

INFS 347: Systems Analysis and Design Spring 2018

Instructor: Chris Oh

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Office Hours: Tuesday TBD or by appointment

Course Description/Overview:

Provides a core set of skills for planning, managing and executing systems analysis and design processes in e-business and Web-based environments. Topics typically include project initiation and planning, methods used in the determination of information requirements, prototyping, techniques used in systems design, testing and implementation strategies. Ethical, social and environmental issues presented in the development and the use of information systems will be discussed.

Course Objectives and Learning Outcomes

- 1) Understanding of the development and implementation of business information systems.
- 2) Explain the purpose and activities of the systems development life cycle phases
- 3) Understand project management techniques
- 4) Identify and understand system inputs and outputs
- 5) Understand and model system entities and data stores
- 6) Understand and model system processes, events, and data flows within a system
- 7) Understand and model classes of data within a system
- 8) Understand concepts relating to various models, tools, and techniques used in system analysis/design

Required Materials

Dennis, A. Systems Analysis and Design, 6th Edition, Wiley, 2014. ISBN: 9781118897843

Other course materials will be posted on Sakai

Course Requirements and Grading Criteria

Final Exam: 25%

Midterm Exam: 20%

Quizzes: 15%

Homework: 10%

Project: 25%

Class Participation: 5%

Total 100%

- Extra Credit - Extra credit points may be earned through the identification of current course related information and sharing of that information with the class. Potential sources of information include journals, newspapers, magazines, etc. Two and a half extra credit points will be awarded for each contribution, with a maximum of two points per class and five points over the semester. To receive credit for a contribution, a one-page summary must be emailed at least one hour prior to the start of class.

Course grading scale

- A 100-93%
- A- 92-90
- B+ 89-87
- B 86-83
- B- 82-80
- C+ 79-77
- C 76-73
- C- 72-70
- D+ 69-67
- D 66-60
- F 59 and below

Attendance

Class attendance is mandatory and essential to the value of the learning experience. Students are expected to attend all class sessions in order to pass the course. Missing more than 20% of scheduled classes severely jeopardizes the student's ability to pass the course. In the event unavoidable emergencies or conflicts prevent you from attending class, you must notify the instructor by e-mail prior to missing the class, and request options for covering missed material. Most of the subjects in a course are sequential. Therefore, it is important to understand the material covered in the missed class before the next class.

Assignments

Homework assignments are due, via Sakai, before 4:15PM on the due date. Assignments turned in late will have a penalty of 10% off the grade. An additional 10% will be penalized each additional week.

Make-Up Examinations/Quizzes

There will be quizzes, a mid-term and final examination. These quizzes/exams will be in-class closed book, closed notes. Mark your calendar today to make sure that you do not have any conflicts with these exams! If a student cannot attend the exam on our scheduled date, arrangements for an alternate date can be made if the instructor is notified more than 48 hours in advance and a legitimate reason is presented. The exam on an alternate date may be different from the scheduled exam.

Academic Integrity

All members of the Quinlan School shall refrain from academic dishonesty and misconduct in all forms, including plagiarism, cheating, misrepresentation, fabrication, and falsehood. Plagiarism or cheating on the part of the student in individual or group academic work or in examination behavior will result minimally in the instructor assigning the grade of "F" for the assignment or examination. In addition, all instances of academic dishonesty must be reported to the chairperson of the department involved.

For further information about expectations for academic integrity and sanctions for violations, consult the complete Quinlan School of Business Honor Code and Statement of Academic Integrity on the Quinlan website:

<http://www.luc.edu/media/lucedu/quinlanschoolofbusiness/pdfs/Honor-Code-Quinlan-July2012.pdf>

- All cell phones must be placed on vibrate during class. No texting during class.

INFS 347 Spring 2018 Tentative Schedule

Please note: This class may occasionally deviate from the course outlined above. The instructor reserves the right to make changes as needed to the course syllabus.

Date	Topics	Readings
1/16	Introduction Planning Phase: The Systems Analyst and Information Systems Development	Chapter 1
1/23	Planning Phase: Project Selection and Management	Chapter 2 <u>Due:</u> HW1
1/30	Analysis Phase: Requirements Determination	Chapter 3 <u>Due:</u> HW2
2/6	Analysis Phase, Use Case Analysis	Chapter 4 <u>Quiz 1</u>
2/13	Analysis Phase: Process Modeling Analysis Phase: Data Modeling	Chapter 5 & 6 <u>Due:</u> HW3
2/20	Analysis Phase: Data Modeling (Continued)	Chapter 6 Due: HW4
2/27	<i>Midterm Exam</i>	
3/6	Spring Break – No Class	
3/13	Design Phase: Moving into Design, Architecture Design	Chapter 7-8 <u>Due:</u> HW5
3/20	Design Phase: User Interface Design, Program Design	Chapter 9 <u>Due:</u> Project Deliverable 1 (Group)

3/27	Design Phase: Program Design	Chapter 10 <u>Due:</u> Project Deliverable 2 (Group)
4/3	Design Phase: Data Storage Design Implementation Phase: Moving Into Implementation,	Chapter 11-12 <u>Quiz 2</u>
4/10	Implementation Phase: Transition to the New System, The Movement to Objects	Chapter 13-14
4/17	Group Project Presentations	<u>Project Presentations (Groups 1-5)</u> <u>Due:</u> Project Deliverable 3 (Groups 1-5)
4/24	Group Project Presentations	<u>Project Presentation (Groups 6-10)</u> <u>Due:</u> Project Deliverable 3 (Groups 6-10)
5/1	Final Exam	