

MIS 322 Systems Analysis and Design II
Fall 2021**Credit Hours: 4** (3hrs lecture, 3hrs lab)**Class time and place:** **On-Line****Instructor Contact**Bren RaffaellyEmail: bren.raffaelly@oit.edu

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POLICIES AND PROCEDURES**PREREQUISITES**

“C” or better in the following: MIS 312, MIS 218, MIS 341

REQUIRED MATERIALS**Systems Analysis & Design in an Age of Options**

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Gary Spurrier, University of Alabama
Heikki Topi, Bentley University**eTextbooks:****Paperbacks:**

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ISBN: 978-1-943153-70-1

COURSE DESCRIPTION

Analysis and design phases of the Systems Development Life Cycle. Analyzing, modeling and designing new systems for end users. Includes a team project requiring project management, project documentation, cost/benefit analysis, modeling (process, data and user interface) diagrams, user documentation and test plans.

COURSE OBJECTIVES

At the end of this course, students will be able to:

1. Prepare project plans and appropriate project documents for a business systems development project.
2. Design a computerized business system, utilizing a CASE tool e.g., Visual Paradigm
3. Model normalized data domain models, based on required data elements discovered in analysis, Epics, User Stories and Use Cases
4. Model human computer interface/UI/UX models in support of the business requirements and the data domain
5. Model a High Level system/network architecture in support of the business system solution
6. Model Report/Dashboard/Output Designs
7. Create User Acceptance Testing Plans
8. Create user level application documentation
9. Participate in a significant systems development Team Project that delivers business value to a business customer

COURSE SCHEDULE

Week Of	Course Work
9/29-10/10 1	<ul style="list-style-type: none"> Recap, Key Points of Project initiation and the beginnings of analysis; Chapters: 1 - 4 <ul style="list-style-type: none"> Review Team Project <ul style="list-style-type: none"> Instructor is Customer 360 Evaluations Review Presentations format Build Teams Roles/Charter Syllabus Quiz by Friday 10/8 Assignment #1 Due 10/10 (Individual)
10/11 2	<ul style="list-style-type: none"> Requirements Gathering & PM Chapters: 4,6 Lab: <ul style="list-style-type: none"> Team Project (recommended plan) <ul style="list-style-type: none"> Discussion of current state and opportunities Discussion of interview questions <ul style="list-style-type: none"> Create Interview Questions Draft Project Plan (Lite) Work on as-is models, Activity Diagram, ERD - Assignment #2 Due 10/17 (Individual) - Interview questions to Customer (Instructor) Due 10/17 (Group)
10/18 3	<ul style="list-style-type: none"> User Documentation/Test Plans; Lecture Lab: <ul style="list-style-type: none"> Team Project (recommended) <ul style="list-style-type: none"> Review feedback from Interview questions to Customer Activity Diagram; Firm up as-is, begin to-be ERD Start; Firm up as-is, begin to-be User Story Start (to-be) Complete Post Interview Template Project Plan Lite Due 10/24 (Group) Initial Visioning Document Due 10/24 (Group) Post Interview review Due 10/24 (Group)
10/25 4	<ul style="list-style-type: none"> Cost/Benefit Analysis Lecture Prep for Presentation 1 Video Lab <ul style="list-style-type: none"> Team Project (recommended) <ul style="list-style-type: none"> 2nd round Interview questions to Customer discussion Review progress/team discussions <ul style="list-style-type: none"> Activity Diagrams, ERD, User Stories - Iterate Begin to Identify UIs Needed Begin to Organize how User will Navigate the System Begin work on Presentation I Interview questions to Customer (Instructor) Due 10/31 (Group)

11/1 5	<ul style="list-style-type: none"> • Lab <ul style="list-style-type: none"> ◦ Team Project (recommended) <ul style="list-style-type: none"> ▪ Presentation Build ▪ Project Binder organization and discussion ▪ Iterate on tasks in-flight • Team Eval Due 11/7 (Individual) **Note, no late assignments accepted** • Project Binder Due 11/7 (Group) ; Format TBD • Post Interview review Due 11/7 (Group)
11/8 6	<ul style="list-style-type: none"> • HCI, UI, UX • Use Case Development • Lab: <ul style="list-style-type: none"> ◦ Team Project <ul style="list-style-type: none"> ▪ Interviews TBD ▪ UI Design, Report Design ▪ Use Case Design Discovery ▪ Documentation/Test Plan Update ▪ Update Diagrams • Assignment #3 Due 11/14 (Individual) • Presentation Participation (Canvas Discussion) Due 11/14 (Individual)
11/15 7	<p>Lecture</p> <ul style="list-style-type: none"> • Lab: <ul style="list-style-type: none"> ◦ Team Project (recommended) <ul style="list-style-type: none"> ▪ Use Case development walk-through ▪ UI Design, Report Design ▪ Use Case Design ▪ Documentation/Test Plan Update ▪ Update Diagrams • Final Interview Questionnaire to Customer Due 11/21 (Group)
11/22 8	<ul style="list-style-type: none"> • Thanksgiving Week • Lab: <ul style="list-style-type: none"> ◦ Team Project <ul style="list-style-type: none"> ▪ Iterate on All ▪ UI Design, Report Design ▪ Use Case Design ▪ Documentation/Test Plan Update ▪ Update Diagrams • Assignment #4 Due 11/28 (Individual)

11/29 9	<ul style="list-style-type: none"> • Lecture TBD • Lab: <ul style="list-style-type: none"> ◦ Team Project <ul style="list-style-type: none"> ▪ Prep final documentation ▪ Prep final video • Assignment #5 Due 12/5 (Individual)
12/6 10	<ul style="list-style-type: none"> ▪ Project Documentation: Due 12/12 on One Drive ▪ Eval 2 Due 12/12 (Individual) Team Project <ul style="list-style-type: none"> ▪ Final Project Updates, ▪ Prep For Final Presentation
12/13	<ul style="list-style-type: none"> • Final: Presentation 2. Format TBD.

About Labs

Labs for this course are the team project. There are basically 2 milestones, one at the mid-term and one at the final. Each milestone will have components required from each team role, so be sure to stay in sync with the team and manage your deliverables to be completed on-time. Understanding this term is working entirely on-line, the teamwork can be challenging. The best mitigation strategy for dealing with this is effective and regular team communication. The professor will facilitate the project as a consultant and customer, which can help when needed. Note we are not doing actual software development in this course. That said, the models need to be exact enough to develop awesome user documentation and test plans, as-if construction were done. The models we do will be sufficient for deep cost/benefit analysis, UI/UX and other outputs to Data Domain validation and Activity Diagram validation.

About Participation

Participation in the Group Project is paramount for this course. There are 2 team evals where your team will assess your participation in the project. You will also be assessing your team mates. The points awarded for the evaluations will be based largely on your scores in active participation in team meetings and team work output.

About Assignments

There are 5 regular assignments due throughout the term. Check the syllabus for the schedule.

STUDENT RESPONSIBILITY

Course Assignments

Delivery / Submittal

All Assignments are to be submitted on-time to Canvas or the Shared Drive as required.

Timeliness/Late Work Policy

All work must be turned in by the due date, at the specified time for that particular assignment, test, etc. **Unless an accommodation has been made with the instructor in advance, late assignments result in a 20% penalty and not accepted if over 7 days late. Thank you.**

Changes to the Syllabus will be communicated in Canvas.