Civil Engineering, B.S.

DEPARTMENT

BS in Civil Engineering, B.S.
MS in Civil Engineering, M.S.
MS in Civil Engineering-Water Resources & Environmental Engineering Option, M.S.
BS in Geomatics Engineering, B.S.

REQUIREMENTS

Department of Civil and Geomatics Engineering

Bachelor of Science Degree Requirements

Civil Engineering Major

1. Major requirements (70 units) and additional requirements (25 units)

   Major requirements (70 units)
   CE 1, CE 2, CE 20, CE 80, CE 121, CE 121L, CE 123, CE 123L, CE 124, CE 128, CE 129, CE 130, CE 132, CE 150, CE 150L, CE 161, CE 170, CE 176, CE 176L, CE 180A, CE 180B, CE 185 (47 units)
   GME 15, GME 15L, GME 66 (5 units)
   ME 112 (3 units)

   Technical Area Courses (15 units)
   Select 3 units from: CE 125 or CE 133
   Select 9 units of technical area courses from the following (see areas below): CE 127, CE 134, CE 136, CE 151, CE 153, CE 154, CE 155, CE 156, CE 157, CE 172, CE 173, CE 174, CE 177, CE 178
   Select 3 units from any remaining Technical Area Courses:
   • Environmental and Water Resources: CE 171, CE 172, CE 173, CE 174, CE 177, CE 178
   • General Professional: CE 190, CE 191T
   • Geotechnical: CE 125, CE 134, EES 114
   • Structures: CE 131, CE 133, CE 136, CE 137
   • Geomatics: GME 151, GME 173
   • Transportation: CE 151, CE 152, CE 153, CE 154, CE 155, CE 156, CE 157

   Additional requirements (33 units) CHEM 3A, EES 1, MATH 75, MATH 76, MATH 77, MATH 81 or ENGR 101, PHIL 1 or PHIL 10, PHYS 4A, PHYS 4AL, PHYS 4B

2. General Education requirements (48 units)*
   Select on course from each of the G.E. areas: Area A1, A2, B2, D1, D2, F. (See G.E. listings). The following courses are required to satisfy both G.E. and major requirements: MATH 75 [B4], CHEM 3A [B1], PHIL 1 or 10 [C2], CE 121 [IB], CE 161 [ID].
   Note: Engineering majors are exempt from G.E. Area A3, Areas C1 and C3, Area E, Area IC, and Area ID.

3. Other requirements (9 units)
   American Government and Institutions (PLSI 2), Multicultural and International (MI), and Upper-division writing. Note: Civil Engineering majors are exempt from the MI requirement.

4. Sufficient elective units to meet required total units (varies) (See Degree Requirements.)

5. Total (124 units)

Advising Notes

1. Courses in mathematics, the physical sciences, or engineering taken CR/NC are not counted toward fulfillment of degree requirements in civil engineering.
2. The Upper-Division Writing Skills requirement shall be met completing ENGR 105WE with a letter grade of C or better.
3. Students must consult with their academic advisor at least once each year.
4. The 15 units of Technical Area Courses must be completed with a grade of C or better.
5. The following courses must be passed with a grade of “C” or better: MATH 75, 76, 77, 81 or ENGR 101, PHYS 4A & 4B, CHEM 3A, CE 20, CE 121.
6. Students must obtain department approval prior to taking upper division major courses at another institution.

FACULTY

For faculty phone numbers and e-mail, see the campus directory.

For more on the faculty, see the Civil Engineering faculty pages and the Geomatics faculty pages. The faculty pages are updated by the department or program.