**Civil Engineering Undergraduate Program**

### Freshman

**Fall**
- 1000 Intro
- LEAP 1501 Social & Ethical Engineering
- CHEM 1210 General Chemistry I
- MATH 1210 Calculus I
- WRTG 2010 or ESL 1060

**Spring**
- PHYS 2210 Phys for Sci & Engineers I
- LEAP 1500 Humanities for 4 Engineers
- CHEM 1220 General Chemistry II
- MATH 1220 Calculus II
- CHEM 1215 General Chemistry Lab I

### Sophomore

**Fall**
- 2010 Statics
- CHEM 2170 Elements of MSE
- MG EN 2400 Surveying
- MATH 2210 Calculus III
- ME EN 2020 Particle Dynamics

**Spring**
- 2140 Strength
- CH EN 2300 Thermodynamics
- MATH 2250 ODE’s
- 3520 Transportation

### Junior

**Fall**
- 3000 Seminar
- 3210 Structures I
- 3410/3415 Hydraulics
- 3510 Materials

**Spring**
- 3310/3315 Geotech I
- 3610 Enviro. I
- Technical Elective
- Intellectual Exploration
- Intellectual Exploration

### Senior

**Fall**
- 4000 Seminar
- 4910 Prof Design
- Technical Elective
- Intellectual Exploration
- Intellectual Exploration

**Spring**
- Technical Elective
- Technical Elective
- Intellectual Exploration
- American Institutions
- American Institutions

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^LEAP 1501 – Fulfills a Social and Behavioral Science requirement. LEAP 1500 – Fulfills a Humanities & Diversity requirements. All transfer students must take these courses unless they have 2 or more Humanities and Social & Behavioral Science Courses.

© Students must take CHEM 1210, CHEM 1215, and PHYS 2210 (after MATH 1310). Students must take one additional lab course and it is recommended to take PHYS 2215 but they can take CHEM 1225 or CHEM 2315. Additionally, students must take CHEM 1220, or CHEM 2310, or PHYS 2220. Students should check with their faculty advisors to see which of these options is best for their program.

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* Must take 2 of the 3 courses ECE 2200: Elec. Eng. MSE 2170 Mat’l Science CH EN 2300: Thermodynamics

# Students who do not complete the Engineering Math Sequence will be required to take this course.

# Additional Science Requirement, see the handbook.

\* Must be taken once, in a Fall, Spring, or Summer semester.

For a list of Technical Elective requirements, see the handbook.

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All Student must take 2 Fine Arts, 2 Humanities, and 2 Social & Behavioral Science courses to fulfill the Intellectual Exploration requirements. Associates degrees do not fulfill the department’s requirements automatically.

Updated September 5, 2014