



Oklahoma State University

Spears School of Business

Department of MSIS

MSIS 5653 – Advanced Systems Development (Sections 001, 801, 603 & 604)

Spring 2009 Syllabus (Version 1.0)

Instructor	Dr. Dursun Delen Associate Professor of Management Science and Information Systems
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Class Web Site	http://oc.okstate.edu/ (OSU's Desire2Learn Site)
Class Hours	Thursday, 4:30 pm to 7:10 pm (Tulsa - T-NCB 211) Thursday, 4:30 pm to 7:10 pm (Stillwater – MSCS 310)
Office Hours	Thursday, 1:30 pm to 4:20 pm (in Tulsa – NH 378) Thursday, 1:30 pm to 4:20 pm (in Stillwater – BUS 426) ... and by appointment
Course Overview	<p>The overall course objective is to provide students with the concepts and skills needed to better understand and manage today's business processes and design information system solutions. This course concentrates on both the business process modeling using IDEF methods and the tools, and the overall information systems development life cycle.</p> <p>This is a course available to students seeking degrees in variety of disciplines such as management information systems, business administration, industrial engineering and computer science. Students who have the knowledge of a programming language (such as Visual Basic, Java, C#, etc.) and a basic understanding of the general business functions increase their likelihood of enjoying and greatly benefiting from this course.</p>



Required Text

Modern Systems Analysis and Design
5th Edition, Prentice Hall, ©2008, by
J. A. Hoffer,
J. F. George and
J. S. Valacich

ISBN-10: 0132240769
ISBN-13: 9780132240765
(ISBN might be different for the bundled
versions of the book)

**Required Material**

IDEF0 Method Report

(<http://www.idef.com/Downloads/pdf/idef0.pdf>)

IDEF3 Method Report

(http://www.idef.com/Downloads/pdf/Idef3_fn.pdf)

Business Process Reengineering (BPR) by R. Mayer and P. deWitte

(<http://www.idef.com/Downloads/pdf/bpr.pdf>)

Required Software

1. AI0 Win 7.0 (by KBSI) – available for download at the class website
2. ProSim 7.0 (by KBSI) – available for download at the class website
3. Oracle 10g Designer (by Oracle) – comes with the textbook
4. Microsoft Access or SQL Server databases – available in the labs

**Additional Texts
(for Reference)**

- ❑ The Practical Guide to Business Process Reengineering Using IDEF0
by C. G. Feldmann, Dorset House Publishing, 2000.
- ❑ Systems Analysis & Design, 6e
by J. L. Whitten et al., Irwin/McGraw-Hill, 2003.
- ❑ Systems Analysis & Design, 6e
by K. E. Kendall and J. E. Kendall, Prentice Hall, 2005.
- ❑ Process Analysis and Improvement: Tools and Techniques
by Seppanen, M. et al., Irwin/McGraw-Hill, 2005.

Term Project

There will be a team-based term-project involving the complete systems development life-cycle, where you will develop an information systems solution to meet with a real-world organization's need. Depending on the class size, each team will be made up of three or four people. You will be responsible for selecting the team members, finding the real-world application, organizing and planning your project, and choosing and using suitable tools and programming languages for developing the prototype solution. Each team will submit a final report documenting each and every step of their system development process, and will present their project in class as a team at the end of the semester. More information about the term project will be provided in class.

Mini Quizzes

There will be several mini-quizzes to help you assess your learning. These on-line quizzes will be available on D2L. Although you may take the quiz open book / open notes, you should be aware that the quizzes are timed and you will not necessarily have enough time to look-up all of the answers to the quiz questions. Therefore, you should study for the quiz before you take it. If you miss the deadline, you will not be able to take the quiz later. There are no makeup quizzes but the lowest quiz score will be dropped from the evaluation at the end of the semester. After taking the quiz, you are on an honor system and you should not discuss the quiz items with other class members. Assistance in answering the quizzes from another person or discussing quiz items with other students in the class prior to the quiz deadline will not only not help you really learn but will also be considered cheating.

Homework

Five homework assignments will be given over the course of the semester. You will have one week to work on each (unless otherwise specified by the instructor). You have to upload your well-organized write-up **electronically** before the start of the class on the stated due date. The reports should be submitted as a single MS Word file. The homework assignments are to be solved **individually** (see *Academic Dishonesty* section for details). This means that you are not to solve problems together or compare answers prior to turning in the work. Cooperative efforts on individual work will result in an immediate score of zero for all parties involved. The purpose of the homework assignments is to provide you with practice and exposure to the relevant material, and to demonstrate working knowledge of the subject matter.

Examination

There will be one mid-term and one final exam. The exams will include a combination of multiple-choice, fill-in-the-blanks, short answer essay questions and numerical problems.

Participation and Professionalism

10% of the grade will be coming from your class participation and the way in which you present yourself in class. You are expected to (1) come to the class on time, and (2) read the assigned material prior to the start of the class, so that you can intellectually and meaningfully contribute with your participation.

Grading Policy

Mid-Term Exam:	200
Final Exam	200
Homework Assignments:	200
Term Project:	200
Quizzes:	100
<u>Participation & Professionalism:</u>	<u>100</u>
TOTAL:	1000 points

The final grade will be determined using a standard scale based on the total points: (>900→A, 800-899→B, 700-799→C, 600-699→D, <600→F). The decision whether to curve (if needed) will be made only at the end of the semester. For distance students the participation and professionalism points will be reduced to 50 points (participation via the D2L discussion board only) and the total points will be adjusted accordingly.



Special Accommodations for Students

According to the Americans with Disabilities Act, each student with a disability is responsible for notifying the University of his/her disability and requesting accommodations. If you think you have a qualified disability and need special accommodations, you should notify the instructor and request verification of eligibility for accommodations from the Office of Student Disability Services. Please advise the instructor of your disability as soon as possible, and contact Student Disability Services, to ensure timely implementation of appropriate accommodations. Faculty has an obligation to respond when they receive official notice of a disability but are under no obligation to provide retroactive accommodations. To receive services, you must submit appropriate documentation and complete an intake process during which the existence of a qualified disability is verified and reasonable accommodations are identified. Go to www.okstate.edu/ucs/stdis/ or call 405-744-7116.

Academic Dishonesty

Oklahoma State University is committed to maintaining the highest standards of integrity and ethics. This level of ethical behavior and integrity will be maintained in this course. Participating in a behavior that violates academic integrity (e.g., unauthorized collaboration, plagiarism, multiple submissions, cheating on examinations, fabricating information, helping another person cheat, unauthorized advance access to examinations, altering or destroying the work of others, fraudulently altering academic records, and similar behaviors) will result in a sanction. Sanctions include: receiving a failing grade on an assignment, examination or course, receiving a notation of a violation of academic integrity (F!) on your transcript, and being suspended from the University. You have the right to appeal the charge. Contact the Office of Academic Affairs, 101 Whitehurst, 405-744-5627, academicintegrity.okstate.edu.

**Missed Examinations**

Only in extenuating circumstances such as family crisis, illness, death in the family, etc., will makeup provisions apply. Advice your instructor in advance, or right after the fact, of absence due to such matters, so that necessary arrangements can be done in a timely manner.

Late Assignments

Late assignments will not be accepted, unless prior permission is granted by the instructor.

Attendance

Attendance to the class is not required but **highly recommended**. Keep in mind that you cannot participate without attending the class. In any case, students will be held accountable for all work covered in the class despite valid reasons for their absence.

Tentative Course Outline

(Some Alterations are Likely)

Date	Topic	Reading Assignment
January 15	Introduction to Systems Development Course	
January 22	IDEF0 Modeling	IDEF0 Method Report
January 29	IDEF3 Modeling	IDEF3 Method Report
February 5	Business Process Reengineering (BPR)	BPR Document
February 12	Understanding Systems Development Projects	Ch 1 and 2
February 19	Managing the IS Projects	Ch 3
February 26	Planning - Making the Business Case	Ch 4 and 5
March 5	Mid-term Exam	
March 12	Requirement Analysis and Process Modeling	Ch 6 and 7
March 19	SPRING BREAK	
March 26	Process and Logic Modeling	Ch 7 and 8
April 2	Conceptual Data Modeling	Ch 9
April 9	Designing Databases, Forms and Reports	Ch 10 and 11
April 16	Designing Interfaces and Finalizing the Design	Ch 12 and 13
April 23	Implementation & Project Presentations (Stillwater)	Ch 15 and 16
April 30	Maintenance & Project Presentations (Tulsa)	Reports are DUE
May 7	Final Exam	

The instructor reserves the right, when necessary, to modify the syllabus: alter the grading policy, change examination dates, and modify the course content. Modifications will be announced and discussed in class and will be posted on the class website. Students are responsible for those changes.

