**INSY 5341:** Information Systems Analysis and Design

Fall 2015

**Instructor(s):** Dr. Yoon Sang Lee

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**Faculty Profile:**

**Office Hours:** Th,6:00-6:50PM or by appointment.

**Section Information:** INSY5341-001

**Time and Place of Class Meetings:** Th, 7:00PM – 9:50PM, Rm. 147 COBA

**Description of Course Content:** This course will introduce the concepts and methods of information systems analysis and design based on object oriented technology. The course will cover feasibility analysis, requirements definition, systems design, and data design. The conceptual aspect and technical aspect of system analysis and design will be emphasized. UML will be used as a design and analysis tool.

**Student Learning Outcomes:**

Upon successful completion of this course, the student will:

* Be familiar with Project Initiation and Requirement Determination
* Understand the important concepts of Analysis Modeling and Design Modeling
* Understand the fundamental aspects of Object-Oriented analysis and design using UML
* Be familiar with the practice of analysis and design of information systems using UML

**Required Textbooks and Other Course Materials:**

**- Textbook**

Systems Analysis and Design: An Object-Oriented Approach with UML, 5th Edition by Dennis, Wixom, and Tegarden

eText: ISBN-978-1-119-03020-1

Paperback: ISBN-978-1-118-80467-4

Publisher: Wiley

**- Descriptions of major assignments and examinations:** There will be a project including requirements determination, analysis modeling, design modeling, and final report, and it will be continued throughout the semester. There will be 2 exams during the semester. At the end of several chapters, assignments will be assigned.

**Attendance:** I allow students to attend class at their own discretion. If you miss a class, however, you are responsible for the materials covered.

**Grading**:

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| Assignment | Value | Grades |
| Group Project Report | 25% | A = 90% and above  B = 80% - 89%  C = 70% - 79%  D = 60% - 69%  F = 0% - 59% |
| Group Project Milestones & Presentation | 20% |
| Assignments | 15% |
| Exam 1 | 15% |
| Final Exam | 25% |
| **TOTAL** | **100%** |

**Make-up Exams**: There will be NO Make-Up exams. If a student wants to take the exam at a time BEFORE the scheduled time, the student can do so if the student can provide proper reasons and related documents. The requests will be reviewed on a case-by-case basis and there is no assurance that the request will be granted.

**Grade Grievances** University policy will be followed to handle any grade grievance. A student should first contact the instructor and discuss the matter by email or in person with supporting material for your grievance. If the grievance is not satisfactorily resolved, you can follow the University Guidelines for further action. Please refer to the University Catalog for details.

**Drop Policy:** Students may drop or swap (adding and dropping a class concurrently) classes through self-service in MyMav from the beginning of the registration period through the late registration period. After the late registration period, students must see their academic advisor to drop a class or withdraw. Undeclared students must see an advisor in the University Advising Center. Drops can continue through a point two-thirds of the way through the term or session. It is the student's responsibility to officially withdraw if they do not plan to attend after registering. **Students will not be automatically dropped for non-attendance**. Repayment of certain types of financial aid administered through the University may be required as the result of dropping classes or withdrawing. For more information, contact the Office of Financial Aid and Scholarships (<http://wweb.uta.edu/aao/fao/>).

**Disability Accommodations: UT** Arlington is on record as being committed to both the spirit and letter of all federal equal opportunity legislation, including *The Americans with Disabilities Act (ADA), The Americans with Disabilities Amendments Act (ADAAA),* and *Section 504 of the Rehabilitation Act.* All instructors at UT Arlington are required by law to provide “reasonable accommodations” to students with disabilities, so as not to discriminate on the basis of disability. Students are responsible for providing the instructor with official notification in the form of a letter certified by the **Office for Students with Disabilities (OSD).** Students experiencing a range of conditions (Physical, Learning, Chronic Health, Mental Health, and Sensory) that may cause diminished academic performance or other barriers to learning may seek services and/or accommodations by contacting:

**The Office for Students with Disabilities, (OSD)** [www.uta.edu/disability](http://www.uta.edu/disability) or calling 817-272-3364.

**Counseling and Psychological Services, (CAPS)** [www.uta.edu/caps/](http://www.uta.edu/caps/) or calling 817-272-3671.

Only those students who have officially documented a need for an accommodation will have their request honored. Information regarding diagnostic criteria and policies for obtaining disability-based academic accommodations can be found at [www.uta.edu/disability](http://www.uta.edu/disability) or by calling the Office for Students with Disabilities at (817) 272-3364.

**Title IX:** *The University of Texas at Arlington does not discriminate on the basis of race, color, national origin, religion, age, gender, sexual orientation, disabilities, genetic information, and/or veteran status in its educational programs or activities it operates. For more information, visit*[*uta.edu/eos*](http://www.uta.edu/hr/eos/index.php)*. For information regarding Title IX, visit* [www.uta.edu/titleIX](http://www.uta.edu/titleIX).

**Academic Integrity:** Students enrolled all UT Arlington courses are expected to adhere to the UT Arlington Honor Code:

*I pledge, on my honor, to uphold UT Arlington’s tradition of academic integrity, a tradition that values hard work and honest effort in the pursuit of academic excellence.*

*I promise that I will submit only work that I personally create or contribute to group collaborations, and I will appropriately reference any work from other sources. I will follow the highest standards of integrity and uphold the spirit of the Honor Code.*

UT Arlington faculty members may employ the Honor Code as they see fit in their courses, including (but not limited to) having students acknowledge the honor code as part of an examination or requiring students to incorporate the honor code into any work submitted. Per UT System *Regents’ Rule* 50101, §2.2, suspected violations of university’s standards for academic integrity (including the Honor Code) will be referred to the Office of Student Conduct. Violators will be disciplined in accordance with University policy, which may result in the student’s suspension or expulsion from the University.

**Electronic Communication:** UT Arlington has adopted MavMail as its official means to communicate with students about important deadlines and events, as well as to transact university-related business regarding financial aid, tuition, grades, graduation, etc. All students are assigned a MavMail account and are responsible for checking the inbox regularly. There is no additional charge to students for using this account, which remains active even after graduation. Information about activating and using MavMail is available at <http://www.uta.edu/oit/cs/email/mavmail.php>.

**Student Feedback Survey:** At the end of each term, students enrolled in classes categorized as “lecture,” “seminar,” or “laboratory” shall be directed to complete an online Student Feedback Survey (SFS). Instructions on how to access the SFS for this course will be sent directly to each student through MavMail approximately 10 days before the end of the term. Each student’s feedback enters the SFS database anonymously and is aggregated with that of other students enrolled in the course. UT Arlington’s effort to solicit, gather, tabulate, and publish student feedback is required by state law; students are strongly urged to participate. For more information, visit <http://www.uta.edu/sfs>.

**Final Review Week:** A period of five class days prior to the first day of final examinations in the long sessions shall be designated as Final Review Week. The purpose of this week is to allow students sufficient time to prepare for final examinations. During this week, there shall be no scheduled activities such as required field trips or performances; and no instructor shall assign any themes, research problems or exercises of similar scope that have a completion date during or following this week *unless specified in the class syllabus*. During Final Review Week, an instructor shall not give any examinations constituting 10% or more of the final grade, except makeup tests and laboratory examinations. In addition, no instructor shall give any portion of the final examination during Final Review Week. During this week, classes are held as scheduled. In addition, instructors are not required to limit content to topics that have been previously covered; they may introduce new concepts as appropriate.

**Emergency Exit Procedures:** Should we experience an emergency event that requires us to vacate the building, students should exit the room and move toward the nearest exit, which is located on the right side of hallway. When exiting the building during an emergency, one should never take an elevator but should use the stairwells. Faculty members and instructional staff will assist students in selecting the safest route for evacuation and will make arrangements to assist individuals with disabilities.

**Student Support Services**:UT Arlington provides a variety of resources and programs designed to help students develop academic skills, deal with personal situations, and better understand concepts and information related to their courses. Resources include tutoring, major-based learning centers, developmental education, advising and mentoring, personal counseling, and federally funded programs. For individualized referrals, students may visit the reception desk at University College (Ransom Hall), call the Maverick Resource Hotline at 817-272-6107, send a message to [resources@uta.edu](mailto:resources@uta.edu), or view the information at http://www.uta.edu/universitycollege/resources/index.php

**Course Schedule**

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| **Date** | **Assignment and Topic** | **Chapters** |
| 8/27 | Course Introduction  Introduction to Systems Analysis and Design | 1 |
| 9/3 | Introduction to Systems Analysis and Design; Project Management  Group Project Assigned | 1; 2 |
| 9/10 | Project Management; Requirement Determination  Assignment #1 Assigned - Chapter 1, 2, 3  Group Formation Due | 3 |
| 9/17 | Functional Modeling | 4 |
| 9/24 | Milestone #1 Review - System Proposal  Assignment #1 Due |  |
| 10/1 | Structural Modeling  Assignment #2 Assigned - Chapter 4, 5  Milestone #1 Due | 5 |
| 10/8 | **Exam 1** |  |
| 10/15 | Behavioral Modeling  Assignment #2 Due | 6 |
| 10/22 | Move on to Design; Class and Method Design  Assignment #3 Assigned - Chapter 6, 7 | 7; 8 |
| 10/29 | Milestone #2 Review- Analysis Modeling |  |
| 11/5 | Class and Method Design; Data Management Layer Design  Assignment #3 Due; Assignment #4 Assigned - Chapter 8,9  Milestone #2 Due | 8; 9 |
| 11/12 | Milestone #3 Review - Design Modeling |  |
| 11/19 | Project Presentations  Assignment #4 Due  Milestone #3 Due |  |
| 11/26 | **Thanksgiving Day** |  |
| 12/3 | Project Presentations |  |
| 12/10 | Project Presentations; Final Exam Review |  |
| 12/17 | **Final Exam – Thursday, 8:15PM-10:45PM**  Project Report Due |  |

**Syllabus Changes:** The instructor reserves the right to make changes to the above syllabus as necessary; students are responsible to be aware of changes announced in class and/or via the Internet.

**Emergency Phone Numbers**: [Optional but strongly recommended] In case of an on-campus emergency, call the UT Arlington Police Department at **817-272-3003** (non-campus phone), **2-3003** (campus phone). You may also dial 911. Non-emergency number 817-272-3381