COURSE INFORMATION FORM

DISCIPLINE  Engineering
COURSE TITLE  Introduction to the Engineering Profession

CR.HR  1  LECT HR  1  LAB HR  0  CLIN/INTERN HR.  0  CLOCK HR.  0

CATALOG DESCRIPTION
Information relative to fields of engineering, necessary preparations for college success and working conditions.

PREREQUISITES
None

EXPECTED STUDENT OUTCOMES IN THE COURSE (ESO)
Upon completion of this course, the student will be able to:

1. Identify college resources necessary for student success.
2. Identify student rights and responsibilities within the college environment.
3. Identify factors and apply strategies that affect academic success on the college level.
4. Design an educational plan to meet academic and career goals.
5. Demonstrate conduct appropriate in a college and/or professional setting.
6. Explain the role of diversity in college settings.
7. Describe the work requirements and environment of professional engineers.
8. Contrast the various disciplines of engineering.
9. Summarize the ethical responsibilities of practicing engineers.
10. Discuss contemporary issues in engineering.

GENERAL EDUCATION OUTCOMES (ESO)
Specify which general education outcomes, if any, are substantially addressed by the course. Numbers in parentheses identify the Expected Student Outcomes linked to the specific General Education Outcome.

<table>
<thead>
<tr>
<th>Outcomes</th>
<th>ESO</th>
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Revised 10/30/12
PROGRAM-LEVEL OUTCOMES

CAREER AND TECHNICAL EDUCATION PROGRAM OUTCOMES
Specify which Career and Technical program outcomes, if any, are substantially addressed by the course by completing the “Career and Technical Education template” to show the relationship between course and program outcomes to assessment measures.

1.

CLASS-LEVEL ASSESSMENT MEASURES
Student accomplishment of expected student outcomes may be assessed using the following measures. (Identify which measures are used to assess which outcomes.)

1. Attendance and class participation (5)
2. Bi-weekly summaries of guest engineers’ presentation (1-10)
3. Multiple choice quizzes (1-3,7-9)
4. Online discussion (6, 8, 9, 10)
5. Career Research paper (4, 7, 8, 10)
COURSE OUTLINE FORM

DISCIPLINE: Engineering

COURSE TITLE: Introduction to the Engineering Profession

Individual instructors may order this outline as fits the needs of their individual courses. In addition, they may place more emphasis on some areas than on others. What is assured is that this particular list is covered in the course. Other topics may be added to a course as the instructor sees fit, and as time and interest allow. An *asterisk can be used to mark an item as optional.

I. Keys for Success in Engineering Study starting at MCC
   A. E-College
      1. MyMCCKC
      2. Blackboard
      3. E-mail
      4. Online databases
      5. Subject guides
   B. Campus services and resources
      1. Student development resources
         (a) Advising
         (b) Counseling
         (c) Employment/job services
         (d) ACCESS services
         (e) Campus Life and Leadership services
      2. Academic/learning resources
         (a) Library
         (b) Media lab
         (c) Computer labs
         (d) Academic/learning resources centers
      3. Financial aid services
         (a) Satisfactory academic progress
         (b) Grants
         (c) Scholarships
         (d) Loans
   C. Time management

II. Overview of the Engineering Profession
   A. Career exploration
      1. Tools
      2. Techniques
      3. Assessments
   B. Presentation by working engineer
   C. Technical Writing
   D. Information literacy

III. Understanding the Teaching-Learning Process
   A. Student handbook
      1. E-mail
      2. Grievance procedure
      3. Privacy
      4. Public safety
      5. Sexual harassment
      6. Student responsibilities
      7. Student code of conduct
   B. Catalog and schedule
   C. College expectations
      1. Communication with college personnel
      2. College classroom and campus etiquette

IV. Making the Most of How you are Taught

Revised 10/30/12
A. General study skills and habits
B. Critical thinking
C. Learning preferences
D. Math and science study skills

V. Making the Learning Process work for You
A. Test preparation
B. Engineering Classes
C. Graduate School

VI. Personal Growth and Development
A. Stress management
B. Relationship management
C. Financial literacy
   1. Budgeting
   2. Credit cards
   3. Loan debt

VII. Broadening your Education and Goal Setting
A. Academic goals
   1. Degree and/or certificate
   2. Academic plan
B. Career goals
C. Personal goals

VIII. Engineering Ethics and Diversity
A. Civility
   1. Emotional intelligence
   2. Self-awareness
   3. Respect
   4. Interdependence
B. Diversity
   1. Appreciation versus tolerance
   2. Privilege