

Project Management

University of North Carolina at Greensboro
Bryan School of Business & Economics
Department of Information Systems & Operations Management

Course Web Site: <http://www.uncg.edu/bae/people/amoako/ISM654/ism654.htm>

Course Number: ISM/MBA 654.41
Monday, 6:00-9:30 p.m.
Classroom: Bryan 204

Course Name : Information Systems Project Management

Instructor: Dr. Kwasi Amoako-Gyampah

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Office Hours : 11:30 a.m.-12:30 p.m. Monday- Thursday;
4:45-5:45 Monday or by appointment

Required Materials: i. Information Technology Project Management by Kathy Schwalbe,
Course Technology, Boston, MA. ISBN 0-619-03528-5

ii. Downloads from Course Web site, BlackBoard and the Internet.

Optional Materials: None

Prerequisites: Admission to either MSITM or other approved graduate program

Course Description: Modern methods of defining, planning and managing large IT projects. Computer software and network modeling are used to support the efficient scheduling of interdependent activities.

INTRODUCTION & RELATIONSHIP TO OTHER COURSEWORK:

Project Management deals with seeking new methods of planning, organizing, and controlling

non-routine tasks. The management of a project differs in several ways from management of a typical enterprise. The goal of a project team is to accomplish its prescribed mission and then disband; though this is easier said than done. Project Management has been around for some time, though it has recently become more important because of the shifting emphasis on teams in accomplishing tasks. Some of the better known examples of tasks accomplished using project management techniques are:

- The construction of the Egyptian pyramids
- The Manhattan Project
- The Apollo space program
- Operation Free Iraq
- ERP implementations
- The Denver International Airport
- The Atlanta Olympics
- The Relocation of the old Chancellor's Residence at UNCG

This course covers some of the issues related to managing projects in organizations and students will be expected to draw on materials from other business courses.

GENERAL COURSE OBJECTIVES:

1. To understand the concepts of project planning and organization, budgeting and control, and project life cycles.
2. To learn concepts related to organizational workflow including the staffing process, project planning elements, and the project plan contents and project communications.
3. To master several basic project scheduling techniques including WBS, CPM, PERT, GANTT CHARTS, and resource constrained scheduling.
4. To understand the related concepts of organizational forms, conflict resolution, and issues related to leadership and task management in a project environment.
5. To improve written and oral communication skills through formal writing assignments and group discussions.
6. To become familiar with **Microsoft Project** in performing simple project management tasks

INSTRUCTIONAL METHODOLOGY:

The methods employed to achieve course objectives will include:

1. Class lectures highlighting critical course material
2. Textbook reading
3. Threaded discussions on the Web.
4. Cases selected to bring out important concepts and familiarity with tools
5. Some reading assignments from sources other than the textbook

PERFORMANCE EVALUATION & GRADING:

1. **Grades-** The course grade will be based on the following point distribution:

J Pace Construction Company	50
DU Singer Case analysis/Term Paper	100
Threaded Discussions	100
Final Exam	150
Total	400

Grade Assignment: A: 365-400, **A-:** 358-364; **B+:** 348-357; **B:** 328-347; **B-:** 316-327; **C:** 300-315

2. CLASS POLICIES

1. Attendance - You are responsible for all information and announcements that are made in class. Therefore you should attend class regularly. If you miss class contact someone or me as soon as possible for all relevant material.
2. Reading Assignments for each class are given on the syllabus. You are expected to complete the readings before coming to class.
3. Threaded Discussions: You will be expected to participate in threaded discussions through the web. Discussion questions based on material from each chapter will be assigned and you will be expected to respond to both the instructor's questions as well as responses from your colleagues. Threaded discussion questions will form part of the final exam questions (See section under Threaded Discussions below for details).

3. THEMES

The following themes will be emphasized in the course through the use of the cases and mini-cases.

Case	Theme
J Pace Construction Company	Risk analysis/Contingency planning
DU Singer	Managing resource requirements

Mini-cases (part of threaded discussions)	Theme
The communication problem	Managing project communications
The Bad Apple	Managing teams on projects
Project Cost Overrun	Cost overruns and lessons

TERM PAPER

Students who have experience with Microsoft Project will be offered the chance to do a short term paper. They will be given a published paper and will be required to use the contents of the paper as the basis of assessing the “state of project management readiness” within their organizations.

Students choosing this option (not a group assignment) will be asked to write a short paper relating to project management within their organizations. The paper should deal with a specific aspect of project management within the organization such as the state of project management maturity within the organization; an assessment of the mix (portfolio) of projects being undertaken or recently undertaken within the organization; and project justification and selection procedures within the organization. Students will be provided with published materials for each topic that they can use as starting points for their papers.

The paper would entail a brief review of the appropriate literature. The student will be expected to interview executives, project managers and other personnel within the organization. Any interviews or surveys should be well documented and referenced in the paper. Students should note that the focus of this paper is on assessment and that purely descriptive papers will result in low grades.

Feel free to discuss your term paper with me as it is being developed. The paper should be typed (maximum 12 point size lettering), and double-spaced on 8.5" by 11" paper. The paper should be between 12-14 pages in length. Do not add verbiage for the sake of length. Include diagrams, sketches, or other types of illustrations that will clarify your presentation. Citations should be appropriately referenced at the end of the paper, and pages, tables, and figures should be appropriately numbered. The term paper will be graded on organization, thoroughness, insightfulness of analysis/recommendations, and written communication skills. **A purely descriptive paper will earn a low grade. Papers should focus on analysis.** The term paper is to be submitted at the beginning of class on June 23, 2003. Late submissions will not be accepted. Each student/member of the group should attest to the statement that "I/WE HAVE ABIDED BY THE ACADEMIC HONOR POLICY ON THIS ASSIGNMENT" on a separate cover page of the term paper assignment.

THREADED DISCUSSIONS

Each student is required to participate in the threaded discussions. The goal of the threaded discussions is for us to learn from each other in an effective and efficient manner. Students are encouraged to

participate in all the web discussions. We will use BlackBoard for all web discussions and postings. In addition to the required postings, so as to earn part of the course grade as noted below, participation in the web discussions will help you prepare for the final exam. Three levels of participation are required.

1. Three (and sometimes more) discussion questions are listed for each scheduled class meeting. Each student is required to post a response to one of the listed questions. You will be assigned your questions on the first class night. The response should be posted, at the latest time, twenty-four hours before the next scheduled class meeting (except the ones assigned for the first class meeting). Since there are five scheduled meetings (the sixth meeting is the final exam) you will be expected to make FIVE such postings to fulfill this part of the assignment. Each posting should be a meaningful discussion of the original question and should be at least 2 paragraphs long. One sentence paragraphs do not count. You may draw on any references to provide justification for your posting. Each posting is worth 8 points. **See list of threaded discussion questions at the end of the syllabus.**
2. Each student will be assigned an article to read on a given topic. The articles are listed as suggested readings below. Each student is supposed to provide a two-page summary of the article. The summary should be posted on Blackboard. All summaries are to be completed before the second class meeting. In your posting, provide a summary of the main highlights of the article for about 1½ pages. In the last ½ page, discuss the important lessons, why you think some of the ideas in the article are applicable (or realistic), not applicable to either project management in general or to your organization. This assignment is worth 30 points.
3. The third level of discussion is for you to pose either a discussion question yourself, or provide a counter argument to a previous posting or provide some personal experiences with regard to a given posting or topic. You will be expected to make SIX of such postings to fulfill this part of the assignment. Each posting is worth 5 points. **For this part of the discussion you cannot contribute to a discussion if there are already 4 previous contributions to that particular discussion.**

Oral & Written Communications Content:

Oral and written communications for this course are addressed through the threaded discussions, cases, and class discussions as detailed above.

Technology Applications :

This is addressed through the application of Microsoft Project in helping to understand project scheduling and resource requirements. We will also be using the Internet for our threaded discussions and rely on e-mail for extensive communications. Students will be expected, whenever possible, to use appropriate information technology in the completion of assignments.

Ethical Perspectives:

Even though specific coverage of ethical issues will not be done in this class, students will be made aware of the importance of ethical considerations in making project management decisions, and in the completion of course requirements.

Global Perspectives:

Discussion of global issues is limited in this course

Demographic Diversity Perspectives:

This course will not specifically address this issue.

Political, Social, Legal,

Regulatory & Environmental Perspectives:

These will be discussed as they apply to the justification procedures for project selection and the general management of projects.

Academic Honesty:

All UNCG students are expected to conduct themselves with the highest standards of academic honesty. Academic misconduct, including cheating, forgery and plagiarism will not be tolerated. Students are required to pledge their assignments and examinations using the UNCG honor code.

TENTATIVE CLASS SCHEDULE:

Session #	Date	Topics and Assignments
1	5/19	A. Introduction -

Assignments - i. Be prepared to share with the rest of the class any roles, and responsibilities you have had in your organization as a project leader, team member etc.

- ii. Read Chapters 1, 2 & 5 of the Textbook.
- iii. You should have visited the course web site and previewed all the material for the course.
- iv. You should also have visited BlackBoard to view the Discussion Questions.

Study Guide: Identify answers to the following questions in your readings.

- i. What is a Project?
- ii. What makes projects different from day to day operations in organizations?
- iii. What is Project Management?
- iv. Why and when do organizations need to use Project Management?
- v. What is a project life cycle?
- vi. What are the major decisions over the project life cycle?

Review the PowerPoint slides titled **R-3 Migrations** to see an example of project life cycle activities.

B. *Project Scheduling*

Reading Assignments: i. Read Chapter 5

ii. Look through the Appendix on Microsoft Project

Study Guide

- i. What does Project Scheduling entail?
 - ii. How can Network Techniques - CPM and PERT be used to facilitate project scheduling?
 - iii. What is a Critical Path and what role does it play?
 - iv. What role do Gantt Charts play in project scheduling?
- B. Critical Path Analysis - Monitoring schedules
- i. Why is it necessary to sometimes crash projects
 - ii. What are the steps involved in project crashing
 - iii. Project crashing tradeoffs

****Review readings # 1, 2 and, 3 on the “list of readings”****

Session #	Date	Topics and Assignments
2	5/26	A. <i>Project Scheduling Contd.</i> B. <i>Project Selection & Project Risk Assessment</i> C. <i>Introduction to Microsoft Project (Class meets in the lab)</i>

A. PERT Scheduling

- i. How can you enhance project completion information
- ii. How do you determine project completion probabilities
- iii. How can you use activity duration variances in project mgt?

B. *The Nature of Project Selection, Justification & Risk Assessment*

- i. What factors are important in selecting projects?
- ii. What are the different types of models for selecting projects, why are they useful and what are their limitations?
- iii. *Why is project risk assessment in project management*
- iv. *What are the different approaches for assessing project risks?*

- Class meets in the LAB - Room 212 for the second half of the session. Please bring a diskette to class and also class notes from the previous session.

****Review readings # 4, 5, 6, 7, and 8.**

Session #	Date	Topics and Assignments
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3 6/2 *Project Resources, Project Manager, Project Team & Microsoft Project*

Reading Assignments: Chapters 8, 14 and Chapter 2 (pp. 41-43) of Textbook.
Read through Appendix A of Textbook

B. *Managing Project Resources*

- i. What is Resource Loading?
- ii. How do you manage variability in resource requirements and insufficient resources?

C. Project Manager & Project Team

- i. What are the roles and responsibilities of the project manager?
- ii. What are the skills and characteristics required for a successful project manager?
- iii. What types of problems does a project manager typically face and how do these problems arise?
- iv. Design a matrix of problems/challenges and skill requirements
- v. Who should be on a project team
- vi. How do you manage team members who do not report to you?
- vii. How do you manage project team meetings?

D. *Microsoft Project for Windows* - Class meets in the LAB - Room 212 for the second half of the session. Please bring a diskette to class and also class notes from the previous session
Review readings #9, 10, 11, 12, and 13.

<u>Session #</u>	<u>Date</u>	<u>Topics and Assignments</u>
4	6/9	Project Planning, Budgeting, Project Monitoring & Control

Assignments:

- A. Read Chapter 5 of textbook
Read Chapter 9 of textbook.

Study Guide:

- i. What is the purpose of project planning?
- ii. What are the main project planning activities?
- iii. What is a work breakdown structure, Can you develop one for a given project?
- iv. What are linear responsibility charts?
- v. Different ways of developing budgets - managerial issues
- vi. How do you link project schedules with budgets
- vii. Why should projects be monitored?
- viii. What should you look for when monitoring projects?
- ix. Monitoring schedules - do you need to crash project?
- x. What is an earned value chart? How is it useful?

Review readings # 14, 15, and 16

Session #	Date	Topics and Assignments
5	6/16	Project Communications; Conflict Management, & Project Termination

Assignments: Read Chapter 10 of textbook

Study Guide

- i. What should be the key goals and components of a communication plan for a project
- ii. What are the different types of conflict over the project life cycle?
- iii. For each stage what are the main types of conflicts and why do they occur?
- iv. How can you resolve these conflicts?
- v. What are the main reasons why projects are terminated?
- vi. How should you organize the project termination process
- vii. What types of lessons are worth learning at the conclusion of a project?

Review readings # 17, 18, 19, 20, 21, &22

****DU Singer Assignment Due****

**** Term Paper Due****

Session #	Date	Topics and Assignments
6	6/23	

Final Exam - The Final exam will be a closed book in-class examination. The exam will consist of short problems, short essays, and mini-cases. The content will be based on material drawn from our class lectures and handouts, textbook readings and cases, and the threaded discussions.

Threaded Discussion Questions

1. How is project management different from everyday management?
2. Why do you think so many IT and other projects are unsuccessful?
3. What do you think accounts for the differences in companies' abilities to manage projects?
4. What are the shortcomings of using financial measures to justify IT project selection and what suggestions can you offer to address these shortcomings?

5. Suppose you think your company should expedite the implementation of a project, IT or otherwise, but management prefers a slow, phased approach. What arguments will you use to win management to your side?
6. What is safety time with regard to project scheduling? Is safety time necessary for projects? What types of safety times are most appropriate?
7. What are the different ways that a manager can use slack or float times on a project?
8. What skills are needed by a project manager in order to be successful? Can these skills be learned or do you think some are innate?
9. What is scope creep? How does it occur and how can it be avoided?
10. What tools or mechanisms can a project manager use to motivate people on a project who do not report directly to him or her?
11. Some have argued that to be successful, a project should have the “right team members”. What criteria would you use to judge if a person is a “right team member”?
12. Although many studies recommend that personnel be assigned full time to projects, very few companies assign employees full time to projects? Why do you think this occurs?
13. Why is that sometimes adding more human resources to a project that is already late causes that project to become even further delayed? So, when is it more appropriate to add more human resources to a project?
14. Most managers agree that project planning is very critical to the achievement of project management goals and yet managers do not adequately pay much attention to project planning. Why do you think this happens and what measures should project sponsors put in place to ensure that project planning is given the attention it deserves.
15. Take a look at the “The Bad Apple” vignette and post your response to the web.
16. Take a look at “Project Cost Overrun” and post a response to the question asked.
17. The three main project management goals are on time, within budget and achieving performance specifications. Should a project manager give up some functionality (e.g. technical requirements) in order to meet schedule milestones? Is this particularly more appropriate or inappropriate for IT projects?
18. What are the merits and demerits of using various communication formats (e-mail, face-to-face meetings, intranets etc. in project communications)?
19. Choose any one of the vignettes listed under “The Communication Problem” and respond to the vignette.
20. A colleague argues that project meetings are a complete waste of time. Do you agree? If so why, if not why not? What should be the purpose of project meetings?
21. Why do you think scheduling issues cause the most conflicts on projects? What techniques would you suggest for addressing scheduling issues?