

Computer Engineering Requirements and Sample Schedule

(from the 2006-2007 Union College Catalog)

Requirements for the Major: a total of 40 courses including the following:

- Math and Science: (Math 110, 112, 115, Physics 120, 121) or (IMP 111, 112, 113); Math 130, 197 or 199; one math elective from (Math 117*, 127, 198, 221, 234, 235, or 340); one science elective numbered 100 or higher (Chemistry 101, Physics 122, or Physics 123 are recommended)
- * Math 117 may be taken only by students who did not already take this material in IMP 113.
- Engineering Science: ESc 100;
- Computer Engineering Core: ECE 118, 225, 240, 241, 248, 351; CSc 105, 140, 210, 250, 260, 335; ECE/CSc 318, 337, 352;
- Computer Engineering Electives: 3 additional CSc or ECE courses numbered 300 or higher. Students may also enroll in graduate engineering courses offered through Union Graduate College. Please see the Union Graduate College catalog for course descriptions.
- Capstone Design: ECE 497 (1/2), 498 (1/2), 499.
- Core Components Curriculum: 7 to 10 courses depending upon the options chosen
- Free Electives: up to 3 free electives, depending upon how the CCC is satisfied.

Sample Schedule

The schedule below starts with Math 110, students with different math backgrounds will have slightly different math sequences.

Freshman Year

Fall: Elective*, ESc100, MTH 110

Winter: Elective*, MTH 112, PHY 120

Spring: Elective*, MTH 115, PHY 121, CSc 105

Sophomore Year

Fall: ECE 225, ECE 118, Math 197

Winter: Elective*, CSc 140, ECE 240, Math 130

Spring: Elective*, CSc 250, ECE241

Junior Year

Fall: Term abroad option** or Electives*

Winter: CSc 210, ECE/CSc 318, CS 260

Spring: ECE/CSc 352, Math elective, CSc 335, ECE 497 (1/2)

Senior Year

Fall: CpE Elective 1, ECE 351, ECE/CSc 337, ECE 498 (1/2)

Winter: CpE elective 2, Elective*, ECE 499

Spring: CpE elective 3, Elective*, ECE248, Science elective

*Electives should be chosen to satisfy the Core Components Curriculum. Students should determine as early as possible how they will satisfy these requirements and should work closely with their academic advisor to develop an appropriate plan of study.

**The fall term of the junior year is the recommended term for going on a full term abroad