

Inver Hills Community College

ENGR 1000: Orientation to Engineering

A. COURSE DESCRIPTION

Credits: 1

Lecture Hours/Week: 1

Lab Hours/Week: 0

OJT Hours/Week: *.*

Prerequisites: None

Corequisites: None

MnTC Goals: None

Introduces students to engineering majors, engineering functions, aptitudes and skills students need, engineering ethics, the Inver Hills A.S Engineering Fundamentals program, and programs at transfer institutions. Provides an interactive environment for students to identify their motivation and opportunities for personal growth, engage in academic and career decision-making, and explore and utilize campus resources and services. Recommended for any student considering engineering or wanting to explore engineering as a career choice.

B. COURSE EFFECTIVE DATES: 08/10/2015 - Present

C. OUTLINE OF MAJOR CONTENT AREAS

1. Engineering Majors and Functions (31.25%)
2. IHCC Engineering Fundamentals Program (6.25%)
3. Engineering Programs at regional Universities (12.5%)
4. Utilize campus resources (12.5%)
5. Essential Skills for Academic and Professional Success (31.25%)
6. Ethics in Engineering Profession (12.5%)

D. LEARNING OUTCOMES (General)

1. a) Develop an understanding of engineering function, and explore different engineering majors.
b) Engage in self-reflection/critical thinking to identify personal values and to set appropriate goals for success.
c) Evaluate current time allocation and develop a plan to manage time in a manner that fosters timely goal completion and student success.
d) Identify academic options and ultimately articulate realistic academic goals. Identify relevant curricula from four-year engineering schools, as well as Inver Hills courses that transfer to those programs. Create an academic plan.
2. e) Describe the fundamental tenets of engineering ethics.
f) Identify and utilize appropriate campus resources, which may include academic, career, student life, financial, and technology resources.

E. Minnesota Transfer Curriculum Goal Area(s) and Competencies

None

F. LEARNER OUTCOMES ASSESSMENT

As noted on course syllabus

G. SPECIAL INFORMATION

None noted