Course Prefix and Number: ENGR 100   **Credit Hours:** 3-3-0

Course Title: Engineering Fundamentals

Course Prerequisite: None

Course Co-requisite: MATH 250

Textbook: Moaveni, Saeed. <u>Engineering Fundamentals: An Introduction to Engineering</u>, 5th edition, Course Technology. ISBN: 9781305084766

Course Description: A foundation course that outlines the basic principles of engineering, emphasizes problem solving, and computer applications.

Learning Outcomes:
At the end of this course, the student will:
- A. recognize the nature of engineers and the engineering profession;
- B. demonstrate skills in setting up and solving problems;
- C. demonstrate research or/and design skills in an engineering related topic; and
- D. demonstrate ability to organize and communicate technical and non-technical information orally.

To achieve the learning outcomes, the student will or will be able to:
(The letter designations at the end of each statement refer to the learning outcome(s).)
1. describe the major requirements for a successful career in engineering; (A, B, C, D)
2. apply knowledge of mathematics, science, and engineering to analyze and solve problems; (A, B, C, D)
3. analyze and interpret data for science and engineering applications; (A, B, C, D) and
4. design, organize, give, and evaluate oral communications. (A, B, C, D)

Course Requirements: (*in addition to requirements for face-to-face courses, additional requirements for online and/or hybrid courses should be included, if applicable*)
1. Complete assigned homework and in-class exercises in problem solving and analysis.
2. Complete three exams.
3. Complete a peer-reviewed oral presentation within time limits and design criteria.

Course Grading Scale:
90 – 100 = A
80 – 89 = B
70 – 79 = C
60 – 69 = D
0 – 59 = F

Attendance Policy: The college attendance policy is available at
http://www.bpcc.edu/catalog/current/academicpolicies.html

Course Fees: N/A

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