1. Course number and name
   **EGN 1004L First-Year Engineering Laboratory**

2. Credits and contact hours
   1 cr, 2 contact hours (2 hrs. lecture)

3. Instructor’s or course coordinator’s name
   Instructor: Dr. Melodee Moore

4. Text book, title, author, and year
   Engineering Your Future, A Comprehensive Introduction to Engineering, Oakes and Leone, 2014
   a. References, Additional Resources:
      • College of Engineering Undergraduate Student Handbook

5. Specific course information
   a. brief description of the content of the course (catalog description)
      An introduction and overview of the study and practice of the following engineering disciplines: chemical, civil, computer, electrical, industrial, and mechanical. An examination of student success strategies including time management, study skills, learning styles, and test taking strategies. A review of pre-engineering program requirements.
   b. prerequisites or co-requisites
      No course prerequisites, but must be interested in pursuing an engineering degree
   c. indicate whether a required, elective, or selected elective course in the program
      Required for FTIC. Elective for transfer students who have completed all pre-engineering program requirements except this course.

6. Specific goals for the course
   a. Course Outcomes.
      1. Define engineering (as formally defined by ABET).
      2. Understand and apply pre-engineering program requirements
      3. Identify activities common to all engineering disciplines.
      4. Specify and define the (conventional) engineering disciplines.
      5. Identify activities specific to individual disciplines (technical areas).
      6. Identify and use strategies for success specific to engineering students.
      7. Use engineering codes of ethics to evaluate possible engineering or professional conflicts.
      8. Identify and use strategies for effective financial management.
      9. Function as an active team member.
      10. Present and solve an engineering (or analytical) problem with an appropriate method and in an appropriate format.
   b. Course Objectives and Relation to Student Outcomes.
      No student outcomes are assessed in this course

7. Brief list of topics to be covered
   • Overview of the engineering majors offered at the College of Engineering.
   • Overview of pre-engineering program requirements.
   • Student Success Skills
     o Time management
     o Learning styles
     o Working with engineering professors
- Teamwork through class projects.
- Student ethics
- Presentation skills