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| **Course** | MIS 6308.5U1 Systems Analysis & Project Management |
| **Instructor** | Naser Islam |
| **Term** | Sumer 2021 |
| **Meetings** | Thursday from 6:00 PM to 10:00 PM.<br>Remote/Virtual Learning. No classroom meetings |

**Instructor:** Naser Islam

**Email:** naser.islam@utdallas.edu

**Phone:** 972-883-5025

**Office:** JSOM 2.415

**Instructor Office Hours:** Via MS Teams by appointment

**TA:** Haozhao Zhang
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**TA Office Hours:** Virtual Via MS Teams
Mon & Wed: 4:00pm to 6:00pm

## Prerequisites

MIS 6326 Data Management or Professors consent

## Course Description

To provide the student with an in-depth knowledge of object oriented systems analysis and design procedures. Software project management techniques will be covered. At the end of the course, the student will be able to analyze business situations and design computer based information systems using object-oriented methodologies. (3 semester hours)

This is a Communication-Enhanced Course (CEC). CECs are courses in which you will strengthen your writing and speaking skills while you deepen your understanding of key material in your major. Both studies and employers tell us that your ability to write clearly and speak well about topics in your field will strongly increase your chances of professional success. CECs will help you to develop as a professional communicator and demonstrate your abilities both to your instructor and to potential employers. JSOM undergraduates will take 2 CECs before they graduate. You are encouraged to seek help with your speaking and writing at the Business Communication Center (http://bcc.utdallas.edu).

## Learning Outcomes

1. Understand object oriented analysis and design methods.
2. Model an information system using Unified Modeling Language (UML) diagrams.
3. Analyze an existing system and identify the causes of an information related problem, and design a new system to mitigate these problems.
4. Understand the unique issues of managing information systems development projects.

## Suggested Textbooks & Materials (Suggested)

**Systems Analysis & Design an Object Oriented Approach with UML, 5th Edition**
By Dennis, Wixom, and Tegarden, **Wiley Fifth Edition. ISBN 978-1-119-03020-1**
**System Analysis and Design in a Changing World**
By Satzinger, Jackson, & Burd: Cengage Learning 7th Edition. ISBN 978-1-305-11720-4

Textbooks and some other bookstore materials can be ordered online or purchased at the **UT Dallas Bookstore**.
*Visual Paradigm will be available for download from the eLearning page*
Additional Reading: Integrated Business Processes with ERP Systems
Free PDF: www.m5zn.com/newuploads/2013/02/16/pdf/m5zn_1073d1de2c663d8.pdf

## Technical Requirements

In addition to a confident level of computer and Internet literacy, certain minimum technical requirements must be met to enable a successful learning experience. Please review the important technical requirements on the Getting Started with eLearning webpage.

## Course Access and Navigation

This course can be accessed using your UT Dallas NetID account on the eLearning website.

Please see the course access and navigation section of the Getting Started with eLearning webpage for more information.

To become familiar with the eLearning tool, please see the Student eLearning Tutorials webpage.

UT Dallas provides eLearning technical support 24 hours a day, 7 days a week. The eLearning Support Center includes a toll-free telephone number for immediate assistance (1-866-588-3192), email request service, and an online chat service.

## Communication

This course utilizes online tools for interaction and communication. Some external communication tools such as regular email and a web conferencing tool may also be used during the semester. For more details, please visit the Student eLearning Tutorials webpage for video demonstrations on eLearning tools.

Student emails and discussion board messages will be answered within 3 working days under normal circumstances.

## Distance Learning Students Resources

Online students have access to resources including the McDermott Library, Academic Advising, The Office of Student AccessAbility, and many others. Please see the eLearning Current Students webpage for more information.

## Server Unavailability or Other Technical Difficulties

The University is committed to providing a reliable learning management system to all users. However, in the event of any unexpected server outage or any unusual technical difficulty which prevents students from completing a time sensitive assessment activity, the instructor will provide an appropriate accommodation based on the situation. Students should immediately report any problems to the instructor and also contact the online eLearning Help Desk. The instructor and the eLearning Help Desk will work with the student to resolve any issues at the earliest possible time.

## Course Schedule, Assignments, and Due Dates

***This is a tentative class schedule; changes to the schedule will be posted in eLearning.***

| WEEK | CONTENT / READINGS | ASSIGNMENTS |
|---|---|---|
| Week – 1<br>05/27 | Introduction to the Course and Discuss Syllabus<br>Understanding An Integrated Systems<br>Chapter – 1: Introduction to Systems Analysis & Design<br>Assign 6 teams and discuss group project requirements and original project idea. | All virtual class attendance is mandatory.<br>Install Visual Paradigm before next class. |
| Week – 2<br>06/03 | Chapter – 2: Project Management – Importance of PM in IT<br>**Using Visual Paradigm –** You must install Visual Paradigm before class today.<br>Discuss Group Project: Project Idea, Plan, & Proposal<br>**Assign Individual Assignment – 1: HRC Use Case Diagrams** | Individual Assignment – 1 is due on Thursday 06/10 by 11:00pm |
| Week – 3<br>06/10 | **Quiz – 1: At the beginning of class, a subjective test based on materials covered in week 1 & 2.**<br>Chapter – 3: Requirements Determination<br>Chapter – 4: Business Process & Functional Modeling<br>**Group Project Module – 1:** 1 page proposal in word about your project idea, plan, & proposal.<br>Discuss Group Project – Business Process Model | Group Project Module – 1:<br>Due on 06/13 by 11:00pm |
| Week – 4<br>06/17 | **Quiz – 2: At the beginning of class, a subjective test based on materials covered in week 3 & 4.**<br>Chapter – 5: Structural Modeling<br>Chapter – 6: Behavioral Modeling<br>Methodology - Project Management,<br>PM 1st Process Group : Initiating<br>**Individual Assignment – 2: HRC Class Diagrams**<br>Discuss Group Project – Progress User story and Use Case | Individual Assignment – 2 is due on Thursday 06/24 by 11:00pm<br>Group Project Module 1 Assigned |
| Week – 5<br>06/24 | EXAM – I: Thursday, June 24th, 2021 at 6:00pm. There will be 50 MCQ & T/F questions based on materials covered until week – 4. You will have 40 minutes to answer all 50 questions.<br>Class resumes at 7:00PM<br>**Group Project Module – 2:** Business process and other diagrams<br>Project Management Process Groups<br>Basic Concepts in Object Orientation<br>PM 2nd Process Group : Planning | Group Project Module – 2:<br>Due on 07/01 by 11:00pm<br>Virtual exam via eLearning with HONORLOCK.<br>You will have 5 minutes to login into this exam i.e. between 9:00pm – 9:05pm |
| Week – 6<br>07/01 | Chapter – 7: Moving on to Design | Individual Assignment – 3 is due on Thursday 07/08 by 11:00pm |

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| | **Individual Assignment – 3: HRC Sequence Diagrams, Communication Diagrams, and State Machines**<br>PM 3rd Process Group: Executing | Group Project Module 1 Due<br>Group Project Module 2 Assigned |
| Week – 7<br>07/8 | Chapter – 8: Class and Method Design<br>**Group Project Module – 3:** Fine tune BP and other diagrams<br>Discuss group project & project management with team<br>PM 4th Process Group: Monitoring and control | Group Project Module – 3:<br>Due on 07/15 by 11:00pm |
| Week – 8<br>07/15 | **Quiz – 3: At the beginning of class, a subjective test based on materials covered in week 7 & 8.**<br>Chapter – 9: Data Management Layer Design<br>PM 5th Process Group: Closing<br>Team Project Proposal Presentation – Team 1 thru 4<br>Team Project Proposal Presentation – Team 5 thru 8<br>**Individual Assignment – 4: HRC Design** | Individual Assignment – 4 is due on Thursday 07/29 by 11:00pm<br>Group Project Module 2 Due<br>Group Project Module 3 Assigned |
| Week – 9<br>07/22 | Chapter – 10: Human–Computer Interaction Layer Design<br>Chapter – 11: Physical Architecture Layer Design<br>**Group Project Module – 3:** Final Report | Group Project Module – 4:<br>Due on 08/05 by 11:00pm |
| Week – 10<br>07/29 | **Quiz – 4: At the beginning of class, a subjective test based on materials covered in week 9, 10, & 11.**<br>Chapter – 12: Construction<br>Chapter – 13: Installation and Operations | Submit your Project Final Report in eLearning by 08/05, 11:00PM |
| Week – 11<br>08/05 | EXAM – II: Thursday, July 29th, 2021 at 6:00pm. There will be 50 MCQ & T/F questions based on materials covered after EXAM – I. You will have 40 minutes to answer all 50 questions.<br>Class resumes at 7:00PM<br>**Final Project Presentation: Team 1 thru 6 (**Your team will have 15 minutes to present your project and 5 minutes for Q&A.) | Virtual exam via eLearning with HONORLOCK.<br>You will have 5 minutes to login into this exam i.e. between 9:00pm – 9:05pm<br>Group Project Module 4 Due |

## Course & Instructor Policies

**eLearning** will be used for class content (e.g., class slides and assignment descriptions) and the recording of grades. Slides will be posted in before class is held. Class announcements (e.g., change in assignment dates) will be posted in eLearning.

**Instructor Response Policy:** The instructor will respond to all student inquiries (emails, voice messages, etc.) within 48 hours (excluding holidays and weekends).

**Exam Review Policy:** The instructor does not allow a review of any electronic (via eLearning) quizzes, exams and assignments. Also, it is unethical to request the instructor for grade change or additional task work for higher grade.

**Attendance Policy:** Attendance is extremely important. Students are expected to attend all classes in order to achieve maximum success. Attendance will be taken and used in consideration for the Participation grade; however, this grade will also reflect the instructor's judgment of the value of contributions to class discussion. There is no makeup for missed in-class assignments.

**Late Work:** All assignments are due at the beginning of class (not during and not after), on the specified date. I do not accept late assignments unless ***prior*** arrangements have been made with the instructor.

**Academic Integrity**: The University is committed to academic excellence and expects academic honesty from all members of the University community and believes that it is essential for academic excellence and integrity. Academic honesty includes adherence to guidelines established by the instructor in a particular course for both individual and group work. It prohibits representing the work of others to be one's own (plagiarism); receiving unauthorized aid on an assignment (cheating); and using similar papers or other work products to fulfill the obligations of different classes without the instructor's permission. Penalties for academic dishonesty may include a grade of "F" on the work in question or for the course. In addition, any student engaged in academic dishonesty will be subject to disciplinary action. Please refer to the General Polices website (see below) for detailed information pertaining to academic dishonesty, including procedures for determining disciplinary action.

## Assignment Guidelines

- All reading is to be completed before class on the date posted.
- All assignments must be submitted at the beginning of class. Late assignments are **NOT** accepted.
- Written assignments must adhere to the APA style guide of formatting, citing, and referencing.
- Descriptions of assignments will be posted as they are assigned.
- The exams will consist of multiple choice, fill-in-the-blank, and short essay questions. The final exam is not comprehensive. Make-up exams will be in the form of essays.
- No extra credit assignments are available
- General grading criteria can be found in eLearning. Assignment specific grading criteria will be included with the assignment instructions.
- **All assignments will be submitted via eLearning. I do *NOT* accept assignments via email. If you submit an incorrect assignment or need to resubmit your assignment in eLearning you will be allowed to resubmit as long as it is before the due date. Send me an email 24 hours prior to the due date and I will clear your submission. Upon doing so, you will be able to resubmit.**
- **DO NOT CHEAT and DO NOT PLAGIARIZE.**

## Grading

This course will feature a mix of activities and written and verbal assignments that may be in class or on campus. Homework will include readings from the text, assignments, and activities that usually require the student to complete some type of task. The instructor will provide detailed instructions as well as the grading criteria for each assignment. Please consult the course schedule for deadlines.

**Grading Scheme**

| Grade Component | Points |
|---|---|
| **Individual Assignments** | **10%** |
| **Team Project Modules** | **10%** |
| **Team Project Report** | **5%** |
| **Team Project Presentation** | **5%** |
| **Participation & Homework** | **5%** |
| **Attendance** | **5%** |
| **Quizzes** | **10%** |
| **Exams I & II (Midterm, Final)** | **50%** |
| **Total** | **100%** |

**Scoring**

| Final Point Total | Letter Grade |
|---|---|
| **93-100** | **A** |
| **90-92** | **A-** |
| **87-89** | **B+** |
| **83-86** | **B** |
| **80-82** | **B-** |
| **77-79** | **C+** |
| **73-76** | **C** |
| **70-72** | **C-** |
| **67-69** | **D+** |
| **63-66** | **D** |
| **60-62** | **D-** |
| **0-59** | **F** |

## HONORLOCK policies

**NOTICE:** *Enrollment in this course requires the use of Honorlock for online assessment proctoring. Your webcam is recording you during your test or assessment, but no one is watching your exam in real time. Honorlock uses technology to monitor your session, and, if it senses that something is wrong, it will trigger a pop in by a live proctor. The proctor will assess the situation, help you get back on track, and document this for your instructor. After your test, exam proctors may review the exam session to look for any potential violations, and the recording will also be sent to your instructor along with any notes from our proctors.*

*To successfully take an exam, you must have a web camera with microphone, a laptop or desktop computer (no tablets/phones), Chrome browser, a reliable internet connection and your photo ID. You will be prompted to install the Honorlock Chrome Extension (which you can remove after you finish the test). You will then access the exam within your eLearning course and go through the authentication process. Your microphone and web camera will be used by Honorlock to monitor you throughout your test or assessment.*

**YOUR ACTIVITIES ARE RECORDED WHILE YOU ARE LOGGED INTO OR TAKING YOUR ASSESSMENT(S). THE RECORDINGS SERVE AS A PROCTOR AND WILL BE REVIEWED AND USED IN AN EFFORT TO MAINTAIN ACADEMIC INTEGRITY.**

Here is additional information about privacy. https://ets.utdallas.edu/testing-center/honorlock-faculty-faq

For information about Honorlock please refer to this link: https://ets.utdallas.edu/testing-center/honorlock

## General Policies & Procedures

For information regarding general University policies and procedures, please go to http://go.utdallas.edu/syllabus-policies. These policies include the following:

- Technical Support
- Field Trip Policies, Off-Campus Instruction and Course Activities
- Student Conduct and Discipline
- Academic Integrity
- Copyright Notice
- Email Use
- Withdrawal from Class
- Student Grievance Procedures
- Incomplete Grade Policy
- Disability Services
- Religious Holy Days
- Avoiding Plagiarism