TMGT 352 – Principles of Cost Engineering
COURSE SYLLABUS: Spring 2015

Instructor: Dr. Mohammed AlMansouri
Assistant Professor
Department of Engineering and Technology

Office Location: 213
Office Hours: (Tuesday & Thursday) 9:00am - Noon
Office Phone: 903-886-5474
Office Fax: 903-468-6010 (Inform instructor when fax is sent)
University Email Address: Mohammed.Almansouri@tamuc.edu

COURSE INFORMATION

Classroom: Online instructional site: eCollege

Course Text:
Skills & Knowledge of Cost Engineering, 5th Edition Revised
Edited by Dr. Scott J. Amos, PE
AACE International (Association for the Advancement of Cost Engineering)
1256 Suncrest Towne Centre Dr. Morgantown, WV 26505-1876 USA
ISBN: 978-1466412552
2012 printing by CreateSpace

Course Description:
Cost engineering is concerned with the application of scientific principles and techniques to problems of cost estimating, cost control, business planning and management science, profitability analysis, project management, and planning and scheduling. Pre-requisite: ACCT 221

Student Learning Outcomes:
Upon Satisfactory completion of the course, students should be able to understand and apply several major areas of knowledge and skills in Cost Engineering (AACE International’s Recommended Practice NO. 11R-88):

1. Element of Cost (Section 1)
2. Element of Analysis (Section 6 and 7)
3. Enabling Knowledge (Section 5)
4. Planning (section 2, 3, 5, and 7)
5. Plan Implementation (section 4)
6. Performance Measurement (section 4)
7. Performance Assessment (section 4)
COURSE REQUIREMENTS

Instructional / Methods / Activities Assessments
This is an online course which contains facilitated lectures and a series of assignments and assessments to assist students in achieving the course learning outcomes. Each week, students are required to complete the Activities and Assignments, including readings, quizzes, discussions, homework, and exams. A total of 1000 points can be earned in this course.

1. The course is expected to take a minimum of 96 hours or more to complete online. A minimum of six hours per week of effort will be required. The time that it takes to complete this course includes study of the textbook, internet and alternative reference research, eCollege activities and instruction, and completion of all assignments, quizzes, and exams.

2. The mid-term exam will cover the textbook Chapters 1-15. The final exam is comprehensive, which cover textbook Chapters 1-31. The mid-term and final exams will be multiple choice.

3. In addition to the reading assignments, quizzes, discussions, or homework will be given throughout the semester to assess the material/topics covered in associated course readings and/or course activities.

4. A grade of “0” will be assigned to late assignments, unless prior arrangements are worked out with the instructor. The instructor has the final decision on whether late work will be accepted. Late penalties will be assessed to any approved late work.

GRADING

The final course grade will be calculated based on the following:

Quizzes 150 points
Discussions/Homework 150 points
Application Paper 150 points
Mid-Term Exam 250 points
Final Exam 300 points
Total Points possible 1000 points

Grading Scale:
A = 900-1000 points
B = 800-899 points
C = 700-799 points
D = 600-699 points
F = < 600 points
TECHNOLOGY REQUIREMENTS

The following technology is recommended to be successful in this online course:

- Internet Access / Connection - high speed recommended (not dial-up) - to be able to connect conveniently and regularly.
- Microsoft Word - Files placed in the assigned dropboxes in eCollege should be saved as .doc, .docx or .rft files. Many students do not fully utilize the power within this document processing software. It can assist the user when they know how to use more of the functions. Even the use of the spelling and grammar checkers, page and section breaks, or the use of APA templates.

ACCESS AND NAVIGATION

This course will be facilitated using eCollege, the Learning Management System used by Texas A&M University-Commerce.

- To begin the course, go to https://leo.tamuc.edu/. You will need your Campus Wide Identification Number (CWID) to log into the course.
- If you have questions and/or problems, please contact Technology Services at 903-468-6000 or helpdesk@tamuc.edu.
- eCollege HelpDesk is available 24 hours a day, seven days a week. You may contact the eCollege Helpdesk at 1-866-656-5511 or helpdesk@online.tamuc.org or through the Online Chat by clicking on the “Live Support” tab within your eCollege course.

COMMUNICATION AND SUPPORT

Interaction with Instructor Statement
The communication tools used in this course will be Email and eCollege Announcements. Students should communicate with the instructor through the course email tool or directly to the email address provided in this syllabus. The instructor will communicate with students via email through their myLeo email address. Students can expect to receive a response to emails within 48 hours after the email was sent to the instructor. In most cases, the response time will be shorter. Announcements will be posted in the course as needed to keep students informed of changes in schedule or points of clarification for the course. Students should check the announcements each time you enter the course.

Virtual Office and Student Lounge
A virtual office and student lounge discussion forums are open for students to post questions related to the course. You are encouraged to post your questions there prior to contacting the instructor by other methods. Include a
subject line which cues the reader in to the nature of your question. If
students have a similar question, the subject line prompts the readers that
someone else already asked a similar question. The instructor will attempt to
check the virtual office within 48 hours of any posting. Feel free to use the
student lounge. Open discussions, sharing of ideas, answering each other’s
questions is highly encouraged.

Technical Support
If at any time you experience technical problems (e.g., you can’t log in to the
course, you can’t see certain material, etc), please contact the eCollege
HelpDesk available 24 hours a day, seven days a week. You may contact the
eCollege Helpdesk at 1-866-656-5511 or helpdesk@online.tamuc.org or
through the Online Chat by clicking on the “Live Support” tab within your
eCollege course.

COURSE AND UNIVERSITY
PROCEDURES/POLICIES

Course Specific Procedures

Academic Dishonesty
Texas A&M University-Commerce will not allow plagiarism in any form. The
students’ course works should be their own. Plagiarism represents disregard
for academic standards and is strictly against University policy. If you have a
question regarding academic dishonesty and integrity, please talk to the
instructor or refer to the Code of Student Conduct from Student Guide
Handbook.

University Specific Procedures

Students with Disabilities
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:

Office of Student Disability Resources and Services
Texas A&M University-Commerce
Gee Library- Room 132
Phone (903) 886-5150 or (903) 886-5835
Fax (903) 468-8148
StudentDisabilityServices@tamuc.edu
Student Conduct
All students enrolled at the University shall follow the tenets of common decency and acceptable behavior conducive to a positive learning environment. (See Code of Student Conduct from Student Guide Handbook). Students should also consult the Rules of Netiquette for more information regarding how to interact with students in an online forum: http://www.albion.com/netiquette/corerules.html

Texas A&M University-Commerce will comply in the classroom, and in online courses, with all federal and state laws prohibiting discrimination and related retaliation on the basis of race, color, religion, sex, national origin, disability, age, genetic information or veteran status. Further, an environment free from discrimination on the basis of sexual orientation, gender identity, or gender expression will be maintained.
<table>
<thead>
<tr>
<th>WEEK</th>
<th>DATES</th>
<th>TOPICS</th>
<th>Reading</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>First day of class</td>
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</tr>
<tr>
<td>Week 1</td>
<td>1/20-1/25</td>
<td>- Course Introduction</td>
<td>Course Syllabus</td>
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<td>- Navigate the Online Course</td>
<td>eCollege Student</td>
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<td>- Introduction</td>
<td>Orientation Tutorial</td>
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<tr>
<td>Week 2</td>
<td>1/26-2/1</td>
<td>1. Basic Engineering Economics</td>
<td>Chapters 27-28</td>
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<td>2. Applied Engineering Economics</td>
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<td>Week 3</td>
<td>2/2-2/8</td>
<td>3. Cost Elements</td>
<td>Chapters 1-3</td>
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<td>4. Pricing</td>
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<td>5. Materials</td>
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<td>Week 4</td>
<td>2/9-2/15</td>
<td>6. Labor</td>
<td>Chapters 4-6</td>
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<td>7. Engineering</td>
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<td>8. Equipment, Parts, and Tools</td>
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<td>Week 5</td>
<td>2/16-2/22</td>
<td>9. Economic Costs</td>
<td>Chapters 7-8</td>
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<td>10. Activity-Based Cost Management</td>
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<td>Week 6</td>
<td>2/23-3/1</td>
<td>11. Estimating</td>
<td>Chapters 9-10</td>
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<td>12. Process Product Manufacturing</td>
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<td>Section 3- Planning and Scheduling</td>
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<td>14. Planning</td>
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<td>15. Scheduling</td>
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<td>Week 8</td>
<td>3/9-3/15</td>
<td><strong>Mid-Term Exam</strong></td>
<td><strong>Chapters 27-28, 1-13</strong></td>
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<td>Mar 16-22</td>
<td><strong>Spring Break - No classes</strong></td>
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<td>Week 9</td>
<td>3/23-3/29</td>
<td>Section 4- Progress and Cost Control</td>
<td>Chapter 14-15</td>
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<td>16. Progress Measurement and Earned Values</td>
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<td>17. Earned Value for Variable Budgets</td>
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<td>Week 10</td>
<td>3/30-4/5</td>
<td>18. Tracking Cost and Schedule Performance</td>
<td>Chapters 16-17</td>
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<td>19. Performance and Productivity Management</td>
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<td>Week 11</td>
<td>4/6-4/12</td>
<td>Section 5 - Project Management</td>
<td>Chapter 18-20</td>
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<td>20. Project Management Fundamentals</td>
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<td>21. Project Organization Structure</td>
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<td>22. Project Planning</td>
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<td>Week 12</td>
<td>4/13-4/19</td>
<td>23. Project Labor Cost Control</td>
<td>Chapters 21-22</td>
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<td>24. Leadership and Management of Project people</td>
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<td>26. Value Analysis</td>
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<td>28. Strategic Asset Management</td>
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<td>Week 15</td>
<td>5/4-5/10</td>
<td>Section 7 - Statistics, Probability &amp; Risk</td>
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<td>29. Statistics &amp; Probability</td>
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<td>30. Basic Concepts in De</td>
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<td>5/11-5/15</td>
<td><strong>Final Exam</strong></td>
<td><strong>Chapters 14-26, 29-31</strong></td>
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