

Civil Engineering Undergraduate Program-Engineering Math

Freshman

Sophomore

Junior

Senior

Freshman		Sophomore		Junior		Senior	
Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring
1000 Intro 2	PHYS 2210@ Phys for Sci & Engineers I 4	2010 Statics 3	2140 Strength 3	3000 Seminar 0.5	3310/3315 Geotech I 4	4000 Seminar 0.5	4910 Prof Design 3
LEAP 1501^ Social & Ethical Engineering 3	LEAP 1500^ Humanities for Engineers 3	2300 Eng. Econ 2	1400 CAD 3	3100 Tech. Comm. 3	3610 Enviro. I 3	Technical Elective 3	Technical Elective 3
CHEM 1210@ General Chemistry I 4	CHEM 1220@ General Chemistry II 4	2310 Prob/Statistics 2	CS 1000 Eng. Computing 3	3210 Structures I 3	Technical Elective 3	Technical Elective 3	Technical Elective 3
CHEM 1215@ General Chemistry Lab I 1	PHYS 2215@ Phys for Sci & Engineers Lab I 1	MSE 2170* Elements of MSE 1.5	MATH 3140 Engr Vect Calc & PDEs# 4	3410/3415 Hydraulics 4	Additional Science Requirement 3	Technical Elective 3	Intellectual Exploration/ IR 3
MATH 1310 Eng Calculus I 4	MATH 1320 Eng Calculus II 4	MG EN 2400 Surveying 3	ME EN 2030 Particle Dynamics 3	3510 Materials 3	Intellectual Exploration 3	Intellectual Exploration 3	American Institutions 3
WR TG 2010 or ESL 1060 3		MATH 2250 ODE's 4		3520 Transportation 3		Intellectual Exploration 3	

^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.

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

■ Additional Science Requirement, see the handbook.

@ 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.

