

UNIVERSITY OF NORTH CAROLINA WILMINGTON
MIS 565-001 – ANALYSIS, MODELING & DESIGN
2007 – SPRING SEMESTER

<u>DAYS</u>	<u>TIME</u>	<u>ROOM</u>
Wed	6 to 8:45 PM	CI - 1007

INSTRUCTOR Tom Janicki
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OFFICE Computer Information Systems - 2052
Tuesday 11:00 to Noon & 1:30 to 4:00
Wednesday 10:00 to Noon & 1:30 to 4:00
Thursday 11:00 to Noon & 1:30 to 3:00

TEXTBOOK & MATERIALS REQUIRED

**Object Oriented Analysis and
Design with the Unified Process**

Satzinger, Jackson, Burd
Thompson Publishing, 2005
ISBN 0-619-21643-3

This is not final (awaiting number of students). Cases may be purchased at
<http://harvardbusinessonline.hbsp.harvard.edu> or
<http://www1.ivey.ca/cases/>

Nortel – Re-Inventing I/S (Ivy 9a97e001) – IVEY case
Cisco Systems Architecture: ERP/Web enable IT (9-301-099)
IT Doesn't Matter (3566)

Royal Caribbean Cruises Ltd, #9-304-019
Andina Bottling Company (#9-102-040)
What's your strategy for managing knowledge(99206)

Business Intelligence Software at SYSCO (9-604-080)
*Information Systems at FirstCaribbean: Choosing a standard operating
environment (Ivey – 9B04E032)*
R.J. Thompson Data Systems Inc (Ivey – 9B05E019)

Siemens ShareNet: Building a Knowledge Network (9-603-036)
Information Technology and Innovation at Shinsei Bank (9-607-010)
Information Technology at COSCO (9-305-080)

PREREQUISITES MIS 411 or CSC 450 or equivalent

COURSE DESCRIPTION

Analysis and modeling of information systems. Topics include project estimation and management, logical design methodologies and techniques, make or buy decisions, risk analysis, implementation issues and training.

OVERALL COURSE OBJECTIVES

Topics:

1. System development methodologies including the cycle and iterative design models: development phases including system selection and planning, analysis, logical design, physical design, implementation and maintenance
2. Techniques for requirements, determination, collection and organization
3. Team organization and communication; interviewing, presentation, design and delivery; group dynamics and leadership.
4. Project feasibility assessment and risk analysis
5. Design reviews and structured walkthroughs
6. Human computer interaction (HCI)
7. Software and system quality metrics
8. Software package evaluation and acquisition, open source, managing, external relationships and procurement.
9. Currency in the field of Information Technology
10. Enhanced presentations/writing skills

METHODS OF TEACHING

This course will blend lectures, case studies, student presentations and project analysis, modeling and design to help participants obtain the knowledge and skills to manage data in real world applications.

STUDENT RESPONSIBILITIES

The student is responsible for doing all assigned readings and grasping all the material presented in class which may or may not originate from the textbook. The student will be responsible for the material covered in the lectures, assigned textbook readings and other reading assignments whether or not covered in the class lectures. IF YOU DO NOT UNDERSTAND A SUBJECT OR WOULD LIKE A FURTHER EXPLANATION, DON'T BE AFRAID TO ASK. . . YOU ARE PROBABLY NOT THE ONLY ONE WHO NEEDS HELP.

The student is responsible for submitting the assignments when scheduled by the instructor. Absence from class does not excuse the student from any assignments made during the class period. A student who misses a class should check with the instructor or another student to determine if an assignment was made during the class that was missed. For this purpose, it is strongly advised that each student gets the name and phone number of at least two other students in the class. Each student is expected to address the assignments individually.

Cheating of any kind shall result in a grade of zero (0) on the test, assignment or quiz in question, **with a minimum deduction of one letter grade should the assignment be worth less than 10%**. The instructor shall be the sole judge as to when cheating has occurred. Collaboration, copying of other's diskettes, or handing in the work of others is considered cheating. Violations will follow the guidelines in the Student Handbook and Code of Student Life.

Students are expected to exhibit conduct that is courteous to the instructor and to the other students. Talking during class, reading of newspapers or other materials, and doing work for other courses during this class are examples of conduct that is considered to be unacceptable. Use of cellular phones, instant messaging while in class or in the lab will not be acceptable **and you will be asked to leave the class for the remainder of the class**. It is rude to other students and the instructor to use your phone or instant message during scheduled class periods.

Grades will be posted on the web. It is the student's responsibility to check the posted grade frequently. ***Questions pertaining to grades MUST be made within 1 weeks of when the project is returned. No adjustments will be made after the one week period.***

LABORATORY ASSIGNMENTS AND SOFTWARE:

The course requires work on the computer outside of the scheduled classes. The actual amount of time required will vary from student to student. The student is responsible for arranging his/her individual schedule so that the student can spend the required time on the computer. Students enrolled in this class qualify for free software from the Microsoft Academic Alliance Package.

EVALUATION

The student's performance evaluation (grade) will be based on the following:

1. **Presentation/research:** Each master candidate will research and present one topic as approved by the instructor. Potential areas include: systems analysis, systems modeling, systems design, rapid application development, extreme programming, joint application development, prototyping, systems failures or human computer

interaction (interface design). Current Topics in IT will also be considered. A written report will also be required.

2. **Mini - Projects:** small homework projects.
3. **Quiz** – One quiz.
4. **Client Project:** A client analysis and design project will be required. This project will have separate graded components.
5. **Case facilitator:** Each participant will lead the discussion on one of the assigned cases and provide a written summary of the case.
6. **Case Summary** – Two one page case written summaries are required. This does not include the case you present
7. **Class contribution:** Each candidate is expected to participate in case discussions, speaker presentations and client project

The following is a summary of the grade allocation and the rules for assigning grades.

Research / Current Presentation	15%	90-100	A
Homework Projects	15%	87-89	B+
Quiz	15%	83 – 86	B
Client Project	25%	80 - 82	B-
Case Analysis/Research	15%	< 80	C
Case Summary	5%		
Class Contribution	10%		

ANALYSIS, MODELING & DESIGN TENTATIVE SCHEDULE

1/10/07	Chapter 1	Introduction Systems Analyst - Object Oriented Development
1/17/07	Chapters 2, 3, 4	Object Oriented Development Project Management, Requirements
1/24/07	Career Day,	<i>Plan to attend sessions and seek potential internships or full time employment</i>
1/31/07	Chapters 5/6	Use Case / Domain Classes / Modeling / Requirements
2/7/07	Chapter 7	Design Activities

2/14/07	Chapter 8	Use Case / UP Iterations
2/21/07	Chapter 9	Advanced Topics Guest Speaker: Liz Hosier
2/28/07	Chapter 10/11	Data Access Layer/User Interface Quiz
3/7/07 Spring Break!		
3/14/07	Chapter 12	Interfaces, Controls, Security
3/21/07	Chapters 13/14	Implementation / Testing / Deployment
3/26/07 Business Week		<i>No Class, attend Business Week Events on Tuesday, Wednesday, Wilmington IT Community Mixer on Thursday</i>
4/4/07	Appendix A/B	Project Management Concepts
4/11/07	Appendix C	Net Present Value, Payback Period, ROI
4/18/07	Appendix D	Presenting the Results to Management
4/25/07		
5/2/07	Presentations	Final Presentations