

CIVIL ENGINEERING, CO-OP OPTION, BS

Bachelor of Science in Civil Engineering with Co-op (430005BS)

This option of the undergraduate program in Civil Engineering includes a cooperative education component.

The following information has official approval of the **Department of Civil Engineering** and **The College of Engineering and Polymer Science**, but is intended only as a supplemental guide. Official degree requirements are established at the time of transfer and admission to the degree-granting college. Students should refer to the Degree Progress Report (DPR) which is definitive for graduation requirements. *Completion of this degree within the identified time frame below is contingent upon many factors, including but not limited to: class availability, total number of required credits, work schedule, finances, family, course drops/withdrawals, successfully passing courses, prerequisites, among others.* The transfer process is completed through an appointment with your academic advisor.

1st Year

Fall Semester		Hours
3150:151	Principles of Chemistry I ¹	3
3150:152	Principles of Chemistry I Laboratory	1
3300:111	English Composition I ^{1,2}	3
3450:221	Analytic Geometry-Calculus I ¹	4
4300:101	Introduction to Civil Engineering Fundamentals	3
	General Education or Honors Distribution ⁴	3
	Hours	17

Spring Semester

3150:153	Principles of Chemistry II ¹	3
3450:222	Analytic Geometry-Calculus II ¹	4
4300:102	Tools for Civil Engineering	3
	Second Writing Course ^{1,3}	3
	General Education or Honor Distribution ⁴	3
	Hours	16

2nd Year

Fall Semester		Hours
2980:101 or 3350:405	Basic Surveying or Geographic Information Systems	3
3450:223	Analytic Geometry-Calculus III ¹	4
3650:291	Elementary Classical Physics I ¹	4
4300:201	Statics ¹	3
	General Education or Honors Distribution ⁴	3
	Hours	17

Spring Semester

3450:335	Introduction to Ordinary Differential Equations	3
3650:292	Elementary Classical Physics II ¹	4
4300:202	Introduction to Mechanics of Solids	3
4300:321	Introduction to Environmental Engineering	3

4600:203	Dynamics ¹	3
	Hours	16

Summer Semester

4100:300	Cooperative Education Work Period (Possible)	
	Hours	0

3rd Year

Fall Semester

4300:306	Theory of Structures	3
4300:313	Soil Mechanics	3
4300:323	Water Supply & Pollution Control	3
4600:310	Fluid Mechanics I	2
	General Education or Honors Distribution ⁴	3
	CE Technical/Professional Requirement	3
	Hours	17

Spring Semester

4100:301	Cooperative Education Work Period	0
	Hours	0

Summer Semester

4600:305	Thermal Science	2
4300:xxx	4300 class from 4th year Spring (optional)	
	Hours	2

4th Year

Fall Semester

4100:302	Cooperative Education Work Period	0
	Hours	0

Spring Semester

4300:314	Geotechnical Engineering	3
4300:341	Hydraulic Engineering	3
4300:361	Transportation Engineering	3
4300:380	Engineering Materials Laboratory	3
4300:401	Steel Design	3
	General Education or Honors Distribution ⁴	3
	Hours	18

Summer Semester

4100:403	Cooperative Education Work Period	0
	Hours	0

5th Year

Fall Semester

4300:403	Reinforced Concrete Design	3
4400:307	Basic Electrical Engineering	4
	CE Technical/Professional Requirement	3
	CE Technical/Professional Requirement	3
	CE Technical/Professional Requirement	3
	Hours	16

Spring Semester

4300:471	Construction Administration	3
4300:490	Senior Design in Civil Engineering	3
	CE Technical/Professional Requirement	3
	General Education or Honors Distribution ⁴	3

General Electives	5
Hours	17
Total Hours	136

- ¹ Honors sections may be available; check the schedule of classes.
- ² The Civil Engineering Department recommends that English Composition I be used to satisfy writing course requirement but other choices are available. See the General Education Program for details.
- ³ Check General Education Program or Honors Distribution to find courses that satisfy the second writing course requirement.
- ⁴ Credit hours shown for General Education or Honors Distribution are general guidelines only. These courses should be chosen in accordance with the appropriate General Education curriculum guide (for non-honors students) or Honors Distribution (for honors students). Honors students must also ensure that their course selections meet additional requirements not shown on this curriculum guide.