Civil, Environmental, and Sustainable Engineering Technical Electives
Courses sharing a box are typically offered in alternating years

| Fall | Winter | Spring |
| :--- | :--- | :--- |
| 118 (A) Constr Engr | 119 (D) Des Sustain Constr | 124 (A) Water Law Policy |
| 134 (D) Str Steel Des I | 123 (A) Pollut Fate Transp | 133 (D) Wood Des |
| 139 (A) Groundwater Hydr |  |  |
| 161 (A) Sustain Water Res | 135 (D) Reinf Concr Des | 136 (D) Adv Concrete Str |
| 144 (D) Water Waste Trtmt | 137 (D) Earthquake Engr | 138 (D) Geotech Engr Des |
| 149 (A) Civil Systems Engr | 146 (D) Des. Steel Frame | 142 (D) Water Res Des <br> 162 <br> (A) Comput Water Res |
| 186 (A) Constr Plan Control |  |  |
| 187 (A) Constr Oper Equip | 160 (A) GIS Water Res | 150 (D) Traffic Engr Des |
|  | 184 (A) Contruct Mgmt | 151 (A) Spec Topics Transp |
|  |  | 182 (A) Build Info Model |


|  | 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. CENG 146 and 133 also may be offered in alternate years.

## 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 II, <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 | CENG 7 | Two from CENG 20, 115, | Two from CENG 115, 119, | 8 units from CENG 119, |
| Course \#2 | CENG 15 | 119, 140, 143, 144, or 161 | 140, 143, 144, or 161 | 128, 148, 192A, or 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 |

## ${ }^{\text {a }}$ Departments occasionally change course numbers. Students should verify course numbers.

As part of the documentation (portfolio) requirements for the CORE Curriculum, students must submit a composite reflection paper based on the pathway coursework during their senior year

