

**SYLLABUS: HLTH 4366-01 (Fall 2017)****Course Information**

Course: HLTH 4366-01 – Health Informatics
Term: Fall 2017
Meeting time: Online, expect new weekly content every Wednesday after 5 PM
Instructor: Dr. Miguel A. Zuniga
Teaching assistant: N/A
Telephone number: 956-294-1110
Email address: zuniga@shsu.edu
Office hours: By appointment only
Office location: CHSS 344

Course Description

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. Credit 3.

RATIONALE: The course is designed to introduce you to the principles of health informatics, including its foundations in health information management, database management, information technology administration, and public/private initiatives to enhance and expand the use of computerized systems in the health sector. Additionally, you will become familiar with accessing and interpreting publicly available hospital-based discharge data. The course is not designed to train you to be a computer, database, or health informatics expert, but to provide you broad understanding and with concepts and models to address real world issues that affect individual and population health.

You will gain the necessary cognitive information through readings, media, discussion, lecture, and activities. Throughout the course, students will have opportunity to analyze their own attitudes and behaviors. Additionally, the course will allow you opportunity to analyze and discuss prominent societal and policy issues. Much of our course time will be spent practicing skills and discussing topics beyond your required textbook reading. For these reasons, it is important that you access the online modules in a timely manner. Once the course begins, we will have weekly sessions, assignments, and quizzes; therefore, to get the most from the course, you must keep up with your readings and assignments.

Prerequisites

Students will optimally perform in HLTH 4366 after successfully completing HLTH 3355.

Textbook and/or Resource Material

Course Objectives

| Course Objectives |
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| <i>By the end of the course, you should be able to:</i> |
| 1. Compare knowledge-based systems such as those used by physicians, nurses, and the health care team for decision-support, resource allocation, and communications, |
| 2. Discuss digital applications that support health care organizations such as lab systems, electronic prescribing and medication safety, digital medical imaging, and support of planning/documenting patient care, |
| 3. Describe health technology applications used by individuals, patients, and families, |
| 4. Explain the various information systems, administrative applications, technologies, and policies commonly used in health care delivery, |
| 5. Demonstrate the various health technology applications used by individuals, patients, and families, |
| 6. Define terminology and standards for health information systems and technologies |

Course Topics, Readings, Assignments and Dates

| Week | Topic | Other Content & Assignments |
|--------------------|---|---|
| Aug 23 | Course Introduction – | Class introduction and discussion # 1 |
| Week 1 – Aug 30 | Chapter 1 Alignment: HIS & Technology and Current Challenges in Health Care | Quiz Chapter 1 Continue Discussion #1 Due Sep 5, 2017 |
| Week 2 – Sep 6 | Chapter 2 HIS Scope, Definition & Conceptual Model | Quiz Chapter 2 Mini Assignment 1 Due 9/12/17 |
| Week 3 – Sep 13 | Chapter 9 Health Care Data | Quiz Chapter 9 Due 9/19/17 |
| Week 4 – Sep 20 | Chapter 3 HIS Strategic Planning | Quiz Chapter 3 Mini Assignment 2 Due 9/26/17 |
| Week 5 – Sep 27 | Chapter 4 HIS Application Systems and Technology | Quiz Chapter 4 Due 10/4/17 |
| Week 6 – Oct 5 | Chapter 5 Managing HIS and Technology Services | Quiz Chapter 5 Mini Assignment 3 Due 10/11/17 |
| Week 7 – Oct 11 | Course Project instructions and deliverables | Course Project Due Nov 11, 2017 |
| Week 8 – Oct 18 | Chapter 6 Implementation | Quiz Chapter 6 Due 10/24/17 |
| Week 9 – | Chapter 7 Leadership and Adoption of HIS and | Quiz Chapter 7 |

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|---------------------|--|---|
| Oct 25 | Technology | Mini Assignment 4 Due 10/31/17 |
| Week 10 – Nov 1 | Chapter 8 Understanding Health Informatics | Quiz Chapter 8 Bb Discussion #2 Due 11/7/17 |
| Week 11 – Nov 8 | Chapter 10 Business and Clinical Intelligence (BI/CI) Course Project Due 11/11/17 | Quiz Chapter 10 Mini Assignment 5 Due 11/14/17 |
| Week 12 – Nov 15 | Chapter 11 HIS and Research, Policy, and Public Health | Quiz Chapter 11 Bb Discussion #3 Due 11/28/17 |
| Week 13 – Nov 29 | Chapter 12 What Lies Beyond the Current State of HIS & Technology? | Quiz Chapter 12 Due 12/4/17 |
| Week 14 – Dec 1 | Course Project Peer Evaluation | |
| Week 15 Finals Week | No final exam in HLTH 4366 | |

Grading

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|--|----------------|--------------------|
| 12 READING QUIZZES (10 pts./quiz) | 120 PTS | <i>A = 90-100%</i> |
| | | <i>B = 80-89%</i> |
| | | <i>C = 70-79%</i> |
| COURSE MAJOR PROJECT | 100 PTS | <i>D = 60-69%</i> |
| 5 MINI-ASSIGNMENTS (10 pts./assignments) | 50 PTS | <i>F = <60%</i> |
| PARTICIPATION | | |
| CLASS DISCUSSION (approx. 3 @ 10 pts. each) | 30 PTS | |
| CLASS ATTENDANCE/PARTICIPATION* | 30 PTS | |
| TOTAL POINTS AVAILABLE | 330 PTS | |
| <u>PARTICIPATION*</u> = Webinars, National Public Health Week, other external events | | |

EXAMS

No midterm and final exams are scheduled for HLTH 4366

READING QUIZZES

Quizzes content will be drawn from Textbook readings.

MAJOR PROJECT

Project description presented in separate document by October 11, 2017.

MINI-ASSIGNMENTS

Reflections on supplemental health informatics readings.

Blackboard Discussions

Reflections on supplemental health informatics readings. One meaningful original posting, two responses to other student postings will be used to grade your contributions.

PARTICIPATION

Credit for participation will include your commitment to access course materials in a weekly basis and in participation in Webinars, National Public Health Week, and other external events whether on campus or online, etc.

COURSE ASSIGNMENT CRITERIA –

- ❑ If an assignment seems unclear, it is *YOUR* responsibility to talk to the instructor early.
- ❑ If you desire academic accommodation for a documented disability, contact the instructor ASAP.
- ❑ *Plagiarism* is a big word that simply means using someone else's work or writing without giving credit. If you copy a paragraph, sentence or even phrase from someone else's work, you must place quotes around what you have copied and cite the author. If you borrow an idea from someone else, but don't quote them exactly, you don't need to add the quotes, but you still must cite the author. When citing an author, use either the APA style (**Brown, 2014**) or the AMA style (superscript number¹) immediately after the statement. Then, in the Endnotes give the entire reference: **1. Brown, S (2014). Best article. Journal of Cool Stuff; 4(2), p.3-7.** This is your warning; if you borrow without giving credit you will get zero points for the parts borrowed. If you are working on an assignment that requires all your own work (or an exam), you should not be citing other authors anyway.

Sam Houston State University Policies

Attendance and Make-up Policies

The University views class attendance as the responsibility of an individual student. Attendance is essential to complete the course successfully. University rules related to excused and unexcused absences are located on-line at [SHSU Attendance Policy](#)

You will be graded during each one of the course sessions. For these reason, it is imperative you be in class every day we meet.

STUDENT ABSENCES ON RELIGIOUS HOLY 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.

Other Pertinent Course Information

Every effort will be made to ensure that power point lecture files, notes, articles and assignments are available online in a timely manner. Written assignments will be delivered thru the Blackboard course website. Handouts, changes in assignments or the schedule of class modules will be announced on the Bb course webpage. E-mail contact will be initiated with all students the first week of class. If you do not have access to your assigned SHSU e-mail account, it is your responsibility to make the instructor aware of that fact so that other arrangements may be made. You are expected to use SHSU e-mail address for all official correspondence.

Blackboard (Bb Statement)

Blackboard (Bb): This course will be supported via Blackboard, your online learning community, where you will interact with your classmates and with me. Within the course Blackboard site you will access the learning materials, tutorials, and syllabus; discuss issues; submit assignments; take quizzes; email other students and the instructor; participate in online activities; and display your projects.

In order to access the course material you will need to go to <https://shsu.blackboard.com> or look for Campus Tools on the top of the University's homepage. **Please do not contact your instructor with technical problems.** If you are having a technical problem with the course, review the support resources at <http://distance.shsu.edu/tech-support/>. You will need to possess the required computing technology to be successful in an online course. **Important!!!** Save your work as you go along. Nothing is more discouraging than to lose an assignment due to a computer hang ups! You may want to also make hard copies of your work to have "proof" and save yourself time and trouble!

Plagiarism Virtual Course

Plagiarism is the leading form of academic dishonesty that the Department of Population Health has to address. As a POPULATION HEALTH student, you are responsible for knowing what plagiarism is and how to avoid it.

End of Course Evaluation

Constructive feedback from students on course evaluations is taken very seriously at the College of Health Sciences. I am asking for your assistance in helping the Department in its assessment of courses and faculty through your participation in the evaluation of your courses. As health professionals you will one day have the responsibility to evaluate colleagues and health initiatives. The College views providing feedback on the Department's courses as part of your professional responsibility.

Department of Population Health 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 wellbeing through community engagement at the local and global levels.

Americans with Disabilities Act (ADA)

SHSU adheres to all applicable federal, state, and local laws, regulations, and guidelines with respect to providing reasonable accommodations for students with disabilities. Students with disabilities that may

affect adversely their work in this class should register with the SHSU Counseling Center and talk with their University supervisor and classroom mentor teachers about how they can help. All disclosures of disabilities will be kept strictly confidential. NOTE: no accommodation can be made until registration with the Counseling Center is complete.

STUDENTS WITH DISABILITIES POLICY

It is the policy of Sam Houston State University that no otherwise qualified individual with disabilities shall, solely by reason of his/her handicap, be excluded from the participation in, be denied the benefits of, or be subjected to discrimination under any academic or Student Life program or activity. Students with disabilities may request help with academically related problems stemming from individual disabilities from their instructors, school/department chair, or by contacting the Chair of the Committee for Continuing Assistance for Disabled Students and Director of the Counseling Center, Lee Drain Annex, or by calling (936) 294-1720.

Academic Integrity

According to the administration's guidelines: "All students are expected 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 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 will refrain from behavior in the classroom that intentionally or unintentionally disrupts the learning process and, thus, impedes the mission of the university. Cellular telephones and pagers must be turned off before class begins. Students are prohibited from eating in class, [chewing gum], using tobacco products, making offensive remarks, reading newspapers, or engaging in any other form of distraction. Inappropriate behavior in the classroom shall result in a directive to leave class. Students who are especially disruptive also may be referred to the Dean of Students for disciplinary action in accordance with the university policy."

The full policy for "Code of Student Conduct and Discipline" is found at the following link:
<https://www.shsu.edu/students/guide/dean/codeofconduct.html>

FERPA

The Federal Education Rights & Privacy Act requires that we advise students that by registering for this course, their SHSU assigned e-mail address will be revealed to classmates and the instructor. By continuing your enrollment in the course you acknowledge your understanding of this policy. By enrolling in this course you agree to the following statement: "I understand that as a result of registering for this course, my SHSU/Blackboard assigned e-mail address will be revealed to classmates and the instructor."

Equal Opportunity Statement

Sam Houston State University is an Equal Opportunity / Affirmative Action Institution.

DISCLAIMER

This syllabus is representative of materials that will be covered in this class; it is not a contract between the student and the institution. It is subject to change. These changes will be communicated via email or posted as announcements. If you have any problems related to this course, please feel free to discuss them with the instructor.

Title IX

"No person in the United States shall, on the basis of sex, be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any education program or activity receiving Federal financial assistance."

Title IX of the Education Amendments of 1972 is a federal law that prohibits sex discrimination in education.

NOTICE OF NON-DISCRIMINATION

Sam Houston State University complies with Title IX of the Higher Education Amendments of 1972 (Title IX), which prohibits discrimination on the basis of sex in educational programs or activities; Title VII of the Civil Rights Act of 1964 (Title VII), which prohibits sex discrimination in employment; and the Campus Sexual Violence Elimination Act. Sexual misconduct, as defined in the University's Sexual Misconduct Policy, constitutes a form of sex discrimination prohibited by Title IX and Title VII.

TITLE IX CONTACTS

Sex discrimination includes sexual harassment and sexual assault. While it is often thought of as a law that applies to athletics programs, Title IX is much broader than Athletics and applies to many programs at Sam Houston State University. While compliance with the law is everyone's responsibility at SHSU, below is a list of staff members that have primary responsibility for Title IX Compliance.

Title IX Coordinator--Jeanine Bias
Associate Dean of Students --Lowman Student Center, Suite 215
936-294-3026 or jbias@shsu.edu
