

Chemical Engineering Technical Elective Requirement

There are 5 ways to satisfy the Chemical Engineering Technical Elective requirement

1. Cooperative Education or Internship Courses
2. Research Course
3. IPPD
4. ECH 3XXX or higher course not already required
5. MegaCourse



ECH 4948 Internship Courses and ECH 4949 Cooperative Education

Students participating in internship and/or cooperative education may elect to earn 1 credit per experience. This course can be mixed and matched with research credit for a maximum of 3 credits.

ENG 4912 Research Course

Students participating in research associated with chemical engineering may register for 1 credit per term. This course work can be mixed and matched with cooperative education and/or internship credit for a maximum of 3 credits.

ECH4912 IPPD

The Integrated Process and Product Design course (6 credits total) satisfies the Chemical Engineering Technical Elective (ECH 4912, 3 cr) and ECH 4644 Process Design (ECH 4913, 3 cr). Selection in IPPD is competitive.

ECH 3XXX or Higher Course

Any Chemical Engineering (ECH XXXX) elective or graduate course will satisfy the requirement.

MegaCourse

MegaCourse, (summer C only) is available to students who have successfully completed COT 3502 Computer Model Formulation. Select from: ECH 4905 Optimization and Sustainability (3 cr), ECH 4905 Problem Solving in ChE (2 cr), and ECH 4323/L Process Control and Lab (4 cr).

Technical Electives:

12 credits of Technical Electives are required for the *Bachelor of Science Degree in Chemical Engineering*, including:
3 cr – offered through Chemical Engineering
8-9 cr – 3000+ level technical course work in science, mathematics or engineering.

Note: A maximum of 3 credits of ANY XXX 49XX level teaching, research, coop/intern credit may be used to satisfy a technical elective requirement.