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 |
| 134 (D) Str Steel Des I | 122 (A/D) Air Pollution 123 (A) Pollut Fate Transp | 137 (A/D) Earthquake Engr |
| 144 (D) Water Waste Trtmt | 139 (A) Groundwater Hydr <br> 161 (A) Sustain Water Res | 138 (D) Geotech Engr Des |
| 147 (D) Pavement Design | 133 (D) Wood Des <br> 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 <br> 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 |  |


|  | Structures |
| :--- | :--- |
|  | Water \& Environ. |
|  | Transp. |
|  | Construct. |
|  | Geotech. |
|  | DIMA |

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 <br> Writing I and II | Cultures and Ideas I, <br> II, and III | Religion, Theology, <br> 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 <br> And Society | Civic <br> Engagement | Social <br> Science | Arts | Experiential <br> 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 ${ }^{\text {a }}$ | PHIL 22 or ENGR 19 | PHIL 29 or RSOC 64 | PHIL 29 or CHEM 11 | PHIL 22 or ENGR 19 |

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[^0]:    ${ }^{\text {a }}$ Departments occasionally change course numbers. Students should verify course numbers. Many other classes also work for course \#3.

