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.