

# GENERAL ENGINEERING (GNEN)

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## **GNEN 101 Tools for Engineering (3 Units)**

Corequisite: MATH 221. Introduction to engineering. Free hand, engineering, and CAD drawing. Introduction to computer programming, computer applications including word processing, spreadsheets, data base. Introduction to engineering economics. Required for Chemical, Civil, and Electrical Engineering majors. (Formerly 4100:101)

## **GNEN 110 Women in Engineering Seminar & Peer Group (1 Unit)**

Beginning women students may elect this one-credit course that provides an overview of the career opportunities for women in engineering. The course utilizes dynamic speakers to reinforce the student's educational and career choices. Small groups meet weekly, led by an upper-class engineering student. This interactive peer environment fosters personal development for first-year students. (Formerly 4100:110)

## **GNEN 120 IDEA Engineering Seminar (1 Unit)**

Explore career opportunities/personal development in all fields of engineering, assist with transition from high school to engineering studies. Of particular interest to underrepresented groups. (Formerly 4100:120)

## **GNEN 180 Engineering Design (1 Unit)**

See department for course description. (Formerly 4100:180)

## **GNEN 200 CEPS Internship (0 Units)**

Prerequisites: Admission to a degree program within the College of Engineering and Polymer Science and approved placement by the CEPS Cooperative Education and Placement Office. Elective for student who has completed the first-year courses in their curricula. Practice in industry and comprehensive written reports of this experience. Typically summer only; not to be taken in Fall or Spring semesters by students needing to meet requirements for full-time continuous enrollment. (Formerly 4100:200)

## **GNEN 300 Cooperative Education Work Period (0 Units)**

Prerequisites: Admission to a degree program in the College of Engineering and Polymer Science and sophomore standing in major; approved placement in work term by Cooperative Education and Placement Office. Cooperative education work term for students in the College of Engineering and Polymer Science who have completed second-year courses in their program's curriculum. Practice in industry and comprehensive written reports of this experience. Summer only. Does not meet a requirement for the College's Cooperative Education certificate. Typically summer only; not to be taken in Fall or Spring semesters by students needing to meet requirements for full-time continuous enrollment. (Formerly 4100:300)

## **GNEN 301 Cooperative Education Work Period I (0 Units)**

Prerequisites: Admission to the Cooperative Education, College of Engineering and Polymer Science Certificate program, and junior standing in major. First of three required work terms for students in Certificate program. Practice in industry and comprehensive written reports of this experience. (Formerly 4100:301)

## **GNEN 302 Cooperative Education Work Period II (0 Units)**

Prerequisites: GNEN 301, admission to the Cooperative Education, College of Engineering and Polymer Science Certificate program, and junior standing in major. Second of three required work periods for students in Certificate program. Practice in industry and comprehensive written reports of this experience. (Formerly 4100:302)

## **GNEN 400 Engineering Management and Leadership (3 Units)**

This is a case and discussion oriented course that examines the role of the engineering manager as a leader, problem solver, strategic planner, and a well-rounded business minded individual. (Formerly 4100:400)

## **GNEN 403 Cooperative Education Work Period III (0 Units)**

Prerequisites: GNEN 302, admission to the Cooperative Education, College of Engineering and Polymer Science Certificate program, and junior standing in the major. Third of three required work terms for students in Certificate program. Practice in industry and comprehensive written reports of this experience. May be repeated. (Formerly 4100:403)