SYLLABUS

SYST 530 - Systems Management and Evaluation

Spring 2009

Professor:	Dr. Peggy Brouse		
Assignment Submission:	Blackboard usage is required in the class; instructions are below.		
Work Phone:	(703) 993-1502 (with voice mail)		
FAX:	(703) 993-1706		
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Office:	GMU: Science and Technology II - Room 317		
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Office Hours:	By appointment before class		
Course Description:	Provides the necessary techniques for evaluating the cost and operational effectiveness of system designs and systems management strategies. Performance measurement, work breakdown structures, cost estimating and quality management are discussed. Configuration management, standards, and case studies of systems from different applications areas are discussed.		
Course Hours:	Tuesday 4:30 to 7:10 pm; Innovation Hall 132 (Fairfax) and Two-way video to JD's Learning Center (Dahlgren)		
Text:	Project Management: A Systems Approach to Planning, Scheduling and Controlling, 9 th edition (2006); Harold Kerzner. John Wiley and Sons ISBN 13 978-0-471-74187-9		
Disabilities Statement:	If you are a student with a disability and you need academic accommodations, please see me and contact the Disability Resource Center (DRC) at 993-2474. All academic accommodations must be arranged through the DRC.		
Grades:	20% - group case studies		
	10% - individual case study write-ups		
	10% - initial paper and presentation		
	20% - final paper and presentation		
	20% - Exam 1		
	20% - Exam 2		

- Go to http://courses.gmu.edu
- Enter Blackboard ID and password: Students need a Blackboard ID and password to login. Their Blackboard ID is their Mason mail user name (e.g. the Blackboard ID for jdoe@gmu.edu would be jdoe). Logging into Blackboard will require the user to enter the same password required to access their Mason email account.
- If you do not know your Mason mail user name, go to http://mail.gmu.edu and click on "Activating My Account" icon, follow the steps.
- All assignments have due dates and submissions after the due date/time will not be possible, since Blackboard will automatically block "submit my homework" option.
- From time to time, Blackboard works too slowly. Especially from a dial-up internet connection, Blackboard access may not be so efficient all the time; students are encouraged to submit their work earlier than the deadline.
- If you experience any problem while accessing/using Blackboard, please send an e-mail to Dr. Brouse, pbrouse@gmu.edu

Group Case Studies

The Group Case Studies are the focal point of student group effort within this course. Groups will meet during class time, but individual preparation may be expected outside of the classroom. There will be groups of several people self-formed during the first meeting of the class. Each group will be expected to present the case study in some manner to engage the rest of the class (e.g. role playing, create a game regarding the case study, etc.) You will be expected to elicit participation from the remainder of the class. Materials used in the presentation should be submitted in Blackboard by ONE member of the group.

Individual Case Study Write-Up

You will be expected to write a 1 - 2 page synopsis of the case study as well as your opinion of the case study before the case study is presented. If your group is presenting the case study you will not be expected to submit an individual write-up for that case study. The case study homework will be due the day the case study is presented and will not be accepted late.

Paper

Each student will be required to write a paper on an area pertinent to this class (e.g. leadership, performance measurement, etc.). There will be two deliverables for this paper. The first deliverable will be a summary of the paper including an annotated outline for the paper. The final deliverable will be due near the end of the semester. The final deliverable must be at least 20 pages, 1 1/2 spacing, with at least three references. The paper will be graded based on the original contribution of the author. It will not be satisfactory to just document leadership styles, for example. The author would be expected to compare and contrast leadership styles and give an opinion on the subject.

Exams

Two exams: The midterm will be in-class and will cover the first part of the semester. The final will be in-class and will cover the second part of the semester.

Additional Resources – for Paper

Additional Sources: There is a wealth of quality literature available on the subject matter of this course. A few of my favorites are:

INCOSE Insight (informal and short, but educational articles)

INCOSE Systems Engineering Journal

Harvard Business Review (super for the leadership and management portion of the course)

PMI Project Management Journal

PMI PM Network

IEEE Transactions on Systems, Man and Cybernetics

IEEE Transactions on Engineering Management

IEEE Engineering Management Review

Note that there are three main bodies of knowledge that intersect in this course: systems engineering (INCOSE, IEEE), leadership and management (Harvard Business Review), and project management (PMI).

CLASS SCHEDULE

27 January	 Background; Introductions Form Groups Lecture: Kerzner Chapter 1 – Overview
3 February	 Professor at Dahlgren Lecture: Kerzner Chapter 2 - Project Management Growth: Concepts and Definitions Lecture: Kerzner Chapter 3 – Organizational Structures
10 February	 Lecture: Kerzner Chapter 4 - Organizing And Staffing The Project Office And Team Island Survival Game
17 February	 Group Presentation: Jones and Shepherd Accountants, page 134 led by Group 1 (Fairfax) Lecture: Kerzner Chapter 5 - Management Functions Theory X – Theory Y One-Page Test
24 February	 Professor at Dahlgren Group Presentation: The Trophy Project, page 259 led by Group 2 (Dahlgren) Lecture: Kerzner Chapter 6 - Time Management Lecture: Kerzner Chapter 7 - Conflicts
3 March	In class Exam Number 1
10 March	SPRING BREAK
17 March	 Paper: First deliverable due (in Blackboard) Individual presentation: 5 minute presentation on paper Homework: Myers-Briggs personality test at: http://www.humanmetrics.com/cgi-win/JTypes2.asp [Please submit 4 letter result in Blackboard by 17 March]
24 March	 Professor at Dahlgren Group Presentation: Telestar International (pg.306), led by Group 3 (Dahlgren) Lecture: Myers-Briggs personality test
31 March	 Group Presentation: Corwin Corporation, (pg. 387), led by Group 4 (Fairfax) Lecture: Kerzner Chapter 9 - The Variables For Success Lecture: Kerzner Chapter 10 - Working with Executives Lecture: Kerzner Chapter 11 - Planning
	3 February 10 February 17 February 24 February 3 March 10 March 17 March 24 March

Week 11>	7 April	 Lecture: Kerzner Chapter 12 - Network Scheduling Techniques Lecture: Kerzner Chapter 14 - Pricing and Estimating Lecture on Activity Based Costing
Week 12>	14 April	 Group Presentation: Crosby Manufacturing Corporation (pg. 520) led by Group 5 (Fairfax) Lecture: Kerzner Chapter 15 – Cost Control Lecture: Chapter 16 - Trade-off Analysis In A Project
		Environment Lecture: Chapter 17 – Risk Management
Week 13>	21 April	In class Exam Number 2
Week 14>	28 April	 Professor at Dahlgren Group Presentation: Teloxy Engineering (A) (pg. 775) led by Group 6 (Dahlgren) Individual presentations: 10 minute presentation on paper
Week 15>	5 May	 Paper: Final paper due (in Blackboard) Individual presentations: 10 minute presentation on paper