

## Engineering (ENGR)

### **ENGR 1000 Introduction to Engineering Technology**

**2 Credits**

*Prerequisite: A grade of SC or better in MATH 0850 or placement into MATH 0950 or MATH 1400.*

This course introduces students to various fields of engineering technology. Students will learn and apply problem-solving methods while performing laboratory experiments related to engineering technology. Students will use word processing and spreadsheet applications to create laboratory reports and technical papers. Students will also use library resources and the Internet to complete assignments and will gain an introduction to quality concepts and ethics relating to engineering.  
(4 contact hours: 1 lecture, 3 lab)

### **ENGR 2750 Engineering Technology Capstone Course**

**4 Credits**

This capstone course integrates prior learning in mechanical, electrical, civil and construction product design, and manufacturing. Students will utilize their skills in a team environment to design, analyze, manufacture, and evaluate one or more functional products. Communication soft skills with project management and time management will be emphasized. The capstone course will include market research, cost analysis, and budget requirements.  
(4 contact hours: 1 lecture, 3 lab)

### **ENGR 2800 Engineering Co-Op Experience**

**1-3 Credits**

*Prerequisite: ENGR 1000, MATH 1400, MATH 1649 or MATH 1650, minimum 2.5 GPA, approval of experiential education coordinator.*

Co-op experience is a planned, paid, work activity which relates to students' specialized occupational objectives and which students take in lieu of elective or required courses in their program with the permission of a faculty advisor. Students may repeat this course until they accumulate 9 credits. NOTE: Students may apply a maximum of 9 credits in cooperative work experience, or in any combination of cooperative work experience, field experience, and/or practicum to an associate degree program.