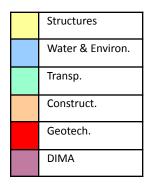
Civil, Environmental, and Sustainable Engineering Technical Electives 2024-2025

Courses sharing a box are typically offered in alternating years

Fall	Winter	Spring	
118 (A) Constr Engr	119 (A) Des Sustain Constr*	124 (A) Water Law Policy	
1134 (D) Str Steel Des I	122 (A/D) Air Pollution 123 (A) Pollut Fate Transp	137 (A/D) Earthquake Engr	
1144 (I)) Water Waste Irtmt	139 (A) Groundwater Hydr 161 (A) Sustain Water Res	138 (D) Geotech Engr Des	
I14 / (I)) Pavement Decign	133 (D) Wood Des 146 (D) Cold Form Steel Des	151 (A) Spec Topics Transp	
149 (A) Civil Systems Engr	135 (D) Reinf Concr Des	142 (D) Water Res Des 162 (A) Comput Water Res	
184 (A) Construct Proj Deliv 187 (A) Heavy Construction	150 (D) Traffic Engr Des	185 (A) Cost Estimation	
	160 (A) GIS Water Res	182 (A) Build Info Model	
	186 (A) Constr Plan Control		



Five required technical electives must include: One digital information management and analysis (DIMA); Two design (D); One analysis (A); One either design (D) or analysis (A). **Not all electives are offered every year.** 137 and 122 can be applied as a design or an analysis elective. *Students entering in 2020-2021 or earlier can count CENG 119 as a design elective.

CORE Curriculum Requirements for CENG Majors

There are normally ten required humanities courses in the CORE Curriculum that all SCU students must complete. Engineering students can complete one course that satisfies two of these requirements ("double-dip") as long as the course has been approved (visit https://www.scu.edu/apps/courseavail and click "advanced") for both CORE categories.

Ten Required CORE Humanities Courses					
Critical Thinking and Cultures and Ideas I, Writing I and II II, and III		Religion, Theology, and Culture	Ethics	Diversity	
CTW-1 and CTW-2	C&I-I, II, and III	RTC-I, II, and III	Various	Various	

Students also must complete coursework that satisfies five additional learning outcomes listed below.

Pre-approved Course Options for Specific, Supplemental Required CORE Curriculum Learning Outcomes				
Science, Technology Civic And Society Engagement		Social Science	Arts	Experiential Learning
ENGL 181 & CENG 193	ENGR 1 & CENG 193	Various	ENGL 181 & CENG 193	Various

Engineering students complete an approved three-course (**12-unit**) Pathway or cluster of thematically linked courses as part of the SCU Core. Students must declare their Pathway by the end of their sophomore year. At least one Pathway course (minimum of four units) must be from outside their major department and any non-major Pathway course(s) should, where possible, satisfy other (base) CORE Curriculum requirements.

	Pre-approved Pathway Course Options/Recommendations for Civil Engineering Students				
	Digital Age	Sustainability	Values in Science & Technology	Design Thinking	
Course #1	8 units from CENG 7,	8 units from CENG 20, 115,	8 units from CENG 115,	8 units from CENG 119,	
Course #2	15, 160, 182	119, 140, 143, 144, 161	119, 140, 143, 144, 161	128, 148, 192A, 193	
Course #3 a	PHIL 22 or ENGR 19	PHIL 29 or RSOC 64	PHIL 29 or CHEM 11	PHIL 22 or ENGR 19	

^a Departments occasionally change course numbers. Students should verify course numbers. Many other classes also work for course #3.