

INFORMATION SYSTEMS 610 - SYSTEM DESIGN TECHNIQUES
Syllabus, Spring 2006

Classes:	Thursday 4:00 pm - 6:20 pm	
Place:	Marshall (Huntington) GH Room 206a	

PREREQUISITE:: Successful Completion of IS-605 (Systems Analysis Techniques)
or Permission of Instructor

TEXT: "Systems Analysis & Design Methods" (6th Edition)
Whitten, Bentley & Dittman -- McGraw Hill/Irwin

FACILITATOR: John Biros
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COURSE DISCUSSION:

This course is directed toward Information Systems students who may want to work in the information systems area and to students in other programs who want to study information systems development as a minor concentration. The normal progression in the curriculum is to precede this course with IS 605 (Systems Analysis). The analysis project created in IS-605 serves as input into IS 610. The methodology presented is the traditional "structured methodology". Interspersed are concepts from the "Object Oriented" methodology. The course covers the physical design of information systems, including printed report design, screen design, data storage requirement and system architecture. In addition, it includes hardware selection, software design, database considerations, program development, structured software engineering techniques, cost performance trade-offs, system implementation techniques, testing, security, backup and recovery as well as system evaluation and optimization techniques.

The course includes a very strong project component. Each student is required to produce a

INFORMATION SYSTEMS 610

detailed and complete system design project that includes complete input designs, output designs, etc. as well as detailed software requirements. There will also be a group project requirement.

GRADING:	8	Homework Assignments	120	A	721-800
	8	Quizzes	80	B	641-720
	1	System Design Project	300	C	561-640
	1	Class Participation	50	D	481-560
	2	Exercises	150	F	0-480
	1	Final	100		
		Total	800		

INFORMATION SYSTEMS -- IS-610

CLASS SCHEDULE

(Subject to change at any class meeting)

No.	Date	Subject	Chapter	Other
1	10-Jan	Admin. Matters -- Chapter 12 -- Intro	12	
2	17-Jan	Application Architecture	13	Quiz
3	24-Jan	UML -- Object Orientation	18	Quiz
4	31-Jan	Free Week		
5	7-Feb	CLASS PROJECT		Exercise
6	14-Feb	Database Design	14	Quiz
7	21-Feb	Output Design	15	Quiz
8	28-Feb	Input Design	16	Quiz
9	7-Mar	User Interface	17	Quiz
10	14-Mar	CLASS PROJECT		Exercise
11	21-Mar	SPRING BREAK -- NO CLASSES		
12	28-Mar	Implementation & User Support	19	Quiz
13	4-Apr	Operations & Support	20	Quiz
14	11-Apr	Software Engineering		
15	18-Apr	Software Engineering		
16	25-Apr	Review		Final
17	2-May	PROJECT PRESENTATIONS		Presentation

1/10/2006