**MIS 3770 – Systems Analysis Methods**

**Time & Room:** 9:40-11:05 pm, TR, FCB 369  
**Instructor:** Colin Onita  
**Email:** cgonita@memphis.edu  
**Phone:** (901)678-4638  
**Office:** 363 Fogelman College of Business and Economics  
**Office Hours:** 5 pm – 7 pm, Tuesday and Thursday (or by appointment)  
**Course Website:** http://elearn.memphis.edu/

**Course Description**

The ability to gather, organize, and interpret information is key to business success. Systems analysis and design is a series of steps that help businesses to fully utilize information. This course provides an overview of systems development life cycle including an emphasis on current systems documentation, use of classical and structured tools and techniques for describing process flows and data flows, data structures, file and input/output design and program specifications, data gathering and information reporting activities, transition from analysis to design.

MIS 3775 (Database Management) is a pre-requisite or co-requisite for this course.

Planned topics include:
- Systems Planning and Selection
- Systems Analysis
- Systems Design
- Systems Implementation and Operation

**Course Objectives**

Upon completion of this class, you should be able to:
- Discuss information systems development processes and methodologies related to systems development
- Understand components of the systems development lifecycle
- Create diagrams and documents that reflect the analysis and design of information systems

**Course Website**

Course materials are available online by logging into elearn.memphis.edu. Course materials include lecture slides, in-class exercises, grades, and related links.

**Required Textbook**

Essentials of Systems Analysis and Design, fourth edition  
Valacich, George, and Hoffer  
Publisher: Prentice Hall  
ISBN: 0-13-608496-6
Grading Policy

Class performance will be based on participation, assignments, tests, and a term project. Class performance will be weighted as follows:

<table>
<thead>
<tr>
<th>Component</th>
<th>Percent of final grade</th>
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<tbody>
<tr>
<td>Assignments</td>
<td>20%</td>
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<tr>
<td>Exam 1</td>
<td>20%</td>
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<tr>
<td>Exam 2</td>
<td>20%</td>
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<tr>
<td>Project</td>
<td>30%</td>
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<tr>
<td>Participation</td>
<td>10%</td>
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Grades will be assigned using the following percentages:

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<thead>
<tr>
<th>Grade</th>
<th>Percent</th>
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<tbody>
<tr>
<td>A</td>
<td>90% and above</td>
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<tr>
<td>B</td>
<td>80% to 89%</td>
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<tr>
<td>C</td>
<td>70% to 79%</td>
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<td>D</td>
<td>60% to 69%</td>
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<tr>
<td>E</td>
<td>Below 60%</td>
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Assignments

There will be 4 assignments during the semester. Each assignment should take approximately 4-5 hours. Assignments should be turned in by midnight on the night that they are listed on the schedule.

Assignments are to be done individually. Feel free to discuss general concepts with each other. However, the specifics of the assignment should not be discussed. Assignments allow me to evaluate your understanding of the concepts we discuss.

Exams

There are two tests during the semester. Test 1 will cover general systems development concepts, information relating to managing information systems projects, planning and selection, systems requirements, process modeling, and conceptual data modeling (chapter 1-6 and everything else that we have covered up to that point in the semester). Test 2 will cover design strategies, object oriented analysis and design, human interfaces, database design, and implementation and operation of systems (chapters 7-10 plus appendices).

Exams will be taken in-class. They will consist of 2 sections: a general questions section (multiple choice, short answer) and also an essay/diagramming part.

Please see the schedule for the dates of the exams. No makeup exams will be given.

Project

A major component of this class is a group project (groups will be 3 people in size). Each team will have an opportunity to present their project at the end of the semester and to demonstrate the functionality. The project will be assessed based on its design, coding, and presentation.
The project will be graded as follows:

- Proposal – 15%
- Presentation – 25%
- Final report - Diagrams, Analysis, Design – 50%
- Milestones – 10%

**Participation**

Participation will be evaluated using the following (rough) categories:

- **Good** – (7% - 10% of final grade)
  - Attends class; participates in class discussions; asks meaningful questions
- **Fair** – (4% – 6% of final grade)
  - Attends class, but rarely participates in class discussions or is distracted during class with other material
- **Poor** – (below 4% of final grade)
  - Attendance is spotty; mixed participation

You are expected to attend all classes and participate in class discussions/exercises. Class attendance can affect participation points. You are responsible for the material we cover in class. If you do have a legitimate reason for missing class, if possible, please notify me before class. Lecture slides will be posted on the class website, however, you are responsible for acquiring any other notes from classmates. Please note that office hours are not a substitute for class attendance.

**Disabilities**

Any student who may need class or test accommodations based on the impact of a disability is encouraged to speak with me privately to discuss your specific needs. Students with disabilities should also contact Student Disability Services (SDS) at 110 Wilder Tower, 678-2880. SDS coordinates reasonable accommodations for students with documented disabilities.

**Academic Integrity and Student Conduct**

I assume that you will display academic integrity in this class. Expectations for academic integrity and student conduct are described in detail on the website of the Office of Student Judicial and Ethical Affairs (http://saweb.memphis.edu/judicialaffairs/). Any violations of these expectations are taken seriously. If you have any question about the code of conduct or what constitutes a violation of it, please contact me.