

Spring 2004

MGT 120 – 10 Structured Development with CASE

Schedule: Tuesday 4:10 – 6:00 PM (Lecture) – GOV 108
Thursday 4:10 – 6:00 PM (Lab) – PHIL 306

Instructor:

Subhasish Dasgupta, Ph.D.

Office: MON 401 B

Office Hours:

Monday 4:30 pm – 5:30 pm (Off-campus:

GECA VA Square)

Tuesday 2:00 PM – 4:00 PM

And by appointment

Contact Information:

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Lab Instructor and Teaching Assistant:

Harman Ahuja

Email: hda@gwu.edu

Office Hours: To Be Announced

Course Description:

MGT 120 – Structured Development with CASE provides an overview of structured analysis, design and implementation of information systems using structured methodologies and techniques, and information engineering. Computer-Aided Software Engineering (CASE) tools are used to help analyze and design software systems.

Prerequisites:

Mgt 119, or permission of the instructor.

Course Objectives:

The objective of this course is to broaden a student's understanding of the software development process beyond the 'programming level'. Students should acquire skills in both the requirements analysis and design phases of the system development life cycle. Students should also become acquainted with CASE products.

Required Text:

Hoffer, Jeffrey A., George, Joey F., and Valacich, Joseph S., Modern Systems Analysis and Design, Addison Wesley, 2001, 3rd edition.

Software:

Microsoft Visio

Please note that Visio is available in the computer lab and use of the software is required. A copy of this software is bundled with the text.

Method Of Instruction:

The course will consist of two components: lectures and laboratories. The class will meet twice a week during the semester, one day for a lecture and the other for a lab. All lecture notes will be available on Blackboard. You are expected to attend all classes, and will be responsible for assignments due on days you do not attend class.

Grading:

The course grade will be a weighted average of lecture and laboratory assignments, a project, and two exams. The relative importance of the different components is given below.

Mid-term exam	30 %
Final exam	30 %
Project	25 %
Assignments	<u>15 %</u>
Total	100%

Exams:

There will be two exams in this course a midterm and a final. Format of these exams will be provided in class. Exams will be not be cumulative and cover material from both class lectures and textbook. There will be no make up exam, except for documented medical reasons.

Assignments:

Assignments will be of two types: homework and class. Homework assignments will be based on material covered in lectures, as well as the computer lab. Homework assignments are due at the start of class, hard (printed) copies or electronic submissions. Electronic copies should be submitted to my electronic drop box (mailbox) on Blackboard. These copies should be in Word format and checked for viruses before submission. Emails will not be accepted. Late assignments will be accepted as long as they are submitted electronically within 24 hours after the due date. If you are away and cannot attend class you may submit your assignment electronically.

Class assignments include work that should be completed in the assigned class time. Some of these assignments may require use of our CASE tool for the semester; the lab instructor for the course will give these assignments. In-class assignments may not be announced in advance. If you are absent on the day of a class assignment you will lose the entire assignment grade.

When assignments are returned, grades will be posted on Blackboard. Please check the Blackboard grade book to see whether these grades are correct. Questions regarding grading and grades posted should be addressed to the lab instructor or me within a week after the graded papers are returned.

Project:

The course will have one group project. The objective of the project will be to analyze an existing system and design a new system using tools and techniques learned in the course. All groups will work on the same problem. Details of the problem will be

provided in a separate handout. The project deliverables will include a project document and presentation. At the end of the semester you will have to complete a peer evaluation in which you will evaluate the contribution of each of your group members. Peer evaluation is required, and if you fail to evaluate your group members, you will lose your own evaluation grade. The project document will constitute 50% of the project grade, the presentation will be 30% and peer-evaluation will be 20% of the grade. If your group members provide a poor evaluation of your contribution to the project, all components of your project grade will be affected.

Note:

All examinations, papers, and other graded work products and assignments are to be completed in conformance with The George Washington University Code of Academic Integrity.

Tentative Schedule:

The schedule of lectures and assignments below is subject to change without notice. Updated information will be available on our Blackboard site. The Lab. instructor or I may provide assignment information in class or on Blackboard. No prior notice will be given for in-class assignments.

Session		Topic	Chapter(s)
Day	Date		
Tues.	1/13	Course Overview Syllabus, Evaluation Foundations of Systems Development	Chapters 1-3
Thurs.	1/15	No Lab	
Tues.	1/20	Foundations of Systems Development Making the Business Case Groups for the semester	Chapters 1-3
Thurs.	1/22	No Lab	
Tues.	1/27	Identifying and Selecting Systems Initiating and Planning Systems Development	Chapters 6
Thurs.	1/29	Lab: IS Project Management	
Tues.	2/3	Determining System Requirements	Chapter 7
Thurs.	2/5	Lab: Data Flow Diagram (DFD)	
Tues.	2/10	Structuring System Requirements: Process Modeling	Chapter 8
Thurs.	2/12	Lab: Data Flow Diagram (DFD)	
Tues.	2/17	Structuring Systems Requirements: Logic Modeling	Chapter 9
Thurs.	2/19	Lab. Logic Modeling	
Tues.	2/24	Selecting the Best Alternative Design Strategy	Chapter 11
Thurs.	2/26	Lab. Logic Modeling	

Tues.	3/2	Midterm Exam	Chapters 1-3, 5-9 All lecture notes and assignments
Thurs.	3/4	Lab. Project work	
Tues.	3/9	Designing Internals: Programs and Process Design	Chapter 15
Thurs.	3/11	Lab.: Structure Charts	
Tues.	3/16	Spring Break (No class)	
Thurs.	3/18	Spring Break (No class)	
Tues.	3/23	Designing Internals: Programs and Process Design	Chapter 15
Thurs.	3/25	Lab: Structure Charts	
Tues.	3/30	Designing Forms and Reports Designing Interfaces and Dialogues	Chapter 13, 14
Thurs.	4/1	Lab.: Nassi-Schneiderman Diagrams	
Tues.	4/6	Designing Distributed and Internet Systems Object-Oriented Analysis and Design	Chapter 16, 20
Thurs.	4/8	Lab. – Project Work	
Tues.	4/13	System Implementation and Maintenance	Chapters 17-18
Thurs.	4/15	Lab. – Project Work	
Tues.	4/20	Group Project Work Final Exam Review	
Thurs.	4/22	Lab. – Project Work	
Tues.	4/27	Project Presentations	
Final Exam Week		Final Exam	Chapters 13-20 All lecture notes and assignments

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