

## Prerequisite list of common courses for the Civil Engineering Major 2016-17

<i>Course</i>	<i>Prerequisites</i>
*BIOL 173	None (note, only BIOL 173 or BIOL 211 can be counted)
*BIOL 211	High school biology
C E 105	None
C E 111	<i>C E 160</i> , credit or enrollment in ENGR 170 or <i>C E 170</i> , <i>MATH 165</i>
C E 160	Satisfactory scores on mathematics placement assessments; credit or enrollment in <i>MATH 165</i>
C E 170	None
C E 206	<i>MATH 166</i> , <i>ENGL 250</i> ; <i>C E 105</i> ; <i>ECON 101</i> recommended
C E 306	<i>C E 206</i>
C E 326	<i>CHEM 177</i> or <i>CHEM 178</i> , <i>MATH 166</i> , credit or enrollment in <i>E M 378</i>
C E 332	<i>E M 324</i>
C E 333	<i>C E 332</i> , <i>E M 327</i>
C E 334	<i>C E 332</i> , <i>E M 327</i>
C E 355	<i>C E 111</i>
C E 360	<i>E M 324</i> , credit or enrollment in <i>GEOL 201</i>
C E 372	<i>E M 378</i> , a course in <b>statistics</b> from the approved department list
C E 382	Credit or enrollment in <i>C E 360</i>
C E 403	Verification of undergraduate application for graduation by the end of the first week of class.
*C E 420	<i>C E 326</i> , <i>CHEM 178</i>
*C E 421	<i>C E 326</i>
*C E 428	<i>C E 326</i>
C E 460	<i>C E 360</i>
C E 485	<i>C E 306</i> , <i>C E 326</i> , <i>C E 333</i> or <i>C E 334</i> , <i>C E 355</i> , <i>C E 360</i> , <i>C E 372</i> , <i>C E 382</i> , <i>SP CM 212</i> . Course enrollment limited to final graduating semester.
CHEM 177	<i>MATH 140</i> or high school equivalent, and CHEM 50 or 1 year high school chemistry, and credit or enrollment in <i>CHEM 177L</i>
CHEM 177L	Credit or enrollment for credit in <i>CHEM 177</i>
CHEM 178	<i>CHEM 177</i> , <i>CHEM 177L</i>

CHEM 178L	<i>CHEM 177L</i> and credit or enrollment for credit in <i>CHEM 178</i>
*CHEM 231	CHEM 163, CHEM 163L, or CHEM 177, CHEM 177L; credit or enrollment in CHEM 231L
*CHEM 231L	Credit or enrollment for credit in CHEM 231; CHEM 163L or CHEM 177L
E M 274	Credit or enrollment in <i>MATH 166</i> ; <i>PHYS 221</i>
E M 324	<i>E M 274</i>
E M 327	<i>E M 324</i>
E M 345	<i>E M 274</i> , credit or enrollment in <i>MATH 266</i> or <i>MATH 267</i>
E M 378	<i>E M 274</i>
ENGL 150	Concurrent enrollment in <i>LIB 160</i> is recommended.
ENGL 250	<i>ENGL 150</i> or exemption from <i>ENGL 150</i> ; sophomore classification or exemption from <i>ENGL 150</i> ; credit for or concurrent enrollment in <i>LIB 160</i>
GEOL 201	None
LIB 160	For students whose native language is not English: Completion of <i>ENGL 101</i> requirement.
MATH 165	Satisfactory performance on placement exam or <i>MATH 143</i>
MATH 166	Minimum of C- in <i>MATH 165</i> or high math placement scores
MATH 265	Minimum of C- in <i>MATH 166</i> or <i>MATH 166H</i>
MATH 266	Minimum of C- in <i>MATH 166</i> or <i>MATH 166H</i>
*MICRO 201	One semester of college-level biology
PHYS 221	<i>MATH 165</i> , and credit or enrollment in <i>MATH 166</i>
PHYS 222	<i>PHYS 221</i> OR <i>PHYS 241</i> , <i>MATH 166</i>
SP CM 212	None

**NOTE: Courses vary by the General and Environmental focus areas. General includes the Structures, Transportation, and Geotechnical focus areas.**

Prerequisites vary for the following electives. Please consult the various lists corresponding to the desired elective.

- Design Elective
- Social Science and Humanities Electives
- Engineering Topics Electives
- Statistics Elective
- International Perspectives and US Diversity Electives
- Technical Communication Elective

\* **Environmental focus area = See your Academic Adviser.** Revised 5/27/16 af