IE 411 Engineering Management, Three semester hours
Fall 2012,
TR 11:00AM-12:15 A.M./AG/IT 211

Instructor:
E. Delbert Horton, Ph.D., P.E.
Assistant Professor
Department Engineering & Technology

Contact Information:
Office Time: TWR 9:00 AM-4:30 PM
Office Number: AG/IT 219
Telephone: (903) 468-8122
Fax: (903) 886-5960
Email: DelbertHorton@tamuc.edu
“Appointment Recommended”

COURSE INFORMATION

COURSE TEXT

Project Management, the managerial process, Fourth Edition
Clifford F. Gray, Erik W. Larson
ISBN 978-0-07-352515
©2008

COURSE REFERENCE TEXT/MATERIALS

Project Management: A Systems Approach to Planning, Scheduling, and Controlling, 9th Edition
Harold Kerzner, Ph.D., Baldwin-Wallace College, Berea, Ohio
©2006
1040 pages

Engineering Management,
Robert E. Shannon
ISBN: 0-471-03408
Instructor will provide handouts and use selected-Websites as references

COURSE REQUIREMENTS

Techniques relating to managing engineering activities; engineer’s transition into management; engineering managerial functions; motivation of individual and group behavior; productivity assessment/improvement; managing the quality function and communications. This course will also teach the team approach to understand how the design, planning, implementation, tracking and close out of a project should be managed on an industrial-level project. The student must be senior classification or consent of faculty of record.

ASSESSMENT OF STUDENT OUTCOMES

Upon completion of this course, the student will be able to:
1. demonstrate the role of teaming in an industrial environment,
2. identify and use the tools of project management,
3. effectively use project reporting tools and techniques,
4. understand and appraise the changing business climate and how the changes have impacted project management
5. understand the importance of risk, cost, schedule and resource control and management of a project,
6. understand the need for effective project management skills, training and the specific training needs of project managers,
7. demonstrate an understanding of the role of Project Management vs. Functional Management,
8. write clear goal and objective statements and establish measurable criteria for project success,
9. verbalize and apply an understanding of the risk management process, and

COURSE EVALUATION

The final grade will be based on the following factors.

Examinations: Two examinations plus the final examination

Class Participation: Students are expected to participate in class presentations and any problem sessions. Each student will be expected to prepare presentations of assigned topics and to solve problems related to topics of the course and turn
these assignments in on time. Late submittals will be subject to a late grade penalty.

<table>
<thead>
<tr>
<th>Evaluation Factors:</th>
<th>Values</th>
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<tbody>
<tr>
<td>Examinations:</td>
<td>50%</td>
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<tr>
<td>Final Examination (cumulative):</td>
<td>30%</td>
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<tr>
<td>Class Participation:</td>
<td>20%</td>
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**Class Assignments:** The instructor will make regular class assignments during the daily class periods. It is expected that the student will do these assignments for the student’s benefit. This Class Participation component of the course grade will be derived from the instructor’s evaluation of reviewed assignments and class participation. These reviewed assignments will be assigned and evaluated by the instructor in the following manner and will account for 15% of the students course grade.

1. 5 percentage points of the course grade will be assessed as to the student’s consistent and timely submittal of each assignment. (Check )

2. 10 percentage points of the course grade will be assessed on the student’s aggregate score of four (4) or five (5) of these assignments. The instructor selectively chooses these 4 or 5 assignments for scoring. (Check minus, Check, Check plus)

Students are expected to participate in class presentations and any problem sessions. Each student will be expected to present if called on by the instructor their understanding of assigned topics and/or solutions to assigned problem to the class. Non participation in these exercises will be counted against the student’s Class Participation component of the course grade.

**Grading Scale:**
- A = 90-100%
- B = 80-89%
- C = 70-79%
- D = 60-69%
- Fail < 60%

**Note**

All handouts including syllabi, exams, and topic presentation materials are copyrighted. The instructor will keep all exam questions and presentation materials. The student will be allowed to keep their examination submittals. If you desire to make a copy of your presentations, please make it before submitting the presentation materials.

**Examinations:** Each of the three examinations will be given in class. The Final Exam is comprehensive. No make-up examinations will be given. If a student misses one of the first two examinations, then that missed examination will be assigned 85% of that student's Final Exam grade, regardless of the reason(s) for missing the examination. An examination grade equal to "0" because of a
violation of the student expectations or academic dishonesty policy stated earlier counts as a missed examination, but the grade cannot be replaced. Upon missing the second of the first three examinations, students will be assigned a final grade of "F" for the course and will not be allowed to attend any more class meetings, regardless of the reason(s) for missing the examination. If a student misses the Final Exam, then that student will be assigned a final grade of "F" for the course, regardless of the reason(s) for missing the Final Exam. A Final Exam grade equal to "0" because of a violation of the student expectations or academic dishonesty policy stated earlier counts as a missed Final Exam. Students are required to use 8.5"×11" sheets of green engineering paper handwritten front and back. Any graphical requirements will be done on the green engineering paper. Students will need a scientific calculator for each test; unless the instructor states otherwise, it is the only computing or electronic storage device allowed during tests.

**Assignments:** Working and understanding all assignments is essential to succeeding in this course. Any information provided in or learned from working an assignment is fair game to be asked on an examination. If students are not entirely comfortable with a particular concept in an assignment, then they should work additional problems from the text. Assignment solutions (if available) are provided by the publisher of the course text. The instructor had nothing to do with their creation. Therefore, the instructor is not responsible for any errors in them. Additionally, when the instructor works a problem in class that is similar to a homework problem and the instructor's solution is more comprehensive than that provided in the homework solutions, then the instructor's solution is the one the students should follow and the one upon which the students will be graded.

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**COURSE AND UNIVERSITY PROCEDURES/POLICIES**

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**CONDUCT IN CLASSROOM**

All students enrolled at the university shall follow the tenets of common decency and acceptable behavior conducive to a positive learning environment. Attendance will be kept and evaluated as part of class participation. The no sounding of cell phones and using a cell phone or text messaging is prohibited in class. No tobacco products, food and drinks are allowed in the classroom. Each student will be expected to sign and turn in the TAMU-Commerce CSEA Academic Honesty Policy.

**STUDENT EXPECTATIONS:**

- Students are expected to attend all class periods. Students who do not attend class regularly may find this course to be more challenging than it should be. Students
missing more than four class meetings will be assigned a final grade of "F" for the course and will not be allowed to attend any more class meetings, regardless of the reason(s) for the absences. Students are considered absent from a class meeting if they miss any portion of class time. Class time begins when the instructor arrives, but no earlier than the scheduled start of class time. Class time ends when the instructor dismisses class, but no later than the scheduled end of class time.

- Students are expected to make a legitimate attempt to pass the course, as judged by the instructor. Students who do not make a legitimate attempt to pass the course will be assigned a final grade of "F" for the course and will not be allowed to attend any more class meetings.

Any violations of the following student expectations, as judged by the instructor, will result in letter grade reductions to course work grades and/or to the final course grade of the offending student.

- Students are expected to have complete knowledge of and to be fully compliant with the Code of Student Conduct in the current Student Guidebook at http://www.tamuccommerce.edu/studentlife/guidebook.htm

- Students are expected to be fully prepared for each class before it meets.

- Students are expected to refrain from any disruptive behaviors during class. This includes (but is not limited to) not being in their seat at the scheduled start time of class; packing up and leaving class before it is dismissed by the instructor; talking or making other noises while the instructor is presenting material or a student is asking a question; sleeping; doing work for another course; reading newspapers, magazines, or other non-course materials; and using a computer at times and for purposes other than those designated by the instructor.

- Students are expected to have cell phones (NO TEXTING), music devices, and pagers turned off during class.

**ACADEMIC DISHONESTY**

Efforts made by any student to achieve dishonestly will not be tolerated. Course work that students submit to the instructor is to be their own. Students may discuss course work and other course material with the instructor and/or fellow students (except during tests), but it is inappropriate to have another student do their course work or provide them with any portion of it. If the instructor determines a student has achieved dishonestly on course work, then that student will be assigned a grade of "0" for that entire course work. If the instructor determines a student has committed a second act of academic dishonesty, then that student will be assigned a final grade of "F" for the course and will not be allowed to attend any more class meetings.

**UNIVERSITY SPECIFIC PROCEDURES:**

**ADA Statement**

The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you have a disability requiring an accommodation, please contact:
COURSE OUTLINE / CALENDAR

COURSE OUTLINE AND SCHEDULE

WEEK 1: INTRODUCTION TO PROJECT MANAGEMENT

WEEK 2: ORGANIZATION STRATEGY AND PROJECT SELECTION

WEEK 3: ORGANIZATION STRUCTURE AND CULTURE

WEEK 4: DEFINING THE PROJECT

WEEK 5: CONTINUE DEFINING THE PROJECT

WEEK 6: ESTIMATE PROJECT TIME AND COSTS, CHAPTER 5

WEEK 7: DEVELOPING A PROJECT PLAN, CHAPTER 6

WEEK 8: CONTINUE CHAPTER 6

WEEK 9: MANAGING RISK CHAPTER 7

WEEK 10: SCHEDULING RESOURCES AND COSTS CHAPTER 8

WEEK 11: CONTINUE CHAPTER 8

WEEK 12: PROGRESS AND PERFORMANCE MEASUREMENT AND EVALUATION

EXAMINATION SCHEDULE:

Exam #1, October 4, 2012, Chapters 1 thru 4.0

Exam #2, November 20, 2012, Chapters 5.0 thru 7.0

Final Exam, December 13, 2012, Comprehensive plus Chapter 8.
SYLLABUS CHANGES: The instructor has made every effort to provide the students with an accurate syllabus. However, situations may arise during the semester resulting in changes in the information provided in this syllabus. If this occurs, the changes will be announced in class. If students miss a class, it is their responsibility to find out if any changes have been made.

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