Civil Engineering Undergraduate Program-Engineering Math

**Freshman**

**Fall**
- 1000 Intro
- LEAP 1501^ Social & Ethical Engineering
- CHEM 1210^ General Chemistry I
- MATH 1310 Eng Calculus I
- WRTG 2010 or ESL 1060

**Spring**
- PHYS 2210^ Phys for Sci & Engineers I
- LEAP 1500^ Humanities for Engineers
- CHEM 1220^ General Chemistry II
- MATH 1320 Eng Calculus II

**Sophomore**

**Fall**
- 2010 Statics
- 2300 Eng. Econ
- 2310 Prob/Statistics
- MG EN 2400 Surveying
- MATH 2250 ODE's

**Spring**
- 2140 Strength
- 1400 CAD
- CS 1000 Eng. Computing
- ME EN 2030 Particle Dynamics
- MATH 2250 ODE's

**Junior**

**Fall**
- 3000 Seminar 0.5
- 3100 Tech. Comm. 3
- 3210 Structures I
- 3510 Materials 3
- 3520 Transportation 3

**Spring**
- 3310/3315 Geotech I
- 3610 Enviro. I 3
- Additional Science Requirement 3
- Intellectual Exploration 3
- Intellectual Exploration 3

**Senior**

**Fall**
- 4000 Seminar 0.5
- Technical Elective 3
- Intellectual Exploration 3
- American Institutions 3

**Spring**
- 4910 Prof Design 3
- Technical Elective 3
- Intellectual Exploration 3
- Intellectual Exploration 3

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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.

^ Must take 1 of the 2 courses
MSE 2170 Mat’l Science OR
CH EN 2300: Thermodynamics

#This course is only for students who complete the Engineering Math Sequence.

$ Additional Science Requirement, see the handbook.

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

**Additional Notes:**
- 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.

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.