

Sam Houston State University
Huntsville, Texas

COLLEGE OF SCIENCE AND ENGINEERING TECHNOLOGY

Department of

ENGINEERING TECHNOLOGY

ETCM 2363-01 (3 credit hours/4 contact hours)

Architectural Design

Syllabus for Spring 2018

Days and Time: MW 3:00 -4:50 p.m.

Location: Pirkle Engineering Technology Center Room 240

Instructor: Dr. Nibert Saltibus

Office: PETC 420 A

Email: nes021@shsu.edu

Office (Tel.): 936-294-1201

Office Hours: M W 8:00 a.m.-11:30 a.m., R 8:00 a.m. to 11 a.m., and by appointment.

Textbooks: Architectural Drafting and Design (7th Edition); Alan Jefferis, David A. Madsen, David P. Madsen (ISBN-13: 9781285165738)
Residential Design Using Autodesk Revit 2018; Daniel John Stine (ISBN: 9781630571061)
All students are required to bring their textbooks to class.

Course Prerequisite: ETDD 1390 or ETDD 1361 or FACS 1360 or FACS 2364, or permission from the instructor for enrollment.

Supplies: One Memory Stick (Minimum 35 MB)

Course Description:

This course consists of the design and development of a dwelling space (floor plan), sections, details, and specifications for a one floor residence. Before the completion of the plans and specifications for the residence, students, in learning the tools in Revit®, will produce plans, sections, details and specifications, etc. for a two story residence with a basement (tutorial).

Homework:

Assignments will be given during the semester to assess the student's understanding of the various concepts that are covered under a particular topic. All assignments are to be submitted on time. There are no exceptions except for reasons beyond the control of the student, such as health problems.

Exams:

A total of 5 quizzes will be issued in the semester. The student will produce many drawings leading to the completion of the residential building as discussed in the text. That will allow students the necessary practice that is needed to work on a final project on their own. This completed work will be accounted as the student's mid-term exam grade.

Project:

There will be a project assigned for this course. The main purpose of the project is for the student to employ the various concepts learned during the semester into the design process and problem solving. Each student will design their own residential building based on the specifications that will be issued to them. This final work will be accounted as the student's final exam grade. The project will consist of a completed floor plan, section(s), elevations, 3D interior / exterior presentation drawings, and construction document set.

Assignment Problems:

These problems will be taken at the end of the chapters in the textbook (Architectural Drafting and Design-7th Edition). However, problems may not be limited to the end of chapter questions but may be a variation of a particular problem or other problems assigned by the instructor or a combination of both. They are due at the beginning of the next class.

Grading System:

A	90-100
B	80-89
C	70-79
D	60-69
F	0-59

Course Evaluation:

The student is expected to work on assigned material during the scheduled class period, and also outside of class.

Below is the grade distribution for the course during the semester:

Assignment Problems:	20%
Exams (Quizzes):	15%
Mid Term (Project-Residential Drawings):	30%
Final Project: (Student Designed Residential Drawings)	35%

Course Material and Topics to be covered in the Course

This course consists of the development of a set of plans and specifications for a two story residence with a basement (tutorial) and the design of a one floor residence (designed by the student). An overview of the various building elements and components will be discussed, together with building materials and construction techniques. Content of course will include but not limited to floor plans and design, dimensioning, exterior elevations, sections, construction methods, details, and door, window, and room schedules.

Course Format

The course will make use of lectures, demonstration, in class problem solving, and student drawing exercises. The students will be required to complete a series of drawings based on the course content with the use of the Autodesk® Revit® Architecture.

Course Schedule		Topics
1-17-18	Wednesday	Course Introduction/Review of Syllabus
1-22-18	Monday	Building Codes
1-24-18	Wednesday	Introduction to Software
1-29-18	Monday	Room Relationships & Sizes Living rooms/Bedrooms/Bathrooms/Kitchen etc. & Lake Cabin
1-31-18	Wednesday	Exterior Design Factors & Residence: Floor Plan (First Floor)
2-5-18	Monday	Residence: Floor Plan (First Floor), <i>Quiz 1</i>
2-7-18	Wednesday	Foundations & Residence Drawings,
2-12-18	Monday	Residence: Floor Plan (Second Floor/Basement)
2-14-18	Wednesday	Residence: Floor Plan (Second Floor/Basement), <i>Quiz 2</i>
2-19-18	Monday	Roofs & Residence Drawings
2-21-18	Wednesday	Residence: Floor Plan/(Roof),
2-26-18	Monday	Residence: Floor Plan/(Roof), <i>Quiz 3</i>
2-28-18	Wednesday	Elevations & Residence Drawings
3-5-18	Monday	Floor Systems/Reflected Ceiling/Exterior Elevations
3-7-18	Wednesday	Floor Systems/Reflected Ceiling/Exterior Elevations, <i>Quiz 4</i>
3-12-18	Monday	Spring Recess
3-14-18	Wednesday	Spring Recess
3-19-18	Monday	Sections & Sections/Interior Design/Schedules/Rendering
3-21-18	Wednesday	Interior Design/Schedules/Rendering
3-26-18	Monday	Residence Drawings/Mid Term (Residential Drawings Due) <i>Quiz 5</i>
3-28-18	Wednesday	Final Project
4-2-18	Monday	Final Project
4-4-18	Wednesday	Final Project
4-9-18	Monday	Final Project
4-11-18	Wednesday	Final Project
4-16-18	Monday	Final Project

4-18-18	Wednesday	Final Project
4-23-18	Monday	Final Project
4-25-18	Wednesday	Final Project
4-30-18	Monday	Final Project
5-2-18	Wednesday	Final Project
5-7-18 to 5-10-18		Finals Week/ Project Due

Class Participation:

Class participation is strongly encouraged in this class.

Personal Conduct in Classrooms and Laboratories:

Refer to **Student Guidelines**, “Code of Conduct and Discipline.”

Only language that is conducive to the learning environment will be tolerated in the class. If a student uses language that is not conducive, the student will be cautioned. If the student repeats the use of the unacceptable language in the learning environment, the student will be referred to the Chair of the Engineering Technology department or the student’s respective department Chair.

No food or drink is allowed during class and lab sessions, and the CAD lab rules are to be followed. The student will be allowed to exit the classroom temporarily to eat or drink, if, and when the need arises.

Academic Honesty:

The University expects all students to engage in all academic pursuits in a manner that is above reproach. Students are expected to maintain complete honesty and integrity in the academic experiences both in and out of the classroom. Any student found guilty of dishonesty in any phase of academic work will be subject to disciplinary action. The University and its official representatives may initiate disciplinary proceedings against a student accused of any form of academic dishonesty including, but not limited to, cheating on an examination or other academic work which is to be submitted, plagiarism, collusion and the abuse of resource materials.

Students are to attempt their own work, except, where permission is given by the instructor for students to work in groups or to be assisted by each other.

Students engaged in academic dishonesty will be referred to the Chair of the Engineering Technology department or the student’s respective department chair.

Class Attendance:

1. Regular and punctual attendance is expected of each student at Sam Houston State University.
2. Each faculty member will keep a written record of student attendance.
3. Attendance will be defined as the entire class period, or until the professor has ended the class, or given permission to leave. Students who depart from class early or come to class very late would have to provide a valid excuse beforehand to the instructor.
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. Excused absences must be documented by the student with a letter of confirmation from the sponsoring student organization, professor or doctor, or otherwise. Exemptions will include participation in departmental activities when prior approval is attained from the Department Chair.

6. No exams or assignments, or any other related academic work, will be issued to students at alternative times unless arrangements are made with the professor/instructor before the scheduled activity occurs.

7. Class absences will be recorded and counted only from the actual day of enrollment for the individual student in that specific class.

Missed Work Due to Excused or Unexcused Absences:

It is the student's responsibility to find out and get the class notes and/or assignments given and have it submitted on time.

Students with Disabilities Policy:

It is the policy of Sam Houston State University that individuals otherwise qualified shall not be excluded, solely by reason of their disability, from participation in any academic program of the university. Further, they shall not be denied the benefits of these programs nor shall they be subjected to discrimination. Students with disabilities that might affect their academic performance should register with the Office of Services for Students with Disabilities located in the Lee Drain Annex (telephone 936-294-3512, TDD 936-294-3786, and e-mail disability@shsu.edu). They should then make arrangements with their individual instructors so that appropriate strategies can be considered and helpful procedures can be developed to ensure that participation and achievement opportunities are not impaired.

SHSU adheres to all applicable federal, state, and local laws, regulations, and guidelines with respect to providing reasonable accommodations for students with disabilities. If you have a disability that may affect adversely your work in this class, then I encourage you to register with the SHSU Services for Students with Disabilities and to talk with me about how I can best help you. All disclosures of disabilities will be kept strictly confidential. NOTE: No accommodation can be made until you register with the Services for Students with Disabilities. For a complete listing of the university policy, see:

<http://www.shsu.edu/dept/academic-affairs/documents/aps/students/811006.pdf>

Religious Days Policy:

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 whose absence 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.

University policy 861001 provides the procedures to be followed by the student and instructor. A student desiring to absent himself/herself from a scheduled class in order to observe (a) religious holy day(s) shall present to each instructor involved a written statement concerning the religious holy day(s). This request must be made in the first fifteen days of the semester or the first seven days of a summer session in which the absence(s) will occur. The instructor will complete a form

notifying the student of a reasonable timeframe in which the missed assignments and/or examinations are to be completed.

Academic Policy Statement 100728 Use of Telephones and Text Messagers in Academic Classrooms and Facilities:

The use by students of electronic devices that perform the function of a telephone or text messenger during class-time may be prohibited if deemed disruptive by the instructor to the conduct of the class. Arrangements for handling potential emergency situations may be granted at the discretion of the instructor. Failure to comply with the instructor's policy could result in expulsion from the classroom or with multiple offenses, failure of the course.

Any use of a telephone or text messenger or any device that performs these functions during a test period is prohibited, except when expressly permitted by the instructor. These devices should not be present during a test or should be stored securely in such a way that they cannot be seen or used by the student. Even the visible presence of such a device during the test period will result in a zero for that test. Use of these devices during a test is considered de facto evidence of cheating and could result in a charge of academic dishonesty (see student code of conduct <http://www.shsu.edu/students/guide/StudentGuidelines2010-2012.pdf#page=29>).

Cellphones or similar electronic devices are not permitted during class time.

Important Notice:

The above course schedule, policies, and assignments in this course are subject to change by the instructor or by mutual agreement between the instructor and the students.