130 credit hours required for BSCE degree

CE 20300 & 21101 can be interchanged between semesters 3 & 4 of sophomore year

Italics: suggested Technical Electives listed on next page; total of 30 cr. Required

See the other side of this document for Curriculum Notes & other information.
Curriculum Notes:
1. This flowchart shows the standard BSCE course requirements and the typical sequencing of such courses. Some deviations, both in courses and sequencing, can occur; students should speak to their advisors in the CE Undergraduate Office for further information.
2. Students should consult the following LSCCE website for guidance on the requirements for Technical Electives and General Education Elective courses, respectively and the limitations on transfer credits: https://engineering.purdue.edu/CCE/Academics/Undergraduate/Policies The student is ultimately responsible for knowing and completing all BSCE degree requirements.
3. Communication Courses - Written Communication (WCC) and Oral Communication (OCC) required for First Year engineering are BSCE degree requirements that are separate from BSCE general education elective requirements.
4. The Science Selective strongly recommended by Civil Engr faculty is CHM 11600. Either CHM 11600 or CS 15900 is accepted. However, we prefer CHM 11600, especially if you are interested in the environmental or water resources side of civil engineering, because CE 35000 Intro to Environmental & Ecological Engr., a technical elective, requires CHM 11600 as a pre-requisite. Students using another Science Selective such as BIOL 11000 to meet FYE requirements will still be required to take CHM 11600 or CS 15900 to graduate in CE but can use BIOL 11000 for the Basic Science Elective.
5. The Basic Science Requirement courses are chosen from an approved list. Examples include: BIOL 11000 or EAPS 10000*, 10400*, 11100, 12000*, 12500* & 22100. See advisor for current approved list. Choose starred * courses to meet the Foundational Core STS (Science, Technology, & Society) if not satisfied by other general education courses. https://www.purdue.edu/provost/students/s-initiatives/curriculum/courses.html
6. The Civil Engr faculty recommend ECON 25100 as a Foundational Behavioral/Social Science (BSS) general education course.
7. CE 49800 Senior Design must be taken in a student's final semester before graduation. The only exception to this rule are students who plan to graduate during a summer session may take CE 49800 during the prior spring semester.
8. To graduate all students are required to complete 30 technical credits, including four (4) breadth and three (3) design, a minimum of 21 credits in Civil Engineering, and at least a minimum of two (2) technical elective sequences.
9. Sequence Requirement: A sequence is defined as a minimum of two (2) technical elective courses from a given CE emphasis area. Each student must complete at least two (2) such sequences of technical electives. Note that completing four courses from a single CE area of emphasis does not meet this requirement; the emphasis areas must be distinct. Certain non-CE designated courses may be used in satisfying this requirement.

Suggestions for Technical Electives: (B = Breadth Courses; D = Design Courses)

CHM 25700: Organic Chemistry
CE 35000/EEE 35000: Intro to Envi & Eco Engr (B;ENV)
CE 35500/EEE 35500: Engr Envir Sustain (ENV)
CE 38300: Geotechnical Engr I (B;GEO)
CE 44000: Urban Hydraulics (B&D; HYD)
CE 44200 Introduction to Hydrology (HYD)
CE 44300: Environmental Fluid Mechanics (HYD)
CE 45600/49700: Wastewater Treatment Process (D; ENV)
CE 45700: Air Pollution Control and Design (D; ENV)
CE 49700: Civil Engineering Projects - Water Treatment (ENV)
CE 49700: Civil Engineering Projects - Water Chemistry (D;ENV)
CE 50801: Geographic Information Systems (B; GEM)
CE 54300: Coastal Engineering (D; HYD)
CE 55700: Air Quality Management (ENV)
CE 55900: Water Quality Modeling (ENV)
CE 59700: Civil Engineering Projects - Water Chemistry (D;ENV)
EEE 30000: Envir & Eco Sys Modeling (EEE, non CE)
EEE 53000: Life Cycle Assessment (EEE, non CE)
EEE 59700: Civil Engineering Projects - Water Chemistry (D;ENV)

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Bachelor of Science in Civil Engineering
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