field camera setup and operation, remote lighting, remote sound, and basic continuity editing with an emphasis on underlying principles of video technology. Students are expected to produce original content for broadcast on Cable Channel 7.
Prerequisite: MCOM 1332, MCOM 1371, MCOM 2371, and 3 hrs MCOM.

MCOM 3373. Studio Production. 3 Hours.
This course covers fundamentals of video production in a studio environment, including pre-production, in-studio production, and in-studio direction. Students will become familiar with the functions and responsibilities of the production crew, studio environment, and studio equipment. Emphasis is given to multiple camera techniques in studio production. Students are expected to produce original content for broadcast on Cable Channel 7.
Prerequisite: MCOM 1371 and MCOM 2371.

MCOM 3375. Scriptwriting. 3 Hours.
This course emphasizes the study of style, format, principles, and techniques of writing for radio, TV, and feature film. The process of writing fiction and non-fiction will examine the development of the script from research to marketing. Students will learn techniques for writing promotional scripts, public service announcements, documentary scripts, film scripts, and television scripts.
Prerequisite: MCOM 1332, MCOM 1371, MCOM 2371, and 6 hrs MCOM.

MCOM 3376. Field & Studio Audio Recording. 3 Hours.
Students in this course negotiate technical, aesthetic, production and recording differences between field and studio environments. Recording high-quality audio in diverse field settings is emphasized. Proper techniques for recording and reinforcing sound in live studio environments is also prioritized. Pre-production planning, equipment selection, and post-production editing will be studied.
Prerequisite: MCOM 1371 and 9 additional MCOM hours.

MCOM 3377. Multi-Camera Studio Production. 3 Hours.
This course covers fundamentals of video production in a studio environment, including pre-production, in-studio production, and in-studio direction. Students will become familiar with the functions and responsibilities of the production crew, studio environment, and studio equipment. Emphasis is given to multiple camera techniques in studio production. Students are expected to produce original content for broadcast on Cable Channel 7.
Prerequisite: MCOM 1332, MCOM 1371, MCOM 2371, MCOM 3372.

MCOM 3378. Production Management. 3 Hours.
This course emphasizes the study of legal clearances, budgeting, funding, resource management, and scheduling as these activities relate to radio and television production.
Prerequisite: MCOM 1332, MCOM 1371, MCOM 2371, and 3 hrs of MCOM.

MCOM 3379. Multi-Camera Field Production. 3 Hours.
This course emphasizes the techniques and approaches to multi-camera directing and production. MCOM 3379 will train students in various remote production contexts, including sports, dance, music, and special events coverage. Students are expected to produce original content for broadcast on Cable Channel 7.
Prerequisite: MCOM 1332, MCOM 1371, MCOM 2371, MCOM 3372.

MCOM 3381. Principles Of Public Relations. 3 Hours.
This course examines principles of public relations, sales promotions, direct marketing, and online communication with emphasis on the way organizations promote their products and images to their publics. The traits of leadership, crisis management, and ethics will be explored.
Prerequisite: MCOM 1332 and 9 hrs of MCOM.

MCOM 3382. Principles of Advertising. 3 Hours.
This course explores the changes in today's world of advertising communication and the implications of these changes to traditional practice. Industry developments such as social media and the impact of globalization are included, as well as the increased focus on consumers and branding in today's advertising strategies.
Prerequisite: MCOM 1332 and 9 hrs of MCOM.

MCOM 3383. Writing for PR & Advertising. 3 Hours.
This course examines the process of communicating to persuade and inform. Students learn the techniques of strategic thinking and practice writing for advertising and promotions, news media, and special audience materials, such as newsletters, brochures, and catalogues. Online communications for internal and external audiences will also be explored.
Prerequisite: MCOM 1332 and 9 hrs of MCOM.

MCOM 3385. Advanced Writing for PR & Adv. 3 Hours.
This course emphasizes the strategic, goal-oriented mission of high-quality media writing. Using a multidisciplinary and multimedia approach, students will learn to write successful and strategically for public relations, advertising, sales, marketing, and business communications formats.
Prerequisite: MCOM 1332, MCOM 3383, and 3 hrs of MCOM.

MCOM 3388. Sales and Marketing. 3 Hours.
This course provides students with an overview of marketing strategies used by mass media companies. MCOM 3388 examines media marketing, market surveys, advertising, content promotion, and public relations as efforts to create and support customer bases and maintain goodwill. Students have the opportunity to create model marketing strategies. Special attention is paid to industry changes and professional ethics.
Prerequisite: MCOM 1332 and 9 hrs MCOM.

MCOM 4022. Special Topic. 1-3 Hours.
This course uses a case study approach to explore managerial goal setting, strategic thinking, budgeting, and working with clients. Successful problem solving, critical thinking, and leadership styles will be examined in depth.
Prerequisite: MCOM 1332, 9 hours of MCOM, and Senior standing.

MCOM 4099. Independent Study. 1-3 Hours.
This course provides an opportunity to conduct supervised investigation in an area of special interest. This course is designed specifically for advanced students who are capable of independent research and/or creative activity. This course may not be used to replace a required course.
Prerequisite: 12 advanced hrs of MCOM and permission of department chair.

MCOM 4350. Film Theory. 3 Hours.
Students in this course confront interrelated philosophical and social questions of film's nature as an art form, instrument, and mass medium. Major thinkers from different eras will be studied in a humanistic, critical, and discursive fashion through writing and discussion. Comparison of different critical approaches empowers a comprehensive understanding of film's cultural roles and potential.
Prerequisite: MCOM 2366 and 6 additional MCOM hours.

MCOM 4351. New Media Platforms. 3 Hours.
This course examines how ideas move from concepts and funding to distribution and profits in the new media frontiers. Students analyze case studeies and apply entrepreneurial principles to create delivery models for new media content.
Prerequisite: MCOM 3378 or permission of instructor.

MCOM 4361. TV News Producing. 3 Hours.
This course offers advanced instruction and practice in student-produced TV newscasts. Students are assigned duties for producing a newscast once a week, as well as gathering, shooting, writing, and editing TV news. Students are expected to produce original content for broadcast on Cable Channel 7.
Prerequisite: MCOM 1332, MCOM 2362, MCOM 3361.

MCOM 4364. Investigative Reporting. 3 Hours.
This capstone course examines strategies for gathering, analyzing and developing background information necessary for in-depth news writing and reporting. Students will be expected to use the research and analysis techniques to produce investigative journalism.
Prerequisite: MCOM 1332 and 12 hrs MCOM.

MCOM 4365. Online Journalism. 3 Hours.
Students use techniques drawn from various media and forms of writing to produce well-designed, effective communication packages for online distribution. Students integrate written material, video, sound, and graphics into a multimedia online publication.
Prerequisite: MCOM 1332 and 9 hrs MCOM.

MCOM 4366. Social Implications of Media. 3 Hours.
This course offers assessments of professional and industry trends, regulatory practices, socio-economic developments, and technological innovations that influence the institutions and traditions of the American mass media. Emphasis is placed on the changing roles of media and the impact of new communications technologies.
Prerequisite: MCOM 1332 and 9 hrs MCOM.

MCOM 4371. Mass Media Law And Ethics. 3 Hours.
This course will examine legal and ethical concepts as they apply to broadcast and cable television, radio, print media, and Internet-based publishing. It will focus on the evolution of the American legal system with specific attention to state statutes, regulatory agencies, ethical issues, and precedent-setting cases as they relate to free speech, open records, privacy, libel, copyright, and obscenity laws.
Prerequisite: MCOM 1332 and 12 hrs of MCOM.

MCOM 4373. Advanced Production. 3 Hours.
This course requires students to assume the primary responsibility, under faculty supervision, of creating and producing programming for Cable Channel 7. This course will also develop portfolio material for graduating students.
Prerequisite: MCOM 1332, MCOM 3372, and 6 hrs MCOM.

MCOM 4375. Advanced Screenwriting. 3 Hours.
The student develops original ideas from initial concept through completion of a full-length screenplay in a workshop environment. Screenplay structure for feature-length screenplays will be analyzed for character development and plot points.
Prerequisite: MCOM 1332, MCOM 3375.

MCOM 4376. Advanced Audio Production. 3 Hours.
This course presents advanced concepts in audio and radio recording and editing. Students are expected to produce original content for broadcast on KSHU-FM.
Prerequisite: MCOM 1371 and 6 hrs of MCOM.

MCOM 4378. Multi-Camera Remotes. 3 Hours.
In this course students learn to explore multi-camera coverage of specific events, organizations, activities or people to be used as part of a live or recorded media presentation.
Prerequisite: MCOM 1332, MCOM 3372, MCOM 3373 and 6 hrs MCOM.

MCOM 4379. Directing Multicam Productions. 3 Hours.
This course focuses on techniques students need to direct multi camera productions, which involve elements such as several camera operators, graphics, and video playback.
Prerequisite: MCOM 3377, MCOM 3379.

MCOM 4383. Audience Research & Analysis. 3 Hours.
This course introduces students to the history and application of research methods, both quantitative and qualitative, that are employed in commercial media markets and academic environments to assess media audiences, media content, and media use. Topics addressed include survey methods, content analysis, experimental research, ethnographic and critical research, research ethics, and statistical analysis. Special attention will be devoted to research in print and electronic media.
Prerequisite: 12 hrs MCOM.

MCOM 4384. Advanced Design for Public Relations & Advertising. 3 Hours.
This course focuses on higher-level publishing formats and media used in today's persuasive communication environment. This course builds on basic print design and production skills introduced in MCOM 2382.
Prerequisite: MCOM 2382 or department approval.

MCOM 4390. Campaigns for PR & Advertising. 3 Hours.
This course emphasizes integration of theory, research, and communication techniques for implementing and evaluating public relations campaigns. Focus on creative strategies and media planning, target analysis and buying tactics. Students research, develop, and present an integrated communication plan.
Prerequisite: MCOM 3381, MCOM 3383, MCOM 4383.

MCOM 4393. Global Media Communication. 3 Hours.
This course studies world media systems in a variety of countries. Emphasis is placed on how history, politics, government, culture, and other social relations influence international media systems, international development projects, and the global flow of information.
Prerequisite: 12 hrs MCOM.

MCOM 4398. Professional Internship. 3 Hours.
On-the-job application of skills and knowledge learned in the classroom for students who have completed their sophomore year, completed appropriate courses, and achieved an acceptable GPA. Internships may be with print media, electronic media, agencies, institutions, businesses, non-profit groups, or government agencies. MCOM and AGRC majors only.
Prerequisite: Permission of the Internship Coordinator.

Mathematics (MATH)

MATH 0001. Math Intervention. 0 Hours.
NCBO Math Intervention. By department approval only.

MATH 0112. Intermediate Algebra (NCBO1). 1 Hour.
This course is an accelerated introduction to the concepts of relations and functions, inequalities, algebraic expressions, and equations. Particular attention is given to absolute value, polynomial, rational, and radical expressions. Special emphasis will be given to linear and quadratic expressions and equations. Credit in this course may not be applied toward graduation or classification of students by hours completed.
Prerequisite: A score within 5 points of the minimum passing score on the TSI Assessment Test.

MATH 0212. Intermediate Algebra (NCBO2). 2 Hours.
This course continues an examination of the concepts of relations and functions, inequalities, algebraic expressions, and equations. Particular attention is given to absolute value, polynomial, rational, and radical expressions. Special emphasis will be given to linear and quadratic expressions and equations. Credit in this course may not be applied toward graduation or classification of students by hours completed.
Prerequisite: A score within 5 points of the minimum passing score on the TSI Assessment Test.

MATH 0331. Developmental Mathematics. 3 Hours.
This course deals with fundamental operations involving whole numbers, fractions, decimals and percents, ratio and proportion, interpretation of graphs, geometry, and introductory algebra including axioms and properties of the real number system, fundamental operations involving algebraic expressions, first and second degree equations and inequalities in one unknown. Credit in this course may not be applied toward graduation or classification of students by hours completed.

MATH 0332. Intermediate Algebra. 3 Hours.
This course covers products and factoring of polynomials, algebraic fractions, exponents and radicals, quadratic equations, functions and graphs, applications and systems of equations. Credit in this course may not be applied toward graduation or classification of students by hours completed.

MATH 0333. Developmental Mathematics NCBO. 3 Hours.
Students in this course accelerate through the developmental mathematics sequence at Sam Houston State University in one term using innovative learning techniques and individualized programming. Topics include arithmetic operations, basic algebraic concepts and notation, geometry, and real and complex number systems, as well as study of relations and functions, inequalities, algebraic expressions and equations, with a special emphasis on linear and quadratic expressions and equations. This course is required for students who have not met readiness standards for math. Credit in this course will not be allowed to count toward graduation or computation of grade point average or classification of students by hours completed. (Course does not fulfill University degree requirements.)

MATH 1314. Pre Calculus Algebra. 3 Hours.
Topics include a brief review of introductory algebra, variation, elementary theory of equations, functions (including exponential and logarithmic), inequalities, systems of equations, and other related topics.
Prerequisite: Passing score on the MATH TSI Assessment or equivalent.

MATH 1316. Plane Trigonometry. 3 Hours.
Topics include coordinate systems, circular functions, solutions of triangles, identities, trigonometric equations, and inverse functions.
Prerequisite: Passing score on the MATH TSI Assessment or equivalent.

MATH 1324. Mth For Mngl Decision Making. 3 Hours.
Topics include a review of introductory algebra, equations, relations, functions, graphs, linear programming, systems of equations and matrices, and mathematics of finance.
Prerequisite: Passing score on the MATH TSI Assessment or equivalent.

MATH 1332. College Mathematics. 3 Hours.
This course is designed to meet the objectives of Component area 2 of the core curriculum for non-business and non-science related majors. Topics may include sets, counting principles, probability, logic, linear algebra, linear programming, mathematics of finance, geometry, and calculus. Applications are emphasized.
Prerequisite: Passing score on the MATH TSI Assessment or equivalent.

MATH 1369. Elementary Statistics. 3 Hours.
This is a survey course in elementary statistics designed to acquaint students with the role of statistics in society. Coverage includes graphical descriptive methods, measures of central tendency and variation, the basic concepts of statistical inference, the notion of estimators, confidence intervals, and tests of hypotheses. Also offered as STAT 1369.
Prerequisite: Passing score on the MATH TSI Assessment or equivalent.

MATH 1370. Intro to Biomedical Statistics. 3 Hours.
Specifically suited to those seeking entrance into the Nursing profession, this elementary statistics course is designed to foster critical thinking about data. Coverage includes graphical and numerical descriptive methods; measures of central tendency and variation; the basic concepts of statistical inference; the notion of estimators, confidence intervals and tests of hypotheses. Data will be analyzed with the help of software currently used in the profession, such as SPSS and/or Minitab. Also offered as STAT 1370.
Prerequisite: Passing score on the MATH TSI Assessment or equivalent.

MATH 1384. Intro To Foundations Of Math I. 3 Hours.
Topics include a study of sets, systems of numeration, natural numbers, integers, number theory and rational numbers. Credit in this course is applicable only toward elementary/middle school certification.
Prerequisite: Passing score on the MATH TSI Assessment or equivalent.

MATH 1385. Intro Foundations Of Math II. 3 Hours.
Topics include basic notions of Euclidean Geometry in 2 and 3 dimensions, ratio, proportions, percents, decimals, concepts of congruence and similarity, transformational geometry and measurement. Credit in this course is applicable only toward elementary/middle school certification.
Prerequisite: MATH 1384 with a grade of C or better.

MATH 1410. Elementary Functions. 4 Hours.
Elementary Functions and their applications, including topics from algebra, trigonometry and analytic geometry, are used to assist in the algebraic and graphical description of the following elementary functions: polynomial, rational, exponential, logarithmic, and trigonometric functions. This course is for students intending to take calculus (MATH 1420).
Prerequisite: Passing score on the MATH TSI Assessment or equivalent.

MATH 1420. Calculus I. 4 Hours.
Topics include limits and continuity, the derivative, techniques for differentiation of algebraic, logarithmic, exponential and trigonometric functions, applications of the derivative and anti-differentiation, definite integral, Fundamental Theorem of Calculus.
Prerequisite: C or better in MATH 1410 or MATH 1314 and MATH 1316 with a grade of C or higher; or high school equivalent.

MATH 1430. Calculus II. 4 Hours.
Topics include the definite integral and its applications, techniques of integration, improper integrals, Taylor?s formula and infinite series.
Prerequisite: MATH 1420 with a grade of C or better.

MATH 2384. Functions And Graphs. 3 Hours.
The emphasis of this course is on functions and their multiple representations including linear, polynomial, logarithmic, exponential and logistic functions. This course may be applied only toward middle school teacher certification. Normally offered in the Fall, Spring, and Summer.
Prerequisite: MATH 1385 with grade of C or better.

MATH 2385. Fundamentals Of Calculus. 3 Hours.
This course provides an introduction to the concepts and applications of calculus. This course may be applied only toward middle school teacher certification. Normally offered in the Fall, Spring, and Summer.
Prerequisite: C or better in MATH 2384.

MATH 2395. Discrete Mathematics. 3 Hours.
This is an applied course in discrete mathematical structures. Topics may include sets, logic, mathematical proof, computational complexity, relations, graphs, trees, boolean algebra, number theory, combinatorics, probability, recurrence relations, and finite state machines. This course is designed for computer science majors, so programming applications will be emphasized.
Prerequisite: MATH 1420 and COSC 1436 with a grade of C or better.

MATH 2399. Mth For Mngl Decision Making. 3 Hours.
Topics include differential and integral calculus with applications in areas such as business and economics.
Prerequisite: MATH 1324 or MATH 1314.

MATH 2440. Calculus III. 4 Hours.
This course includes the study of the calculus of functions of several variables and topics in vector calculus including line and surface integrals, Green?s Theorem, Divergence Theorem, and Stoke?s Theorem.
Prerequisite: MATH 1430 with a grade of C or better.

MATH 3300. Introduction To Math Thought. 3 Hours.
This course includes an introduction to sets, logic, the axiomatic method and proof. Normally offered in the Spring and Summer I. Normally offered in the Spring and Summer I.
Prerequisite: Grade of C or better in MATH 1430 or consent of instructor.

MATH 3350. Theory of Interest. 3 Hours.
This course will derive the mathematical principles of such financial instruments as amount functions, interest rates and yields, force of interest, special annuity types, bonds, yield curves, and interest rate sensitivity. Also included will be a discussion of the mathematics of financial derivatives. This course covers the content on which the joint Society of Actuaries/Casualty Actuarial Society Exam FM/2 on mathematical interest theory is based.
Prerequisite: Grade of C or better in Math 1430.

MATH 3363. Euclidean Geometry. 3 Hours.
This course consists of a modern development of Euclidean geometry and a limited introduction to non-Euclidean geometry. Normally offered in Fall and Summer II. Normally offered in Fall and Summer II.
Prerequisite: MATH 3300 or consent of instructor.

MATH 3376. Differential Equations. 3 Hours.
This course, in conjunction with MATH 4376, is intended to develop a basic competence in areas of mathematics that are used in solving problems from the physical sciences. This first course emphasizes the general solution of ordinary differential equations, including the Laplace transform and infinite series methods. Normally offered in the Fall. Normally offered in the Fall.
Prerequisite: Grade if C or better in MATH 2440 or concurrent enrollment.

MATH 3377. Intro To Linear Alg & Matrics. 3 Hours.
Topics include: solving systems of linear equations, fundamental matrix theory (invertibility theorems, determinants), eigenvectors, and properties of linear transformations. Remaining topics are chosen from: Properties of general vector spaces, inner product spaces, and/or diagonalization of symmetric matrices. Normally offered in the Spring and Summer II. Normally offered in the Spring and Summer II.
Prerequisite: Grade of C or better in MATH 1430.

MATH 3379. Statistical Mthods In Practice. 3 Hours.
Topics include organization and presentation of data, measures of central tendency, dispersion, and position, probability distributions for discrete and continuous random variables, sampling techniques, parameter estimation, and hypothesis testing. Emphasis will be given to the use of statistics packages. Normally offered in the Fall, Spring, Summer I. Also offered as STAT 3379.
Prerequisite: Three (3) semester hours of college mathematics.

MATH 3380. Historical Perspec of Math. 3 Hours.
(SH Prior Course ID: MTH 380); This course is designed to present mathematical topics from a historical perspective. The number systems and computational methods of past cultures and civilizations are discussed, along with the development of number theory and trigonometry. Credit in this course is applicable only toward elementary/middle school teacher certification. Normally offered in the Fall and Spring.
Prerequisite: C or better in MATH 2384.

MATH 3381. Intro - Foundation Of Math III. 3 Hours.
Topics include proportions, percents, probability, data analysis, algebraic reasoning, and problem solving. Credit in this course is applicable only toward elementary/middle school certification.Normally offered in the Fall, Spring, and Summer. Normally offered in the Fall, Spring and Summer.
Prerequisite: C or better in MATH 1385.

MATH 3382. Foundations Of Middle Sch Math. 3 Hours.
Topics include relations, functions, coordinate geometry, logic, and history of mathematics. Credit in this course is applicable only toward middle school certification. Normally offered in the Fall and Spring. Normally offered in the Fall and Spring.
Prerequisite: C or better in MATH 2384.

MATH 3383. Geometric Meas./Transformation. 3 Hours.
Topics included in this course are measurement in one, two, and three dimensions, the metric system, transformational geometry, congruencies, similarities, geometric constructions, and coordinate systems. This course may be applied only toward middle school certification. Normally offered in the Fall and Spring of each year and in the Summer of odd numbered years.
Prerequisite: C or better in MATH 2385.

MATH 3384. Foundations Of Mathematics. 3 Hours.
This course includes an introduction to logic, concepts of proof, proof techniques, induction, and sets. It may be applied only toward middle school certification. Normally offered in the Fall and Spring and in the Summer of even numbered years.
Prerequisite: C or better in MATH 2385 or equivalent.

MATH 3386. Fundmtls Probability/Stats. 3 Hours.
This course provides an introduction to probability, descriptive statistics, and inferential statistics, including regression, confidence intervals, and the construction and interpretation of tables, graphs, and charts. Technology related to the above topics will be incorporated into the course. This course may be applied only toward middle school certification. Normally offered in the Fall and Spring and in the Summer of even numbered years.
Prerequisite: C or better in MATH 2385.

MATH 3387. Problem Solving-Middle Sch Mth. 3 Hours.
Topics included in this course are problem-solving strategies appropriate for middle school or junior high mathematics. The course may be applied only toward middle school certification. Normally offered in the Fall and Spring of each year and in the Summer of odd numbered years.
Prerequisite: C or better in Math 2385.

MATH 3394. Numerical Methods. 3 Hours.
Topics include interpolation, approximations, solutions of equations, and the solution of both linear and nonlinear systems of equations. Also offered as COSC 3394. Normally offered in the Spring. Normally offered in the Spring.
Prerequisite: COSC 1436 and MATH 1430 with a grade of C or higher.

MATH 3396. Operations Research I. 3 Hours.
Techniques for the application of the scientific method to decision making in business and government are presented through the formulation and interpretation of mathematical models for various specific real life problems. Normally offered in the Fall.
Prerequisite: MATH 1430 with a grade of C or higher.

MATH 4090. Independent Study. 1-3 Hours.
This course is designed for advanced students to engage in independent study of an area of interest in mathematics under the close guidance of a faculty mentor. Variable credit (1 to 3).
Prerequisite: Consent of instructor.

MATH 4361. Introductory Analysis. 3 Hours.
This course consists of a more thorough treatment of the material traditionally considered in elementary calculus. Topics include sets, functions, properties of the real number system and sequences. Writing enhanced. Normally offered in the Fall. Normally offered in the Fall.
Prerequisite: C or better in MATH 3300 or consent of the instructor.

MATH 4366. Elementary Analysis. 3 Hours.
Topics include limits, continuity, differentiation, Riemann integration, infinite series and sequences and series of functions. Normally offered in the Spring. Normally offered in the Spring.
Prerequisite: MATH 4361 with a grade of C or better.

MATH 4367. The Evolution Of Mathematics. 3 Hours.
Normally offered in Spring. An introduction to the historical development of fundamental mathematical ideas from antiquity to the present.
Prerequisite: Grade of C or better in MATH 1430.

MATH 4370. Special Topics In Mathematics. 3 Hours.
Normally, this course consists of readings and individual research appropriate for the undergraduate level with subject matter for study selected by mutual agreement of student and supervisor. However, special classes may be organized when there is sufficient student interest in a particular project. Writing enhanced. This course may be taken for Academic Distinction Credit. See Academic Distinction Program in this catalog.
Prerequisite: Six (6) semester hours of advanced college math and instructor consent.

MATH 4371. Thry & Appl Of Prob & Stat I. 3 Hours.
Topics include basic concepts and properties of probability, random variables, statistical distributions, measures of central tendency, variance, covariance, correlation, functions of random variables, sampling distributions, and the Central Limit Theorem. Also offered as STAT 4371. Normally offered in the Fall. Normally offered in the Fall.
Prerequisite: MATH 1430.

MATH 4372. Thry & Appl-Probability & Stat. 3 Hours.
Topics include multivariate, conditional and marginal distributions, point and interval estimation, theory of estimation, maximum likelihood estimates, hypothesis testing, likelihood ratio tests, contingency analysis, and nonparametric statistics. Also offered as STAT 4372. Normally offered in the Spring. Normally offered in the Spring.
Prerequisite: MATH 2440 and STAT 4371.

MATH 4376. Topics In Applied Mathmatics I. 3 Hours.
This course, in conjunction with MATH 3376, is intended to develop a basic competence in areas of mathematics that are used in solving problems from the physical sciences. Topics will be selected from partial differential equations, multivariable and vector calculus, and complex analysis. Normally offered in the Spring. Normally offered in the Spring.
Prerequisite: MATH 3376 or consent of the instructor.

MATH 4377. Algebraic Structures. 3 Hours.
Topics include groups, rings, fields, finite groups and Abelian groups. Normally offered in the Fall.
Prerequisite: C or better in MATH 3300 and MATH 3377.

MATH 4384. Survey Of Mathematical Ideas. 3 Hours.
This course is designed to bring together and supplement the technical material of other mathematics courses in the mathematics teacher-education program and relate it to the mathematics curriculum of the secondary school. This course may be applied only toward teacher certification. Normally offered in the Spring. Normally offered in the Spring.
Prerequisite: Grade of C or better in MATH 3300; Advanced standing in mathematics.

MATH 4385. Mathematical Problem Solving. 3 Hours.
This course focuses on solving mathematical problems including the use of proof as well as graphical and numerical methods. It extends and connects concepts from algebra, geometry, and calculus, including functions, graphs, complex numbers and number systems. This course may be applied only toward teacher certification. Normally offered in the Fall. Normally offered in the Fall.
Prerequisite: Grade of C or better in MATH 3300; Advanced standing in mathematics.

MATH 4395. Undergraduate Research. 3 Hours.
This course consists of special projects or topics in theoretical or applied mathematics. Each student pursues an approved project of interest guided by a mathematics faculty member. Each student is expected to demonstrate individual initiative in planning and conducting the research program or topic. This course may be taken for Academic Distinction credit.
Prerequisite: C or better in MATH 3300 and department approval.

McNair (MCNR)

MCNR 4301. Intro To Research & Grad Study. 3 Hours.
This course is designed to provide students with a quick introduction to the methods, problems, and terminology of graduate research. Because the course is geared toward advanced undergraduate students and is interdisciplinary, we will only touch the surface of the research process and will provide students with a foundation on which to build during their graduate studies. Through the process of writing a research proposal and presenting preliminary research to the class, students will be exposed to the complex area of research,

Middle Level Education (CIME)

CIME 2313. Teaching as a Profession. 3 Hours.
In this course, candidates are introduced to teaching as a profession focusing on the examination of political, social, historical, theoretical, and philosophical issues related to making a commitment to education.

CIME 3327. Integ Tech in Middle Grades. 3 Hours.
Candidates in this course learn to plan, organize, deliver, assess, and evaluate instruction for all learners in middle grades, while integrating the effective use of technology at each level of the instructional cycle. In addition, implementation of appropriate media for communication with and among colleagues, mentors, and students is addressed.
Prerequisite: CIME 3374 and CIME 3375.

CIME 3374. Human Growth & Learning. 3 Hours.
Candidates examine human growth and learning with an emphasis in the middle grades environment. Major theories of the teaching-learning process are studied and human development related to middle level education is emphasized. Required for 4-8 certification.
Prerequisite: Junior status.

CIME 3375. The Middle Level Child. 3 Hours.
This course focuses on effective programs and practices at middle-level schools. Emphasis is placed on a historical perspective and philosophy, components of highly successful programs, and current trends and issues in middle-level education. Field experiences in public schools at appropriate levels included in this course. This course is taken as part of the Middle Level Methods Block for 4-8 Certification.
Prerequisite: CIME 3374; Admission to Educator Preparation Program and Departmental approval.

CIME 3376. Curriculum & Assmt For Mid Grd. 3 Hours.
This course will prepare teacher candidates to become successful in teaching in the middle grades by using effective models of teaching and learning. Emphasis is placed on assessment strategies that reflect responsive instructional practices. Field experiences in public schools at appropriate levels included in this course. This course is taken as part of the Middle Levels Methods Block for 4-8 Certification.
Prerequisite: CIME 3374; Admission to Educator Preparation Program and Departmental Approval.

CIME 3385. The Middle Grades Classroom. 3 Hours.
This course provides a survey of classroom management and discipline approaches appropriate in a middle grades setting. Candidates will explore multiple components that produce a productive learning environment.
Prerequisite: Junior status.

CIME 4088. Special Topics Mid Level Educ. 1-3 Hours.
This course is designed to be a multi-topic course. The student can take the course under various special topics being offered.

CIME 4089. Independent Study Mid Lev. Ed. 1-3 Hours.

CIME 4116. Integrating Technology in the Middle Grades II. 1 Hour.
Candidates in this course will learn to plan, organize, deliver, asses, and evaluate instruction for diverse learners in middle schools, while incorporating the effective use of technology at each level of the instructional cycle. It builds upon the knowledge and skills candidates aquired during methods block (in CIME 4227) in relation to using technology in classroom instruction. This course is taken as part of student teaching. For those seeking 4-8 certification only.
Prerequisite: Senior standing and admission to student teaching.

CIME 4227. Integrating Technology in the Middle Grades I. 2 Hours.
Candidates in this course will learn to plan, organize, deliver, assess and evaluate instruction for diverse learners in middle schools, while incorporating the effective use of technology at each level of the instructional cycle. This course, taken with the other middle school methods block courses, focuses on the implementation of technology instruction in the middle level grades. All candidates seeking 4-8 certification must make the connections between technology and instructional practice as they begin working with children of this age group. This course is taken as part of the Middle Level Methods Block for 4-8 certification.
Prerequisite: CIME 3374 and CIME 3385; Admission to Educator Prepartation Program and Departmental approval.

CIME 4334. Teaching Math in Middle Grades. 3 Hours.
This course emphasizes mathematics lesson planning and the preparation of instructional materials appropriate for mathematics content and skills in middle level grades. This course is taken as part of the Middle Level Methods Block for 4-8 Mathematics certification.
Prerequisite: CIME 3374 and CIME 3385; Admission to Educator Preparation Program and Departmental approval.

CIME 4335. Teaching Science in the Middle Grades. 3 Hours.
This course emphasizes science lesson planning and the preparation of instructional materials appropriate for science content and skills in middle level grades. This course is taken as part of the Middle Level Methods Block for 4-8 Mathematics/Science certification.
Prerequisite: CIME 3374 and CIME 3385; Admission to Educator Preparation Program and Departmental approval.

CIME 4336. Teaching Social Studies in the Middle Grades. 3 Hours.
This course emphasizes social studies lesson planning and the preparation of instructional materials appropriate for social studies content and skills in middle level grades. This course is taken as part of the Middle Level Methods Block for 4-8 English-Language Arts-Reading/Social Studies certification.
Prerequisite: CIME 3374 and CIME 3385; Admission to Educator Preparation Program and Departmental approval.

CIME 4337. Integrtng Literacy & Soc Stdy. 3 Hours.
This course focuses on the study of methods used in the teaching of middle level language arts and social studies. Emphasis is placed on basic models, strategies, and skills necessary for teaching language arts and social studies in an integrated curriculum, and the application in middle-level grades.

CIME 4338. Integrating Math And Science. 3 Hours.
This course focuses on the integration of mathematics and science content and pedagogy for middle grades 4-8. Emphasis is placed on a historical perspective and philosophy of mathematics and science integration, problem-based approaches to teaching and learning science and mathematics, planning, teaching, and managing the integration of mathematics and science experiences for the middle school classroom.

CIME 4391. Student Teaching in the Middle Grades. 3 Hours.
The student is assigned to student teach in middle grades classrooms for two placements totally approximately twelve to fourteen weeks. This time is divided among observation, participation, teaching and conference activities in two classrooms that span the certification grades. This course corresponds to one of those placements. As an example, a student will have one placement in a lower grade such as 5th grade and the second placement in a higher level such as 7th grade.
Prerequisite: Senior status and admission to student teaching.

CIME 4392. Student Teaching in the Middle Grades. 3 Hours.
The student is assigned to student teach in middle grades classrooms for two placements totally approximately twelve to fourteen weeks. This time is divided among observation, participation, teaching and conference activities in two classrooms that span the certification grades. This course corresponds to one of those placements.
Prerequisite: Senior status and admission to student teaching.

Military Science (MLSC)

MLSC 1101. Applied Leadership Lab I. 1 Hour.
A practical laboratory of applied leadership and skills that is required for each 1000-level Military Science Basic Course. Activities include rappelling, preliminary and advanced rifle marksmanship, first aid, field leadership reaction course and physical conditioning. Concurrent enrollment inMLSC 1101 and MLSC 1201/1202 are accepted substitutes for activity kinesiology. Three hours per week.

MLSC 1211. Introduction to the U.S. Army. 2 Hours.
This course develops students who accept the Army as a values-based organization and embrace the scholar-athlete-warrior ethos. The course also familiarizes students with individual roles and responsibilities in support of team efforts and problem solving processes in military and non-military situations. The course introduces and reinforces the importance of effective oral and written communication skills, resilience, and student commitment to learning. Co-requisite: MLSC 1101.

MLSC 1212. Agile and Adaptive Leadership. 2 Hours.
Students learn to recognize and take responsibility for their own personal development through instruction in critical thinking, time management, goal setting, and communication. Students learn the basics of the communications process and the importance for leaders to develop the essential skills to effectively communicate in the Army. Co-requisite: MLSC 1101.

MLSC 2101. Applied Leadership Lab II. 1 Hour.
A practical laboratory of applied skills and leadership. Activities include rappelling, rifle marksmanship, basic land navigation, and fundamentals of tactics. Concurrent enrollment inMLSC 2101 and MLSC 2201/2202 are accepted substitutes for activity kinesiology. Three hours per week.

MLSC 2211. Leadership and Decision Making. 2 Hours.
Students learn to apply critical thinking and problem solving skills using Troop Leading Procedures (TLP). Students also identify the importance of diversity and the officer`s role in leading change. Upon completion of this course students demonstrate the fundamentals of the Army as a profession. Co-requisite: MLSC 2101.

MLSC 2212. Army Doctrine/Team Development. 2 Hours.
Students learn Army doctrine and team development. The course also reinforces the importance of Army Values, Teamwork, and Warrior Ethos while integrating the student's relationship to the Law of Land Warfare and philosophy of military service. Co-requisite: MLSC 2101.

MLSC 2401. Leader'S Training Course (Ltc). 4 Hours.
An optional four-week leadership intern program conducted during June and July at Fort Knox, Kentucky, consisting of basic leadership and adventure-type training. This course is for the student who is considering enrollment in the ROTC Advanced Course, but who does not have credit for the Basic Course. The Army provides transportation, room, board, and clothing. The student is paid approximately $750.00 for the four-week period and is eligible to compete for a two-year Army ROTC scholarship. No service obligation is incurred. 750.00 for the four-week period and is eligible to compete for a two-year Army ROTC scholarship. No service obligation is incurred.

MLSC 3101. Applied Leadership Lab III/IV. 1 Hour.
A practical application laboratory, which is planned by the MSIV (senior) students, executed by the MSIV (senior) students, and supervised by department staff and faculty. Activities include: safety/first aid, drill and ceremony, land navigation, rappelling, rifle marksmanship, and tactics. This class is required for contracted cadets enrolled in the MLSC 3301, 3302, 4301, or 4302 classes. Three hours per week.

MLSC 3311. Training Management. 3 Hours.
Students enrolled in this course must progress from the Basic Course or Basic Camp at Fort Knox, KY. Cadets entering the Advanced Course contract (commit) to become officers before or during this semester. Cadets will study, practice, and apply the tenets of Army Leadership, Officership, Army Values and Ethics, Personal Development, and small unit tactics at the platoon level. Co-requisite: MLSC 3101.
Prerequisite: Basic Course (MLSC 1211, 1212, 2211, 2212) or Leader's Training Course (MLSC 2401).

MLSC 3312. Applied Leadership. 3 Hours.
This is the second course in the Military Science Advanced Course series and focuses on applied leadership in small unit operations. Students study, practice, and apply the fundamentals of direct level leadership and small unit tactics at the platoon level. Co-requisite: MLSC 3101.
Prerequisite: Basic Course (MLSC 1211, 1212, 2211, & 2212) or Leader's Training Course (MLSC 2401) followed by MLSC3311.

MLSC 3401. Nat'l Adv Leadershp Camp(Nalc). 4 Hours.
A required four-week course during June and July of practical and theoretical instruction at an Army training center. Normally attended between the junior and senior years with transportation, room and board expenses paid by the Army. Advanced Camp cadets are paid approximately $750 for the four-week period. $750 for the four-week period.

MLSC 4303. Spc Tpcs In Military Science. 3 Hours.
Independent concentrated study on an individual basis on current topics in Military Science. Performance will be based on oral presentation, written tests and research papers. Times to be arranged with PMS.

MLSC 4311. The Army Officer. 3 Hours.
This is the third course in the Military Science Advanced Course series. Students in this course begin their final preparation to assume the role of an Army Officer. Students learn the knowledge, skills, and abilities to plan, resource, and assess training at the small unit level. Students also learn about Army programs, how to counsel and evaluate subordinate performance, values and ethics, career planning, and legal responsibilities. Students actively demonstrate the ability to prepare, execute, and continuously assess the conduct of training at the company grade level. Co-requisite: MLSC 3101.
Prerequisite: Basic Course (MLSC 1211,1212,2211 & 2212) or Leader's Training Course (MLSC 2401) followed by MLSC 3211 & 3212.

MLSC 4312. Company Grade Leadership. 3 Hours.
Students develop knowledge, skills, and abilities required of junior officers pertaining to the Army in Unified Land Operations and Company Grade Officer roles and responsibilities. Successful completion of this course assists in preparing students for basic Officer Leader Course and is a mandatory requirement for commissioning. Co-requisite: MLSC 3101.
Prerequisite: Basic Course (MLSC 1211, 1212, 2211 & 2212) or Leader's Training Course (MLSC 2401) followed by MLSC 3311, 3312, 4311.

Music (MUSI)

MUSI 1101. Class Piano - Non Music Majors. 1 Hour.
Basic techniques of piano playing. Development of musical literacy with respect to the keyboard. Designed for the non-music major. Two hours lecture and practice.
Prerequisite: Non-music major.

MUSI 1115. Keyboard Harmony I. 1 Hour.
The course will focus on the practical applications of interpreting simple notated music and basic harmony at the piano. Designed for the Musical Theatre major who has little familiarity with the keyboard.

MUSI 1116. Keyboard Harmony II. 1 Hour.
The course will continue the practical application of interpreting simple notated music and basic harmony at the piano. Discussion of improvisation will be included. Designed for the Musical Theatre major who has little familiarity with the keyboard.

MUSI 1160. Singer's Diction:Eng & Italian. 1 Hour.
This course is designed to familiarize singers with the pronunciation of each language as sung in choral music, recital literature, and opera.

MUSI 1166. Study Of Woodwinds. 1 Hour.
Basic techniques of teaching and playing clarinet, saxophone, oboe, bassoon, and flute. Three hours lecture and practice. NOTE:
Prerequisite: Woodwind students only take MUSI 1166 or MUSI 1167; Brass, string and percussion players must take BOTH MUSI 1166 and MUSI 1167.

MUSI 1167. Study Of Woodwinds. 1 Hour.
A continuation of the study of basic techniques of teaching and playing clarinet, saxophone, oboe, bassoon, and flute. Three hours lecture and practice.

MUSI 1181. Class Piano, Level 1. 1 Hour.
Basic techniques of piano playing. Development of musical skills with respect to the keyboard. Designed for the music major who has little familiarity with the keyboard. Two hours lecture and practice.

MUSI 1182. Class Piano, Level 2. 1 Hour.
Basic techniques of piano playing. Development of musical skills with respect to the keyboard.
Prerequisite: MUSI 1181 with a C or better; or by placement exam.

MUSI 1222. Theory Of Music I. 2 Hours.
This course provides an intensive drill in the fundamentals of music theory followed by an introduction to tonal music of the Western tradition. After mastering basic concepts involving the visual recognition and written reproduction of key signatures, scales, intervals, rhythm, meter, triads, and seventh chords, students will study figured bass, Roman Numeral analysis, andfour-voice part writing of diatonic music using triads in all inversions. This course?s content is coordinated with that of MUSICIANSHIP I (MUSI 1224).

MUSI 1223. Theory Of Music II. 2 Hours.
This course expands the study of the fundamentals of music theory to focus on diatonic elements of the Western tradition. In addition to the continuing focus on four-voice part writing and Roman numeral analysis, students are introduced to non-chord tones and basic studies of counterpoint and phrase structure. This course?s content is coordinated with that of MUSICIANSHIP II (MUSI 1225).
Prerequisite: MUSI 1222 with a C or better; MUSI 1224 with a C or better; or by placement exam.

MUSI 1224. Musicianship I. 2 Hours.
This course provides intensive drill in identifying and reproducing the fundamental structures of music. The course content, which is coordinated with that of THEORY I (MUSI 1222), is divided into practical skills and aural skills. Practical skills develop your ability to perform music. They include activities such as performing rhythmic patterns and sight-singing solfege patterns and written melodies. Aural skills improve your ability to hear music and interpret what you hear. These include exercises such as interval identification, chord identification, scale identification, rhythmic dictation, melodic dictation, and harmonic dictation.

MUSI 1225. Musicianship II. 2 Hours.
This course provides intensive drill in identifying and reproducing the fundamental structures of music. The course content, which is coordinated with that of THEORY II (MUSI 1223), is divided into practical skills and aural skills. Practical skills develop your ability to perform music. They include activities such as performing rhythmic patterns and sight-singing solfege patterns and written melodies. Aural skills improve your ability to hear music and interpret what you hear. These include exercises such as chord identification, rhythmic dictation, melodic dictation, and harmonic dictation.
Prerequisite: MUSI 1222 and MUSI 1224 with grade of C or better; or by placement exam.

MUSI 1226. Practical Theory I. 2 Hours.
This course focuses on the fundamentals of music theory and aural skills for the Musical Theatre major. Interactive performance-based methods such as sight-singing will be utilized as well as improvisation and composition.

MUSI 1227. Practical Theory II. 2 Hours.
This course continues the material presented in MUSI 1226 Practical Theory I. Interactive performance-based methods such as sight-singing will be utilized as well as improvisation and composition.

MUSI 1301. Introduction To Study Of Music. 3 Hours.
University Core area IV course; The study of the fundamentals of music, including major and minor scales, rhythm, chords, sight-reading, and ear-training.
Prerequisite: Not open to music majors.

MUSI 1303. Fund Of Guitar. 3 Hours.
Basic guitar technique for the beginning student is combined with a study of the fundamentals of music notation. Required for music therapy majors.
Prerequisite: Not open to music majors.

MUSI 1304. Fundamentals Of Singing. 3 Hours.
A study of the physiology of vocal music production and the development of the singing voice. Emphasis on correct breathing, tone placement, vowel formations, stage presence and musical interpretation. Required for Music Therapy majors.
Prerequisite: Not open to students majoring in Music.

MUSI 1306. Music Appreciation. 3 Hours.
University Core area IV course; A general survey of music literature designed for the non-music major. Representative composers and their works are studied through recordings, lectures, reports, and live performances.
Prerequisite: For non-music majors.

MUSI 1310. Hist Rock Jazz Popular Music. 3 Hours.
A survey of the history of jazz, rock, and popular music beginning with the common origins in African, European and late 19th-century southern folk music. Continues through the latest trends and includes discussion of individual musicians as well as stylistic details.
Prerequisite: For non-music majors.

MUSI 1379. Survey of World Music Cultures. 3 Hours.
This course is a survey of world music focusing on non-Western cultures of the 20th and 21st centuries. It examines elements of representative music cultures, features of those societies that influence music, and the unique musical and artistic aesthetics of those cultural groups. This course explores the creation and function of music within a community's system of values and beliefs, fostering an appreciation for the human experience across diverse societies.

MUSI 2160. Singer's Diction:German. 1 Hour.
This course is designed to familiarize singers with the pronunciation of each language as sung in choral music, recital literature, and opera.
Prerequisite: MUSI 1160.

MUSI 2161. Singer's Diction - French. 1 Hour.
This course is designed to familiarize singers with the pronunciation of each language as sung in choral music, recital literature, and opera.
Prerequisite: MUSI 1160.

MUSI 2166. Study Of Brasses. 1 Hour.
Basic techniques of teaching and playing trumpet, trombone, French horn, baritone, and tuba. Three hours lecture and practice.

MUSI 2167. Study Of Brasses. 1 Hour.
A continuation of study of the basic techniques of teaching and playing trumpet, trombone, French horn, baritone, and tuba. Three hours lecture and practice.

MUSI 2181. Class Piano, Level 3. 1 Hour.
Basic techniques of piano playing. Further development of musical skills with respect to the keyboard.
Prerequisite: MUSI 1182 with C or better; or by placement exam.

MUSI 2182. Class Piano, Level 4. 1 Hour.
Basic techniques of piano playing. Enhancement of musical skills to provide minimum competencies on keyboard necessary for completion of the music degree.
Prerequisite: MUS 113X with a C or better; or by placement exam.

MUSI 2222. Theory Of Music III. 2 Hours.
This course expands the study of diatonic Western musical elements to include chromatic conventions, including secondary functions, modal borrowing, Neapolitan and augmented sixth chords. A brief introduction to binary, ternary, and other formal designs expands on the study of phrase structure from THEORY II (MUSI 1223). This course?s content is coordinated with that of MUSICIANSHIP III (MUSI 2224).
Prerequisite: MUSI 1223 and MUSI 1225 with a C or better; or by placement exam.

MUSI 2223. Theory Of Music IV. 2 Hours.
This course continues the study of the chromatic elements of Western music, followed by an introduction to Twentieth-Century music. Special emphasis is made on the analysis of tonal and post-tonal harmony and structures through score study, composition projects, and class performances.
Prerequisite: MUSI 2222 and MUSI 2224 with a C or better; or by placement exam.

MUSI 2224. Musicianship III. 2 Hours.
This course provides intensive drill in identifying and reproducing the fundamental structures of music. The course content, which is coordinated with that of THEORY III (MUSI 2222), is divided into practical skills and aural skills. Practical skills develop your ability to perform music. They include activities such as performing rhythmic patterns and sight-singing solfege patterns and written melodies. Aural skills improve your ability to hear music and interpret what you hear. These include exercises such as chord identification, rhythmic dictation, melodic dictation, and harmonic dictation.
Prerequisite: MUSI 1223 and MUSI 1225 with a grade of C or better; or by placement exam.

MUSI 2226. Conducting I. 2 Hours.
An introduction to the basic techniques of conducting choral and instrumental music.
Prerequisite: Sophomore standing; MUSI 1223 Theory II with a C or better.

MUSI 2338. Intro Music Therapy. 3 Hours.
A survey of the role of music as therapy in educational, psychiatric, medical, and rehabilitative settings.
Prerequisite: Required for music majors and music minors; MUSI 1222 , MUSI 1224 or instructor consent.

MUSI 2339. Psychology Of Music. 3 Hours.
A study of the effect of music on the mind. Topics include musical acoustics, music perception, and experimental research in music.

MUSI 2348. Survey of Music Literature. 3 Hours.
University Core area IV course. The fundamentals of music terminology, standard instrumental and vocal forms, and representative composers and compositions from secular and sacred music of most eras.
Prerequisite: Required for music majors and music minors; MUSI 1222, MUSI 1224.

MUSI 2362. Advanced Guitar. 3 Hours.
Continuation of fundamentals of guitar with guitar techniques for advanced students combined with study of fundamentals of music notation.

MUSI 3110. Study Of Percussion. 1 Hour.
Basic techniques of teaching and playing all percussion instruments. Three hours lecture and practice.

MUSI 3111. Vocal Technq For Instrumentlst. 1 Hour.
Basic techniques of teaching vocal music specifically for instrumentalists in the Music Education track. Three hours lecture and practice.

MUSI 3112. Instrumental Technq-Vocalists. 1 Hour.
Basic techniques of teaching woodwind, brass string and percussion instruments specifically for vocalists in the Music Education track. Three hours lecture and practice. NOTE: vocalists are not required to take additional instrumental techniques courses.

MUSI 3117. Practicum In Music Therapy I. 1 Hour.
Supervised pre-internship clinical experience in community settings. MUSI 3365 must be taken concurrently.
Prerequisite: Admission to the Music Therapy program.

MUSI 3118. Practicum In Music Therapy II. 1 Hour.
Supervised pre-internship clinical experience in community settings. MUSI 3366 must be taken concurrently.
Prerequisite: MUSI 3117.

MUSI 3166. Study Of Strings. 1 Hour.
Basic techniques of teaching and playing violin, viola, violoncello, and string bass. Three hours lecture and practice.

MUSI 3167. Study Of Strings. 1 Hour.
A continuation of the study of the basic techniques of teaching and playing violin, viola, violoncello, and string bass. Three hours lecture and practice.

MUSI 3190. Jazz Keyboard Skills. 1 Hour.
This course offers an in-depth study of standard jazz harmonies with an emphasis on developing the student's ability to perform jazz progressions at the keyboard.
Prerequisite: MUSI 1182 or instructor approval.

MUSI 3336. Instr Skills Mus Therapy Set. 3 Hours.
Study of instrumental skills as applied in the music therapy setting utilizing guitar, dulcimer, keyboard, percussion, and other instruments. Research findings in the music therapy literature will be used in structuring therapeutic interventions for specific music therapy populations.
Prerequisite: Music or music therapy major.

MUSI 3337. Instr Skills Music Thrpy SetII. 3 Hours.
SStudy of instrumental skills applied in the music therapy setting, with emphasis on clinical improvisation, song writing, and popular music styles.
Prerequisite: MUSI 2181, MUSI 1303, music therapy major or music major/minor, or instructor permission.

MUSI 3362. Orchestration And Analysis. 3 Hours.
A study of basic techniques of instrumentation, including ranges, transpositions, and characteristics of band and orchestral instruments. Practical application in the form of projects for various instrumental combinations.
Prerequisite: MUSI 2222 with a C or better.

MUSI 3363. Structure And Analysis. 3 Hours.
An exploration of formal Western musical structures from the common practice period, including classroom discussions, daily/weekly assignments, and one large individual analysis project.
Prerequisite: MUSI 2223 with a C or better.

MUSI 3364. Improvisation. 3 Hours.
Basic techniques and skills used in improvisation including standard chord changes, song structures and advanced scales and arpeggios.
Prerequisite: MUSI 2223 and MUSI 2224 with a C or better; junior standing or permission of instructor.

MUSI 3365. Obser & Measure Mus Therapy. 3 Hours.
A study of current assessment and evaluation procedures used in music therapy and the application of observational recording techniques in educational, social, and therapeutic settings. MUS 310X MUSI 3117 must be taken concurrently.
Prerequisite: Admission to music therapy program.

MUSI 3366. Mus Therapy Tchnq I. 3 Hours.
An examination of music therapy techniques used in the special education setting and current legislation related to education of students with disabilities and music/music therapy to be provided. MUSI 3118 must be taken concurrently.
Prerequisite: MUSI 3365.

MUSI 3367. Studies In Music For Children. 3 Hours.
Introduction to Kodaly philosophy and materials, Orff techniques and instruments, folk song analysis, solfege, Dalcorze concepts, and methods of other pedagogues in the field of elementary music. Several types of curricula for grades K-6 are presented.
Prerequisite: MUSI 1223.

MUSI 3372. Advanced Orchestration. 3 Hours.
Study includes examination of orchestration styles of past and present composers, culminating in a final orchestration project and performance.
Prerequisite: MUSI 3362 Orchestration and Analysis, junior standing or permission of the instructor.

MUSI 3376. Mus His: Antiq through Baroque. 3 Hours.
This course is designed to provide a chronological perspective of the development of Western music from ancient times to 1750, including representative composers, works, and genres as well as significant concepts and issues.
Prerequisite: MUSI 2348 with C grade or better; junior standing or instructor permission.

MUSI 3377. Mus His: Classic to Present. 3 Hours.
This course is designed to provide a chronological perspective of the changes in Western music beginning in 1750 and extending up to the present, including representative composers, works, and genres as well as significant concepts and issues.
Prerequisite: MUSI 2348 with C grade or better; junior standing or consent of instructor.

MUSI 3380. Opera Literature. 3 Hours.
An overview of the repertory and performance practice of opera including the history of standard operas from the Baroque era to the present.
Prerequisite: MUSI 2338 with a C or better; junior standing or permission of instructor.

MUSI 3381. Song History & Literature. 3 Hours.
An exploration and development of understanding of the vast repertory of vocal music.
Prerequisite: MUSI 2348; junior standing or permission of instructor.

MUSI 3382. Survey Of Keyboard Literature. 3 Hours.
An examination of the standard piano repertoire from the Baroque era to the 20th Century. Piano majors will be required to study, discuss and perform music from the standard repertoire.

MUSI 3383. Advanced Keyboard Literature. 3 Hours.
A continuation of study begun in MUSI 3382. This course delves into greater detail and includes an introduction of methods for research in keyboard literature.
Prerequisite: Junior standing or permission of instructor.

MUSI 4068. Independent Study. 1-3 Hours.
A course in which the undergraduate student may pursue advanced specialized study under faculty supervision in the areas of composition, music literature, analysis, and research. May be repeated for hours. (This course may be taken for Academic Distinction Hours. See Academic Distinction Program in this catalog.) Variable Credit (1-3).

MUSI 4069. Special Topics. 3 Hours.

MUSI 4110. Practicum In Music Therapy III. 1 Hour.
Supervised pre-internship clinical experience in community settings. MUSI 4395 must be taken concurrently.
Prerequisite: MUSI 3117.

MUSI 4111. Practicum In Music Therapy IV. 1 Hour.
Supervised pre-internship experience in community settings. MUSI 4396 music be taken concurrently.
Prerequisite: MUSI 3117.

MUSI 4117. Recital. 1 Hour.
A public solo performance reflecting the work of one full semester of preparation at the upper division level under supervision of the applied music faculty. The student must be concurrently enrolled for applied music instruction and must have his/her program approved by his/her professor. A Recital Hearing must be passed at least two weeks prior to the scheduled performance.

MUSI 4224. Conducting II. 2 Hours.
The study and application of advanced conducting technique as applied to instrumental and choral ensembles with emphasis on the development of analytical and interpretative skills. Three hours lecture.
Prerequisite: MUSI 2226; MUSI 2222 and MUSI 2224 with a C or better; or consent of instructor.

MUSI 4322. Keyboard Pedagogy I. 3 Hours.
Focus on private/applied pedagogy, including the study, research, observation and application of various methodologies.
Prerequisite: Junior standing or permission of instructor.

MUSI 4340. Nonprofit Arts Administration. 3 Hours.
This course will offer a practical and in-depth study of financial, marketing, governance, and structures of nonprofit arts organizations.
Prerequisite: MUSI 2238 and 15 completed semester hours.

MUSI 4341. Music Industry. 3 Hours.
This course presents an overview of the industry established to sell music as a commodity. Students will examine the working relationship between the various entities that produce, market and sell music. Topics will include recording, career development, internet issues, publishing, artist management, and concert promotion.
Prerequisite: Completion of 15 semester hours.

MUSI 4361. Tchq For Wind & String Instru. 3 Hours.
A study of the literature, methods, and teaching techniques of wind and string instruments. Performance majors may take this course by conference.

MUSI 4362. Vocal Pedagogy & Techniques. 3 Hours.
Introduction to the teaching of voice, in both the private and group settings. Students will survey different schools of approach and study of the physiology of singing.
Prerequisite: Junior standing.

MUSI 4365. Counterpoint And Analysis. 3 Hours.
A focused study of some of the forms and highly contrapuntal works of J.S. Bach with an emphasis on creative projects. The understanding of the contrapuntal devices examined in this course will enhance the student?s understanding of polyphony in Western music from all periods.
Prerequisite: MUSI 2223 with a C or better.

MUSI 4373. Electronic Music. 3 Hours.
Gives students an understanding of the relationships between theory and composition. This includes original and imitative work in composition, experience with acoustic and electronic media and a basic understanding of the relationships among musical structures.
Prerequisite: MUSI 2223 and MUSI 2224 with a C or better or permission of instructor.

MUSI 4374. 20th Century Musical Styles. 3 Hours.
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MUSI 4375. Film Scoring. 3 Hours.
A study of traditional and computer based film scoring techniques as well as orchestration skills required for non-traditional instruments.
Prerequisite: MUSI 3362, junior standing or permission of instructor.

MUSI 4384. Adv Keyboard Sightreading. 3 Hours.
This course will help students understand the multi-faceted aspects that sight-reading entails and will teach the ability to isolate these aspects. Exercises will improve the individual?s ability to sight-read.
Prerequisite: Junior standing or permission of instructor.

MUSI 4385. Advanced Keyboard Harmony. 3 Hours.
Piano majors and concentrates will experience a broader keyboard harmony training, encounter new musical challenges and reach new heights of music making. Training as artistic collaborators and soloists.
Prerequisite: Junior standing or permission of instructor.

MUSI 4395. Mus Therapy Tchnq II. 3 Hours.
A study of music therapy procedures used with adults in psychiatric and aging adult settings and an examination of issues concerning the use of music therapy within these populations. MUSI 4110 must be taken concurrently.
Prerequisite: MUSI 3365.

MUSI 4396. Mus Therapy Tchnq III. 3 Hours.
A seminar presentation of contemporary issues in the field of music therapy. MUSI 4111 must be taken concurrently.
Prerequisite: MUSI 3365.

MUSI 4397. Internship In Music Therapy. 3 Hours.
First three-month period of supervised clinical experience at site approved by the American Music Therapy Association (AMTA).
Prerequisite: Completion of all coursework.

MUSI 4398. Internship In Music Therapy. 3 Hours.
Second three-month period of supervised clinical experience.
Prerequisite: Completion of all coursework.

Music Ensemble (MUEN)

MUEN 1110. Keyboard Skills & Collab Techn. 1 Hour.
(SH Prior Course ID: ENS 110); The class provides the training necessary for pianists to work as collaborators with vocalists and instrumentalists. Emphasis is placed on efficient learning techniques, culminating in a live performance.

MUEN 1111. Mixed Chorus. 1 Hour.
(SH Prior Course ID: ENS 111); This course provides students excellent training in choral singing and experience in rehearsal techniques, understanding of choral repertoire and training in performance practices. The course deals with proper tone production, phrasing and musical performance.

MUEN 1115. Jazz Band. 1 Hour.
(SH Prior Course ID: ENS 115); This course focuses on the musical and technical aspects of performing with a jazz ensemble. The course includes rehearsals and at least two live performances per semester.

MUEN 1116. Band. 1 Hour.
(SH Prior Course ID: ENS 116); The course is for students who have performed in marching bands in high school and want to continue that experience at the university level. Students perform intricate marching drills and play stunning, powerful music specifically writing for the BearKat Marching Band. The Band performs for football games and other major events.

MUEN 1117. Orchestra. 1 Hour.
(SH Prior Course ID: ENS 117); This course is a performance based experienced for students playing string, woodwind, brass or percussion instruments. The course emphasizes music of the major periods of music written for the symphony orchestra.

MUEN 1118. Chamber Music. 1 Hour.
(SH Prior Course ID: ENS 118); The class will develop and refine rehearsal skills, ensemble techniques, listening and interpretive skills through the preparation of chamber music. Student chamber groups will work with a coach on a weekly basis and participate in a live performance.

MUEN 1119. Opera Workshop. 1 Hour.
(SH Prior Course ID: ENS 119); This course examines the technical and practical applications of participating and performing in an opera production. The main focus is on developing proper vocal technique and using proper vocal production skills to perform areas and scenes from operas.

MUEN 2116. Wind Ensemble. 1 Hour.
(SH Prior Course ID: ENS 216); This course is for advanced woodwind, brass and percussion player. The music is demanding and exciting. The ensemble plays a wide variety of music for the wind ensemble.

MUEN 2159. Production Workshop. 1 Hour.
(SH Prior Course ID: ENS 219); This course focuses on production values (lighting, staging, costumes, make up) associated with producing concerts, recitals, shows and special events.

MUEN 3110. Collaborative Piano Chambr Mus. 1 Hour.
(SH Prior Course ID: ENS 310); This course offers training and experience for skilled piano players who need to learn the art of accompanying in the chamber music setting.

MUEN 3111. Mixed Chorus. 1 Hour.
(SH Prior Course ID: ENS 311); This course provides students excellent training in choral singing and experience in rehearsal techniques, understanding of choral repertoire and training in performance practices. The course deals with proper tone production, phrasing and musical performance.

MUEN 3112. Musical Theatre Ensemble. 1 Hour.
(Prior SH course id: ENS 312); This course focuses on the musical and technical aspects of performing in a Broadway/Musical Theatre chorus. Score study will be addressed. The course includes rehearsals and two live performances each semester.

MUEN 3115. Jazz Band. 1 Hour.
(SH Prior Course ID: ENS 315); This course focuses on the musical and technical aspects of performing with a jazz ensemble. The course includes rehearsals and at least two live performances per semester.

MUEN 3116. Band. 1 Hour.
(SH Prior Course ID: ENS 316); The course is for students who have performed in marching bands in high school and want to continue that experience at the university level. Students perform intricate marching drills and play stunning, powerful music specifically writing for the BearKat Marching Band. The Band performs for football games and other major events.

MUEN 3117. Orchestra. 1 Hour.
(SH Prior Course ID: ENS 317); This course is a performance based experience for students playing string, woodwind, brass or percussion instruments. The course emphasizes music of the major periods of music written for the symphony orchestra.

MUEN 3118. Chamber Music. 1 Hour.
(SH Prior Course ID: ENS 318); The class will develop and refine rehearsal skills, ensemble techniques, listening and interpretive skills through the preparation of chamber music. Student chamber groups will work with a coach on a weekly basis and participate in a live performance.
Prerequisite: Junior standing or permission of the instructor.

MUEN 3119. Opera Workshop. 1 Hour.
(SH Prior Course ID: ENS 319); This course examines the technical and practical applications of participating and performing in an opera production. The course includes rehearsals and a live performance of opera scenes.
Prerequisite: Junior standing or permission of instructor.

MUEN 4116. Wind Ensemble. 1 Hour.
(SH Prior Course ID: ENS 416); This course is for advanced woodwind, brass and percussion player. The music is demanding and exciting. The ensemble plays a wide variety of music for the wind ensemble.

Musical Theatre Voice (MTVO)

MTVO 1201. Musical Theatre Applied Voice. 2 Hours.
This course consists of private one-on-one study of vocal techniques that are appropriate to healthy vocal performance. Study focuses on performance of musical Theatre styles and repertoire.

MTVO 3100. Platform Performances. 1 Hour.
This course has a performance based focus for junior and senior musical theatre majors. Students create performances of scenes from the musical theatre canon. Credit 1Corequisite: MTVO 3201
Prerequisite: MTVO 1201 and junior or senior musical theatre major .

MTVO 3201. Musical Theatre Applied Voice. 2 Hours.
This course consists of private one-on-one study of vocal techniques that are appropriate to healthy vocal performance. Study focuses on performance of musical Theatre styles and repertoire.

Newton Gresham Library (NGLI)

NGLI 1101. Research in the Digital Age. 1 Hour.
New researchers are often overwhelmed by the sheer amount of information available on the Internet. This course teaches students to efficiently search online academic, popular, and professional resources and evaluate their credibility. The life-long skills learned from this class will prepare students to be more effective researchers.

Nursing (NURS)

NURS 3250. Envisioning Nursing Practice. 2 Hours.
A variety of formal and informal resources including evidence-based data will be used to orient students to the roles that nurses assume and the settings in which nursing practice meets the diverse health needs of clients. Standards of professional nursing practice and nursing theorists are introduced along with the philosophy of the school of nursing. To facilitate students' acquisition of knowledge of nursing and other disciplines, a bibiolgraphic unit is included in the course. Pre-requisite: Acceptance into the nursing program.

NURS 3251. Cultural Perspectives in Nursg. 2 Hours.
This course provides nursing students an opportunity to explore healthcare practices of cultures that are different from the student?s native culture. With readings, didactic learning, and experiential learning, the student will assess a community?s culture, identify a healthcare need, conduct a small project, and evaluate the results of the project. Through self- reflection, the student will gain an awareness and appreciation of self and others within the context of healthcare in different cultures.

NURS 3310. Health Assessment. 3 Hours.
Concepts and principles underlying assessment of the health status of individuals are presented. Emphasis is placed on interviewing skills, health histories, and the physical and psychosocial findings in the well person, plus the development of communication in the nurse-client relationship and assessment skills. Students implement the nursing process by obtaining health histories, performing physical and psychosocial assessments, establishing a baseline database, and formulating initial nursing plans. (Class 2 hours weekly, Clinical/Lab 3 hours weekly.) Corequisites: NURS 3320, NURS 3321, NURS 3530.
Prerequisite: Admission to SHSU nursing program.

NURS 3320. Pathophysiology for Nursing. 3 Hours.
Students are introduced to pathophysiological alterations in major regulatory mechanisms of the body. Special consideration is given to the clinical application of pathophysiologic concepts and principles in professional nursing practice. A foundation is provided for understanding general nursing practice, various diagnostic procedures, and selected therapeutic regimens. Critical thinking, correct use of related terminology and effective decision-making are incorporated to provide safe care. Co-requisite: NURS 3410, NURS 3530, and NURS 3321.
Prerequisite: Admission to the School of Nursing.

NURS 3321. Pharmacology for Nursing. 3 Hours.
Students are introduced to pharmacological implications and related alterations in major regulatory mechanisms of the body. Special consideration is given to the clinical application of pharmacological concepts and principles in professional nursing practice. A foundation is provided for understanding nursing implications, basic drug classifications, and selected pharmacological therapies. Critical thinking and effective decision-making are incorporated to provide safe care. Co-requisite: NURS 3410, NURS 3530, and NURS 3320.
Prerequisite: Admission to the School of Nursing.

NURS 3340. Older Adult Health Management. 3 Hours.
This course focuses on nursing interventions used to promote, maintain, and restore health in older adult clients. It provides students with opportunities to expand knowledge of the normal aging process; to identify variables that contribute to deviations in health; to discuss how formal and informal resources including evidence-based data contribute to older adults' health status; and to examine the implications of working collaboratively with individuals, families and communities to meet the health care needs of older adults. (Class: 2 hours weekly Clinical/Lab: 6 hours weekly)
Prerequisite: NURS 3410, NURS 3420, and NURS 3430.

NURS 3350. Pharmacology in Nursing. 3 Hours.
This course introduces the major classifications of medications along with their safe administration. The nursing process is used as a basis to promote, maintain, and restore health or alleviate symptoms in clients of all ages with a variety of healthcare needs. Pharmacology assists students to develop psychomotor and critical thinking skills and to refine assessment, decision-making and communication skills. Pre-requisite: Acceptance into the nursing program.

NURS 3351. Nursing Concepts I. 3 Hours.
A variety of formal and informal resources including evidence-based data will be used to orient students to the roles that nurses assume and the settings in which nursing practice meets the diverse health needs of clients. Standards of professional nursing practice and nursing theorists are introduced along with the philosophy of the School of Nursing.
Prerequisite: NURS 3410, NURS 3320, NURS 3321 and NURS 3530.

NURS 3360. Introduction to Research. 3 Hours.
This course focuses on fundamental concepts and processes of nursing research and emphasizes nursing research as a basis for evidence-based practice. Students will examine major steps in the research process, formulate research questions relevant to clinical nursing practice, and critique nursing research reports. Admission to the BSN or RN-BSN program.
Prerequisite: NURS 3410, NURS 3420, NURS 3430.

NURS 3370. RN-to-BSN Role Transition. 3 Hours.
This course is designed to meet the needs of a registered nurse (RN) with a 2-year associate's degree or diploma who desires to earn a bachelor of science in nursing (BSN) degree. In this course, students will explore the role of the professional nurse as a provider of holistic, culturally sensitive, client-centered care. Other concepts to be explored include advocacy, evidence-based practice, care quality and safety, interdisciplinary communication and collaboration, genetics and genomics, and informatics. The significance of nursing theory as a basis for professional nursing practice and competency in applying nursing diagnoses will also be explored.
Prerequisite: Admission to the RN-to-BSN Program.

NURS 3420. Pathophysiology and Pharmacology for Nursing. 4 Hours.
An introduction to pathophysiological and fundamental principles of pharmacological alterations in major regulatory mechanisms of the body. Special consideration of the nursing role in developing a comprehensive approach to the clinical application of pharmacologic concepts and principles to professional nursing practice. Provides a foundation for understanding general nursing practice, various diagnostic procedures, basic drug classifications, nursing implications relative to the utilization of drug therapy and selected therapeutic regimens. This course is designed to enhance critical thinking and promote effective decision-making for safe and effective care. 4 credit hours.
Prerequisite: Admission to SHSU nursing program.

NURS 3540. Psychiatric/Mental Health Nursing. 5 Hours.
This course demonstrates the relevance of psychosocial nursing concepts to all areas of professional practice. It provides a conceptual integration of the nursing process, theories, and research from psychosocial sciences and humanities as these relate to the care of persons with mental disorders. Clinical experience provides an opportunity for application of psychosocial concepts and methods in using the nursing process to promote optimal levels of wellness for individuals, families, and target groups. It also provides students with the opportunity to develop clinical decision-making abilities when providing appropriate and culturally relevant psychiatric/mental health nursing care. (Class: 2 hours weekly Clinical/Lab: 9 hours weekly) 5 Credit Hours. Corequisites: NURS 3620.
Prerequisite: NURS 3530 or 3560, NURS 3410, NURS 3320 and NURS 3321.

NURS 3620. Adult Health 1. 6 Hours.
This course introduces the student to the use of the nursing process in the care of adults with chronic or non-complex illness. The course uses a systems approach to discuss the effects of illness on the individual and family and to examine the disruption of growth and development patterns across the lifespan from young adult to senior years, emphasizing the nursing process to assist adults in reaching their optimal level of wellness. The course includes a clinical laboratory to allow the student the opportunity to apply theoretical concepts to clinical practice in diverse adult populations. (Class: 3 hours weekly Clinical/Lab: 9 hours weekly) 6 Credit Hours.
Prerequisite: NURS 3320, NURS 3321, and NURS 3530 or NURS 3560.

NURS 3631. Nursing Fundamentals. 6 Hours.
This course provides an introduction to the scope of human needs, use of the nursing process as a systematic approach to meeting those needs, and the role of the professional nurse in assisting individuals toward optimal health. Clinical settings are used in the application of fundamental concepts, principles of nursing, and communication skills that are employed in providing basic client care. (Semester totals: Class: 3 hours weekly and Clinical/Lab 9 hours weekly) 6 credit hours.
Prerequisite: Admission to SHSU nursing program .

NURS 3660. LVN-to-BSN Role Transition. 6 Hours.
This course meets the needs of a licensed vocational nurse (LVN) desiring to earn a bachelor's degree in nursing (BSN) and become a registered nurse (RN). Students explore the role of the professional nurse as a provider of holistic, culturally sensitive, client-centered care. Students apply critical thinking and the nursing process to clients experiencing non-complex common health problems. Other concepts include client advocacy, interdisciplinary collaboration, and professional nursing. (Class 4 hours weekly, Clinical/Lab 6 hours weekly.) Corequisite: NURS 3410, NURS 3320, and NURS 3321.
Prerequisite: Admission to the LVN to BSN Program.

NURS 4030. Community Nursing. 6 Hours.
This course focuses on the synthesis of public health concepts within a preventive framework to promote and maintain the health of communities and includes an examination of the historical development, philosophy, health care systems, epidemiology, and nursing care of specific populations and groups in the community. Primary, secondary, and tertiary levels of prevention are emphasized as they relate to the natural history of disease in individuals, families, and groups. A community health assessment is completed using census data, morbidity and mortality rates, epidemiologic and statistical methods, and community-based research. Progressively more independent behaviors are expected of students in community health practice. (Class: 3 hours weekly Clinical/Lab: 9 hours weekly.) Variable Credit (1-6). For non-RN students - NURS 4030, NURS 4520, and NURS 4540.
Prerequisite: For RN-BSN - Admission to the RN-BSN program.

NURS 4060. Leadership and Management. 6 Hours.
This course focuses on the knowledge and skills related to the delivery of health services from a nursing management knowledge-base. It presents theories, concepts, and models of health care delivery. Students explore creative roles for managing and leading in nursing. They will gain theoretical knowledge and skills to understand organizations, understand leadership theories, and utilize critical thinking in making nursing management decisions. (Class: 2 hours weekly Clinical/Lab: 12 hours weekly.) Variable Credit (1-6). For Non-RN students - NURS 4030, NURS 4520, and NURS 4540.
Prerequisite: For RN-BSN program - Admission to the RN-BSN program.

NURS 4092. Independent Study Nursing. 1-3 Hours.
Independent Study. Individual study in specialized areas of nursing. To be directed and approved by the nursing advisor. Variable credit (1 to 3).
Prerequisite: Admission to SHSU nursing program.

NURS 4095. Special Topics in Nursing. 1-3 Hours.
Special Topics. Individual or group study in specialized areas of nursing. To be directed and approved by the nursing advisor. This course is designed to be a multi-topic course. The student can take the course under various special topics being offered. Variable credit (1 to 3).
Prerequisite: Admission to SHSU nursing program.

NURS 4250. Concepts in Nursing Practice II. 2 Hours.
This course provides the opportunity for students to synthesize issues such as career development, health policy, and workplace advocacy, into their working method. Other issues including information technology, ethics, and cultural awareness (which have been previously introduced) are explored more thoroughly to assist the graduate's entry into practice. 2 Credit Hours. Co-requisites: NURS 4620 and NURS 4060.
Prerequisite: NURS 4520, 4540, and 4030.

NURS 4372. RN-to-BSN Capstone. 3 Hours.
This course will integrate the knowledge, theories, and concepts RN-to-BSN students have learned throughout the program. Students will assimilate knowledge from nursing and related disciplines for analysis of a current health issue and the professional nurse's role in impacting change.
Prerequisite: NURS 3360 and NURS 4060.

NURS 4381. Legal & Ethical Issues in Nurs. 3 Hours.
This course explores current ethical and legal issues that affect the nursing profession. The course also looks at past and present legal issues that affect nursing. Students learn about various theories and tools that can be used to assist them in resolving ethical dilemmas.
Prerequisite: Admission to the RN-BSN Program.

NURS 4382. Informatics. 3 Hours.
Students in this course will learn to integrate nursing science and computer technology in order to identify, collect, process, and manage information. Course emphasis is placed on health applications that support clinical, administrative, research, and educational decision making, as well as enhance the efficacy of nursing processes.
Prerequisite: Admission to the RN-BSN Program.

NURS 4383. Rural Health Nursing. 3 Hours.
This course explores the various unique healthcare needs, trends, and issues faced by rural settings. Students will have an opportunity to explore possible solutions to healthcare problems as they examine evidence-based data in the literature. Rural nursing theories will be applied to standards of professional nursing practice.
Prerequisite: Admission to the RN-BSN Program.

NURS 4384. Nursing Genetics and Genomics. 3 Hours.
This course will emphasize health promotion and maintenance for individuals and families within the context of human diversity and the implications for best practices associated with genomic information, including ethics and genetic counseling. Students will learn about the genomic determinants of health.
Prerequisite: Admission to RN-BSN program.

NURS 4520. Nursing Care of Infants, Children & Adolescents. 5 Hours.
This course uses the nursing process to promote, protect and maintain the health of infants, children and adolescents and it provides students with the knowledge and skills needed to develop the cognitive, psychomotor and affective skills necessary for therapeutic interventions of these populations. Students will examine the biological and psychosocial parameters, legal and ethical dimensions, resources, and cultural influences affecting nursing care strategies for infants, children and adolescents. (Class: 3 hours weekly Clinical/Lab: 6 hours weekly) 5 Credit Hours. Corequisites: NURS 4540, NURS 4030. .
Prerequisite: NURS 3620 and NURS 3540.

NURS 4540. Women's Hlth and Matern NB Nur. 5 Hours.
This course examines childbearing families and women?s health in normal and high-risk situations and the role of the nurse in meeting health needs of women, families and their newborns. Supervised clinical experiences and/or simulation experiences in the application of the nursing process in meeting these health needs are offered and promotes the acquisition of skills in caring for women, families and newborns during uncomplicated and/or complicated health experiences in a variety of settings. (Class: 2 hours weekly Clinical/Lab: 6 hours weekly) 4 Credit Hours. Corequisites: NURS 4520, NURS 4030.
Prerequisite: NURS 3620, NURS 3540.

NURS 4610. Adlt Hlth II/Psy Ment Hlth Lab. 6 Hours.
(Prior SH course id: NUR 461); This course focuses on the acquisition of knowledge necessary to meet clients' mental health needs across the lifespan. It also provides students with the opportunity to develop a foundation for clinical decision making which encompasses significant nursing interventions in providing appropriate and culturally relevant psychiatric/mental health nursing care. Pre-requisite: Acceptance into the nursing program.

NURS 4620. Adult Health II. 6 Hours.
This course presents to the senior students critical thinking and problem-solving strategies for care of adults with acute or complex illness and injuries. The effects of acute illness are examined in relation to the injury, as well as in relation to the individual's developmental stage, culture, and gender. Building on the Nursing Care of Adults Health I, a systems approach is used to analyze and intervene in alterations to the health of the individual and family, and to help them reach their optimal level of wellness. The course includes clinical laboratory to allow the student the opportunity to integrate theoretical concepts into clinical practice in diverse populations. (Class: 3 hours weekly Clinical/Lab: 9 hours weekly) 6 Credit Hours.
Prerequisite: NURS 4030, NURS 4520 and NURS 4540.

Oboe (OBOE)

OBOE 1201. Ind Performances-Oboe. 2 Hours.

OBOE 3201. Ind Performances-Oboe. 2 Hours.

OBOE 3202. Applied Oboe With Jr Recital. 2 Hours.

Organ (ORGN)

ORGN 1201. Ind Performances-Organ. 2 Hours.

ORGN 3201. Ind Performances-Organ I. 2 Hours.
The course consists of individualized private instruction on the organ. Instruction will focus on technique and musicality. Students will also attend a weekly studio class, where there will be opportunities to perform for fellow students. Credit 2
Prerequisite: Students must have passed a sophomore barrier jury.

ORGN 3202. Applied Organ With Jr Recital. 2 Hours.

Percussion (PERC)

PERC 1201. Ind Performances-Percussion. 2 Hours.

PERC 3201. Ind Performances-Percussion. 2 Hours.

PERC 3202. Applied Percussion W/ Jr Rectl. 2 Hours.

Philosophy (PHIL)

PHIL 1301. Introduction To Philosophy. 3 Hours.
A general examination of the fields and issues of philosophy as discussed by both classical and modern philosophers. Philosophical problems discussed include the existence of God, the nature of knowledge and truth, the issue of human free will, and theories of moral judgement.

PHIL 2303. Critical Thinking. 3 Hours.
Designed to improve students? ability to think critically. The course covers the fundamentals of deductive reasoning, the identification of common fallacies, and an introduction to inductive reasoning, as well as sensitizing the students to some of the ways information is distorted, e.g., by advertising and news management.

PHIL 2306. Contemporary Moral Issues. 3 Hours.
A study of major moral issues in contemporary society. Includes topics such as abortion, euthanasia, censorship, capital punishment, and other issues that confront today's society.

PHIL 2352. Introduction to Contemporary Logic. 3 Hours.
Introduces the student to the principles of ordered thought and to the terminology and rules of symbolic logic. Discusses the logic of statements and the logic of predicates, qualifiers, and identity.

PHIL 3364. Ancient & Medieval Philosophy. 3 Hours.
A survey of philosophical thought from the time of the pre-Socratics to about 1500. Includes the study of the work of Socrates, Plato, Aristotle, the Hellenistic schools, and medieval philosophy through the late scholastic period. The artistic, scientific, ethical, political and general cultural ramifications of the major systems of thought are noted.

PHIL 3365. Modern Philosophy. 3 Hours.
A survey of philosophical thought from about 1500 through the twentieth century. The course will examine the philosophical significance of the rise of modern science, the classical philosophies of rationalism, empiricism, the philosophy of Kant, and the development of these philosophies through the nineteenth and twentieth centuries.

PHIL 3366. Aesthetics. 3 Hours.
An inquiry into the nature and meaning of art. Analysis of aesthetic experience, the relation of art to value, and an examination of aesthetic theories concerning representation, form and expression. This course satisfies 3 semester hours of the fine arts requirement for the BA degree program.

PHIL 3367. Philosophy Of Religion. 3 Hours.
An examination of the nature and meaning of religion and religious expression. Philosophical and scientific critiques of religious faith and experience are considered. The nature of faith and reason, the question of the existence and nature of God, and the relation of religion and value are typical course topics.

PHIL 3371. Existentialism& Self-Awareness. 3 Hours.
An examination of the major themes of existentialism and its impact on contemporary society. Existential works from literature, psychology, psychoanalysis, and religion are included. Examines the existential concepts of anxiety, fear, guilt, meaninglessness, death, and authentic and inauthentic existence. Taught with PSYC 3371.

PHIL 3372. Philosophy Of Science. 3 Hours.
A survey of topics in philosophy of science including the logic of explanations in the physical and social sciences, the relations of science to the realm of values, and a look at the ?mind-body problem?.

PHIL 3373. American Philosophy. 3 Hours.
Students in this course survey key figures and ideas of the American intellectual tradition. The course is organized around the themes of democracy, freedom, cultural and racial identity, ethical and religious pluralism, and interpretations of nature from various perspectives, including current developing traditions such as African American, Native American, and Feminist movements.

PHIL 4306. Philosophy of Biology. 3 Hours.
A seminar course investigating philosophical questions concerning the development and application of evolutionary theory. This course addresses issues relating to concepts such as adaptation, speciation, the comparative method, levels of selection, and phylogenetic reconstruction. Even year, Spring.

PHIL 4333. Bioethics. 3 Hours.
This course is a survey of bioethics. In this class students will use various ethical theories and moral principles to analyze and critically evaluate moral dilemmas in medicine. This course covers a broad range of issues including: 1) the patient-physician relationship, 2) bias in medicine, 3) health care delivery systems and 4) the ethics of research. To enhance critical thinking skills and decision making skills, students will be required to develop and defend views on given bioethical issues. Credit: 3.
Prerequisite: Sophomore standing.

PHIL 4361. Philosophy of Psych and Mind. 3 Hours.
This course will examine a range of contemporary theories of mind and the primary objections they face. Topics may include: Mind/brain identity theory and reductionism, the nature and function of consciousness, the nature of rationality and its relation to consciousness, the possibility of machine intelligence, and the nature of mental representation.

PHIL 4363. Ethical Theories. 3 Hours.
This course will cover classical views about the foundation of ethics such as divine commands, cultural relativism, subjectivism, egoism, utilitarianism, Kantianism, and virtue ethics. Significant attention will also be given to a variety of contemporary approaches to understanding ethics.

PHIL 4371. Death And Dying. 3 Hours.
An examination of the philosophical reflections on death and dying from the literature of philosophy, psychology, theology, medicine and other contemporary sources. Course includes discussions of the nature of grief, sorrow, anxiety, fear, and suicide as related to death, and the social implications of death for the individual, family, friends, and community.

PHIL 4372. Theories Of Knowledge& Reality. 3 Hours.
This course is a study of issues concerning the basic categories of reality such as individuals and universals, time and change, mind and body. A study of issues in the theory of knowledge such as the distinction between knowledge and belief, the criteria of knowledge, and the justification of knowledge claims is also examined.
Prerequisite: 6 hours of philosophy and sophomore standing.

PHIL 4373. Phil in Film & Literature. 3 Hours.
Through carefully selected pairings of philosophical texts and films, this course seeks to establish and develop philosophical literacy by highlighting the ways in which canonical philosophical works have informed the content and structure of works of film and literature.
Prerequisite: 3 hours of philosophy and at least sophomore standing.

PHIL 4380. Seminar In Philosophy. 3 Hours.
Affords students a chance for in-depth study of a particular topic or area in philosophy not covered fully in the other course offerings and a chance for participation in a course conducted on a seminar basis. As the topics vary, the course may be repeated for credit.

PHIL 4385. Readings In Philosophy. 3 Hours.
This course is designed especially for advanced students who are capable of independent study. The particular program of study for the course must be discussed in advance with the prospective instructor.
Prerequisite: Admission to the course requires permission of the instructor.

Physics (PHYS)

PHYS 1101. General Physics Laboratory I. 1 Hour.
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Prerequisite: MATH 1410 or MATH 1316 or MATH 1420.

PHYS 1102. General Physics Laboratory II. 1 Hour.
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PHYS 1105. Class Phy & Thermodynamics Lab. 1 Hour.
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PHYS 1301. General Phy-Mechanics & Heat. 3 Hours.
A modern treatment is made of the laws and principles of mechanics and heat. Derivations are carefully done using a non-calculus approach and considerable problem work is required. The laboratory work consists of quantitative experiments.
Prerequisite: MATH 1410 or MATH 1316 or MATH 1420 with a grade of C or better.

PHYS 1302. Gen Phy-Snd,Lght, Elec, & Mag. 3 Hours.
The course is a continuation of PHYS 1301, covering the subjects of sound, light, electricity and magnetism. The same emphasis is placed on derivations and problem solving as in PHYS 1301. The laboratory work consists of quantitative experiments.
Prerequisite: PHYS 1301 and MATH 1316 or MATH 1410 or MATH 1420.

PHYS 1305. Classical Physics & Thermdynmc. 3 Hours.
This is an elementary course covering the fundamentals of motion, forces and heat.

PHYS 1401. Physics Boot Camp. 4 Hours.
This course reviews the essential survival-level skills of problem analysis required for the first two years of the pre-engineering and physics curricula. It provides familiarity with the core problem-solving tools required for the first two years of work in these majors. A weekly problem recitation session is integrated.
Prerequisite: Departmental approval.

PHYS 1403. Stars & Galaxies. 4 Hours.
The study of the universe beyond the solar system. Topics include the nature of stars, stellar evolution, galaxies, quasars, cosmology, the universe as a whole, and theories about the origin and fate of the universe. Along the way, students will be introduced to tools astronomers use to determine such properties as temperatures, compositions, motions, masses, and evolution of astronomical objects.

PHYS 1404. Solar System Astronomy. 4 Hours.
The study of the solar system as well as other planetary systems. Topics include the nature of science, apparent motions in the sky, the historical development of the laws governing the solar system, the structure and membership of solar system objects, the formation of the solar system, and extrasolar planets and our understanding of other solar systems.

PHYS 1411. Introduction To Physics I. 4 Hours.
A thorough introduction to the more general topics in mechanics. Considerable attention is given to the solution of problems with the emphasis placed on fundamental concepts. A laboratory/problem session is an integral part of the course. Prerequisites MATH 1420 with a C or better.

PHYS 1422. Introduction To Physics II. 4 Hours.
An introduction to the general topics of electricity and magnetism, and basic electrical circuits. The emphasis continues to be on problem solving with the laboratory/problem session an integral part of the course.
Prerequisite: PHYS 1411 and MATH 1430 with a C or better.

PHYS 2426. Heat, Waves & Modern Physics. 4 Hours.
An introduction to topics in heat and wave motion including sound and light. The quantitative description of phenomena is emphasized. The laboratory continues as an integral part of the course.
Prerequisite: PHYS 1411 and MATH 1420.

PHYS 3111. Modern Physics Laboratory I. 1 Hour.
Modern Physics Lab.
Prerequisite: Grade of C or better in PHYS 1422.

PHYS 3115. Electronic & Circuit Anlys Lab. 1 Hour.
Prerequisites: Minimum grade of C in PHYS 1422.

PHYS 3117. Astronomy Laboratory. 1 Hour.
1 Credit.

PHYS 3360. Statics And Dynamics. 3 Hours.
Study of equilibrium, kinematics and dynamics of particles and rigid bodies using concepts of force, mass, and energy, and momentum. Vectors, calculus and differential equations are used.
Prerequisite: PHYS 1411 and MATH 2440.

PHYS 3370. Intro To Theoretical Physics. 3 Hours.
This course covers the relationship of theoretical physics and mathematics. It will help the students apply mathematics to problems in physics with emphasis on the theoretical aspects of classical mechanics, electromagnetism, wave mechanics, and computational physics.
Prerequisite: PHYS 1422 and MATH 2440 with a grade of C or better.

PHYS 3391. Modern Physics I. 3 Hours.
Relativity is introduced, quantum theory of light, Compton effect, photoelectric effect, Bohr atom, particles as waves, quantum mechanics in one dimension, tunneling, and atomic structure are covered. PHYS 3111 must be taken concurrently.
Prerequisite: Minmum grade of C in MATH 2440 and PHYS 1422.

PHYS 3395. Electronics & Circuit Analysis. 3 Hours.
Active circuit analysis, analog and digital integrated circuits, selected discrete components, and application to certain digital and analog systems are studied. PHY 315 must be taken concurrently.
Prerequisite: Grade of C or better in PHYS 1422.

PHYS 3397. Astronomy. 3 Hours.
A study is made of the solar system, sun, stars, and stellar systems, their motions, structure, energy sources and evolution, star clusters, interstellar matter, galaxies, and cosmology.
Prerequisite: PHYS 3117 must be taken concurrently.

PHYS 3398. Astronomy-Honors. 3 Hours.

PHYS 4110. Adv Undergrad Laboratory I. 1 Hour.
This laboratory course provides additional, in-depth laboratory experience for physics majors and minors and transfer students. It will emphasize measurement and data handling.

PHYS 4113. Light And Optics. 1 Hour.
Credit 1.

PHYS 4331. Physics For Forensic Sciences. 3 Hours.
Forensic science makes use of a number of physical techniques. This course is designed to provide a student with an understanding of the physics used in forensic science that enhances the standard introductory physics course. Topics covered include interior and exterior ballistics, optics, stress and strain, elementary fluid mechanics.

PHYS 4333. Light And Optics. 3 Hours.
The wave theory of light is emphasized. The phenomena of interference, diffraction and polarization are treated both theoretically and in selected laboratory experiments. The theory and applications of lasers are discussed and investigated in the laboratory.
Prerequisite: PHYS 1422 with a C or better.

PHYS 4366. Intro Quantum Mechanics. 3 Hours.
This course includes introductory quantum mechanics, application of quantum theory to the harmonic oscillator, potential barriers, the hydrogen atom, theory of atomic spectra, the free electron, and elementary band theory of solids.
Prerequisite: PHYS 3391, MATH 3376 and MATH 3391 with a grade of C or better.

PHYS 4367. Intro To Solid State Physics. 3 Hours.
This course introduces the concepts of crystal structure, crystal diffraction, reciprocal lattices, crystal binding, phonons, free electron Fermi gas, semi-conductors, energy bands, Fermi surfaces, point defects, and optical properties of crystals.
Prerequisite: Minimum grade of C in PHYS 3391.

PHYS 4368. Electricity And Magnetism. 3 Hours.
Properties of dielectrics and magnetic materials, electromagnetic fields, and Maxwellis equations are studied.
Prerequisite: Minimum grade of C in MATH 3376 and PHYS 1422.

PHYS 4370. Classical Mechanics. 3 Hours.
The dynamics of rigid bodies, vibrating systems and normal coordinates, and other selected topics of advanced mechanics are stressed. Lagrangian and Hamiltonian concepts are introduced.
Prerequisite: MATH 3376.

PHYS 4371. Thermodynamcs & Statistcl Mech. 3 Hours.
Basic concepts of classical thermodynamics, including the first and second laws, properties of gases, entropy, thermodynamic functions, and introductory statistical mechanics are studied.
Prerequisite: PHYS 3391 and MATH 3376.

PHYS 4395. Undergraduate Research. 3 Hours.
This course consists of special projects or topics in experimental or theoretical physics for individual physics students. Each student pursues an approved project of interest to him, or he may participate in one of the organized research programs conducted by the physics faculty. The projects are supervised by the physics faculty, but each student is expected to demonstrate individual initiative in planning and conducting the research program or topic. The course may be repeated for an additional three semester hours credit with consent of Department Chair. This course should be taken in addition to hours required for physics major or minor and may be taken for Academic Distinction Credit. See Academic Distinction Program in this catalog.
Prerequisite: Consent of Department Chair.

PHYS 4396. Selected Topics In Physics. 3 Hours.
May be repeated for additional credit.
Prerequisite: Consent of the instructor.

PHYS 4398. Senior Thesis. 3 Hours.
This is a directed elective for senior students majoring in physics seeking additional experience in a sophisticated research project. This research will be conducted under the supervision of a member of the physics faculty and the results will be presented in the form of a thesis.

Piano (PIAN)

PIAN 1201. Ind Performances-Piano. 2 Hours.

PIAN 3201. Ind Performances-Piano. 2 Hours.

PIAN 3202. Applied Piano With Jr Recital. 2 Hours.

Plant & Soil Sciences (PLSC)

PLSC 1107. Plant Science Laboratory. 1 Hour.
Laboratory for AGRI 1307.
Prerequisite: Concurrent enrollment in AGRI 1307.

PLSC 1307. Plant Science. 3 Hours.
(SH Prior Course ID: AGR 165, AGRI 1307) Basic plant morphology, classification, propagation, and crop improvement are topics discussed along with growth and development of crop plants. An introduction to soils, climate, and plant protection follow with a final overview of the major groups of cultivated plants.

PLSC 2375. Turfgrass Science. 3 Hours.
(SH Prior Course ID: AGR 275); A study of the major turfgrass species grown in the U.S. and throughout much of the world. Explores differences in management, culture, and varietal selection for athletic, ornamental, and utility turfs. Credit 3 (Lec 3/Lab 0).
Prerequisite: None.

PLSC 2395. Ornamental Plant Identification. 3 Hours.
Identification, growth characteristics, culture and use of common landscape and greenhouse plants. Materials include trees, shrubs, vines, groundcovers, turf grasses and floriculture crops. Emphasis is placed on temperate region plants.
Prerequisite: PLSC 1307.

PLSC 2396. Spec Top in Plant&Soil Science. 3 Hours.
This course will examine special topics/issues in Plant and Soil Science at an introductory level. This course may be repeated up to three times as topics and subject matter change.

PLSC 2399. Floral Design. 3 Hours.
Principles and elements of design illustrated with the use of floral materials; techniques involved in design and construction of floral arrangements; history and utilization of floral art in society.

PLSC 3374. Production & Mgt Ornamentals. 3 Hours.
This course is designed to cover the principles and techniques involved in the production and management of nurseries and greenhouse crops including ornamental trees, shrubs, annuals, and perennials.
Prerequisite: PLSC 1307 and Sophomore standing.

PLSC 3379. Turfgrass Culture. 3 Hours.
Principles of sexual and asexual propagation of major turf species, soils and rooting media, nutrient management, irrigation, pest control, and selection of appropriate cultivars are covered in this course.
Prerequisite: PLSC 1307 and Sophomore standing.

PLSC 3395. Plant Propagation Techniques. 3 Hours.
Principles and practices involved in propagation of plants are discussed in detail. Emphasis is placed on sexual and asexual methods of propagation and the biochemical/hormonal factors involved. Propagation techniques of several horticultural crops will be covered and practiced.
Prerequisite: PLSC 1307/1107 and Sophomore standing.

PLSC 3398. Landscape Design I. 3 Hours.
This course covers principles, elements, and factors to be considered in preparation, planning, and design of a residential landscape. Emphasis will be placed on the incorporation of plant materials into basic landscape design.
Prerequisite: PLSC 1307 and Sophomore standing.

PLSC 3440. Soil Science. 4 Hours.
An introduction to the physical, biological, and chemical properties of soils and their relationships to soil formation, soil fertility, soil temperature, soil-plant-water relations, pH and liming, and conservation of soils. Environmental issues are also discussed. Sophomore standing.
Prerequisite: PLSC 1307 and CHEM 1306, CHEM 1307, CHEM 1311, or CHEM 1312.

PLSC 4320. Fruit & Vegetable Production. 3 Hours.
This course is a comprehensive study of the fruit and vegetable industry in the United States. Topics of study include climatic requirements, growth characteristics, cultural practices, and pest control strategies.
Prerequisite: PLSC 1307.

PLSC 4330. Soil Fertility Mgt Fertilizers. 3 Hours.
Principles of soil fertility, water, nutritional, and climatic relationships. Emphasis will be placed on sources of soil nutrients including commercial fertilizers and biological resources.
Prerequisite: PLSC 3440 and Junior standing.

PLSC 4358. Landscape Operations. 3 Hours.
The students in the course examine the principles and techniques of constructing and managing amenity landscapes. Emphasis is placed on contract documents, specifications of work, plant establishment, management plans, pruning, soil modification, and building materials.
Prerequisite: PLSC 1307.

PLSC 4368. Landscape Design II. 3 Hours.
This course is a continuation of AGRI 3398. Design skills will be refined as students will experience more variety in design opportunities. Both small residential and larger public spaces will be the subjects of student designs. Effective graphic presentations will be stressed. Installation, maintenance, and management of residential landscapes will also be discussed.
Prerequisite: PLSC 1307 and Junior standing.

PLSC 4369. Special Topic. 3 Hours.

PLSC 4370. Forage Crops & Pasture Mgmt. 3 Hours.
Quality evaluation, adaptation, selection, culture and management of the more important plants used for pasture, hay and silage. Particular attention is given to those species grown commonly throughout the southeastern US.
Prerequisite: Junior standing.

PLSC 4372. Sports Turf Management. 3 Hours.
Facility design and construction, water management, soil modification, and unique management practices commonly applied to golf courses and other sports turfs will be covered. Management of budgets, personnel, equipment maintenance and irrigation scheduling are also covered. Junior standing.
Prerequisite: PLSC 1307 and PLSC 3440.

PLSC 4383. Range Management. 3 Hours.
With rangelands comprising the majority of lands in the western US, this course deals with forage-animal management topics common to the semi-arid and arid regions of the US. Addresses the unique management requirements of rangelands, the use of government-owned lands, and the competing uses of rangelands for livestock production, wildlife habitat, and recreational areas for humans. Junior standing.
Prerequisite: PLSC 1307 or BIOL 1411.

PLSC 4397. Integrated Pest Management. 3 Hours.
A comprehensive review of current cultural, biological, mechanical, and chemical techniques used in managing or controlling agricultural and residential pests. Attention is given to environmental hazards, application methods, and safety precautions in handling and storage of pesticides.
Prerequisite: AGRI 1307 and Sophomore standing.

Political Science (POLS)

POLS 2305. American Government. 3 Hours.
This course offers an overview of American government at the national level. Topics include the origin and evolution of the U.S. Constitution, political behavior and attitudes, political parties, interest groups, the media, and the three branches of government - Congress, the Executive Branch, and the Judiciary. A goal of the course is to equip students with the knowledge to engage in political and civic life.

POLS 2306. Texas Government. 3 Hours.
This course examines Texas government and politics, including political culture, the Texas Constitution, Texas' role in the federal system; individuals' political values and participation, interest groups, parties, elections and camapaigns, the legislative, executive, and judical branches, and fiscal, social, and economic policies.

POLS 3302. Introduction to Public Policy. 3 Hours.
Students in this course explore how governmental entities in the U.S. make public policy. Using various policy models, students analyze the effect of policy environments, actors, processes, policy characteristics, and politics on the nature of policy outputs. Students learn to evaluate policies using a variety of program evaluation methodologies.
Prerequisite: 6 hours of Political Science.

POLS 3331. Local Political Systems. 3 Hours.
An introduction to the structure, process, and politics of local governments in Texas and the nation. Topics covered range from Metropolitan governments to special districts to county government. Rural and small town politics are also a focus of attention, along with urban and suburban political structures. Home rule, leadership recruitment and behavior, local elections, budgeting, services, and intergovernmental relations are addressed.
Prerequisite: 6 hours of political science.

POLS 3332. State Political Systems. 3 Hours.
A comparative analysis of politics in the fifty states, including Texas. Variations and similarities in state politics are examined, described, and related to other features of the states.
Prerequisite: 6 hours of political science.

POLS 3334. Judicial Systems. 3 Hours.
An orientation course for pre-law students and others interested in the legal aspects of government. Emphasis is placed on the development of judicial systems and the policy making role of courts.
Prerequisite: 6 hours of political science.

POLS 3335. Pol Ethnic Minorities & Gender. 3 Hours.
A study of political theory, behavior, beliefs, and public policy as they relate to race, ethnicity, and gender in the United States.
Prerequisite: 6 hours of political science.

POLS 3336. The Presidency And Executives. 3 Hours.
A study of the office of President including the institutionalization of the presidency along with a consideration of state governors and the heads of local governing bodies in the United States. Emphasis is placed on comparative development, roles, structures, processes, and functions.
Prerequisite: 6 hours of political science.

POLS 3337. The Congress And Legislatures. 3 Hours.
An examination of the powers, organization, procedures, and operations of legislative bodies in the United States. Consideration is given to such matters as selection of legislators, legislative leadership, influence of lobbyists, political parties, legislative committees, executives, and legislative roles and norms.
Prerequisite: 6 hours of political science.

POLS 3338. Victims Rights Politics & Plcy. 3 Hours.
This course introduces students to the politics and policies of victims' rights. The course examines the emergence of victims' rights as a political issue and as a social movement. The course surveys victims' rights policies and programs at the local, state, national, and international level and analyzes their development, their implementation, and their impact.
Prerequisite: 6 hours of political science.

POLS 3339. Nonprofit Organizations. 3 Hours.
This course introduces students to the history, roles, and types of nonprofit organizations and offers students an overview of the development of nonprofit organizations. Topics covered in the course include: nonprofit and government relations, nonprofit and business relations, nonprofit and policymaking, nonprofits in an international context, and organizational issues.
Prerequisite: 6 hours of political science.

POLS 3360. Political Parties-Interest Grp. 3 Hours.
This course is a survey of political parties and interest groups in U.S. politics. Topics include the development and evolution of political parties and interest groups, their organizations and functions, and their role in politics. Consideration is given to the influence of parties and interest groups on political values, participation, voting, campaigns and elections, governing, and on policy.
Prerequisite: 6 hours of political science.

POLS 3361. Cent & Eastern European Politi. 3 Hours.
This course offers a comparative study of the political systems of Central and Eastern European states, including the European portions of the former Soviet Union, with emphasis on the problems of transition from communism to democracy and market economy.
Prerequisite: 6 hours of political science.

POLS 3364. Politics And The Media. 3 Hours.
The primary focus of this course is on the role and impact of the media on US politics. The relationship between the media and politics in other nations may also be considered. (Media is defined broadly to include the Internet, radio, television, and the various forms of print media.) Some of the topics that may be explored in the course include: the impact of the media on campaigns and election outcomes, the media as a source of political information, the agenda setting power of the media, the role of the ?free press? in a democracy, and citizens? relationship to the media. The course makes use of textbooks but also relies heavily on media product being offered each day through the various contemporary media.
Prerequisite: 6 hours of political science.

POLS 3365. Intro to Comparative Politics. 3 Hours.
A survey of important issues and trends in world political systems that places American government and politics in a comparative context. Included will be terminology, concepts, and methods of comparative politics. Topics may include institutions, behavior, constitutional processes, political parties and interest groups, public policy, political development, transitions from authoritarianism to democracy and from statist to market economies, sources of domestic violence, and other major concerns of the field.
Prerequisite: 6 hours of political science.

POLS 3366. Public Administration. 3 Hours.
A survey of national public administration with emphasis on the political processes within the surrounding administrative agencies. Topics include development of the administrative function, policy formulation and budgeting, the relations of administrators to Congress, interest groups, courts and the public. State and local topics may be included.
Prerequisite: POLS 2301.

POLS 3368. Asian Politics. 3 Hours.
A comparative survey of contemporary politics and government in Asia. The course encompasses most of the countries of East Asia: China, Japan, the Koreas, and Southeast Asia, including Indonesia, Malaysia, Singapore, the Philippines, Vietnam and Cambodia. Time permitting, the course may also include India and South Asia. Considerable attention is given to the history and culture of each country as well as the dynamics of change in the region.
Prerequisite: 6 hours of political science.

POLS 3369. Religion And Politics. 3 Hours.
This course examines the historical and contemporary relationship between religion and politics. Topics include politics and religion in the United States, the proper role of religion in American public life, the relation between religion and state in the Islamic world, religion and conflict situations, and the role of religion in conflict resolution.
Prerequisite: 6 hours of political science.

POLS 3370. Western European Politics. 3 Hours.
A comparative survey of contemporary politics and governments in Western Europe. The course typically concentrates on Britain, France, Germany, and Italy, but usually includes other important and interesting countries, such as Belgium, the Netherlands, Spain, Portugal, and the Scandinavian countries. The European Union - its policies, institutions, and expansion - is fully treated in the course.
Prerequisite: 6 hours of political science.

POLS 3373. Ideologies and Democracy. 3 Hours.
Students in this course investigate the meaning of the term 'ideology' and the various ideologies that have informed political life in the modern world. Liberalism, conservatism, socialism, communism, feminism, environmentalism, and radical Islam are examined. Democracy in its various modern conceptions is studied along with the question: Is democracy an ideology?
Prerequisite: 6 hours in POLS.

POLS 3374. Quantitative Methd For Pol Sci. 3 Hours.
This is an introduction to research design and quantitative methods used in contemporary political science research. Students will apply the tools of social science inquiry in a series of projects designed to examine such phenomena as political attitudes and behavior. Emphasis is on the use of descriptive statistics; tabular and graphic presentation of data; measures of association and correlations; and multivariate analysis in political research.
Prerequisite: POLS major, 6 hours POLS, and departmental approval.

POLS 3375. Politics Of The Middle East. 3 Hours.
A comparative survey of contemporary patterns of government and politics in the Middle East. The course encompasses most of the countries of the Middle East, including Egypt, Israel, Lebanon, Jordan, Saudi Arabia, the Gulf States, Iraq, Iran, and Turkey. North Africa may also be included. Considerable attention is given to the historical legacies and continuing impact of colonialism and nationalism, political Islam and secularism, challenges of authority, and legitimacy. The impact on the region and U.S. foreign policy of the Israeli-Palestinian conflict and regime change in the region is covered at length.
Prerequisite: 6 hours of political science.

POLS 3377. Survey of Political Theory. 3 Hours.
A survey of the political ideas, philosophers, and relevant historical events in Western Europe over the past two thousand years. Representative political writings from the time of Plato to Nietzsche are surveyed. Political ideas and values are addressed in their original historical context as well as independently of any particular historical or cultural limitations.
Prerequisite: 6 hours of political science.

POLS 3378. American Political Thought. 3 Hours.
This course surveys American political ideas and movements from colonial times to the present.
Prerequisite: 6 hours of political science.

POLS 3379. Research & Writing In Pol Sci. 3 Hours.
This course has two primary objectives. First, students will gain knowledge of basic research methods and design in the social sciences. Particular attention will be given to survey research. Second, students will learn research and writing skills including: how to locate, evaluate, and cite electronic and printed sources; how to conduct a literature review; how to write proposals, reports, and research papers; and how to edit proposals, reports, and papers.
Prerequisite: POLS major, 6 hours POLS, and departmental approval.

POLS 3380. Intro International Relations. 3 Hours.
This course provides analysis of the relations between nation-states in the international system and the factors influencing their behavior. The changing nature of the international system is analyzed, as are the political and economic sources of tension, war and diplomacy, international law and organization, and the bases of power.
Prerequisite: 6 hours of political science.

POLS 3381. American Foreign Policy. 3 Hours.
This course examines the domestic and international forces which influence the development of American foreign policy. The course emphasizes the post-World War II era and includes discussion of such major issues of U.S. foreign policy as the settlement of World War II, the politics and crises of the Cold War, and America?s role in the post-Cold War world order.
Prerequisite: 6 hours of political science.

POLS 3385. International Law & Org. 3 Hours.
This course is a comprehensive overview of the role of international organizations and law. Specifically it examines the evolution of the United Nations and its precursors, its structure and governance role in international peace and security, emerging human rights law, laws governing war, and issues of development and the global environment.
Prerequisite: 6 hours of political science.

POLS 3386. International Political Econ. 3 Hours.
This course examines the interplay between states and markets and the interaction of the world economy and international politics. We study the nature of political economy, the major ideologies and approaches, and specific topics such as the political ramifications of international trade, investment, debt and financial markets and the impact of globalization on the human condition and the environment.
Prerequisite: 6 hours of political science.

POLS 3387. Latin American Politics. 3 Hours.
A survey of contemporary patterns of government and politics in Latin America with emphasis on institutions, processes, behavior, and problems of democracy, authoritarianism, and political development in selected nations. Historical, social, and economic background factors are also considered, along with major issues of U.S.-Latin American relations.
Prerequisite: 6 hours of political science.

POLS 3391. Govrnmt Organization & Mangmt. 3 Hours.
Comparison of governmental organizations within society and analysis of the differences and their impact upon practices of administration in public agencies. Consideration is also given to the management tools available to governmental agencies and their capabilities and limitations.
Prerequisite: 6 hours of political science.

POLS 3392. Economic Policy. 3 Hours.
A general study of the role of modern government in the economy and society. Particular attention is given to governmental activity in regulating and promoting business activity.
Prerequisite: 6 hours of political science.

POLS 3393. Social Policy. 3 Hours.
A general study of the roles, actions, and problems of modern governments in dealing with social issues such as education, health, housing, transportation, and welfare services.
Prerequisite: 6 hours of political science.

POLS 3395. Environmental Policy. 3 Hours.
A survey of the major environmental issues and policies existing in the United States and the world today. An in-depth investigation of such environmental policy areas as clean air and water, endangered species, invasive alien species, public land management, ecosystem management, the conservation of biodiversity, nuclear power, waste disposal and energy production and use.
Prerequisite: 6 hours of political science.

POLS 4081. Problems in Political Science. 1-3 Hours.
This course is designated to examine special topics which cut across the usual areas of concentration in government. A single topic will be considered each semester this course is offered. Topics may include political socialization, ethnic politics, crises in political systems, research techniques, and other subjects. May be repeated when topic varies. Variable Credit (1-3).
Prerequisite: 6 hours of POLS.

POLS 4095. Dir Std & Inter Pol Sci. 1-3 Hours.
This course is designed especially for advanced students in Political Science who are capable of independent study. Work may involve advanced readings, directed research, or assignment as an intern in a political or government office. Registration is upon the approval of the Chair of the Department of Political Science and the instructor directing the course. This course may be taken for Academic Distinction Credit. Variable Credit (1-3).
Prerequisite: 6 hours of Political Science and departmental permission.

POLS 4334. Const Law I:Civ Rights& Librts. 3 Hours.
This course is a rigorous examination of the development of rights and liberties through the interpretation of the Bill of Rights by the United States Supreme Court. The course relies on the Court?s opinions and is the first course in the two-part constitutional law sequence.
Prerequisite: 6 hours of political science.

POLS 4335. Const Law II:Gov Pwr/St-Fed Rl. 3 Hours.
This course offers a rigorous examination of the development of government powers at the state and federal level through the interpretation of the Constitution by the United States Supreme Court. It is the second course in the two-part constitutional law sequence.
Prerequisite: 6 hours of political science.

POLS 4372. Political Attitudes & Behavior. 3 Hours.
An examination of political socialization, political recruitment, voting behavior, and public policy outputs. The approaches examined include role, group, political culture, systems analysis, and functional analysis.
Prerequisite: 6 hours of political science.

POLS 4383. International Human Rights. 3 Hours.
This course explores the theory and practical meaning of human rights. Issues covered may include the definition of human rights; the relationship between civil and political rights and economic, social and cultural rights; the meaning and impact of humanitarian and international human rights law; the impact of cultural relativism in the definition and assessment of the promotion and protection of human rights; the significance of different religious perspectives; the question of the legitimacy of humanitarian interventions; and the effects of globalization on human rights perceptions and practices.
Prerequisite: 6 hours of political science.

POLS 4384. Conflict Studies. 3 Hours.
This course examines the causes of international conflict and the path to international peace. The topics explored include the changes in the nature of war, the theories of the onset of interstate war, and the various methods of achieving peace.
Prerequisite: 6 hours of POLS.

POLS 4385. Political Violence & Terrorism. 3 Hours.
This course focuses on political violence that occurs within states perpetrated by the state against its own citizens as well as the violence that accompanies anti-government movements. Students examine cases and theories of political violence, as well as methods of their resolution. Domestic political violence in the form of state repression, domestic terrorism, guerilla warfare, civil wars, and revolution are given special emphasis.
Prerequisite: 6 hours of POLS.

Psychology (PSYC)

PSYC 1301. Introduction To Psychology. 3 Hours.
(SH Prior Course ID: PSY 131); This course is designed to be a broad survey of the field of psychology covering such topics as learning, perception, personality, development, psychopathology, etc. It covers both the theoretical basis and the empirical content of these areas.

PSYC 2305. Professional Psychology. 3 Hours.
(SH Prior Course ID: PSY 237); A survey is made of clinical/counseling psychology, e.g. psychopathology, diagnostic instruments, methods and techniques; individual and group psychotherapy, theories, community psychology; professional ethics of the clinical/counseling psychologist.

PSYC 2315. Psychology Of Adjustment. 3 Hours.
(SH Prior Course ID: PSY 289); A study is made of the dynamics of human behavior applying psychological theory to the development of the wholesome well adjusted personality. Techniques for managing stress, reducing anxiety, coping with anger, increasing assertiveness, and achieving self-control are considered.

PSYC 3133. Physiological Psychology Lab. 1 Hour.
(SH Prior Course ID: PSY 313); Laboratory to be taken concurrently with PSYC 3333.

PSYC 3307. Intro to School Psychology. 3 Hours.
This course provides a broad overview of the field of school psychology. Students gain exposure to theory and research on topics including cognitive and social development, learning, motivation, individual differences, classroom instruction and behavior management, and standardized testing within schools.
Prerequisite: PSYC 1301.

PSYC 3331. Abnormal Psychology. 3 Hours.
(SH Prior Course ID: PSY 331); This course includes an introduction to behavioral disorders. Biological and social factors in the development, diagnosis, and treatment of psychopathology are studied. .
Prerequisite: 3 semester hours of Psychology.

PSYC 3332. History Of Psychology. 3 Hours.
(SH Prior Course ID: PSY 332); This course includes an historical survey of the scientific and philosophic antecedents of modern psychology. .
Prerequisite: 3 semester hours of Psychology.

PSYC 3333. Physiological Psychology. 3 Hours.
(SH Prior Course ID: PSY 333); This course is designed to acquaint the student with the biological substrates of behavior. A study is made of the genetic, neuroanatomical, neurochemical and neurophysiological mechanisms of such psychological processes as sensation, movement, learning, memory, motivation and emotion. This course is offered primarily for psychology majors and minors but may serve as an elective for majors in biology, chemistry, and public health. Laboratory period required. .
Prerequisite: 3 hours in Psychology and 4 hours in Biology or consent of instructor.

PSYC 3334. Human Sexuality. 3 Hours.
(SH Prior Course ID: PSY 334); A study is made of the biological, social, emotional, cognitive, and spiritual elements of our human sexuality. Topics such as sexual health, sexual dysfunction, sexuality education, and intimate relationships are covered.

PSYC 3336. Sensation/Perception. 3 Hours.
(SH Prior Course ID: PSY 336); A study is made of the sensory processes, the relationship between physical stimuli and sensory/perceptual experience, and perceptual phenomena. Topics such as pain, constancies, illusions, and psychophysics are covered.

PSYC 3337. Cognition. 3 Hours.
(SH Prior Course ID: PSY 337); This course is intended to provide a broad survey of the field of cognitive psychology covering such topics as attention, memory, forgetting, consciousness, and organization/structure. It covers both the theoretical basis and empirical content of the area.

PSYC 3365. Close Relationships. 3 Hours.
(SH Prior Course ID: PSY 365); This course examines the processes of close relationships, employing psychological theory and research. Topics include the nature of intimacy, attraction, communication, interdependency, love, jealousy, conflict, and loneliness.

PSYC 3371. Humanistic Psychology. 3 Hours.
(SH Prior Course ID PSY 371); An examination of the major themes of humanistic/existential psychology/philosophy and their impact on contemporary society. Works from literature, psychology, philosophy, and religion are included. Taught with PHIL 3371.

PSYC 3374. Development Psychology. 3 Hours.
A study is made of the physical, mental, emotional, and social growth and development of the person across the entire life span.

PSYC 3375. Psychopathology & Fam Dynamics. 3 Hours.
(Prior SH course id: PSY 375); This course examines the interactions of psychopathology and family dynamics. Topics include parenting, chronic physical illness, mood and anxiety disorders, physical and sexual abuse, and chemical dependence.
Prerequisite: Junior standing and either PSYC 3331, FACS 3369, SOCI 3331, or COMS 4386.

PSYC 3381. Social Psychology. 3 Hours.
(SH Prior Course ID: PSY 381); This course examines individual human behavior as it is influenced by cultural and social stimuli. Topics studied include interpersonal attraction, aggression, prejudice and sexism, conformity, altruism, and group behavior.

PSYC 3382. Comparative Psychology. 3 Hours.
This course deals with physical and behavioral differences in animals and how these differences can be adaptive. Specific topics include habitat selection, territoriality, predator and anti-predator behavior, reproductive behavior, and social behavior.
Prerequisite: PSYC 2302 and PSYC 3301.

PSYC 3383. Psychology And The Law. 3 Hours.
(SH Prior Course ID: PSY 383); This course is designed to examine the application of scientific and professional principles of psychology in the legal system, the use of social science methods to study the legal system, and the impact of law on the practice of psychology. Content areas include legal competencies, the insanity defense, jury consultation, psychologists and the death penalty, the accuracy of eyewitness testimony, prediction of violence, the psychology of victims, family law, and ethical dilemmas. .
Prerequisite: 6 hours of PSYC.

PSYC 3385. Health Psychology. 3 Hours.
(SH Prior Course ID: PSY 385); This course examines how biological, psychological, and social factors interact and contribute to health promotion, illness prevention, coping with stress, pain, or other acute or chronic diseases, and recovery from and adjustment to serious health problems. .
Prerequisite: 6 hours of PSYC.

PSYC 3391. Psychopharmacology. 3 Hours.
(SH Prior Course ID: PSY 391); This course includes a study of the field of behavioral pharmacology: the systematic study of the effects of drugs on behavior and the way in which behavioral principles can help in understanding how drugs work. The course focuses on the neurophysiological mechanisms of action of various psychoactive drugs.

PSYC 3401. Research Methods. 4 Hours.
This course is designed to introduce the student to the scientific method in general and research methodology in psychology in particular through laboratory and field experiments. Laboratory period required.

PSYC 3402. Psychological Statistics. 4 Hours.
This course is a study of statistics as applied to problems in psychology and education, to include frequency functions, correlation and regression, and statistical tests of significance. Lecture and lab component.

PSYC 4075. Problems. 1-3 Hours.
(SH Prior Course ID: PSY 475); Designed for advanced students in psychology who are capable of independent study. Variable Credit (1-3).
Prerequisite: Approval of Program Coordinator and the instructor directing the study.

PSYC 4331. Personality. 3 Hours.
(SH Prior Course ID: PSY 431); A study is made of the major theories of personality; the biological and social factors in the development and functioning of personality are considered.
Prerequisite: 6 semester hours of Psychology.

PSYC 4332. Learning. 3 Hours.
(SH Prior Course ID: PSY 432); This course includes a study of the major theories of learning and their historical backgrounds; experimental procedures in the study of learning are discussed.
Prerequisite: 6 semester hours of Psychology.

PSYC 4333. Seminar In Psychology. 3 Hours.
(SH Prior Course ID: PSY 433); This course includes discussions of selected topics in psychology.

PSYC 4334. Applied Social Psychology. 3 Hours.
(SH Prior Course ID: PSY 434); This course examines the use of social psychological theory and method to explain and solve real world problems. Topics include physical and mental health, the environment, law, consumerism, and processes of conflict and social influence.
Prerequisite: PSYC 3381.

PSYC 4374. Psychology of the Elderly. 3 Hours.
This course examines the field of developmental psychology of the elderly addressing such topics as learning, perception, personality, development, mental health issues, etc. It addresses both the theoretical basis and the empirical content of these areas.
Prerequisite: PSYC 1301.

PSYC 4388. Psychological Testing. 3 Hours.
(SH Prior Course ID: PSY 488); A study is made of group and individual differences and their assessment. The student is introduced to instruments and techniques used in the measurement of intelligence, aptitudes, achievement, interest, attitudes, and other dimensions of personality and behavior.
Prerequisite: 9 hours in Psychology including PSYC 1301 and PSYC 3301.

PSYC 4391. Divorce: Psychological Impact. 3 Hours.
(SH Prior Course ID: PSY 491); A comprehensive investigation is made of psychological, legal, moral, religious, and cultural variables related to cause, process, and adjustment to divorce is made. Emphasis is placed on the impact of divorce on the individual.
Prerequisite: Consent of instructor.

PSYC 4392. Industrial/Organizational Psy. 3 Hours.
(SH Prior Course ID: PSY 492); This course provides an integration of psychological principles as applied to industrial/organizational milieu. The focus is on the application of research methodology, psychological assessment, personality, and organizational theories to the work environment. Specifically, research related to the application of psychological theory related to personnel, work environment, organizational, and pertinent legal issues will be considered.
Prerequisite: PSYC 1301 or PSYC 2315.

PSYC 4393. Positive Psychology. 3 Hours.
(SH Prior Course ID: PSY 493); This course will focus on the scientific understanding of healthy human processes of positive emotions, character strengths, traits, and virtues (such as courage, gratitude, hope, optimism, self-regulation, spirituality, and wisdom). Assessment methods and intervention applications in diverse settings (e.g., education, health, corporate and organizational leadership, and clinical psychology) will be covered.
Prerequisite: 6 hours in Psychology.

Reading (READ)

READ 0101. Reading Enrichment. 1 Hour.
This course will build strategies and skills necessary to read and think critically at the college level. This course will be paired with a credit-bearing course which has been determined to include intensive reading. Credit in this course does not count towards graduation and computation of grade point averages and classification of students by hours completed. Co-requisite: Intensive Reading Course.

READ 1301. Strategies For Coll Rdg& Thnkg. 3 Hours.
Students will learn and practice strategies and skills necessary to read and think critically at the college level. Course focus is on reading in all academic disciplines, especially those with heavy reading content. Two hour class and one hour computerized tutorial.

READ 2305. Lit Proc-Cultr/Ling Divrse Pop. 3 Hours.
The fundamental concepts, principles, and conflicts of second language learning and teaching. Effective instructional approaches for students of diverse cultural and linguistic backgrounds are learned and applied. The use of multiethnic literature in the classroom is a special focus of this course.

READ 2306. Literacy As Foundatn For Lrng. 3 Hours.
Students examine their personal literacy development and their philosophical assumptions underlying literacy instruction in order to build a basis for the theories and practices provided in the advanced reading courses.

READ 3315. Teaching Multiple Literacies. 3 Hours.
In this course, candidates focus on the teaching of multiple literacies across content areas in both traditional and digital formats in grades EC-6. Students apply content specific literacy skills and strategies designed to enhance children's reading, writing, listening, speaking, viewing, and thinking.

READ 3370. The Teaching Of Reading. 3 Hours.
The fundamental concepts and principles of reading instruction and focus on the developmental stages of reading. Word attack, comprehension, study strategies and other aspects of a balanced literacy program are learned and applied. Concurrent enrollment in TESL 3101 is required for EC6 students. Field experiences in PK-12 public schools required. Advance departmental approval and BESL 3301 required. Admission to educator preparation program required.
Prerequisite: Must be taken concurrently with READ 3371 and READ 3372.

READ 3371. Literacy Assmnt & Instruction. 3 Hours.
Students will administer and interpret varied assessment tools as well as select and implement appropriate instructional techniques to plan and conduct effective classroom literacy instruction. Field experiences in PK-12 public schools required. Must be taken concurrently with READ 3370 and READ 3372. Concurrent enrollment in TESL 3101 is required for EC6 students. Advance departmental approval and BESL 3301 required. Admission to educator preparation program required.
Prerequisite: Field experiences in PK-12 public schools required.

READ 3372. The Teaching Of Language Arts. 3 Hours.
Focus on the developmental stages of writing and the interrelated language processes of listening, speaking and reading and writing. Pre-service teachers will explore theories and instructional practices in the elementary school language arts program. Concurrent enrollment in TESL 3101 is required for EC6 students. Field experiences in PK-12 public schools required. Advance departmental approval and BESL 3301 required. Admission to educator preparation program required.
Prerequisite: Must be taken concurrently with READ 3370 and READ 3371.

READ 3373. Content Area Rdg In Mid Grades. 3 Hours.
This course focuses on using reading and writing as tools for learning in all academic areas, i.e. math, science, social studies, in grades 4-8.
Prerequisite: Junior or senior classification and grade of C or better in SPED 2301.

READ 3374. Voc & Word Stdy In Mid Grades. 3 Hours.
Students will explore phonemic awareness, decoding skills, and vocabulary. Specifically included in the study are phonic generalizations, structural analysis, word derivations and etymology, and strategies for technical and other specialized vocabularies. Concurrent enrollment in READ 3373.
Prerequisite: Junior or senior classification and grade of C or better in SPED 2301.

READ 3380. Emergent & Beginning Literacy. 3 Hours.
Language and cognitive development, listening, speaking, reading, and writing theories and instructional practices with children from birth to grade 3.
Prerequisite: 54 hours.

READ 3383. Read Methods/Assessment - Elem. 3 Hours.
In this course, candidates focus on fundamental concepts and principles of reading instruction and assessment. Students study and apply word attack skills, comprehension strategies, and other aspects of a balanced literacy program. Twenty hours of field experience is required as part of this course. Co-requisite: READ 3384.
Prerequisite: READ 3380 or READ 3315.

READ 3384. Lang Arts/Assessment - Elem. 3 Hours.
In this course, candidates learn the fundamental concepts and principles of language arts instruction and assessment are emphasized. The focus of this course is on the developmental stages and interrelated language processes of reading, writing, listening, speaking, viewing, and thinking. Twenty hours of field experience is required as part of this course. Co-requisite: READ 3383.
Prerequisite: READ 3380 or READ 3315.

READ 3388. Read Methods/Assess-Mid Lev. 3 Hours.
In this course, candidates learn the fundamental concepts and principles of reading instruction and assessment in the middle grades 4-8. Students study and apply word attack skills, comprehension strategies, and other aspects of a balanced literacy program. Twenty hours of field experience is required as part of this course. Co-requiste: READ 3389.
Prerequisite: READ 3383 and READ 3384.

READ 3389. Lang Arts/Assessment - Mid Lev. 3 Hours.
In this course, candidates learn the fundamental concepts and principles of language arts instruction and assessment in grades 4-8 are emphasized. The focus of this course is on the developmental levels and interrelated language processes of reading, writing, listening, speaking, viewing, and thinking. Twenty hours of field experience in a 4-8 language arts classroom are included in this course. Co-requisite: READ 3388.
Prerequisite: READ 3373 and 3374.

READ 4088. Special Topics in Reading. 3 Hours.

READ 4089. Independent Study in Reading. 1-3 Hours.
Designed for students interested in extending conceptual knowledge in literacy issues. This course addresses special topics and independent study related to methodologies, curriculum, assessment, and language processes. Advance Departmental Approval Required.

READ 4215. Multidisciplinary Literacies. 2 Hours.
This course emphasizes analysis, synthesis, and evaluation for the teaching of multidisciplinary literacies in grades EC-6. Preservice teachers apply content specific literacy skills and strategies designed to enhance students' reading, writing, listening, speaking, and thinking. A variety of materials is used to develop the process of teaching inquiry and research.
Prerequisite: READ 3370, 3371, 3372.

READ 4310. Rdg & Lang Arts In Mid Grades. 3 Hours.
This course focuses on the uniqueness of middle grade students, middle school structures and explore literacy theories and activities that meet these needs and structures.
Prerequisite: Junior or senior classification.

READ 4320. Content Area Reading & Writing. 3 Hours.
Students will learn to determine pupils? needs and abilities in content area reading and writing through the use of assessment instruments and will plan instructional strategies appropriate to their needs within specific secondary teaching fields. Field experiences in PK-12 public schools required.
Prerequisite: Junior or senior classification.

READ 4325. Integration of Multiliteracies. 3 Hours.
This course is a culminating companion course for student teaching in the middle grades. In this course, candidates learn the application of theory in content area pedagogy appropriate for grades 4-8 is explored through field experiences. Attention is given to the development of successful middle school students through advanced literacy instruction embedded within content-area classes, such as mathematics, science, social studies, and English. Co-requisite: CIME 3375 and CIME 3376.
Prerequisite: Admission to student teaching.

Safety Management (ETSM)

ETSM 2396. Special Topic. 3 Hours.

ETSM 3363. Safety Program Management. 3 Hours.
This course presents an in-depth examination of the concepts, methods, and techniques involved in safety program management. Emphasis will be placed on the development of safety management programs for the industrial and construction industries. The strengths and weaknesses of existing safety programs, performance management techniques, behavior-based safety, design safety, legal aspects of safety and health management, and emerging trends in safety and health management will be covered.
Prerequisite: Junior standing.

ETSM 3371. Safety Risk Assessment & Mgmt. 3 Hours.
Students examine concepts, methods, and techniques involved in safety risk management. Emphasis is placed on the development of safety programs for the industrial and construction industries. Topics may include an overview of risk management processes, attributes, and disciplines; identification tools; analysis and evaluation; communication; risk analysis approach; and assessment framework.
Prerequisite: CHEM 1411.

ETSM 3372. Occupational Safety Laws. 3 Hours.
Students examine the Occupational Safety and Health Act (OSHA), its rules, and the legal duty to comply with them. Topics may include record keeping, employers' and employees' rights, hazard communication, inspection and investigation, and criminal enforcement of violations. Contesting citations, judicial review of enforcement actions, and ethics in safety at the workplace may also be reviewed.
Prerequisite: CHEM 1411.

ETSM 3382. Issues In Nanotechnology Safty. 3 Hours.
This course introduces students to the emerging technological frontier of nanotechnology. Areas of study will include: potential health concern, potential safety hazards, exposed control procedures occupational health surveillance, and research in the area of safety management for furture nanotechnology workers.
Prerequisite: ETEE 1340, ETDD 1361 and Sophomore standing.

ETSM 4096. Directed Study. 1-6 Hours.
Arranged professional and developmental learning experiences incorporating a practical application of safety management skills and practices. To include internships, individual research and industry studies. Variable Credit (1-6).
Prerequisite: Sophomore standing.

ETSM 4369. Special Topic. 3 Hours.

ETSM 4377. Environmental Safety Mgmt. 3 Hours.
Students examine the principles of effective environmental safety management systems. Laws and regulations that protect our environment and human health are studied. Topics may include hazard communication (HAZCOM) and hazardous waste operations (HAZWOPER). Students may also examine the roles of the Occupational Safety and Health Administration (OSHA), the U.S. Department of Transportation (DOT), and the Environmental Protection Agency (EPA).
Prerequisite: ETSM 3372.

ETSM 4382. Industrial Safety. 3 Hours.
This course is a study of the problems involved in developing an integrated safety program for an industrial or commercial establishment. It involves safety education, safe worker practices, recognition and elimination of health hazards, machinery guards, in-plant traffic, material handling and emergency treatment for industrial accidents. Prerequiste: ETCM 1363 and ETDD 1361. Junior standing.

Saxophone (SAXO)

SAXO 1201. Ind Performances-Saxophone. 2 Hours.

SAXO 3201. Ind Performances-Saxophone. 2 Hours.

SAXO 3202. Applied Saxophone W/ Jr Recitl. 2 Hours.

Secondary Education (CISE)

CISE 3383. Planning Instr With Tech Intgr. 3 Hours.
This course is designed to provide teachers who seek certification at the secondary level (grades 7-12) with an introductory overview of the teacher education program, with an introduction into instructional issues and teaching models, and with an introduction into how technology impacts education both in terms of increasing teacher productivity and in terms of integrating technology into instruction.
Prerequisite: Junior status.

CISE 3384. The Teaching Profession. 3 Hours.
This course is for those seeking 7-12 certification and is an introduction to the concept of teaching as a professional career that makes a difference in the lives of children, youth, and their families. The course will introduce students to lesson planning, writing clear learning objectives, instructional strategies, formative and summative assessment methods, classroom management, professional ethics, and the use of technology as an instructional tool.
Prerequisite: 32 Hours.

CISE 4088. Special Topics in Sec Edu. 3 Hours.

CISE 4089. Independent Study in Secondary Education. 1-3 Hours.
This course is designed to permit individual students to study specific areas of interest and need.
Prerequisite: Departmental approval.

CISE 4364. Mth Tch Secondary Schools. 3 Hours.
This course focuses on developing strategies that are effective in secondary schools. Candidates use the TEKS to develop objectives and plan effective instruction. Extensive field experience required. Co-requisite: CISE 4379 Admission to Methods.
Prerequisite: CISE 4380 and CISE 4378.

CISE 4374. Human Growth and Learning. 3 Hours.
This course examines growth and learning primarily in secondary environments. Major theories of teaching-learning processes are studied. Human development related to education is emphasized. Special attention is paid to diversity in the public school environment. Required field experience in 8-12 public schools. Admission to Educator Preparation Program and Departmental Approval. This course is taken as part of the Secondary Methods Block for 7-12 certification.
Prerequisite: CISE 3384.

CISE 4376. Developing Prof Tchr Portfolio. 3 Hours.
The purpose of this course is to provide the prospective secondary teacher the opportunity to organize artifacts on the development, exploration, integration, application, and teaching of content knowledge, pedagogical knowledge and skill development in the development of a professional teacher portfolio.
Prerequisite: Concurrent enrollment in student teaching and departmental approval.

CISE 4377. Assmt Stdnt Lrng In Secondary. 3 Hours.
This course is designed to provide the prospective secondary teacher the opportunity to construct and use teacher made tests and performance assessments that support the alignment process. Students will study various facets and strategies relating to assessment. Co-requisite: CISE 4364 Admission to Methods.
Prerequisite: CISE 4380 and CISE 4378.

CISE 4378. Content Literacy. 3 Hours.
In this course, candidates learn to integrate content-specific literacy skills into their teaching. Co-requisite: CISE 4380
Prerequisite: CISE 3384.

CISE 4379. Differentiated Pedagogy. 3 Hours.
In this course, teacher candidates focus on differentiation of curriculum and pedagogy that addresses student differences in order to promote academic rigor for all learners. Co-requisite CISE 4364.
Prerequisite: CISE 3384, CISE 4378, and CISE 4380.

CISE 4380. Respon Of Pro Educator. 3 Hours.
This course is designed to assist future teachers in understanding the structure, organization, and management of public schools at the national, state, and local levels. Course content will include a study of the needs of the special learner and students from various cultures. Co-requisite: CISE 4378
Prerequisite: CISE 3384.

CISE 4394. Creatng Env For Lrng-Secondary. 3 Hours.
(The Companion Course for Secondary and All-Level Student Teaching) This course provides a survey of classroom management and discipline approaches appropriate in a public school setting. Candidates will explore multiple components that produce a well managed classroom. Candidates will create a classroom management plan that will be a functional model for their classrooms.
Prerequisite: CISE 3384, CISE 4364, CISE 4378, CISE 4379, and CISE 4380; Admission to Educator Preparation Program.

CISE 4396. Std Tch Secondary Classroom. 3 Hours.
The student is assigned to teach in secondary classrooms (grades 8-12) for a placement totally approximately twelve to fourteen weeks. This time is divided among observation, participation, teaching and conference activities in two classrooms that span the certification grades. This course corresponds to one of those placements. As an example, a student will have one placement in a lower grade such as 7th grade and the second placement in a higher level such as high school.
Prerequisite: Senior status and admission to student teaching.

CISE 4397. Std Tch Secondary Classroom. 3 Hours.
The student is assigned to teach in secondary classrooms (grades 8-12) for a placement totally approximately twelve to fourteen weeks. This time is divided among observation, participation, teaching and conference activities in two classrooms that span the certification grades. This course corresponds to one of those placements.
Prerequisite: Senior status and admission to student teaching.

Security Studies (SCST)

SCST 2363. Intro to Homeland Security. 3 Hours.
This introductory course is designed to familiarize students with the field of security studies. Topics include Surveys, threats, and challenges from terrorist attacks, to pandemics to climate change.

SCST 3394. Global Terrorism & Homeland Security. 3 Hours.
This course provides an overview of the threat of terrorism as it relates to U.S. homeland security. Using a multi-dimensional approach that draws from international relations, law, and police strategies, the course emphasizes research and analysis. Students also examine international strategies aimed at reducing terrorist incidents.
Prerequisite: SCST 2363 recommended.

SCST 4076. Independent Studies in Security Studies. 1-3 Hours.
This course is designed to give students flexibility to pursue study of a topic under the supervision of a faculty member where the topic will be studies more deeply than in a traditional course or where there are no available courses on the topic. Variable Credit (1-3).
Prerequisite: Approval of the Department Chair and the instructor directing the readings.

SCST 4362. U.S. Security Post 9/11. 3 Hours.
This course provides an overview of the evolution of issues, processes, and policies related to U.S. security and safety that evolved after the cold war era. Specifically, the course will address the spectrum of security threats and safety hazards that have emerged post 9/11 and that continue to emerge, such as Chemical, Biological, Radiological, Nuclear, and Explosives (CBRNE), pandemic, environmental, and cybersecurity as well as the policies and processes instituted to address them. Credit 3.

SCST 4363. Homeland Sec Intelligence. 3 Hours.
This course examines the development of U.S. intelligence studies and explores the role of intelligence in supporting the formulation of homeland security policies. It positions intelligence within specific homeland security missions of Protect, Respond, and Recover, and among actors who support the Homeland Security Enterprise (HSE) under those missions. It exposes learners to complex government-private sector policies, plans, partnerships, processes, procedures, systems, and technologies for intelligence gathering as well as information sharing.
Prerequisite: Junior Standing.

SCST 4364. Homeland Sec & Emergency Mgmt. 3 Hours.
This course familiarizes students with processes, agencies, and individuals involved in the national preparedness and response to high consequence events. Students examine homeland security strategies, emergency and disaster management principles, and human, physical, and operational resilience concepts. Students are exposed to approaches to collaboration, communication, and coordination when planning for, mitigating against, responding to, and recovering from the complex safety and security problems of the twenty-first century (e.g., extreme weather, environmental incidents, health pandemics, terrorism).
Prerequisite: Junior Standing.

SCST 4365. Border Security. 3 Hours.
This course covers security issues related to U.S. air, land, subterranean, and maritime borders. The course covers an interdisciplinary range of topics including immigration, drug trafficking, contraband smuggling (tariff evasion), potential for terror plots involving the border, the political realities of border fence construction, state surveillance in the border region, concepts of borderlands, civil liberties, and issues related to the border. The course introduces students to the various agencies that cooperate to provide border security and to the foreign relations issues that arise around nation-state borders.
Prerequisite: Junior Standing.

SCST 4366. Drug Policy and Security. 3 Hours.
This course examines the problem of illegal drugs from a security perspective. Because drug profits have been identified as a major funding source of violent criminal actors and terrorist networks, students in this course explore the vertical integration of the drug trade and examine its relationship to homeland security.
Prerequisite: Junior Standing.

SCST 4367. Critical Infrastructure Security. 3 Hours.
Globalization has made society increasingly reliant on technology for every facet of human endeavors. As a result of the reliance on interdependent technology society has become more vulnerable to major disruptions. This course familiarizes students with the concept of Critical Infrastructure (CI), the risks it faces, and how to protect against them. Students explore opportunities associated with infrastructure-related public-private partnerships, information sharing, risk analysis and prioritization, risk mitigation, performance metrics, program management, incident management, and investing for the future.
Prerequisite: Junior Standing.

SCST 4377. Special Topics in Sec. Stud.. 3 Hours.
This course offers students the opportunities for structured coursework on emergent issues or other topics for which courses do not exist in the course catalog.

Sociology (SOCI)

SOCI 1301. Principles Of Sociology. 3 Hours.
Introduction to the discipline with a focus on concepts and principles used in the study of group life, social institutions and social processes. This course is a prerequisite to many other courses taught in the department. It is required of all Sociology majors and minors.

SOCI 1306. Social Problems. 3 Hours.
Application of sociological principles to the major problems of contemporary society. Special attention is given to mental disorders, use and abuse of drugs and alcohol, sexual deviance and crime and delinquency; problems of youth and the family in contemporary society; institutionalized aspects of inequality, prejudice and discrimination; and population and environmental concerns.

SOCI 2319. Introduction To Ethnic Studies. 3 Hours.
A survey of the field and problems of Ethnic Studies as an area of knowledge and investigation. The instruction is to be interdisciplinary in nature. Major considerations of the entire Ethnic Studies field will be defined and analyzed. Although the course is not prerequisite to any of the others, students are strongly urged to take it before attempting other Ethnic Studies courses.

SOCI 2320. Intro To Ethnic Studies-Honors. 3 Hours.
HONORS COURSEA survey of the field and problems of Ethnic Studies as an area of knowledge and investigation. The instruction is to be interdisciplinary in nature. Major considerations of the entire Ethnic Studies field will be defined and analyzed. Although the course is not prerequisite to any of the others, students are strongly urged to take it before attempting other Ethnic Studies courses.

SOCI 2366. Sociology Of Sport. 3 Hours.
This course utilizes the application of the social science mode of inquiry to the study of the sociocultural characteristics of sport. These include examinations of the cultural, economic, political and structural factors (i.e., gender, race, etc.) which form salient aspects of today?s sport activities at various levels. Focus is placed on the characteristics of sports and how these characteristics both reflect and have impact upon the social climate of a given society.

SOCI 2399. Writing in Sociology. 3 Hours.
This course is designed to teach students the writing skills needed for advanced courses in Sociology. Topics include: structure and style in writing; citations and American Sociological Association stylebook; how to conduct library and internet research as a basis for research writing; and specialized techniques for quantitative research papers, qualitative research papers, book reviews, compare and contrast papers and essay exams.
Prerequisite: SOCI 1301.

SOCI 3305. Intro to Community Leadership. 3 Hours.
Students in this course are introduced to definitions, types, and theories of community. Students learn basic community needs assessment, strengthen communication skills, and explore resource mobilization strategies through applied community experiences. Community leaders facilitate conversations about leadership techniques and challenges.

SOCI 3324. Social Inequality. 3 Hours.
This survey course studies the distribution of three primary resources: class, status and power. Special attention is given to the way birth-ascribed statuses such as age, sex and race interact with class, status and power stratification systems. Special attention is also given to the popular and scientific explanations of inequality, especially with respect to the high and low ends of the distribution of income and wealth.

SOCI 3325. Gender And Inequality. 3 Hours.
This course studies the influence of gender on socialization and placement in class, status and power stratification systems. It includes an analysis of institutional discrimination against women in major social institutions such as religion, education, family, heath care and work, and an examination of the feminization of poverty.
Prerequisite: SOCI 1301 or SOCI 2319 .

SOCI 3327. Sociology of Popular Culture. 3 Hours.
This course engages students in a critical analysis of popular culture in its cross-cultural and historical perspectives with the main focus on the role and character of popular culture in American society. Different forms and aspects of popular culture are considered in their dynamic relation to the cultural "mainstream", to everyday life of Americans, and to the core values of American society.
Prerequisite: SOCI 1301 or SOCI 2319.

SOCI 3335. Sociology of Food and Society. 3 Hours.
This course examines food from a sociological perspective, exploring the production, distribution, and consumption of food in today's globalized society.
Prerequisite: SOCI 1301 or SOCI 2319.

SOCI 3336. Social Change And Development. 3 Hours.
An analysis of world population growth and the associated problems of social development: urbanization, unemployment, secularization, hunger, and war.
Prerequisite: SOCI 1301 or SOCI 2319 and Junior standing .

SOCI 3338. Soclztn,Soc Cntr,Devnt So Bhvr. 3 Hours.
Examines structures and processes through which social systems (e.g., groups, institutions, organizations, and societies) secure and maintain order and social control. Sociological concepts, principles and theories used to explain sanctioning in various social systems whereby people are socialized to want to act the way they have to act for social order to prevail.
Prerequisite: SOCI 1301 or SOCI 2319.

SOCI 3341. Marriage And The Family. 3 Hours.
A sociological examination of marriage and family life. Problems of courtship, mate selection, and marriage adjustment in modern American society.

SOCI 3342. Sociology Of Religion. 3 Hours.
Identity and comparative understanding of religious beliefs and practices of peoples of the world. Attention is given to particular archaeological and ethnographic problems in the study of religion. Special emphasis is given to the functional perspective in examining the relation between religious beliefs and other institutions in selective social systems.
Prerequisite: SOCI 1301 or SOCI 2319 or consent of instructor.

SOCI 3354. Age And Inequality. 3 Hours.
This course underscores the influence of age on income and wealth, status and power. It includes an examination of institutional discrimination against the young and the old, as well as individual discrimination, such as child and elder abuse. It studies the relationship between life-cycle changes and changes in placement in the class, status and power stratification system.
Prerequisite: SOCI 1301 or SOCI 2319.

SOCI 3355. Race/Ethnic Inequality. 3 Hours.
This course examines ethnic stratification, i.e., placement in the class, status and power stratification systems on the basis of birth ascribed and socially defined race/ethnicity, and of the ideologies which serve to rationalize these inequalities. The course includes the study of institutional discrimination and ethnic stratification in major social institutions such as education, health care, religion and work. Broadly defined, ethnic stratification includes inequality based on other birth ascribed statuses, such as age and gender.
Prerequisite: SOCI 1301 orSOCI 2319.

SOCI 3365. Sociology Of Health & Illness. 3 Hours.
Processes by which persons assume, act, and relinquish the sick role; interrelationships between patient and family, doctors, and hospital; quality and quantity of health services distributed by class and race. Problems posed by ?mental illness?: diagnosis, treatment, and involuntary commitment.
Prerequisite: SOCI 1301 or SOCI 2319.

SOCI 3376. Rural And Urban Sociology. 3 Hours.
Examines the human community in its ecological, cultural, and associational aspects. The folk, rural, and urban community considered from the standpoint of various sociological perspectives. Special attention is given to social change, including decision-making as it affects local life.
Prerequisite: SOCI 1301 or SOCI 2319.

SOCI 3381. Cultural Anthropology. 3 Hours.
Cultural and social organization among primitive or preliterate societies; marriage, property, religion, magic and tribal control. Significance of the study of primitive cultures for understanding of urban industrial civilizations.
Prerequisite: SOCI 1301 or SOCI 2319.

SOCI 3384. Economy And Society. 3 Hours.
Changing employment opportunities for college graduates; blue collar, white collar, and professional lifestyles; origins of industrial society and effects on social stratification, minorities, and the family. Issues such as workers? control of industry, relationships between industry and government. Sociology of labor relations and personnel management.
Prerequisite: SOCI 1301 or SOCI 2319.

SOCI 3392. Social Movements. 3 Hours.
Examines the characteristics of social movements useful to the sociological study and interpretations of major social trends involving both social and cultural change in community and society. Theoretical frameworks for understanding and the causes, types, and theories of change in contemporary society are given special attention.
Prerequisite: SOCI 1301 or SOCI 2319.

SOCI 3443. Social Statistics. 4 Hours.
Examination of basic concepts, techniques and data necessary for an adequate understanding of social structure and change: observational, experimental, sample survey, and demographic. It includes an introduction to computers, computer software, and social statistics.
Prerequisite: SOCI 1301.

SOCI 4075. Rdgs in Sociology. 1-3 Hours.
Designed for advanced students in the behavioral sciences who are capable of independent study. Registration upon written approval of the chair of the department and of the instructor directing the course. Variable Credit (1-3).

SOCI 4327. Sociology of Everyday Life. 3 Hours.
Students in this course apply relevant sociological theories and concepts to interpret everyday life. Students explore the way the different aspects of social reality come together and become meaningful for individuals. Students focus primarily on contemporary US society with some cross-cultural and historical applications.
Prerequisite: SOCI 1301 or SOCI 2319.

SOCI 4330. Sociology of Migration. 3 Hours.
Students in this course are provided with an in-depth understanding of the theoretical tools that sociologists have developed for studying international migration. The course emphasizes the sociohistorical context of modern-day migration and the institutional forces that drive it. Students analyze the social and political processes by which legality and illegality are constructed and the consequences for immigrants and communities. Consideration is also given as to how inequalities based on race, class, and gender shape immigrants' experiences and ability to integrate into their receiving communities and the implications of these processes for social change.
Prerequisite: SOCI 1301 or SOCI 2319.

SOCI 4332. Soc Of Demography & Migration. 3 Hours.
This course introduces of the field of demography and explores theories and processes of population movement and migration. Special attention is given to effect of globalization on migration, migration streams, documented and undocumented migration, and assimilation of migrants. This course will focus on understanding the similarities and differences among immigrant groups who migrate with different social and human capital. The course also addresses immigration policies in the U. S.
Prerequisite: SOCI 1301 or SOCI 2319.

SOCI 4334. Sociology Of Disaster. 3 Hours.
Disasters are fundamentally social events. This course will investigate how culture, inequality, social structure and processes shape how people face disasters, how they respond and the ways in which they recover or fail to do so. How disasters may lead to rapid social change will also be explored. Students will learn the foundations of sociology of disaster theory, will examine a number of case studies and will apply theory to the in-depth study of one event. Writing enhanced.
Prerequisite: SOCI 1301 or SOCI 2319.

SOCI 4336. Social Organization. 3 Hours.
Examines the structure and functioning of large-scale organizations and bureaucratic social systems in various institutional settings (e.g., business or industry, health, education, religion, military, prison and political). Attention is given to personal and social consequences of organizational involvement.
Prerequisite: SOCI 1301 or SOCI 2319.

SOCI 4337. Environment And Society. 3 Hours.
The purpose of this course is to examine the ?environment? as a social and cultural issue. Topics discussed include an overview of the field of environmental sociology, traditional sociological perspectives on environmental issues, paradigmatic implications of environmental sociology, the development of environmental movement, the rise of environmental deterioration, public attitudes toward environmental issues, national environmental policies, and social impact assessment.
Prerequisite: SOCI 1301 or SOCI 2319.

SOCI 4338. Social Gerontology. 3 Hours.
In this course students examine current controversies in the field of Social Gerontology. Students explore the various sociological theories and methods employed in the study of social gerontology along with the biological and physiological changes related to aging. This course also explores the trends in the discipline of social gerontology, the impact of population aging on retirement patterns, income security, health care, long term care, and the politics of aging. Credit 3
Prerequisite: SOCI 1301 or SOCI 2319.

SOCI 4340. Rsch Methods In Sociology. 3 Hours.
This course is designed to introduce the student to the logic and character of scientific and alternative means of social inquiry. Examines the function of observation, concept formation, proposition arrangement and testing of theory as components of the scientific process in sociology.
Prerequisite: SOCI 1301.

SOCI 4344. Sociological Theory. 3 Hours.
A historical survey of the development of sociological thought. Emphasis is placed upon the growth of Sociology as a discipline, major areas of interest and major contributors.
Prerequisite: SOCI 1301.

SOCI 4379. Internship In Applied Sociolgy. 3 Hours.
This course is designed to allow advanced students in-depth exploration of sociological issues in an applied setting. Minimum of 120 hours in approved host organization, plus completion of academic requirements. Internships are unpaid. Fall and Spring only.
Prerequisite: Junior or senior Sociology majors, minimum GPA 3.0 or through special petition.

SOCI 4399. Senior Seminar In Sociology. 3 Hours.
The content of this seminar will have alternate emphasis placed, at the discretion of the instructor, on special areas or issues of Sociology meeting the career needs of Sociology majors, minors, and/or prospective teachers of Sociology.
Prerequisite: Advanced standing in Sociology and SOCI 1301 and SOCI 2399.

Spanish (SPAN)

SPAN 1411. Elementary Spanish I. 4 Hours.
For students who have had no previous instruction in Spanish. Introduction to Spanish pronunciation, vocabulary, and basic language codes stressing an oral approach to the language with special emphasis on conversation and oral drill. Two one-hour language laboratory periods weekly are required, one of which is a concurrent lab class enrollment. Native Spanish speakers should take the CLEP or register for SPAN 2312.
Prerequisite: For non-native speakers of Spanish.

SPAN 1412. Elementary Spanish II. 4 Hours.
This course is a continuation of SPN 1411. Language codes with more complexity are discussed and drilled. Stress is placed on aural and oral skills. Two one-hour language laboratory periods weekly are required, one of which is a concurrent lab class enrollment. For non-native speakers of Spanish. Native Spanish speakers should take the CLEP for placement.
Prerequisite: Grade of C or better in SPAN 1411 or equivalent.

SPAN 2311. Intermediate Spanish I. 3 Hours.
Readings of medium difficulty are used as a basis for reading and aural comprehension as well as for oral communication. For non-native speakers of Spanish. Native Spanish speakers should take the CLEP for placement.
Prerequisite: Grade of C or better in SPAN 1412 or equivalent.

SPAN 2312. Intermediate Spanish II. 3 Hours.
Continuation of SPAN 2311 with special emphasis on practical needs for communication.
Prerequisite: Grade of C or better in SPAN 2311 or equivalent.

SPAN 3361. Spanish Grammar & Composition. 3 Hours.
Study of the syntactical and morphological characteristics of the Spanish language with emphasis on developing the ability to write in Spanish.
Prerequisite: Grade of C or better in SPAN 2312, the equivalent of SPAN 2312, or consent of instructor.

SPAN 3362. Survey Of Spanish Literature I. 3 Hours.
A study of the development of the literature of Spain from the Middle Ages to the 18th century. Various eras, genres, and authors are studied.
Prerequisite: SPAN 1411, SPAN 1412, SPAN 2311, SPAN 2312 with a grade of C or higher.

SPAN 3363. Survey Of Spanish Lit II. 3 Hours.
Will focus on the literature of Spain beginning with the eighteenth century to the present. Masterworks from genres of drama, poetry, and prose will be read, discussed in Spanish and analyzed in written reports.
Prerequisite: SPAN 1411, SPAN 1412, SPAN 2311, SPAN 2312 with a grade of C or higher.

SPAN 3367. Principles Of Span Linguistics. 3 Hours.
A study of descriptive, applied, and contrastive linguistics.
Prerequisite: SPAN 1411, SPAN 1412, SPAN 2311, SPAN 2312 with a grade of C or higher.

SPAN 3368. Conversational Spanish I. 3 Hours.
Emphasis is placed on extemporaneous speaking and conversation. Reading materials from Spanish speaking countries will be included as a basis for conversation and composition. This course cannot be taken for credit by native Spanish speakers.
Prerequisite: SPAN 1411, SPAN 1412, SPAN 2311, SPAN 2312 with a grade of C or higher.

SPAN 3369. Conversational Spanish II. 3 Hours.
Emphasis is placed on extemporaneous speaking and conversation. Reading materials from Spanish speaking countries will be included as a basis for conversation and composition.
Prerequisite: SPAN 1411, SPAN 1412, SPAN 2311, SPAN 2312 with a grade of C or higher.

SPAN 3374. Intro-Lit Of Spanish America. 3 Hours.
Study of the texts of Spanish-American writers from the Conquest to the present with emphasis given to the historical, cultural, and political factors which influenced their writing. Instruction is in Spanish.
Prerequisite: SPAN 1411, SPAN 1412, SPAN 2311, SPAN 2312 with a grade of C or higher.

SPAN 3375. Genres In Spanish American Lit. 3 Hours.
Studies of themes and techniques of outstanding Spanish- American poets, dramatists or novelists.
Prerequisite: SPAN 1411, SPAN 1412, SPAN 2311, SPAN 2312 with a grade of C or higher.

SPAN 3380. Spanish Culture & Civilization. 3 Hours.
An overview of the culture and civilization of Spain.
Prerequisite: SPAN 1411,SPAN 1412, SPAN 2311, SPAN 2312 with a grade of C or higher.

SPAN 3381. Spanish Lit for Children. 3 Hours.
This course prepares students to teach Spanish and Spanish-American literature for children, its rhetorical and narrative characteristics, its development, and its symbolism in relation to the needs of the child and the culture. Instruction is conducted in Spanish.
Prerequisite: SPAN 1411,SPAN 1412, SPAN 2311, SPAN 2312 with a grade of C or higher.

SPAN 3385. Span-Amer Culture & Civilizatn. 3 Hours.
A study of the culture and civilization of the Spanish-speaking areas of the Americas.
Prerequisite: SPAN 1411,SPAN 1412, SPAN 2311, SPAN 2312 with a grade of C or higher.

SPAN 4075. Individual Readings in Spanish. 1-6 Hours.
Designed for the individual student who may need to study a particular era, genre, or author. Enrollment in this course is restricted and must be granted by department chair.Variable Credit (1-3).
Prerequisite: Advanced standing in Spanish.

SPAN 4361. Advanced Spanish Grammar. 3 Hours.
An in-depth study of the usage of the Spanish language as it relates to creative writing and scholarly reports.
Prerequisite: SPAN 1411, SPAN 1412, SPAN 2311, SPAN 2312 with a grade of C or higher.

SPAN 4362. History of the Spanish Languag. 3 Hours.
This course outlines the history of the Spanish language over the last two millennia, focusing on the formal development of its phonology, morphology, syntax and semantics.
Prerequisite: SPAN 1411, SPAN 1412, SPAN 2311, SPAN 2312, and SPAN 3367 with a grade of C or higher.

SPAN 4364. Spanish American Prose. 3 Hours.
A study of selected authors, short stories, essays, or novels. Emphasis on themes, techniques, and current literary themes.
Prerequisite: SPAN 1411,SPAN 1412, SPAN 2311, SPAN 2312 with a grade of C or higher.

SPAN 4365. Pablo Picasso & Spanish Art. 3 Hours.
This course examines the interplay between Spanish culture and Spanish art using Pablo Picasso as a central unifying figure in order to relate past, present, and future aspects of Spanish heritage.
Prerequisite: SPAN 1411, SPAN 1412, SPAN 2311, SPAN 2312 with a grade of C or higher.

SPAN 4366. Spanish Phonetics. 3 Hours.
This course is an introduction to the scientific study of the sounds of Spanish. The two essential goals of the course are to discuss the ways in which English and Spanish sounds differ, and to help improve pronunciation of the Spanish language. Advanced Standing in Spanish.
Prerequisite: SPAN 1411,SPAN 1412, SPAN 2311, SPAN 2312, and SPAN 3367 with a grade of C or higher.

SPAN 4370. Seminar in Selected Topics Literacy, Language, and Civilization. 3 Hours.
An in-depth study of a selected topic. The topic to be explored will change from year to year. This course may be repeated for credit as the content varies.
Prerequisite: SPAN 1411, SPAN 1412, SPAN 2311, SPAN 2312 with a grade of C or higher.

SPAN 4371. Spanish for Criminal Justice. 3 Hours.
Study of Spanish and Spanish-related issues and topics for Criminal Justice, criminology, law enforcement, and Sociology.
Prerequisite: Consent of Chair.

SPAN 4372. Spanish for Business. 3 Hours.
Study of business terminology in Spanish related to banking, accounting, international trade, marketing, management, and finance and of cultural aspects of Latin America and Spain, with practice in speaking, reading and translating business Spanish. Credit 3 hours.
Prerequisite: SPAN 1411,SPAN 1412, SPAN 2311, SPAN 2312 with a grade of C or higher.

SPAN 4373. Spanish for Mass Communication. 3 Hours.
Students in this course examine the Spanish language as it relates to radio, television, newspaper, and other media sources in the context of Hispanic culture. The course surveys the history of journalistic genres in Spain, Latin America, and the United States. The course builds language proficiency using a contextualized, content-based approach.
Prerequisite: SPAN 3361.

SPAN 4374. Spanish for Health Professions. 3 Hours.
This course promotes the development of enhanced Spanish-language ability for professionals in the health care industry. The close relationship between language and culture will also foster the heightened awareness of ethnic, gender, and multicultural consciousness.
Prerequisite: SPAN 2312 .

Special Education (SPED)

SPED 2301. Introduction to Exceptionality. 3 Hours.
Issues and trends in special education are examined. An overview of the characteristics of persons with disabilities is also presented. This course consists of essential issues and theories relating to special education. Special emphasis is placed upon multi-cultural and legal issues in the field of special education.

SPED 3301. Learn and Instruc Child W/Disa. 3 Hours.
This course provides pre-service teachers with instructional strategies for working with students who are at risk or identified with a disability. Pre-service teachers will demonstrate their knowledge of best practices by analyzing and critiquing various texts (including multimedia) and creating appropriate learning tasks for students at risk or with disabilities. The course will also provide opportunities for pre-service teachers to generate modifications or accommodations to curriculum and instruction to meet the individual needs of learners.
Prerequisite: SPED 2301.

SPED 3302. Emotional/Behavioral Disorders. 3 Hours.
This course provides a study of the defining characteristics, systems of assessment and classification, theories of causality, and interventions for students with Emotional and Behavioral Disorders.
Prerequisite: Sophomore, junior or senior classification and SPED 2301.

SPED 3303. Supporting Social Success. 3 Hours.
This course addresses a variety of instructional techniques that can be utilized to change, maintain, increase, or decrease individual and group behaviors. Proactive behavioral intervention techniques from a variety of theoretical models are examined. Behavioral change strategies emphasize functional assessment principles, positive behavioral supports, and self-management. The basic principles, tools, and techniques of communicating with parents of children with disabilities and implementing parent education programs also are addressed.
Prerequisite: SPED 2301.

SPED 3304. Stdy Lrng/Lrng Disabilities. 3 Hours.
Learning disabilities are examined with a focus on history, definition, causation, teaching methods and inclusive practices. Emphasis is placed on the appropriate selection of assessment and teaching strategies, lesson planning, and use of technology for students with special needs.
Prerequisite: SPED 2301.

SPED 3305. Assessment Practices in SPED. 3 Hours.
An overview of formal and informal assessment for special education is provided. This course includes basic concepts of measurement, assessment of academic achievement, screening tools, diagnostic testing, review of individual and group intelligence tests, perceptual skills, sensory acuity and adaptive behavior.
Prerequisite: Junior or senior classification, SPED 2301, SPED 3302, and SPED 3304.

SPED 3306. Behavioral Principles. 3 Hours.
This course examines basic behavioral principles including reinforcement, punishment, stimulus control, and measurement of behavior. Specific procedures are presented for establishing new behavior, increasing desirable behavior, and decreasing undesirable behavior for individuals with disabilities. Ethical considerations also are addressed.

SPED 3307. Behavrl Assmt,Intventn & Eval. 3 Hours.
This course provides the interventionist with the techniques for designing, implementing, and evaluating behavioral interventions appropriate for individuals with Autism and related disabilities. Ethics of behavioral interventions will also be discussed. Junior or senior classification.
Prerequisite: SPED 3306.

SPED 3308. Behvr Intrventn & Resrch Methd. 3 Hours.
All of the elements of single-subject research design are examined, providing practical information for assessing, designing, implementing, and evaluating behavior analytic techniques and curriculum for educating children with autism and related disorders. Ethics for practicing Behavior Analysts will also be examined.
Prerequisite: Junior or senior classification, SPED 3306 and SPED 3307.

SPED 3309. Ethics in Behavior Analysis. 3 Hours.
Students are introduced to ethics, standards and guidelines in the area of applied behavior analysis. Ethical standards and guidelines of professional organizations are presented along with an analysis of how they affect service delivery. Students are provided with an overview of various strategies for personnel supervision and management.
Prerequisite: SPED 3306.

SPED 3310. Advanced Behavior Analysis. 3 Hours.
Students are introduced to the advanced study of human behavior from a behavior-analytic perspective. Emphasis is placed on theory, knowledge of current issues, and techniques for evaluating and teaching verbal behavior to individuals with autism or related disorders. Prerequisite:
Prerequisite: SPED 3306,3307,3308.

SPED 3312. Family & Dvrsty Issues in SPED. 3 Hours.
In this course, candidates learn about variations in family structure and the functions that contribute to diversity issues in special education. Students analyze and discuss various perspectives related to challenges and strengths of families of students with exceptionalities.
Prerequisite: SPED 2301.

SPED 4088. Special Topics in Special Ed. 3 Hours.

SPED 4089. Independent Study in Special Education. 1-3 Hours.
Designed to permit individual students to study specific areas of interest and need.
Prerequisite: Approval of Department Chair.

SPED 4301. Stdy-Cognitive/Low Incidnc Dis. 3 Hours.
This course includes a study of the characteristics and needs of students with intellectual disabilities. Topics include appropriate curriculum methods and instructional needs for all ages, life span issues, vocational, and transition issues. Twenty (20) hours of field placement required. This course must be taken concurrently with SPED 4302.
Prerequisite: SPED 2301, SPED 3302, SPED 3303 and SPED 3304.

SPED 4302. Collabrtv Partnr Across Lifesp. 3 Hours.
This course is designed to equip the prospective teacher with the collaborative skills needed in inclusive school and community environments. Areas that are emphasized include adaptations for instruction, transition planning, vocational/career education, and assistive technology. Twenty (20) hours of field placement required. This course must be taken concurrently with SPED 4301.
Prerequisite: SPED 2301, SPED 3302, SPED 3303 and SPED 3304.

SPED 4304. Transition Planning in SPED. 3 Hours.
In this course, students examine the intersection between ethics, collaboration, and transition planning for students with exceptionalities. Special emphasis is placed on creating a transition plan for adolescents with exceptionalities as they move from school to post-school activities. Fifteen hours of field experience in settings that serve individuals with severe and profound disabilities is required as part of this course.
Prerequisite: 60 hours of course credit and SPED 2301, SPED 3303, SPED 3312, and SPED 4314.

SPED 4305. Student Teaching In Spec Ed. 3 Hours.
(SH Prior Course ID: SPD 484); The candidate is assigned a student teaching placement in a special education classroom for a period of 7 weeks. This time is divided among classroom assistance, instructional planning, classroom and individual instruction, and conference activities. The candidate will create a Teacher Work Sample during this placement, a project demonstrating master of the components of effective instruction and student learning. Successful completion of the Teacher Work Sample is required for program completion. SPED 4305 must be taken with CIEE 4391 and other courses required during the student teaching semester.
Prerequisite: Senior status and admission to student teaching.

SPED 4311. Content Learning in SPED. 3 Hours.
In this course, candidates focus on learning characteristics and teaching methods in academic content areas for students with exceptionalities. Emphasis is placed on the selection and implementation of assessment, instructional strategies, lesson planning, and inclusive practices for students with high incidence disabilities. Fifteen hours of field experience is required as part of this course.
Prerequisite: 60 hours of course credit and SPED 2301, SPED 3303, SPED 3312, and SPED 4314.

SPED 4314. Literacy-Students with Exceptionalities. 3 Hours.
Candidates focus on methods of assessment and instruction related to teaching multiliteracies to students with exceptionalities. Students in this course gain competency in using formative assessments to identify students with severe and persistent literacy difficulties, and gain expertise in and knowledge of teaching approaches and curricula for improving childrens' literacy. Fifteen hours of field experience is required as part of this course. Co-requisite: TESL 4314 and ECHE 4343.
Prerequisite: SPED 2301.

Statistics (STAT)

STAT 1369. Elementary Statistics. 3 Hours.
This is a survey course in elementary statistics designed to acquaint students with the role of statistics in society. Coverage includes graphical descriptive methods, measures of central tendency and variation, the basic concepts of statistical inference, the notion of estimators, confidence intervals, and tests of hypotheses. Also offered as MATH 1369.
Prerequisite: Passing score on the MATH TSI Assessment or equivalent.

STAT 3379. Statistical Methds In Practice. 3 Hours.
Topics include organization and presentation of data; measures of central tendency, dispersion, and position; probability distributions for discrete and continuous random variables, sampling techniques, parameter estimation, and hypothesis testing. Emphasis will be given to the use of statistical packages. Also offered as MATH 3379.
Prerequisite: Three (3) semester hours of college mathematics.

STAT 3380. Stat Desgn & Anal Of Experimts. 3 Hours.
Topics include sampling designs and hypothesis testing in analysis of variance, analysis of covariance, and regression analysis. Design characteristics, model diagnostics, and hypothesis testing will be emphasized and work will be required on real data. The MINITAB and SAS statistics packages will be applied. Normally offered in the Spring semester.
Prerequisite: STAT 3379 or MATH 3379.

STAT 3381. Sample Survey Methods. 3 Hours.
The course treats principles needed in planning and conducting sample surveys. Topics include random, stratified, systematic, and cluster sampling methods as well as sub sampling techniques.
Prerequisite: STAT 3379 or MATH 3379.

STAT 4090. Independent Study. 1-3 Hours.
This course is designed for advanced students to engage in independent study of an area of interest in statistics under the close guidance of a faculty mentor. Prerequisite: Consent of instructor. Variable credit (1 to 3).
Prerequisite: Consent of instructor.

STAT 4370. Special Topics In Statistics. 3 Hours.
This course is designed to accommodate independent study and research with content determined by mutual agreement of student and supervisor. However, it may also be taught as a special organized class when there is sufficient student interest in a particular project. Such topics as survival analysis, modeling and analysis, categorical data analysis, biostatistics, Monte-Carlo techniques, and bootstrapping may be included. This course may be taken for Academic Distinction credit. (See Academic Distinction Program in this catalog.) May be repeated for credit.
Prerequisite: MATH 3379 or STAT 3379, and consent of instructor.

STAT 4371. Thry & Appl Of Prob & Stat I. 3 Hours.
Topics include basic concepts and properties of probability, random variables, statistical distributions, measures of central tendency, variance, covariance, correlation, functions of random variables, sampling distributions, and the Central Limit Theorem. Also offered as MATH 4371. Normally offered in the Fall semester.
Prerequisite: MATH 1430.

STAT 4372. Thry & Aplctn Of Prob & Sta II. 3 Hours.
Topics include multivariate, conditional and marginal distributions, point and interval estimation, theory of estimation, maximum likelihood estimates, hypothesis testing, likelihood ratio tests, contingency analysis, and nonparametric statistics. Also offered as MATH 4372. Normally offered in the Spring.
Prerequisite: MATH 2440 and STAT 4371.

STAT 4373. Nonparametric Statistics. 3 Hours.
Topics include chi-square goodness-of-fit testing and inferences concerning location and scale. Specific tests include the sign test, Wilcoxon signed-rank test, the Kruskal-Wallis test, tests for randomness and trends, and contingency analyses.
Prerequisite: STAT 3379 or MATH 3379.

STAT 4374. Regression Modeling & Analysis. 3 Hours.
Topics include model estimation and testing, model diagnostics, residual analysis, variables selection, and multicollinearity. Work will be required on real data with the use of the MINITAB and SAS statistics packages.
Prerequisite: STAT 3379 or MATH 3379.

STAT 4375. Quality Control & Reliability. 3 Hours.
In this course, students examine topics such as attribute and variables control charts, process capability, acceptance sampling, probabilistic foundations of reliability, hazard functions, failure laws, and system reliability.
Prerequisite: MATH 3379 or STAT 3379.

STAT 4376. Time Series and Forecasting. 3 Hours.
In this course, students examine topics such as types and classification of time series, methods of forecasting, errors in forecasting, regression analysis for time series, decomposition methods, exponential smoothing, Box-Jenkins methods, nonseasonal and seasonal modeling, and transfer function and intervention models.
Prerequisite: MATH 3379 or STAT 3379.

String Bass (STBS)

STBS 1201. Ind Performances-Strg Bass. 2 Hours.

STBS 3201. Ind Performances-Strg Bass. 2 Hours.

STBS 3202. Applied String Bass W/ Jr Rect. 2 Hours.

Teach English as Second Lang (TESL)

TESL 3303. Litr Strat for Eng Lng Lrners. 3 Hours.
This course emphasizes linguistic and cultural principles, lesson planning, practical methods, curricula and materials for teaching English to speakers of other languages in pre-kindergarten to sixth grade classrooms. Students will gain first-hand experience working with linguistically and culturally diverse students in Texas schools.
Prerequisite: BESL 2301, BESL 3301.

TESL 3313. ESL Methodology I. 3 Hours.
In this course, candidates will study linguistic and cultural principles in language teaching and learning. Emphasis is placed on research-based English as a Second Language (ESL) methodology in the classroom. Students observe ESL classroom practices and create lesson plans and materials for English language learners. Ten hours of field experience is required as part of the course. Co-requisite: READ 3383, READ 3384 and CIEE 4336.
Prerequisite: BESL 3301.

TESL 4303. Teaching Eng As A Second Lang. 3 Hours.
The course identifies current instructional methods and approaches to teaching English as a second language to nonnative speakers of English beginning at the early childhood level through adult. Principles and concepts of second language learning, linguistic contrasts between English and other languages, and the instructional processes are emphasized. Field experience in PK-12 schools required.
Prerequisite: Junior standing and BESL 2301.

TESL 4314. ESL Methodology II. 3 Hours.
In this course, candidates apply research based methods in planning and implementing instruction for English language learners in the content areas. Students develop curricular materials and assessments for English language learners at all levels of English language proficiency. Fifteen hours of field experience is required as part of the course. Co-requisite: SPED 4311 and ECHE 4343.
Prerequisite: TESL 3313.

Theatre (THEA)

THEA 1100. Singing for Actors. 1 Hour.
This specialized voice class is designed to introduce singing technique in a group setting to Theatre majors with an acting/directing emphasis.

THEA 1115. Tech Build Crew. 1 Hour.
Tech Build Crew focuses on practical work that deals with construction aspects of theatrical productions. Those aspects include carpentry, theatrical rigging, lighting, sound, scenery, props, scenic painting, special effects, welding, the basics of running a show and general theater maintenance.

THEA 1116. Costume Crew. 1 Hour.
This course prepares students to work with costumes for a production, dress actors and help with hair and make-up during the run of the show. Additional duties include maintaining garments, stock and the costume and make-up areas throughout the run.

THEA 1117. Management Crew. 1 Hour.
This course introduces the student to the logistics of theatre management. Topics include box office training, patron service training, promotional designs, advertisement and public relations. This is a practical crew course consisting of actual work on Theatre Department productions.

THEA 1330. Intro to Scenic Technology. 3 Hours.
Introduction to theatrical production. An overview of the elements of production to include an introduction to the basic components of theatre technology, stage scenery, stage lighting, theatrical costuming, stage management, theatre management, and script analysis. This course is designed to introduce the student to all areas of theatrical production.

THEA 1331. Intro to Lighting Technology. 3 Hours.
Introduction to theatre technology. A focus on the techniques and methods in set construction, lighting and sound technology, property construction, and theatrical production techniques.

THEA 1332. Intro to Costume Technology. 3 Hours.
A study of the basic techniques of costuming, sewing, dyeing, and distressing fabrics.

THEA 1364. Beginning Acting. 3 Hours.
A study of basic techniques in body, voice, characterization, and play analysis as they are applied to the performance of stage tasks by the actor.

THEA 1366. Theatre Appreciation. 3 Hours.
An analysis of the theatrical experience for the audience. Examination of theatreis relation to the broad contemporary scene and its relation to past eras. Examination of the production elements necessary to provide the theatrical experience.

THEA 2330. Stage Make Up. 3 Hours.
A survey of the reasons for stage make-up and the types of make-up available. Principles of designing make-up for characters in a play. Intensive practical application.

THEA 2336. Voice I for the Actor. 3 Hours.
Beginning training in the release of the voice for effective communication. Work on breathing, projection, placement, articulation, resonance, and quality.

THEA 2337. Voice II for the Actor. 3 Hours.
Advanced training in application of appropriate vocal techniques to produce optimum control of quality, projection, and precision in diction. Ultimately the application is in fusing technique with the actoris interpretation of roles.
Prerequisite: THEA 2336, THEA 1364, or consent of the instructor.

THEA 2359. Hand Drafting in Theatre. 3 Hours.
This course is a study of hand drafting techniques for the design and construction of theatrical scenery. Students will learn how to utilize hand drafting tools and how to read and create design drafting packages for the theatre.

THEA 2360. Beginning Design. 3 Hours.
Introduction to the methods, concepts and materials of designing for theatre, including the basic element s of set design, properties design, lighting design, and sound design for the stage. Students will be introduced to the methods of developing a design from script analysis to presentation of the completed design.
Prerequisite: THEA 1331 or permission of instructor.

THEA 2361. Computer Drafting in Theatre. 3 Hours.
Introduction to computer aided drafting and design for theatrical applications. Practical approach to computer drafting of floor plans, elevations, sections, light plots, and organizational diagrams using popular CAD software developed specifically for theatrical applications as well as programs like AutoCAD and Project Manager.
Prerequisite: THEA 1331 or permission of instructor.

THEA 2367. Play Analysis. 3 Hours.
This course examines the methodology for analyzing dramatic masterworks primarily as tools for the theatre craftsman and emphasizes the importance of this practical skill for actors, directors, designers and playwrights. While focusing on the dramatic structure of a script in various plays, this course will concurrently examine the playwright's social and cultural milieu.
Prerequisite: THEA 1364.

THEA 2368. Intermediate Acting. 3 Hours.
A concentration on the techniques of freeing the body, body language, and movement in the development of characterization and actor technique.
Prerequisite: THEA 1364 or consent of instructor.

THEA 3114. Theatre Workshop. 1 Hour.
One semester hour of credit may be received per semester for work done in this practical workshop consisting of actual work on productions. May be repeated for credit.
Prerequisite: Junior or higher standing or by audition.

THEA 3115. Advanced Tech Build Crew. 1 Hour.
This course focuses on practical work dealing with advanced construction skills of theatrical productions. Those skills include carpentry, theatrical rigging, lighting, sound, scenery, props, scenic painting, special effects, welding, the basics of running a show and general theater maintenance. Focus is placed on advanced logistics of being on a backstage crew to run theatrical productions.
Prerequisite: THEA 1115.

THEA 3116. Advanced Costume Crew. 1 Hour.
This course will teach advanced costume construction techniques. Students will prepare the costumes for a production. Students will learn to supervise a run crew during a show and help with hair and stage make-up. Additional duties include maintaining garments, stock and the costume and make-up areas throughout the run.
Prerequisite: THEA 1116.

THEA 3117. Musical Theatre Workshop. 1 Hour.
Junior and Senior levels to synthesize musical theatre majorsi work in music, theatre and dance. May be repeated for credit. Required of all Musical Theatre majors every semester.
Prerequisite: Musical Theatre Majors.

THEA 3127. Advanced Theatre Mgmt. Crew. 1 Hour.
This course introduces the student to advanced concepts and logistics of theatre management. Topics include advanced box office training, patron service training, ushering, learning new formats and software for poster and program designs, advertisement and public relations. Additionally, students in this course will mentor students who are participating in THEA 1117. This is a practical crew consisting of advanced work on Theatre Department productions.
Prerequisite: THEA 1117.

THEA 3331. Advanced Stage Make Up. 3 Hours.
Investigation of and experimentation with three-dimensional makeup constructions to provide drastic alteration of the actoris face for stage, film, and television.
Prerequisite: THEA 2330 or consent of the instructor.

THEA 3332. Computer Rendering for Theatre. 3 Hours.
This is a skills-based course that gives students experience in using the computer to create visual documentation in the design process. Subject areas include: set renderings; costume renderings; painters elevations; and scenic models.

THEA 3334. Stage Costume Design. 3 Hours.
A survey of historical costume; contrast of general clothing with stage costume; and consideration of all elements involved in designing costumes for an entire production.
Prerequisite: Sophomore standing.

THEA 3335. Costume Construction. 3 Hours.
Pattern drafting and construction techniques for period costumes. Projects may include bodices, skirts, corsets, panniers, bustles, crinolines, and 18th and 19th century mens' coats.
Prerequisite: THEA 3334 or THEA 3337 or consent of the instructor.

THEA 3336. Scenic Design. 3 Hours.
This course prepares students how to both design and communicate a theatrical space. The process will be based on script analysis and research through model making, ground plans, and hand sketches.
Prerequisite: THEA 1330 or instructor approval.

THEA 3337. History Of Costume. 3 Hours.
A survey of historical costumes and accessories by periods from ancient Egypt to the present day; contrast of general clothin with stage costumes.
Prerequisite: Sophomore standing or consent of instructor.

THEA 3360. History Of The Theatre I. 3 Hours.
A survey of the origins of the theatre, with major concentration centered upon the development of the western theatre from the Greeks to the Neoclassic.
Prerequisite: ENGL 1301 and ENGL 1302.

THEA 3362. Lighting and Sound Design. 3 Hours.
Students will investigate the use of light and sound in a theatre space. They will design for the performer and the action of the play and develop lighting effects, sound effects, and special effects. Additionally, the student will begin to explore the use of microphone technology.
Prerequisite: THEA 2360 and THEA 2361.

THEA 3363. Property Design for Theatre. 3 Hours.
This course concentrates on the tools and techniques used by professional designers in the design and construction of properties for theatre. Topics covered are transforming found objects, period research, texturing, molding, casting, computer generated properties, and painting.

THEA 3364. Dramaturgy. 3 Hours.
This course is a study of production dramaturgy: an exploration and application of the processes, research, and resources used by academic and professional theatres, combining knowledge with creativity in order to make informed production choices. ENGL 1301 and ENGL 1302.
Prerequisite: Junior standing or consent of instructor.

THEA 3365. Stage & Theatre Management. 3 Hours.
Advanced study of theatre management with an emphasis on the organizational, technical and management responsibilities of a stage manager as well as the public relations and marketing skills needed to run a house and box office. Included will be a focus on the establishment of a collaborative atmosphere within a production team or within a theatre company.

THEA 3369. Advanced Acting: Modern Thtre. 3 Hours.
Detailed study of action and characterization through scene study, research, and self-use, utilizing interior and exterior methods to develop a working method for each actor.
Prerequisite: THEA 1364, THEA 2368 or consent of instructor.

THEA 3370. Advanced Acting: Class. Thetre. 3 Hours.
Advanced scene study with concentration on textual analysis, structure, diction, and rhythm of the script.
Prerequisite: 9 hours of acting courses or consent of instructor.

THEA 3372. Improvisational Techniques. 3 Hours.
This course is designed to develop studentsi use of improvisations, games, and ritual to enhance creative thinking, problem solving skills, characterization, and trust within the rehearsal process.
Prerequisite: THEA 1364 or consent of instructor.

THEA 3373. Stage Movemnt I for the Actor. 3 Hours.
This course is designed to increase awareness and command of the body as an expressive instrument. Through specialized in-class exercises, actors will increase their dynamic stage presence; develop a supple, responsive physicality, and increase awareness of kinesthetic ensemble response.

THEA 3374. The Actor & Commedia dell'Arte. 3 Hours.
This course trains actors using stock characters of Commedia dell'Arte, an Italian theatrical form. Specialized in-class exercises, exploration of maskwork and clowning lead students to find an awareness of their own habits in characterizations. Students broaden their physical expressiveness leading to a heightened and vibrant stage presence.
Prerequisite: Sophomore standing.

THEA 3395. Acting In Major Roles. 3 Hours.
This course allows credit for performing a major role in Theatre Program productions, involving research, rehearsal and performance during the nine-month academic year. May be repeated for credit.
Prerequisite: Junior or higher standing or by audition.

THEA 4092. Independent Study. 1-3 Hours.

THEA 4093. Theatre Internship. 3 Hours.
This course is a practical application of skills and knowledge learned in the classroom for students who have completed appropriate courses and achieved an acceptable GPA. Internships may be arranged with an approved theatre. Entrance into this course requires permission of the department chair. Variable Credit (1-3).
Prerequisite: Theatre or Musical Theatre majors only.

THEA 4094. Special Topics. 1-3 Hours.

THEA 4190. Senior Showcase. 1 Hour.
An extension of THEA 3117 Musical Theatre Workshop, the Senior Showcase is a research, collaboration and preparation class for those senior musical theatre majors chosen to participate.
Prerequisite: Departmental approval.

THEA 4325. Stage Movemnt II for the Actor. 3 Hours.
This course is designed to lead the student toward an advanced awareness of the body as an expressive instrument. Students employ advanced kinesthetic ensemble responses as they begin to foster original work, coalescing all facets of advanced theatre movement to form the beginning of new work.
Prerequisite: THEA 3373.

THEA 4326. Stage Combat. 3 Hours.
This course focuses on specific stage combat disciplines with compulsory techniques. Students learn hand-to-hand combat, rapier and dagger, and other forms of violance found on stage and film. Each stage combat technique is taught for safety, theatrical commitment and believability within a dramatic context.
Prerequisite: Junior standing or permission from the instructor.

THEA 4330. Advanced Scenic Design. 3 Hours.
Advanced design. Students will be involved in creating scenic, lighting, and sound design projects. The course will include extensive sketching, rendering, computer drafting, and model building.
Prerequisite: THEA 1330, junior standing or consent of the instructor.

THEA 4331. Acting For The Camera. 3 Hours.
An intensive and practical study of the special techniques of acting for film and television with the goal of work in those industries; extensive scene work in front of the camera. Must be a Theatre or Musical Theatre major.
Prerequisite: THEA 1364, THEA 2368, THEA 3369 and consent of the instructor.

THEA 4332. Auditioning For Comm Theatre. 3 Hours.
The preparation of audition materials which suit the variety of demands in the commercial world of theatre, musical theatre, cinema, and television.
Prerequisite: Consent of the instructor.

THEA 4360. History Of The Theatre II. 3 Hours.
A survey of changing styles in theatre, from the Romantic revolution through the Realistic movement to the innovations of the twentieth century theatre.
Prerequisite: ENGL 1301 and ENGL 1302.

THEA 4361. Stage Lighting. 3 Hours.
The study of lighting design as an art; the history of stage lighting and a study of contemporary stage lighting techniques, practices, and equipment. Students will design lighting for a show of their own choosing.
Prerequisite: THEA 1331, THEA 3362 and basic computer literacy or consent of instructor.

THEA 4362. Playwriting. 3 Hours.
A study of the elements of playwriting through writing exercises designed to enhance the understanding of structure, style, character and dialogue.
Prerequisite: Junior standing or consent of instructor.

THEA 4363. Dramatic Theory & Criticism. 3 Hours.
A study of the principles of various styles and periods of dramaturgy, involving a history of criticism from Aristotle to the present. Representative plays will be analyzed for theme, structure, characterization and dialogue with a view to their influences on contemporary theatre. Emphasis is placed on written student criticism and evaluation of plays.
Prerequisite: ENGL 1301 and ENGL 1302.

THEA 4365. Portfolio Development. 3 Hours.
Students will develop individualized projects in scenery, costume, lighting, sound, or technical production. Prerequisite two of the following design courses: THEA 3334, THEA 4330, OR THEA 4361; consent of instructor.

THEA 4366. Directing I. 3 Hours.
Prerequisites: THEA 1364, THEA 2368 and THEA 3369 and/ or consent of the instructor.

THEA 4367. Directing II. 3 Hours.
Basic director preparation in script analysis, communication skills, creating ground plans and scene study through a wide variety of theatrical styles and direction of scenes.
Prerequisite: Junior standing.

THEA 4368. Experimental Theatre Productio. 3 Hours.
Analysis of plays that depart from the realistic genre and examination of new production possibilities arising out of developments in theatre technology that will complement the experiments of the playwrights. Application of theory in laboratory productions.

THEA 4371. The American Musical Theatre. 3 Hours.
The history of the development of musical theatre (excluding opera) in America. Emphasis is placed on written student criticism and evaluation of musical theatre.

THEA 4376. Scene Painting. 3 Hours.
This course will focus on advanced theatre scenic painting techniques. Theatre scenery encompasses large-scale painting, faux finishes, drops, and textures. By using a variety of painting tools and materials, students will produce professional-quality projects that meet theatre industry standards.
Prerequisite: THEA 1330.

THEA 4387. Worksp Chldrns Creative Drama. 3 Hours.
Fundamental theories and elements of creative drama, with emphasis in developing and guiding creative drama activities such as storytelling, improvisation, rhythmic and interpretative movement, puppetry, theatre in education techniques and pantomime. The course is designed for prospective teachers grades K-12.

THEA 4388. Theatre Production for Youth. 3 Hours.
Students in this course will study and practice creating and performing theatre for youth. The focus on techniques for creating professional theatre for young audiences will include performances in the community. The course teaches lesson plan development following Texas Essential Knowledge and Skills (TEKS) standards.

THEA 4389. Repertory Theatre. 3 Hours.
A unified approach to theatre, contrasted with the compartmentalized division of labor used more frequently, allowing the self-contained group to do all of the production work as well as the acting. May be repeated for credit. Offered in summer terms.

THEA 4392. Undergrad Seminar In Theatre. 3 Hours.
A course for the undergraduate student which will allow a student to pursue particular areas beyond the limits of current course offerings. The particular study, however, will be within the studentis areas of specialization. May be repeated for credit.
Prerequisite: Permission of the Program Coordinator.

Trombone (TRMB)

TRMB 1201. Ind Performances-Trombone. 2 Hours.

TRMB 3201. Ind Performances-Trombone. 2 Hours.

TRMB 3202. Applied Trombone W/ Jr Recital. 2 Hours.

Trumpet (TRMT)

TRMT 1201. Ind Performances-Trumpet. 2 Hours.

TRMT 3201. Ind Performances-Trumpet. 2 Hours.

TRMT 3202. Applied Trumpet W/ Jr Recital. 2 Hours.

Tuba (TUBA)

TUBA 1201. Ind Performances-Tuba. 2 Hours.

TUBA 3201. Ind Performances-Tuba. 2 Hours.

TUBA 3202. Applied Tuba With Jr Recital. 2 Hours.

University-Wide (UNIV)

UNIV 1301. Intro To Collegiate Studies. 3 Hours.
UNIV 1301 is a seminar designed to enhance the first-year experience for beginning college students and to increase student success in college. The varied content of the course will facilitate a smoother transition into the college culture. Content areas include: goal setting and time management skills, writing skills, test preparation and taking skills, critical thinking skills, major and career exploration, locating and utilizing campus resources, diversity awareness, wellness strategies, money management, and leadership/civic service awareness. Writing enhanced. Juniors and Seniors will need to contact the FLC Office for approval.
Prerequisite: Open to Freshman and Sophomore students.

UNIV 4301. Gen Studies Capstone Project. 3 Hours.
Students will conduct career exploration activities as well as complete a capstone project linking the three minor areas of study that comprise the student's personalized Bachelor of General Studies degree. Students will have research, review, and analyze the three academic minor areas and meld them into an innovative research report.

Vinlincello (VNCL)

VNCL 1201. Ind Performances-Violncello. 2 Hours.

VNCL 3201. Ind Performances-Violncello. 2 Hours.

VNCL 3202. Applied Cello W/ Jr Recital. 2 Hours.

Viola (VIOL)

VIOL 1201. Ind Performances-Viola. 2 Hours.

VIOL 3201. Ind Performances-Viola. 2 Hours.

VIOL 3202. Applice Viola W/ Jr Recital. 2 Hours.

Violin (VILN)

VILN 1201. Individual Performances-Violin. 2 Hours.

VILN 3201. Individual Performances-Violin. 2 Hours.

VILN 3202. Applied Violin W/ Jr Recital. 2 Hours.

Voice (VOIC)

VOIC 1201. Ind Performances-Voice. 2 Hours.

VOIC 3201. Ind Performances-Voice. 2 Hours.

VOIC 3202. Applied Voice With Jr Recital. 2 Hours.

Wildlife Management (WMGT)

WMGT 2301. Principles of Wildlife Mgmt. 3 Hours.
The students in this course survey sustainable and profitable wildlife management techniques, habitats, and resources. Topics include alternative wildlife practices, animal and plant identification, ethical and economical considerations of wildlife and fisheries management, conservation, habitat alteration and renewal, and economic impact of the wildlife industry.

WMGT 2396. Special Topic. 3 Hours.
This course will examine special topics/issues in Wildlife Management at an introductory level. This course may be repeated up to three times as topics and subject matter changes. Credits 3.

WMGT 3301. Wildlife Ranch Management. 3 Hours.
The students in this course evaluate establishing, managing, and maintaining wildlife enterprises. The focus of this course is designing a profitable and sustainable ranch using both scientific and economic perspectives regarding livestock, as well as native and non-native wildlife species.
Prerequisite: WMGT 2301.

WMGT 3350. Cervid Fawn Care. 3 Hours.
Students examine the care of young cervid species from parturition to weaning with a main focus on white-tailed deer. Topics may include diagnosing and treating sick fawns, active and passive antibody transfer, fawn handling, immobilization, health, and birthing and weaning protocols.
Prerequisite: WMGT 2301.

WMGT 3381. Game Animal Production. 3 Hours.
A study of the principles and practices of game animal production. Game animals commonly used for economic diversification of agricultural enterprises are the central focus of the course. Topics include animal identification, population dynamics, nutrition, habitat preservation and modification, reproduction, game laws, and economic integration in traditional agricultural enterprises.
Prerequisite: ANSC 1319 and Sophomore or higher classification.

WMGT 3382. Habitat & Pond Management. 3 Hours.
Students in the course study wildlife habitat and riparian zone management, food plots for upland game birds and white-tailed deer, and pond management for largemouth bass, sunfish, and catfish production.
Prerequisite: WMGT 2301.

WMGT 4096. Directed Study. 1-6 Hours.
Arranged professional and developmental learning experiences incorporating a practical application of wildlife management skills and practices. To include internships, individual research and industry studies. Variable Credit (1 to 6).
Prerequisite: Sophomore standing.

WMGT 4301. Cervid Breeding and Production. 3 Hours.
The students in this course will examine production of the cervid species with a focus on white-tailed deer. Reproductive management practices pertaining to preferred, selective genetics and breeding cycles are be emphasized, with production based on an effective confinement management system. The primary topics include general industry cycles, reproductive techniques and cycles, weaning of offspring and vaccination protocols, immobilization, and interstate/intrastate movement of cervid species.
Prerequisite: WMGT 2301 and ANSC 4395.

WMGT 4302. Cervid Management. 3 Hours.
The students in this course examine the cervid industry from breeding to parturition. Cervid management is based on a confinement setting and focuses on anatomy and physiology, cervid nutrition during this stage of production, and feed types and feeding programs, cost of production, state and federal regulations, diseases and treatments, and fawn care.
Prerequisite: WMGT 2301 and ANSC 3373.

WMGT 4340. Exotic Animal Production. 3 Hours.
Students examine the multi-faceted exotic species industry in the state of Texas. Topics may include identification of species, habitat and nutritional needs, holding facility design, regulation and transportation requirements, marketing, cost of production, genetics, and determining market value.
Prerequisite: WMGT 2301.

WMGT 4341. Upland Game Bird Management. 3 Hours.
Students in this course conduct an in-depth investigation of upland game birds common in Texas. Topics may include identification, life cycles, plant and habitat identification, plant community succession, and the tools used to manage succession for successful upland game bird management.
Prerequisite: WMGT 2301.

WMGT 4369. Special Topic. 3 Hours.
Individual study in specialized areas of Wildlife Management. To be directed and approved by the Animal Science advisor. This course is designed to be a multi-topic course. The student can take the course under various special topics being offered.
Prerequisite: Junior standing.

FACULTY

See Interim Faculty

Tenured/Tenure-Track Faculty

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GLOSSARY

Academic Advisor
A professional who helps students with academic and career planning.

Academic Calendar
A calendar indicating key dates and deadlines for important academic requirements and/or activities including, but not limited to, the start and end dates of classes, holidays, exam days, and registration dates.

Academic Year
The time frame from the start of a fall semester until the start of the subsequent fall semester. It typically is divided into the fall, spring, and summer semesters.

Accreditation
An endorsement from an oversight organization indicating that the educational institution and/or academic degree program meets or exceeds specific measures of quality.

Advanced Courses
Courses with content designed to be taken during the junior or senior year. At SHSU, these courses are numbered in the 300s or 400s.

Advanced Credit
Credit earned for advanced courses at universities. Courses transferred from a community college do not earn advanced credit.

Audit, Course
Enrollment in a course as a non-credit seeking student, with no record on the transcript.

Bachelor's Degree
An academic credential from a university earned after completing a specific program of study. Typically, the program of study will include a general education component, a major, degree related requirements, and electives and/or a minor. The minimum number of credits is 120 hours.

CLEP
College **L**evel **E**xamination **P**rogram. A series of tests available to students to demonstrate proficiency in various college subjects. CLEP exams may be used to earn college credits for select courses.

Classification
Indication of a student's progress toward degree completion based upon the number of hours completed. The categories of undergraduate classification are Freshman, Sophomore, Junior, and Senior

Class Day
Any day in the academic semester when university classes are scheduled. The number of class days is used for drop dates, resignation dates, and tuition refund schedules. When determining the number of class days (e.g., 12th class day), start counting with the first day of on-campus daytime courses and increase by one each day the university has scheduled classes.

Closed Classes
Classes that have reached the designated maximum enrollment capacity or are not available for on-line registration.

Commencement
An event during which degrees are awarded to graduating students. SHSU holds commencement ceremonies every May, August, and December.

Concurrent Enrollment
Enrollment in courses at two institutions during the same semester.

Core Curriculum
The curriculum in liberal arts, humanities, sciences, and political, social, and cultural history that all undergraduate students of an institution of higher education are required to complete as part of an undergraduate academic degree program. Also referred to as the general education component.

Course Equivalency Guide
A table listing courses from a specific institution and the corresponding courses at SHSU that are considered to have the same content. The course equivalency guide is used to identify courses that may transfer to SHSU.

Course Numbers
A numeric code signifying the anticipated academic level and the credit hour value of a course. At SHSU, course numbers consist of four digits. The first digit in the sequence indicates the course level and suggests the academic year in which the course is typically taken. Lower-level undergraduate

courses have a “1” or “2” in the first digit; upper-level undergraduate courses have a “3” or “4” in the first digit; and graduate courses have a “5” or higher in the first digit. The second digit in the sequence indicates the number of semester credit hours.

Course Prefix
Abbreviation identifying the academic discipline of a course (e.g., ACCT signifies Accounting, CRIJ signifies Criminal Justice, and BIOL signifies Biology).

Course Reference Number (CRN)
A unique six-digit number used to identify a specific course offering within a given term. The CRN is used to select courses when registering.

Credit by Examination
An award of academic credit and placement based on examination scores.

Credit Hour (also called Semester Credit Hour)
A unit of measure attached to academic courses, usually reflecting the number of lecture hours per week a course meets in a fall or spring semester.

Curriculum
A combination of courses that compose a particular area of study.

Dean
The highest ranking academic official in a college (e.g., College of Education).

Declaration of Major/Minor Form
The form submitted by an undergraduate student to officially declare a major and/or minor. The form is submitted to the departmental chair of the department housing the student’s declared major.

Degree
An academic credential awarded upon the completion of a specific area of study. Universities offer baccalaureate degrees at the undergraduate level and master’s and doctoral degrees at the graduate level.

Degree Plan
A specific list of academic requirements that must be completed to earn a degree.

Departmental Chair
An individual responsible for the administrative functions of an academic department. The functions include, but are not limited to, coordination of curriculum planning, faculty course assignments, and evaluation of faculty performance.

Developmental Courses
Courses designed to help student achieve the minimum standards set by the Texas Success Initiative (TSI). Developmental courses are listed with either a “031” or “032” course number and **do not** count toward the hours needed for graduation.

Double Degree
The concurrent pursuit of two specific majors, each with a different type of degree (e.g., BS with a major in mathematics and a BA with a major in English). The student must be awarded both degrees at the same graduation date.

Double Major
The concurrent pursuit of two specific majors with both resulting in the same type of degree (e.g., BS with majors in Biology and Chemistry). The student must be awarded both majors at the same graduation date.

Drop/Add
A term used to identify the act of deleting/adding courses from/to an established schedule.

Drop Date
The latest date that a student may drop a class without a letter grade being assigned. Dropping a class after this date results in a grade of “F” for the course.

Dual Credit
The receipt of high school and college credit for the same course for qualified high school students enrolled in college-level courses.

Elective
A degree plan requirement, not directed to a specific area of academic content, contributing to the credit hour requirements of a degree.

Faculty
Appropriately credentialed individuals responsible for the delivery of course content and academic research and service.

FAFSA (Free Application for Federal Student Aid)

A federal form required from all students seeking need-based financial aid. The FAFSA collects family income and other financial information and is completed and filed by the student or his/her family.

Fees
Non-tuition charges dedicated to cover the cost of specific academic and/or service functions of the university.

Final Exam
An exam, usually comprehensive, designed to measure a student's retention and understanding of the course material. Final exams are scheduled for the last week of the semester and do not necessarily correspond to the regular class meeting time.

Freshman
The classification of a student who has completed 0 to 29 semester credit hours.

Full-Time Undergraduate Student
Undergraduate students enrolled in twelve or more credit hours during a fall or spring semester or six or more credit hours during a summer session. Correspondence courses do not apply toward the credit hour count in determining status.

Grade Point Average (GPA)
Numeric average of academic performance on a 0-to-4 point scale. The GPA is the ratio of grade points earned to credit hours attempted.

Grants
A type of financial assistance not requiring repayment.

International Baccalaureate
The International Baccalaureate (IB) Diploma Program is a comprehensive two-year pre-college curriculum that is offered in high schools across the globe that may lead to college credits.

Junior
The classification of a student who has completed 60 to 89 semester credit hours.

Major
A student's concentrated area of study. Most majors consist of a minimum of 30 credit hours within a specific area of study.

Master's Degree
A graduate degree that usually requires two or more years of study beyond the bachelor's degree.

Minor
A student's secondary area of study. Most minors consist of a minimum of 18 credit hours within a specific area of study.

Overload
A course load in excess of 19 hours in a fall or spring semester of 7 hours in a summer session. Overloads must be approved by the student's academic dean.

Part-Time Undergraduate Student
Undergraduate students enrolled in less than twelve credit hours during a fall or spring semester or less than six credit hours during a summer session. Correspondence courses do not apply toward the credit hour count in determining status.

Prerequisite
An academic requirement (e.g., completion of an earlier sequenced course) that must be satisfied prior to the enrollment in a specific course.

Probation
An academic standing placed upon undergraduate students who fall below a 2.0 SHSU or overall grade point average at the close of any semester or summer school during which one or more semester hours were attempted.

Q-Drop
A drop made after the last date for tuition refunds but before a drop would result in the grade of "F." Students will be allowed no more than five Q-drops during their academic career at Sam Houston State University.

Resignation
Withdrawing from all classes in which the student is enrolled at the university.

Second Degree
The pursuit of a degree at the same level of a degree previously awarded (e.g., baccalaureate).

Section, Course

A number used to distinguish between multiple offerings of the same course. On a student's schedule, the section is the number after the period following the course number (e.g., ENG164.02 indicates section 2 of ENG 164).

Semester
Period of time during which academic courses are offered. SHSU offers fall, spring and summer semesters.

Semester Credit Hour
See Credit Hour

Senior
The classification of a student who has completed 90 or more semester credit hours.

Sophomore
The classification of a student who has completed 30 to 59 semester credit hours.

Suspension
An academic standing imposed on undergraduate students with a SHSU or overall GPA less than 2.0 for two or more successive semesters. Students on suspension are not allowed to enroll in classes without the permission of the appropriate academic dean.

Syllabus
A document containing academic and administrative information about a course. The syllabus is provided by the instructor at the beginning of the semester and typically includes a lesson schedule, dates of exams, and quizzes, assigned books and readings, e-mail/phone number and the best time to reach the instructor, and an explanation of how the final grade will be determined.

Transcript, Official
A university approved document providing information about a student's academic performance, including but not limited to, semester by semester listing and grades of courses attempted, credits earned, academic standing, GPA, TSI status, and admission exams.

TSI (Texas Success Initiative)
A Texas law requiring all entering college students to be assessed for college readiness in mathematics, reading and writing unless the student qualifies for an exemption.

Tuition
A per credit hour charge per course. There is a different rate for Texas residents and non-Texas residents.

Undergraduate
A student pursuing a bachelor's degree.

Withdrew Failing (WF)
A mark indicating a student was not performing at a passing level at the time of resignation. This mark is used only for students resigning after the first nine weeks of a regular semester or after the first two weeks of a summer session.

Withdrew Passing (WP)
A mark indicating a student was performing at a passing level at the time of resignation. This mark is used only for students resigning after the first nine weeks of a regular semester or after the first two weeks of a summer session.