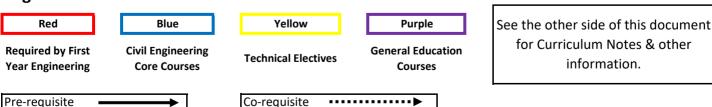


Legend:

Pre-reqs CE 39201

& CE 39800



(Breadth)

♦ 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

130 credit hours required for BSCE degree

Structural

Analysis II

STR

See Foundational Core STS Requirements 5

Civil Engineering Curriculum Flowchart 1,2 STRUCTURAL Engineering Concentration

Beginning Fall 2023

Curriculum Notes:

- 1 This flowchart shows the standard CE course requirements and the typical sequencing of such courses. **Some** deviations, both in courses and sequencing, can occur; students should speak to their advisors or the CE Undergraduate Office for further information.
- 2 Students should consult the following CE 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/CE/Academics/Undergraduate/Policies
 - Students may also contact their faculty advisor or the CE Undergraduate Office for further information. The student is ultimately responsible for knowing and completing all degree requirements.
- 3 **Communication Courses** Written Communication (WCC) and Oral Communication (OCC) required for First Year engineering are Civil Engineering degree requirements that are separate from Civil Engineering general elective requirements.
- 4 The **Science Selective** strongly recommended by the School of Civil Engineering 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 Civil Engineering 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. Also refer to:
 - https://www.purdue.edu/provost/students/s-initiatives/curriculum/courses.html
- 6 The Lyles School of Civil Engineering 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 is that students who plan to graduate during a summer session may take CE 49800 during the prior spring semester.

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

CE 22200: Life Cyc Engr & Mngt Const Fac (B; CON)

CE 57100: Earthquake Engineering (STR)

CE 32201: Prjt Cntrl Life Cyc Exc Const Fac (CON)

CE 57200: Prestressed Concrete Design (STR)

CE 31100: Architectural Engineering (B; ARC)

CE 57300: Structural Dynamics (STR)

CE 35000: Environmental Engineering (B; *ENV*)

CE 57600: Advanced Reinforced Concrete Design (STR)

CE 36100: Environmental Engineering (B & D; TRA)

CE 57600: Advanced Reinforced Concrete Design (ST CE 57900: Structural Stability (STR)

CE 37900. Structural Stability (STR)

CE 44000: Urban Hydraulics (B & D; *HYD*)

CE 59100: Advanced Structural Steel Design (*STR*)

CE 47900: Dsgn of Bldg Components and Sys (D; *STR*)

CE 59500: Finite Elements in Elasticity (*STR*)

CE 57000: Advanced Structural Mechanics (STR)

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.