

ENGR 100 : INTRODUCTION TO ENGINEERING I

Transcript title

Intro to Engineering I

Credits

3

Grading mode

Standard letter grades

Total contact hours

50

Lecture hours

20

Lab hours

30

Prerequisites

MTH 111 or higher or minimum placement into Math Level 20.

Course Description

Explores the spectrum of engineering programs along with professional and academic expectations. Builds basic team skills in a problem solving environment. Identifies significant academic tools and resources to advance critical thinking skills. Analyzes and fabricates possible solutions to engineering challenges.

Course learning outcomes

1. Assess an engineering program based on professional field activities and related engineering disciplines.
2. Evaluate the utility of disciplinary resources.
3. Apply professional codes of conduct and ethical practices in the field.
4. Model inclusive and socially just teamwork skills.
5. Design and fabricate a solution to a discipline-related problem.
6. Employ best practices for communicating technical concepts.

Content outline

Engineering Programs Professional Expectations Engineering Resources Teamwork Skills Communication Skills Problem-Solving Skills Practice Engineering Problems Practice Teamwork Skills Practice Communication Skills

Required materials

Students will need calculators, access to the network, and access to suitable computer resources for software and other tools necessary for the projects in this course. The purchase of hardware for any project will be required.