CIS 425 Syllabus (Fall 2012)
Information Systems

1 General Information

- Instructor – Dr. Brahim Medjahed.
- When – Tuesday and Thursday, 11:30am - 1:20pm.
- Where – CASL 1083
- Office Hours – Tuesday and Thursday from 9:00am to 11:15am or by appointment. If you need an appointment, please send an email at least 24 hours before the requested time.
- E-mail – brahim@umd.umich.edu
- Phone – (313) 583 6449.
- Course Information – Course material and information will be posted on VLT.

2 Current Description

The course introduces the major concepts and techniques for designing and implementing information systems and their role in modern organizations. Topics includes systems development life cycle (SDLC), project management, ethical issues in information systems, Web-based information systems, data integration, XML, Web services, business process management, and business intelligence. (4.000 Credit Hours, 4.000 Lecture hours).

3 Course Objective

Students will be able to design and analyze organizations’ information systems. The course provides a conceptual framework for the development of effective information systems. It introduces the principles of information systems as well as the methodologies, techniques, and technologies for designing, analyzing, and implementing information systems in modern organizations.

4 Pre-requisites

CIS 375 and previous or concurrent enrollment in CIS 421.

5 Main Topics

- Introduction to Information Systems (1 hours)
- Overview of Systems Development Life Cycle - SDLC (2 hours)
- Project management (3 hours)
- Techniques for gathering information (4 hours)
• Data flow diagrams (4 hours)
• Process specification (4 hours)
• Human-computer interactions (4 hours)
• Documentation, testing, and conversion strategies (4 hours)
• Distributed information systems and Data integration (2 hours)
• XML, DTDs, and XML Schema (7 hours)
• Web services (8 hours)
• Workflow and business process management (3 hours)
• Data warehousing (4 hours)
• Data mining (4 hours)

6 Course Policy

• Lecture notes and announcements will be posted on VLT. Please make sure you have a valid email address in your VLT profile.
• All students must respect the statement on academic conduct (please, see Section 10).
• Please read your email regularly for announcements.
• You are expected to return your assignments at the due date. Late assignments (project, homework, etc.) will be penalized 5 points off for each late day. Assignments are not accepted after 4 days from the due date.
• If there are mistakes in grading your homework assignment, project, or exam, please contact me within a week after the return of your work. The entire work will be graded again and the new grade will replace the original one, whether the new grade is higher or lower than the original grade.
• Cell phones must be turned off during lectures. If you are unwilling to turn your phone off, do not bring it to class. If you are observed using your phone during class, you will be asked to leave. It is not permitted to use head phones, ear buds, etc. during lectures. You may use a computer to take notes during lecture. Use of your computer for purposes not directly related to CIS 425 is not permitted (for example, email, watching videos, etc.). If you are observed doing so, you will be asked to leave the class.
• Quizzes will be used to reinforce concepts, check student comprehension, and instigate discussion. There will normally be a quiz for each chapter. Missed quiz points can not be made up. Two quizzes with the lowest scores will be dropped at the end of the semester.

7 Grading

• Homework Assignments: 10%
  1. Homework 1: 5%
  2. Homework 2: 5%
• Quizzes: 5%
• Midterm Exam: 30%
• Project: 25%
• Final Exam: 30%

8 Important Dates

• Homework 1
  – Posted: 10/26/2012
  – Due: 10/30/2012

• Midterm: 11/01/2012 from 11:30am to 1:20pm

• Homework 2
  – Posted: 11/30/2012
  – Due: 12/06/2012

• Project
  – Posted: 09/13/2012
  – Due: 10/16/2012 (part 1) - 11/27/2012 (part 2) - 12/11/2012 (part 3)

• Final Exam: Thursday December 13th 2012, 11:30am - 2:30pm (to be confirmed).

9 Disability Resource Services

The University will make reasonable accommodations for persons with documented disabilities. Students need to register with Disability Resource Services (DRS) every semester they are enrolled for classes. DRS is located in Counseling & Support Services, 2157 UC. To be assured of having services when they are needed, students should register no later than the end of the add/drop deadline of each term.

10 Statement on Academic Conduct

The University of Michigan - Dearborn values academic honesty and integrity. Each student has a responsibility to understand, accept, and comply with the university’s standards of academic conduct as set forth by the Code of Academic Conduct, as well as policies established by the schools and colleges. Cheating, collusion, misconduct, fabrication, and plagiarism are considered serious offenses. Violations will not be tolerated and may result in penalties up to and including expulsion from the University.