

Bossier Parish Community College
Master Syllabus

Course Prefix and Number: ENGR 280

Credit Hours: 3-3-0

Course Title: Introduction to Engineering Drawings and CAD

Course Prerequisites: Permission of Instructor

Textbook: None

Course Description: Introduction to Engineering Drawings and CAD is an engineering elective that provides students with knowledge of reading, interpreting all engineering drawings, design procedures, basic technical drawing skills, and the ability to prepare the engineering drawings using computer aided drafting (CAD) software. It provides students with many opportunities related to design and technical drawing skills, and teach students how to communicate design ideas using a CAD software and drawings.

Learning Outcomes:

At the end of this course, the student will or will be able to:

- A. understand the engineering design process;
- B. demonstrate ability to read all engineering blueprints including structural, HVAC, plumbing, mechanical, electrical and architectural drawings;
- C. how to draw multiview;
- D. how to communicate design ideas using a CAD software;
- E. how to apply engineering principles to various engineering problems; and
- F. become aware of the career opportunities related to design and technical drawing skills.

Course Requirements: Log and evaluation binder and materials as required by instructor.

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

Nondiscrimination Statement: Bossier Parish Community College does not discriminate on the basis of race, color, national origin, gender, age, religion, qualified disability, marital status, veteran's status, or sexual orientation in admission to its programs, services, or activities, in access to them, in treatment of individuals, or in any aspect of its operations. Bossier Parish Community College does not discriminate in its hiring or employment practices.

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