

Bachelor of Science in Civil Engineering

Student Planning Guide: First-Year Students Starting 2025-26 with MATH 9

	Fall	Winter	Spring
	MATH 9/9L PreCalculus	MATH 11 Calculus I	MATH 12 Calculus II
	University Core	CHEM 11/11L (5)	PHYS 31/31L Physics for Engineers I (5)
	ENGR 1 and/or 1L Intro to Eng. (1 unit)*	ENGR 1 and/or 1L Intro to Eng. (1 unit)*	ENGR 1 and/or 1L Intro to Eng. (1 unit)*
	Critical Thinking and Writing I	Critical Thinking and Writing II	CENG 10/10L Surveying (3/1)
	CENG 7/7L Graphical Comm (3/1)	Cultures and Ideas I	Cultures and Ideas II
	Fall	Winter	Spring
	MATH 13 Calculus III	MATH 14 Calculus IV	CENG 44B Strength of Matls II (2)
	PHYS 32/32L Physics for Engineers II (5)	CENG 15/15L Comp. Appl. in CE (3/1)	CENG 115/115L Materials (4/1) OR CENG 143/143L Environ Engr (3/1)**
	CENG 20/20L Geology (3/1)	CENG 44A/44AL Strength of Matls (3/1)	CENG 132 Structural Analysis
	CENG 41 Statics	PHYS 33/33L Physics for Engineers III (5)	University Core
	Fall	Winter	Spring
	AMTH 106 Differential Equations (or MATH 22)	AMTH 112 Risk in Civil Engr (or AMTH 108 or MATH 122)	CENG 128 Engr. Econ & Business (3)
	CENG 141/141L Fluids/Hydraulics (4/1)	CENG 121 Geotech Engr (4/1)	CENG 140/140L Water Resources (4/1)
	CENG 145 Transport Engr Des	CENG 125/125L Municipal Engr (3/1)	CENG 115/115L Materials (4/1) OR CENG 143/143L Environ Engr (3/1)**
	CENG 148/148L Structural Syst (4/1)	CENG Tech Elective	CENG 192A Civil Engr Prof Practice (2)
			CENG Tech Elective
	Fall	Winter	Spring
	CENG 192B Civil Engr Prof Practice (2)	CENG 193 Civil Engr Project Design	CENG 194 Civil Design Commun. (1)
	ECEN 49 Fundamentals of Elec CE	CENG Tech Elective	CENG Tech Elective
	CENG Tech Elective	University Core	University Core
	ENGL 181 Eng. Comm.	University Core	University Core



Humanities & Social
Science



Math & Science



Major



Technical
Electives

*ENGR 1 and 1L may be taken in any order and in any quarter in the first year. ENGR 1L is recommended Fall or Winter quarter if taking Math 9/9L. If taken in later years, ENGR 110 is substituted for ENGR 1/1L.

**The required CENG 115/115L and 143/143L may be taken either 2nd or 3rd year per student's area of interest.