

Systems Analysis and Design

M&IS-24060-01

Summer I, 2005

GENERAL INFORMATION

Instructor: Kholekile L. Gwebu

Course Title: M&IS-24060-01 SYSTEMS ANALYSIS I

Semester: Summer I 2006 (06-12-2006 - 07-15-2006)

Meeting Room: BSA 213

Meeting Times: MTWR 12:00-1:55PM

Office: MI&S Dept. A402

E-mail: kgwebu@kent.kent.edu

Office Hours: Thursday 10:00am-12:00pm (or by appointment)

Course Website: <http://vista.kent.edu>

COURSE DESCRIPTION

This course serves two audiences: (1) those who want to be an information systems analyst, consultant, or project manager; and (2) those who will be users or managers involved in systems development projects, an active member of a project team, or the client for a system request.

Since systems development is central to the IS field, this is a core course for training you for your career. The course covers information systems concepts, systems analysis and design methodologies and techniques, and technologies used during the development of information systems. A key emphasis of the course is project management and working in teams. Within this framework, there is an emphasis on setting IS project goals, developing work plans and methods to achieve those goals, and measuring progress against a project plan.

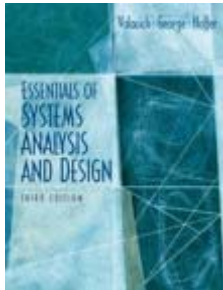
LEARNING OBJECTIVES

The overall course objective is to provide the concepts and skills you need to analyze and design information systems. This course concentrates on the front-end of the systems development process; that is, the course only lightly touches on the design and development of computer programs and their testing and maintenance (although you will work through some elements of the whole development process on your project).

Upon successful completion of the course, you are expected to be able to:

- Describe the major alternative methodologies used in developing information systems and the considerations involved in choosing which methodology to use.
- Produce the requisite systems documentation with clarity and completeness at each point in the analysis and design of an information system.
- Analyze a business need for information and to develop an appropriate strategy to solve the problem and provide the required information service.
- Prepare and use various information-gathering techniques for eliciting user information requirements and system expectations.
- Construct and interpret a variety of system description documents, including physical and logical data-flow diagrams, entity-relationship diagrams, Structured English, class diagrams, state-transition diagrams, as well as screen, form, and report layouts.
- Communicate effectively, in both written and oral forms, systems specifications, and to be persuasive in these presentations.
- Develop a personal plan for improving yourself to become a better systems professional or user/manager of a system, by understanding your own strengths and weaknesses and matching those with the critical success factors of a modern business manager.
- Discuss analysis and design issues as they relate to the development of Internet-based electronic commerce applications.

REQUIRED TEXTBOOK



- Valacich, Joseph, Joey George and Jeffrey A. Hoffer.
- Essentials of Systems Analysis and Design. 3rd ed.
- Upper Saddle River:
- Prentice Hall, 2006.
- ISBN: 013-201756-3

PRESENTATIONS, QUIZZES, EXAMS AND PROJECTS

Academic Dishonesty .It is expected that all work you submit for a grade will be your own. If this is not the case, a failing grade will be assigned for this course and the instructor reserves the right to pursue additional sanctions as provided by University rules and regulations. If you are not familiar with these rules and regulations, you can find them in the current University Phone Directory.

In particular, each of you must submit your own work. Should two or more of you submit identical or substantially identical assignments/quizzes/exams/projects, then I can only assume that one (or more) of you copied from the other(s). In such a circumstance, every student involved will receive a failing grade for the course. Additional sanctions may be

pursued in accord with University rules and regulations.

- **Dates and Timings:** Quiz, Exam and Research Assignment dates are posted at your course website, and also given below in this syllabus. Please ensure that your tests have been graded correctly, and notify the instructor immediately of any concerns.
- ✚ **Discussion/Presentation:** Each student will be assigned a topic to lead as professional 15-20 minute discussions/presentations. Upon completion of the discussion/presentation students will turn in their PowerPoint slides and any other material you used during the presentation to the instructor within 24 hours. Each discussion/presentation is worth 10 points. The rest of the class is also expected to conduct extensive research on each topic. Time may be provided by the instructor for such research to be done. During research time, the instructor will provide a brief overview of the topic under consideration, and guidance on how students can go about locating resources to address the problem(s) posed. During discussions/presentations each class member will be expected to ask intelligent questions, or provide additional insights. Such participation will earn students a maximum of 5 points. Therefore, if one does an excellent job on their own presentation, and asks intelligent questions or provides meaningful insights during other students' presentations (s)he will earn a maximum of 15 points towards the discussion/presentation portion of their grade.
- ✚ **Quizzes:** There are 4 quizzes for this class. Each quiz will be worth 20 points. Quizzes will mainly consist of multiple choice questions or true or false questions. All quizzes will be taken in class. All quizzes are closed-book. The amount of time allotted for each quiz may vary, but will typically be around 20-30 minutes. You will have only one attempt to take each quiz.
- ✚ **Examination:** There will be one final examination. The examination is worth 25 points. The Final exam will take approximately 150 minutes. It will consist of two parts. Part 1 is a set of multiple choice questions and true or false questions and closed book and closed notes. Part 2 consists of essay questions and open book, open notes are permitted.
- ✚ **Cases:** There will be 4 Cases. Each Case is worth 20 points. At the beginning of each lab session, each student will be given the case instructions. You will have a full class session to complete the case. All case assignments should be submitted to my office by 12 midnight on the Saturday following the case assignment date. Any student who is absent from the case sessions will automatically receive zero points (unless pre-arrangements are made with the instructor).

GRADING SCALE

The maximum number of points for this course is 100 (15 for the Discussion/Presentation, 80 for Quizzes, 80 for the Cases, and 25 for the Final Exam).

A: [200-180] points
B: [179-160] points
C: [159-140] points
D: [139-120] points
F: [119-0] points.

With respect to make-up, the general policy is no make-up of missed work (including quizzes, projects, discussion/presentation and exams) is allowed, and no late work will be accepted. The only exceptions are for some legitimate excuses such as illness, death in the family, etc., in this case the instructor should be notified as soon as possible and legitimate proof is required.

Once grades for a homework or quiz are posted on the course website, you have two days to let me know by e-mail, if you feel a mistake has been made in your grade. If you fail to contact me about your grade within this three day period, then the grade for the homework or quiz, even if incorrect, will be final.

READINGS

This course is designed to help you develop skills that will serve you in an ever changing professional environment. In particular, your text and any other supplementary materials you may acquire are resources to help you master important concepts. You should take the extra time to familiarize yourself with them.

COURSE WITHDRAWAL:

Summer I 2006 course withdrawal deadline is Monday, July 3, 2006. Course withdrawal before the deadline results in a "W" on the official transcript; after the deadline a grade must be calculated and reported. Please consult with an academic advisor in the Undergraduate Programs Office (Room 107, BSA – 330-672-2872) if you are having academic difficulty.

CLASS ATTENDANCE

Class attendance is not required, however, it is expected and, you are responsible for all material covered in class in addition to that assigned outside of class. Occasionally, there may be random in-class exercises assigned during class time. If you miss a class you will not be able to "make-up" these exercises. The only exception to this rule is in very rare situations where you will have to notify me in writing (along with any supporting evidence e.g. a doctor's note) at as to why you were not able to attend class. Thereafter, I will make a decision as to whether the reason given for missing the class is warranted to allow you to "make-up" the missed exercises.

A note on class decorum:

I interpret your coming to class as an expression of your interest in learning as much as you possibly can. Certainly, you should assume that this is your classmates' intention in being here. In fairness to your classmates (and me), I expect you to refrain from talking to others, reading newspapers, sleeping, playing radios or mp3s, making telephone calls and other similar, disruptive activities. Don't be surprised if I ask you or someone else to leave because of conduct detrimental to the class. If you simply must study for a test later that day, stay home, go to the Library, find a bench outdoors. Don't do it in class.

Excuses

Late work will not be accepted unless excused by university policy.

No make-up projects, labs, quizzes, or exams will be given unless excused by university policy.




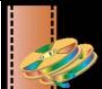

STUDENTS WITH DISABILITIES

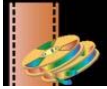


University policy 3342-3-18 requires that students with disabilities be provided reasonable accommodations to ensure their equal access equal access course content. If you have documented disability and require accommodations, please contact the instructor at the beginning of the semester to make arrangements for necessary classroom adjustments. Please note, you must first verify your eligibility for these through the Student Disability Services (contact 330-672-3391 or visit www.kent.edu/sds for more information on registration procedures).

ENROLLMENT/OFFICIAL REGISTRATION

Students attending the course who do not have the proper prerequisite risk being deregistered from the class. Students have responsibility to ensure they are properly enrolled in classes. Should you find an error in your class schedule, you need to correct the error with your advising office no later than Tuesday, May 23, 2006 for Intersession 2006 – Thursday, June 15 for Summer I – Sunday, June 18 for Summer II - and Thursday, July 20 for Summer III. If registration errors are not corrected by these dates and you continue to attend and participate in classes for which you are not officially enrolled, you are advised now that you will not receive a grade at the conclusion of the semester for any class in which you are not properly registered.

TENTATIVE COURSE SCHEDULE

Week	Topics	Reading Assignment	Discussion/Presentation
June 12	Introduction to Course <ul style="list-style-type: none"> Syllabus and Expectations What is this course about and why is it important How to excel in this course The Systems Development Environment	Chapter 1 Chapter 2	
June 13	Managing the Information Systems Project	Chapter 3	
June 14	<ul style="list-style-type: none"> Case 1 	Chapter 3	
June 15	<ul style="list-style-type: none"> Quiz 1 (Covers in class discussion, Chapter 1-2 in the text) Research Assignment 1 		
June 19	Systems Planning and Selection	Chapter 4	<ul style="list-style-type: none"> Discussion of Research assignment 1 (led by TODD MCDEVITT,)
June 20	Determining System Requirements	Chapter 4	 Making the business Case
June 21	<ul style="list-style-type: none"> Case 2 	Chapter 5	
June 22	<ul style="list-style-type: none"> Quiz 2 (Covers in class discussion, Chapter 3-4 in the text) Research Assignment 2 		
June 26	Structuring System Requirements: Process Modeling	Chapter 5	<ul style="list-style-type: none"> Discussion of Research assignment 2 (Led by DANIEL O'SULLIVAN)
June 27	Structuring System Requirements: Conceptual Data Modeling	Chapter 6	 JAD
June 28	<ul style="list-style-type: none"> Case 3 	Chapter 6	

June 29	<ul style="list-style-type: none"> • Quiz 3 (Covers in class discussion, Chapter 5-6 in the text) • Research Assignment 3 		
July 3	Structuring System Requirements: Conceptual Data Modeling	Chapter 7	Discussion of Research assignment 3 (led by STEPHANIE ZIMMERMAN  Managing Expectations
July 5	<ul style="list-style-type: none"> • Case 4 	Chapter 7	
July 6	<ul style="list-style-type: none"> • Quiz 3 (Covers in class discussion, Chapter 1-3 in the text) • Research Assignment 4 (2 parts) 	Chapter 8	
July 10	Selecting the Best Alternative Design Strategy Project Requirements Walkthrough	Chapter 8	<ul style="list-style-type: none"> • Discussion of Research assignment 4 (led by TATSUYA HASHIMOTO & DEBORAH ROUEIHEB)
July 11	Designing the Human Interface	Chapter 9	
July 12	Designing Databases	Chapter 9	 <ul style="list-style-type: none"> • Application Engineering
July 13	<ul style="list-style-type: none"> • Final Exam 		

Note: The instructor reserves the right to amend the syllabus at any time during the course of the semester.