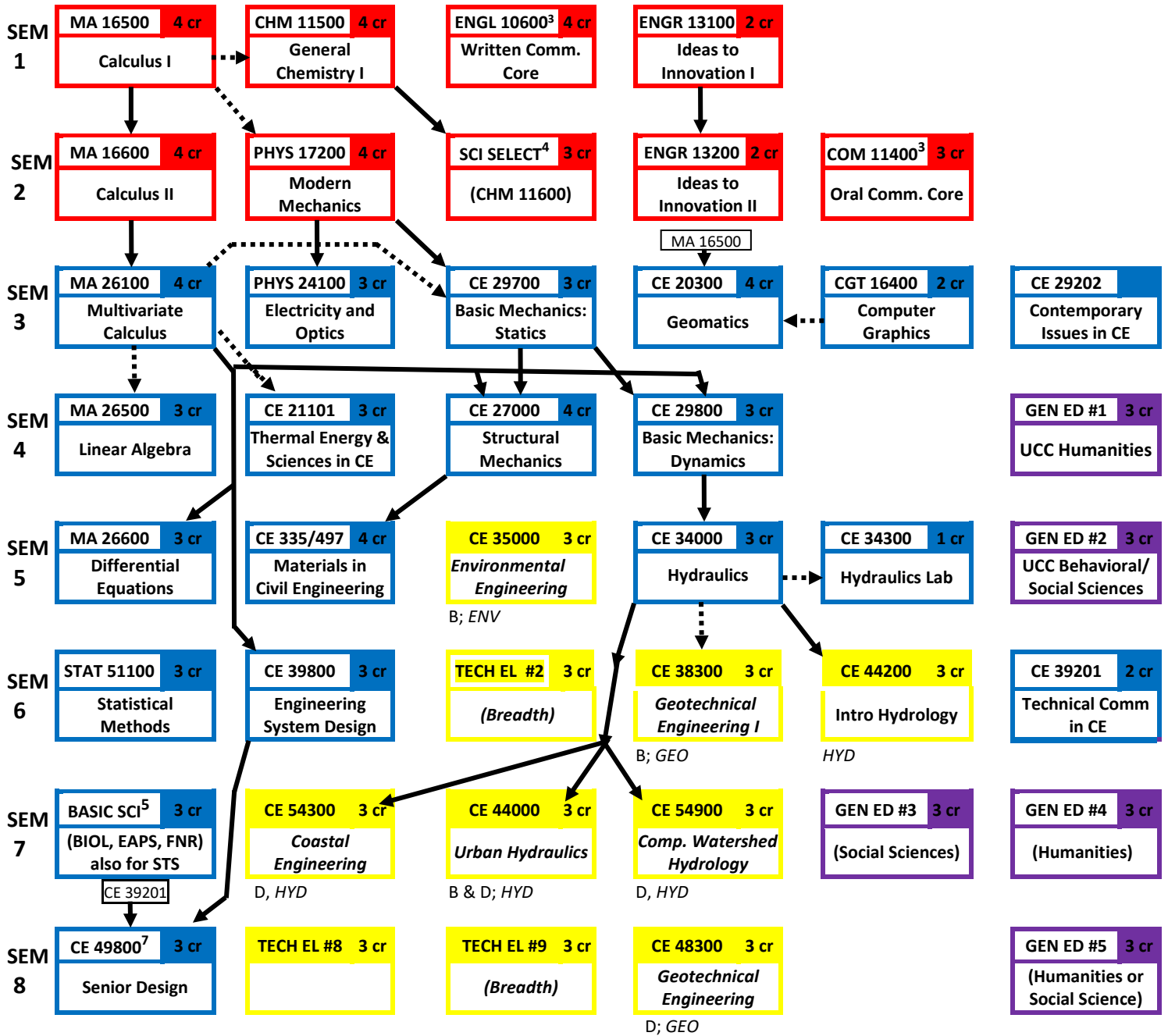


Civil Engineering Curriculum Flowchart^{1,2}

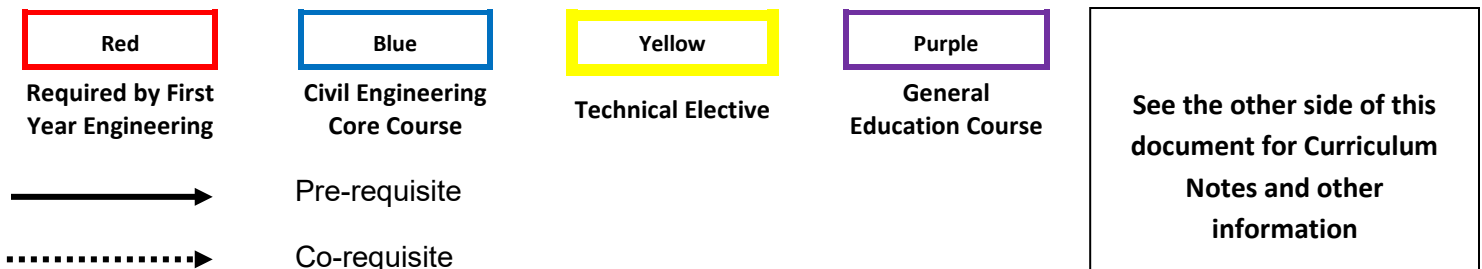
HYDRAULIC and HYDROLOGIC ENGINEERING Concentration

Beginning
Fall 2021



⁵See Foundational Core STS Requirement⁵

Legend:



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

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 limitation on transfer credit: <https://engineering.purdue.edu/CE/Academics/Undergraduate/Current>
Click on the "Technical Elective Policy", the "General Education Electives" or the "Transfer Credit Policy" on the right side bar to see the pdf documents. Students may also contact their faculty advisor or the CE Undergraduate Office for further information. In particular, it should be understood that the sequence shown for Technical Electives and General Education courses is a suggestion and can be modified as needed. Suggested Technical Electives are listed below. **The student is ultimately responsible for knowing and completing all degree requirements.**
3. Communication courses – For Written Communication (WC) ENGL 10600 or ENGL 10800 or SCLA 10100 or other from Written Communication Core list. For Oral Communication (OC) COM 11400 or SCLA 10200 or other from Oral Communication Core list satisfies the First Year Engineering general education requirement as well as the Oral Communication Foundational Outcome. The Lyles School of Civil Engineering, however, requires this course for graduation (subject to core policy rules) and does not consider it to be a general education course. Also refer to <http://www.purdue.edu/provost/students/s-initiatives/curriculum/courses.html>
4. The Science Selective strongly recommended by the School of Civil Engineering is CHM 11600. Other choices for the Science Selective will be accepted for meeting graduation requirements, but students may find themselves at a disadvantage if they have not taken CHM 11600.
5. The Basic Science Requirement courses are chosen from an approved list. Examples include: BIOL 11000, 12100* & 28600, 14600, 23000 or EAPS 10000* 10400*, 11100, 12000*, 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 <http://www.purdue.edu/provost/students/s-initiatives/curriculum/courses.html>
6. The Lyles School of Civil Engineering faculty recommend ECON 25100 as a Behavioral/Social Science (BSS) general education course.
7. CE 49800 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.

*Excerpt from Technical Elective Policy

Required for the Concentration (*B = Breadth courses; D = Design courses*):

- CE 35000: Environmental Engineering (B; *ENV*)
 - CE 38300: Geotechnical Engineering I (B; *GEO*)
 - CE 44000: Urban Hydraulics (B & D; *HYD*)
 - CE 44200: Introduction to Hydrology (*HYD*)
 - CE 54300: Coastal Engineering (D; *HYD*)
- Select one of the following courses:**
- CE 44300: Environmental Fluid Mechanics (*HYD*)
 - CE 54000: Open Channel Hydraulics (*HYD*)
 - CE 54400: Subsurface Hydrology (*HYD*)
 - CE 54700: Transport Processes In Surface Waters (*HYD*)
 - CE 54900: Computational Watershed Hydrology (D; *HYD*)

Additional Suggestions for Technical Electives (*B = Breadth courses; D = Design courses*):

- CE 36100: Transportation Engineering (B & D; *TRA*)
- CE 37100: Structural Analysis I (B; *STR*)
- CE 40800: Global Information Systems in Engineering (B; *GEM*)
- CE 44300: Environmental Fluid Mechanics (*HYD*)
- CE 47300: Reinforced Concrete Design (D; *STR*)
- CE 48300: Geotechnical Engineering II (D; *GEO*)
- CE 54000: Open Channel Hydraulics (*HYD*)
- CE 54600: Computational River Hydraulics (D; *HYD*)
- CE 54700: Transport Processes In Surface Waters (*HYD*)
- CE 54900: Computational Watershed Hydrology (D; *HYD*)
- CE 59300: Environmental Geotechnology (*ENV*)