

The Hong Kong University of Science and Technology

UG Course Syllabus

[Course Title] Cooperative Education Program (Co-op) co-offered by School of Engineering and Career Center (DSTO)

[Course Code] ENGG2800

[No. of Credits] 3

[Any pre-/co-requisites] Attendance record of any 2 standalone career development programs organized by school/department/DSTO-career center.

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Course Description:

The primary objective of HKUST SENG Co-op Program is to empower Engineering students with hands-on industry experience, equipping them with the practical skills and knowledge necessary to excel in their chosen fields by participating in at least 4 consecutive months of full-time internship while earning credits at the same time.

By bridging the gap between academic learning and real-world applications, this program aims to cultivate a new generation of professionals who are not only academically proficient but also adept at navigating the complexities of the professional landscape.

In addition to providing engineering students with practical experience in their chosen fields, the Co-op Program actively encourages students to explore and engage with new industries outside their comfort zones. We believe that stepping into unfamiliar territory offers invaluable opportunities for personal and professional growth, fostering adaptability, creativity, and a broader perspective on career possibilities.

This course is intended to enhance students' career readiness by combining classroom-based education with practical work experience and on-going career coaching. Students are required to apply the skills and knowledge learnt in a full-time coop work experience for a single employer for at least 4 months. School approval is required.

- Pre-internship Career Readiness Training (attend any 2 standalone career development programs organized by school/department/DSTO-career center).
- Complete a full-time co-op program for at least 4 months with a single employer.
- Attend regular career coaching in-between the internship period to set, refine, and review different learning goals.
- Post-internship reflection and presentation.

Learning Process:

All the learning takes place through attending career programs, on-the-job training, regular meetup with a career advisor with personalized feedback, and end-of-internship reflection and presentation.

IOLs:

Students are expected to achieve the following outcomes upon completion of this course:

1. Apply academic knowledge and/or transferrable skills to real-life situations.
2. Learn and demonstrate the practical application of career skills in real-world scenarios within the chosen industry.
3. Cultivate effective communication, teamwork, and critical thinking abilities through hands-on experiences in diverse workplace settings.
4. Strengthen employability through gaining industry-specific experience and mastering workplace dynamics for seamless career transitions.
5. Build valuable connections with industry experts and peers to unlock potential career pathways.

Assessments:

Grading: Pass/Fail

a. Internship period (60%)

- Completion of the whole internship experience.
- Bi-monthly learning progress reports by student (at least 300 words).
- Regular meeting with career advisor to review the learning goals.
- Supervisor's assessments according to the company's performance appraisal review format (both qualitative and quantitative).

b. Project report and presentation (40%)

- Personal websites or online portfolios to showcase this learning journey.
- Detailed reports (at least 1,000 words) on the projects they worked on, outlining their roles, goals, results achieved (both company results and personal employability skills enhancement), and lessons learned.
- Complete MBTI/other designated psychometric assessment to enhance self-awareness & career preference match.
- Set post-program goals based on student's experiences and learning outcomes to measure their personal and professional development.
- Oral presentation with visuals.