

Instructor: Assem El-Ansary, Ph.D. Office: S&T II - Room 229 Phone: (703) 362-5001 E-mail: assem@elansary.net Office Hours: by appointment	Graduate Assistant: Sylvia Henshaw Office: TBS Phone: TBS E-mail: Office Hours: by appointment
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Course Number: INFS 622
Course Title: Systems Analysis and Design
Term: Fall 2006
Time: Tuesday, 19:20-22:00
Room: Robinson Hall A111
Prerequisite: INSF 501, 515 and 590 or equivalent.

Textbooks:

- Modern System Analysis & Design, 4-th Edition, 2004, J. A. Hoffer, J. F. George, J. S. Valacich, ISBN 013145617
- UML Distilled: A Brief Guide to the Standard Object Modeling Language, Third Edition, 2003, ISBN 032119368
- Requirements Analysis and System Design: Developing Information Systems with UML, 2001, Leszek A. Maciaszek, ISBN 0201709449

Course Description:

Integration of computing technologies, system analysis, system design practices, and management criteria in the design of large-scale information management and decision support systems. More emphasis on UML will be introduced.

Grading:

Individual Projects: 20%
 Midterm Exam: 20%
 Group Project: 30%
 Final Exam: 30%

Grading Scale:

90 – 100: A
 80 – 89: B
 70 – 79: C

Individual Projects:

Projects are announced during class. The projects are individual unless otherwise specified. Projects will be graded on correctness as well as style and presentation. Each project is due on the announced date before 12 midnight. There will be a strictly enforced 10% penalty per day for late submissions.

Group Project:

There will be a group research project. Each team is responsible for developing an integrated requirements specification and design document. Each group will select a team coordinator who will help coordinate the overall progress of the team. Each team member's individual contribution to the final documents and models must be clearly identified. At the end of the semester each group will have a presentation session.

Exams:

There will be a midterm exam and a final exam covering lectures and readings (both will be in class). The final exam (comprehensive) includes topics covered in the entire semester. Exams must be taken at the scheduled time and place. Missed exams cannot be made up.

Honor Code Statement:

As with all GMU courses, INFS 622 is governed by the GMU Honor Code. In this course, all assignments, exams, and project submissions carry with them an implicit statement that it is the sole work of the author, unless joint work is explicitly authorized. Help may be obtained from the instructor or other students to understand the description of the problem and any technology, but the solution, particularly the design portion, must be the student's own work. If joint work is authorized, all contributing students must be listed on the submission. Any deviation from this is considered an Honor Code violation. (© Jeff Offutt)

Schedule:

Week 1	Aug. 29	1. Introduction to Systems Analysis and Design
Week 2	Sept. 5	2. Analyzing the Business Case 3. Requirements Modeling
Week 3	Sept. 12	4. Data and Process Modeling 5. Development Strategies
Week 4	Sept. 19	6. Output and User Interface Design
Week 5	Sept. 26	7. Data Design
Week 6	Oct. 3	8. Systems Architecture
Week 7	Oct. 10	Midterm Exam
Week 8	Oct. 17	Research Project
Week 9	Oct. 24	Spring Break - No classes
Week 10	Oct. 31	9. Systems Implementation
Week 11	Nov. 7	10. Systems Operation, Support, and Security

Week 12	Nov. 14	Toolkits 1: Communication Tools 2: CASE Tools
Week 13	Nov. 21	3: Financial Analysis Tools 4: Project Management Tools
Week 14	Nov. 28	5: Object-Oriented Tools 6: Internet Resource Tools
Week 15	Dec. 5	Student Presentations
Week 16	Dec. 12	Student Presentations
Week 17	Dec. 19	Final Exam