

# Engineering Cooperative Education (ENCP)

## Courses

### ENCP 2000. Introduction to Engineering Co-op Education. (1 Hour)

Introduces engineering students to the cooperative education program and assists them through self-assessment in relation to the engineering profession. Offers students an opportunity to develop job search and career management skills and to learn about the co-op program. Analyzes how personality, values, skills, and interests relate to the co-op search and shape work experiences. Employer and student panels assist students exploring employment opportunities. Also introduces students to the attributes of a global engineer and the possibility of working globally.

**Prerequisite(s):** GE 1000 with a minimum grade of D- or ARCH 1000 with a minimum grade of D- or BIOL 1000 with a minimum grade of D- or BUSN 1102 with a minimum grade of D- or CHEM 1000 with a minimum grade of D- or CS 1200 with a minimum grade of D- or ENVR 1000 with a minimum grade of D- or FSEM 1000 with a minimum grade of D- or GENS 1102 with a minimum grade of D- or INPR 1000 with a minimum grade of D- or MATH 1000 with a minimum grade of D- or PHYS 1000 with a minimum grade of D-

### ENCP 3000. Professional Issues in Engineering. (1 Hour)

Provides students with an opportunity to reflect on both academic and co-op experiences in the context of planning for the senior year and beyond. Issues include professional and ethical issues, resolving ethical conflicts, awareness of engineers as professionals in a diverse world, strengthening decision-making skills, career portfolios, and lifelong learning needs, goals, and strategies. Students reflect upon issues of diversity from their experience in the University and in their cooperative education placements. Explores the role of different work and learning styles and diverse personal characteristics on the workplace and the classroom. Professional issues include impact of the cultural context, both in the United States and around the world, on the client, government relations, and the workplace.

**Prerequisite(s):** BIOE 2000 with a minimum grade of D- or CHME 2000 with a minimum grade of D- or CIVE 2000 with a minimum grade of D- or EECE 2000 with a minimum grade of D- or ENCP 2000 with a minimum grade of D- or MEIE 2000 with a minimum grade of D-

### ENCP 6000. Career Management for Engineers. (1 Hour)

Designed to introduce graduate engineering students to the cooperative education program and to maximize their learning by helping them become more intentional about learning in co-op and in the transfer of that knowledge and experience to and from their academic program and throughout their entire careers. Offers students an opportunity to develop career goals; to be able to identify and justify what they need to learn through their co-op experience and entire careers; and to acquire the tools to be able to continually assess what they already know, what they think they know, what they need to know, and what they would like to know in relation to achieving their career goals. Includes readings, exercises, and discussions. This course does not count toward degree requirements.

### ENCP 6100. Introduction to Cooperative Education. (1 Hour)

Introduces graduate students to the cooperative education program. Offers students an opportunity to develop job-search and career-management skills. Students perform discipline-specific assessments of their workplace skills, interests, and values and discuss how they impact personal career choices. Covers how to develop field/industry-specific materials, including a professional-style resumé and cover letter, and introduces students to career portfolios. Additional topics include ethics, professional behaviors, workplace culture, and proper interviewing techniques. Familiarizes students with workplace issues relative to their field of study while outlining co-op policies, procedures, and expectations of the cooperative education program and employers. This course does not count toward degree requirements.

### ENCP 6954. Co-op Work Experience - Half-Time. (0 Hours)

Provides eligible students with an opportunity for work experience. May be repeated without limit.

### ENCP 6955. Co-op Work Experience Abroad - Half-Time. (0 Hours)

Provides eligible students with an opportunity for work experience. May be repeated without limit.

### ENCP 6964. Co-op Work Experience. (0 Hours)

Provides eligible students with an opportunity for work experience. May be repeated without limit.

### ENCP 6965. Co-op Work Experience Abroad. (0 Hours)

Offers eligible students an opportunity for work experience abroad. May be repeated without limit.

**ENCP 7100. Career Management for PhD Engineers. (1 Hour)**

Offers students an opportunity to develop job-search and career-management skills applicable to co-op, internship, and full-time positions. Students perform discipline-specific assessments of their workplace skills, interests, and values and discuss their impact on whether students want to pursue careers in academia or industry. Covers how to develop field/industry-specific materials, including a professional-style resumé, academic CV, LinkedIn profile, elevator pitch, and cover letter. Additional topics include networking; ethics; international student work authorization; workplace culture; interviewing techniques; and diversity, equity, and inclusion. Students complete a one-on-one mock interview with the instructor and hear from guest speakers with PhDs from industry or PhD students who have completed a co-op/internship experience.