

IS/ICT-303 Section 201 (2016 FALL)
System Analysis

Instructor: Dr. Soohyung Joo
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Office Phone: 859-257-5942
Office hours: Monday and Tuesday, 12:00 PM to 2:00 PM
Virtual Office hours: Same as above in Canvas
Preferred method of contact: Email/ Canvas.
I usually respond to questions within 24 hours. (expect a delay during weekends and holidays).

Course Description

This course examines and applies the principles of information systems analysis. It surveys project management, feasibility and analysis, systems requirement definition and resource allocation. It utilizes a structured systems development methodology that spans the entirety of the information system lifecycle, which starts with the conception of the need for a specific information system and ends with the implementation of that system. The course utilizes a case study approach in which students initiate the analysis and logical design of a limited-scope information system.

Student Learning Outcomes

The overall course objective is to give you the concepts and skills you need to analyze and design information systems. After the successful completion of this course, you will be able to:

- Provide a solid understanding of the fundamental principles of information systems and system analysis.
- Enhance critical thinking skills using scenario-based tasks to help students develop organization, analysis, problem-solving, and decision-making skills they can apply in the workplace.
- Provide an understanding of some of real-life ethical issues in an Information Technology (IT) environment.

Required Materials

- No required textbook.
- Extensive lecture notes will be provided.
- Other reading materials will be posted on Canvas every week.

Course Activities and Assignments

- 10 Assignment (70%)
- Two quizzes (20%)
- Online discussion (10%)

Summary Description of Course Assignments

- Ten Assignments (70%) – 7 points for each assignment
 - Assignment #1 – Conceptual Data Modeling
 - Assignment #2 – Relational Tables
 - Assignment #3 – Basic SQL
 - Assignment #4 – Web Data Structuring (1)
 - Assignment #5 – Web Data Structuring (2)
 - Assignment #6 – DFD (1)
 - Assignment #7 – DFD (2)
 - Assignment #8 – Class Diagram
 - Assignment #9 – Use Case Diagram
 - Assignment #10 – User Analysis and Wireframing
- Two quizzes (20%) – There are two quizzes in Week 7 & 15. Each quiz will consist of true/false, multiple choice, and short answer questions.
- Online discussion (10%) – Participation points come from both quantity and quality of posts to the discussion board. For each week, we are going to have a discussion forum for class discussion. In the forum, you can discuss an important issue of each week's topic posted by the instructor as well as any questions, ideas or thoughts you have regarding the topic, slides, readings or exercises for that week. To get full credits for class participation, each student needs to participate in at least once in each of the forums. More importantly, each student needs to read/view the required readings, class slides, and other students' posts, before posting her/his messages. The week starts on Monday and ends on Sunday at midnight. Although you can continue participating in the earlier week discussions, no credit will be given for posts that occur after the week.

Course Grading

- 90-100% = A
- 80 – 89.9% = B
- 70 – 79.9% = C
- Below 70%= E

Tentative Course Schedule (Subject to change)

Week	Dates	Topic	Assignment
1	8/24-8/28	Course overview	
2	8/29-9/4	Entity-Relationship Model (1)	Assignment 1 (Due: 9/5)
3	9/5-9/11	Entity-Relationship Model (2)	Assignment 2 (Due: 9/12)
4	9/12-9/18	Basic Structured Query Language	Assignment 3 (Due: 9/19)

5	9/19-9/25	Semi-structured Data Design (1)	Assignment 4 (Due: 9/26)
6	9/26-10/2	Semi-structured Data Design (2)	Assignment 5 (Due: 10/3)
7	10/3-10/9	Process Modeling (1)	Assignment 6 (Due: 10/10) Quiz 1
8	10/10-10/16	Process Modeling (2)	Assignment 7 (Due: 10/17)
9	10/17-10/23	Objective Oriented Modeling (1)	
10	10/24-10/30	Objective Oriented Modeling (2)	Assignment 8 (Due: 10/31)
11	10/31-11/6	Use Case Diagram	Assignment 9 (Due: 11/7)
12	11/7-11/13	Interface Design (1)	
13	11/14-11/20	Interface Design (2)	Assignment 10 (Due: 11/21)
14	11/21-11/27	Thanksgiving	
15	11/28-12/4	Introduction to ERP Systems	Quiz 2
16	12/4-12/9	Emerging Technologies	

Quizzes

Two quizzes will be conducted online via Canvas.

Submission of Assignments

All assignments, including hands-on exercises and final term paper, should be submitted via Canvas. Prepare and submit all assignments on time. A 10% penalty will be exacted every day the assignment is late.

Attendance Policy

This is an online course, which requires asynchronous class discussion via Canvas to facilitate a sense of community. Canvas will also be used for making course announcements, distributing reading materials, submitting assignments and posting grades. Please visit <https://www.uky.edu/canvas> (Canvas) for course homepage.

Course related communications will occur mainly in Canvas (online discussions, questions and answers, etc.). In addition, all announcements will be posted in Canvas. Students thus are required to check the course shell in Canvas on a regular basis. Failure to receive such announcements cannot be used as an excuse for not being informed.

I welcome emails sent to my UKY.EDU email account. Please feel free to email me via soohyung.joo@uky.edu if you have any questions or concerns. In ordinary circumstances, it is expected that the instructor will respond within 24 hours during weekdays. Please expect a delay during weekends and holidays.

Excused Absences

Students need to notify the professor of absences prior to class when possible. *Senate Rules 5.2.4.2* defines the following as acceptable reasons for excused absences: (a) serious illness, (b) illness or death of family member, (c) University-related trips, (d) major religious holidays, and (e) other circumstances found to fit “reasonable cause for nonattendance” by the professor.

Students anticipating an absence for a major religious holiday are responsible for notifying the instructor in writing of anticipated absences due to their observance of such holidays no later than the last day in the semester to add a class. Two weeks prior to the absence is reasonable, but should not be given any later. Information regarding major religious holidays may be obtained through the Ombud (859-257-3737, http://www.uky.edu/Ombud/ForStudents_ExcusedAbsences.php).

Students are strongly encouraged to withdraw from the class if more than 20% of the scheduled classes for the semester are missed per university policy. Please reference the definition of excused absences in the current edition of *Student Rights and Responsibilities* or on the web at http://www.uky.edu/Faculty/Senate/rules_regulations/Rules%20Versions/MASTER%20RULES%20from%20February%202012_clean.pdf

Verification of Absences

Students may be asked to verify their absences in order for them to be considered excused. *Senate Rule 5.2.4.2* states that faculty have the right to request “appropriate verification” when students claim an excused absence because of illness, or death in the family. Appropriate notification of absences due to University-related trips is required prior to the absence when feasible and in no case more than one week after the absence.

Academic Integrity

Per University policy, students shall not plagiarize, cheat, or falsify or misuse academic records. Students are expected to adhere to University policy on cheating and plagiarism in all courses. The minimum penalty for a first offense is a zero on the assignment on which the offense occurred. If the offense is considered severe or the student has other academic offenses on their record, more serious penalties, up to suspension from the University may be imposed.

Plagiarism and cheating are serious breaches of academic conduct. Each student is advised to become familiar with the various forms of academic dishonesty as explained in the Code of Student Rights and Responsibilities. Complete information can be found at the following website: <http://www.uky.edu/Ombud>. A plea of ignorance is not acceptable as a defense

against the charge of academic dishonesty. It is important that you review this information as all ideas borrowed from others need to be properly credited.

Senate Rules 6.3.1 (see <http://www.uky.edu/Faculty/Senate/> for the current set of *Senate Rules*) states that all academic work, written or otherwise, submitted by students to their instructors or other academic supervisors, is expected to be the result of their own thought, research, or self-expression. In cases where students feel unsure about a question of plagiarism involving their work, they are obliged to consult their instructors on the matter before submission.

When students submit work purporting to be their own, but which in any way borrows ideas, organization, wording, or content from another source without appropriate acknowledgment of the fact, the students are guilty of plagiarism.

Plagiarism includes reproducing someone else's work (including, but not limited to a published article, a book, a website, computer code, or a paper from a friend) without clear attribution. Plagiarism also includes the practice of employing or allowing another person to alter or revise the work, which a student submits as his/her own, whoever that other person may be. Students may discuss assignments among themselves or with an instructor or tutor, but when the actual work is done, it must be done by the student, and the student alone.

When a student's assignment involves research in outside sources or information, the student must carefully acknowledge exactly what, where and how he/she has employed them. If the words of someone else are used, the student must put quotation marks around the passage in question and add an appropriate indication of its origin. Making simple changes while leaving the organization, content, and phraseology intact is plagiaristic. However, nothing in these Rules shall apply to those ideas, which are so generally and freely circulated as to be a part of the public domain.

Please note: Any assignment you turn in may be submitted to an electronic database to check for plagiarism.

Accommodations due to disability

If you have a documented disability that requires academic accommodations, please see me as soon as possible during scheduled office hours. In order to receive accommodations in this course, you must provide me with a Letter of Accommodation from the Disability Resource Center (DRC). The DRC coordinates campus disability services available to students with disabilities. It is located on the corner of Rose Street and Huguelet Drive in the Multidisciplinary Science Building, Suite 407. You can reach them via phone at (859) 257-2754 and via email at drc@uky.edu. Their web address is <http://www.uky.edu/StudentAffairs/DisabilityResourceCenter/>.

Policies concerning academic integrity, excused absences and academic accommodations due to disability are available online at:

<https://ci.uky.edu/sis/sites/default/files/policies.pdf>

TECHNOLOGY INFORMATION & RESOURCES

Distance Learning Students are expected to have a minimum level of technological acumen and the availability of technological resources. Students must have regular access a computer with a reliable Internet connection and audio capabilities. Internet Explorer 7 (IE) or Firefox 2.x are the recommended browsers for those using a Windows-based PC. Those using Firefox 3.x may encounter problems with assignment uploads. Those using an Apple computer with MAC OS X (10.5.x) may use Firefox 3.x or Safari 3.x. Please be certain that your computer and/or browser allow you to view Adobe Reader documents (.pdf). Microsoft Office and other software products are free for students: <http://download.uky.edu/>.

As your instructor, I am your first go-to person for technology problems. If you need more immediate assistance, please contact UKIT.

Information Technology Customer Service Center (UKIT)

<http://www.uky.edu/UKIT/>; 859-218-4357

Library Services & Distance Learning Services

<http://www.uky.edu/Libraries/DLLS>

- Carla Cantagallo, DL Librarian
- Local phone number: (859) 257-0500, ext. 2171; long-distance phone #: (800) 828-0439 (option #6)
- Email: dllservice@email.uky.edu
- DL Interlibrary Loan Service:
http://www.uky.edu/Libraries/libpage.php?lweb_id=253&llib_id=16

For more resources about online classes and student resources, visit <http://www.uky.edu/ukonline/>

The School of Information Science has a page with a comprehensive list of technology resources here: <http://ci.uky.edu/sis/students/techtips>

Military Members and Veterans

We recognize the complexities of being a member of the military community and also a student. If you are a member of the military or a military veteran or dependent, please inform your instructor if you are in need of special accommodations. Drill schedules, calls to active duty, mandatory training exercises, complications with GI Bill disbursement, and other unforeseen military and veteran related developments can complicate your academic life. If you are aware of a complication, we will work with you and put you in contact with university staff members who are trained to assist you. Please contact the Coordinator of the University of Kentucky Veterans Resource Center at (859) 257-1148 for additional assistance. Visit <http://www.uky.edu/veterans> for more available resources.