Curricular Designation: Required

Catalog Description: Introduces chemical engineering as a profession using the theme of industrial chemical production. Covered concepts include process flow diagrams, unit operations, green engineering, and career opportunities. Guest speakers from industry will provide their perspectives on working as a chemical engineer.

Credits: 1.0 Lec-Rec-Lab (1-0-0), Semester Offered: Fall

Prerequisites by Topic: None

Textbooks(s) and/or Other Required Materials: None

Course Objectives: This 1-credit course is intended to teach interested students about the chemical engineering profession. It is required for chemical engineering students and elective for others. The course has a fourfold purpose:

1. To connect early with declared first-year majors who currently do not experience chemical engineering until later in the curriculum;
2. To help undeclared majors discover whether chemical engineering interests them;
3. To teach students in other disciplines what chemical engineers do;
4. To cooperate with Engineering Fundamentals to help engineering students find the right career path.

Topics Covered: Successful students will learn the following:
- Career opportunities for chemical engineers
- Professional ethics involved in becoming a chemical engineer
- A disciplined approach to solving engineering problems to be used in future classes and in your career
- Basic types of equipment and chemical processes
- Oral and written communications skills
- How to be an effective, contributing member of a team

Class/Laboratory Schedule:
(Note: 1 hour = 50 minutes): Lecture: 13 hours = 1 hour/week for 14 weeks

Contribution of Course to Curriculum: Engineering