Catalog year 2026-27

Updated July, 2026

CIVIL ENGINEERING

Flow chart for ENGR 1810

1st Year Fall (1-17 units)	1st Year Spring (18-35 units)	2nd Year Fall (36-53 units)	2nd Year Spring (54-69 units)	3rd Year Fall (70-87 units)	3rd Year Spring (88-104 units)	4th Year Fall (105-120 units)	4th Year Spring (121-135 units)
ENGR 1810 (3)[1] Elementary Math for Engineers	ENGR 1820 (3) & ENGR 1820L (1) Engr. Math	PHYS 2010 (4) Physics I with Lab	ENGR 2420 (3) Strength of Materials	ENGR 3510 (3) Structural Analysis I	ENGR 3520 (3) Structural Design I	ENGR 4010 (3) Capstone Design I	ENGR 4020 (3) Capstone Design II
ENGR 1010 (3) Introduction to Engineering	ENGR 1020 (4) Introduction to Design	ENGR 2410 (3) Statics	ENGR 2540 (3) Materials Engineering	ENGR 3530 (3) Soil Mechanics	ENGR 3540 (3) Soil Foundation Engineering	ENGR 4535 (3) Structural Design II	ENGR 4580 (3) Water Resources
ENGR 1220 (3) Visualization Languages	CHEM 1150 (4) Gen. Chemistry with Lab	ENGR 2510 (4) Surveying	ENGR 2560 (3) Principles Env. Eng. and Sci.	ENGR 3550 (3) Dynamics and Vibrations	ENGR 3040 (1) Leadership Cohort	ENGR 4530 (3) Environmental Engineering I	ENGR 3820 (3)[7] Applied Diff. Equations
ICST 1050 (3) Introduction to Global Studies	ENGR 1200 (3)[2] Python	MATH 2450 (4) Calculus I	CHST 1300 (3) New Testament Survey	ENGR 3050 (3) Engineering Statistics	ENGR 3560 (3) Hydrology	ENGR 4510 (3) Project and Constr. Mngmt	TE #2 (3)[5]
ENGL 1130 (3) / ENGL 1130E (4) English I	ENGL 1230 (3)[3] English II	GE #1 (3)[4]	MATH 2550 (4) Calculus II	MATH 3430 (4) Multivariable Calculus	ENGR 3420 (3) Fluid Mechanics	ENGR 4050 (1) Internship Report	GE #2 (3)[4]
GNST 1000 (1) First Year Experience				BIOL 2040 (2) Microbiology For Engineers	CHST 3700 (3) The Christian Faith	TE #1 (3)[5]	
					ENGR 3060 (1) Internship Prep	Summer Internship[6]	
17 units	18 units	18 units	16 units	18 units	17 units	16 units	15 units

1. ENGR 1810: Based on the math placement test

2. ENGR 1200: Can be replaced with ENGR 1210 C++

3. ENGL 1230: Can be replaced with ENGR 1230E (Need approval if > 18 units)

4. GE #1-#2: 2 from Civic World (Econ., History, Poli. Sci., and/or Law)

5. TE #1-#2: Any 300-level or above ENGR or CONM (variance required)

6. Complete pre-approved 200 hours of supervised internship

7. ENGR 3820: Can be replaced with MATH 3030 or MATH 3100

Others: FE exam and Cross-cultural experience course