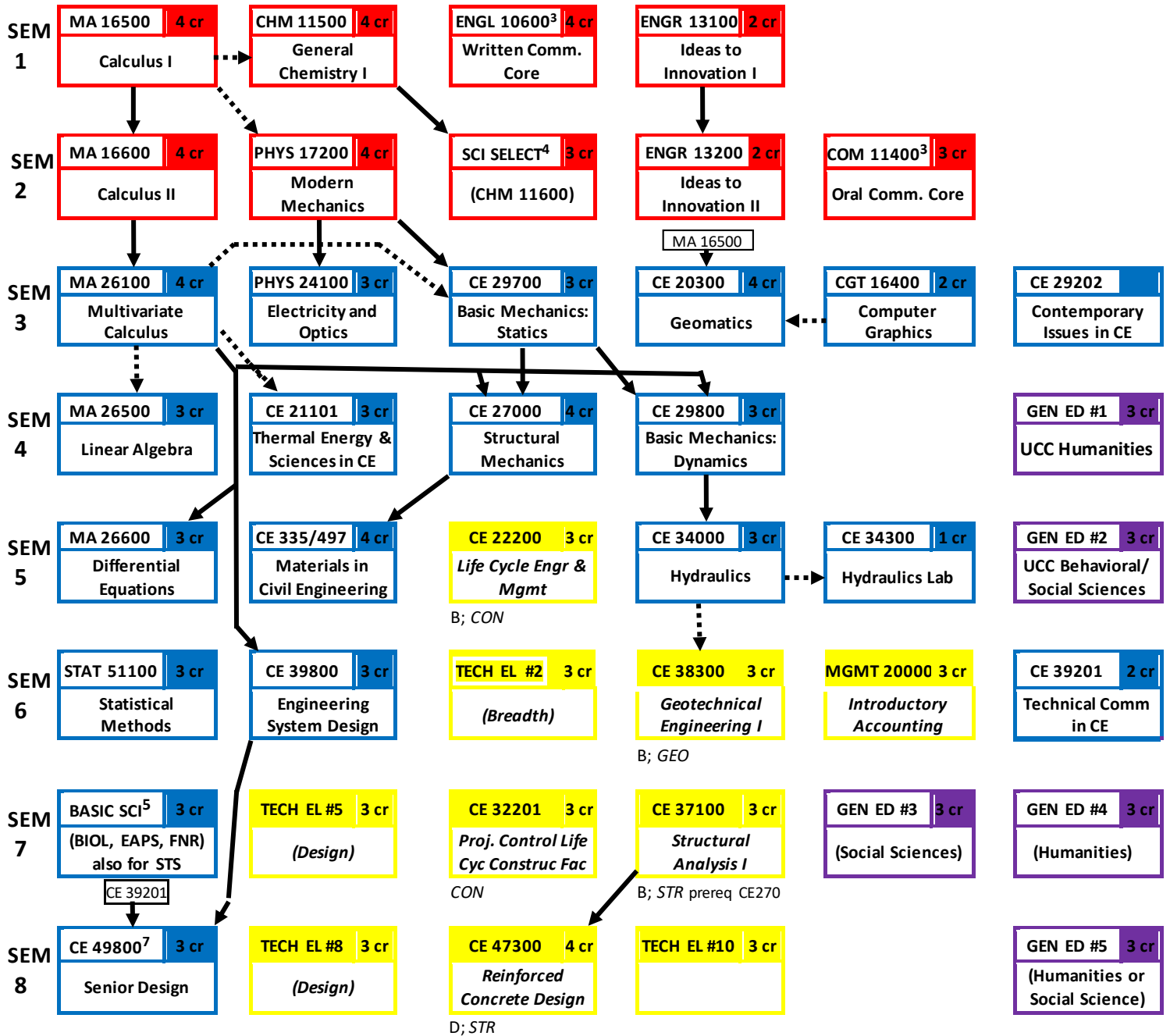


Civil Engineering Curriculum Flowchart^{1,2}

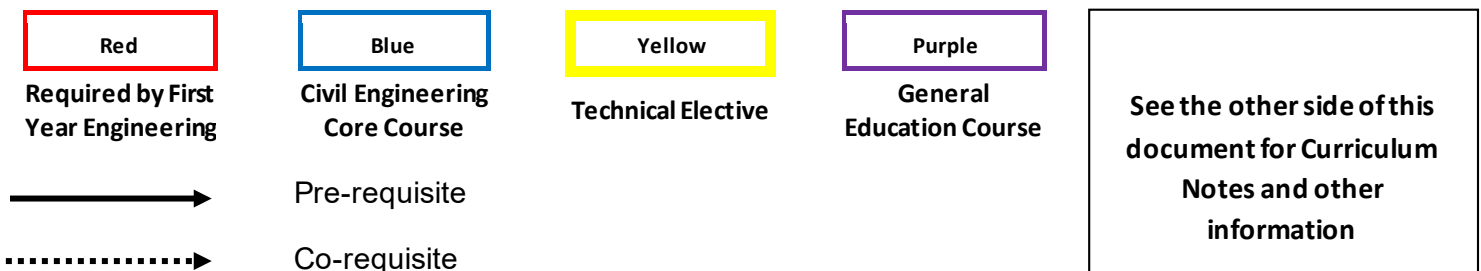
CONSTRUCTION ENGINEERING Concentration

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 and/or consult myPurduePlan 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. COM 11400 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.
4. The Science Selective strongly recommended by the School of Civil Engineering is CHM 11600. CS 15900 will be accepted for meeting graduation requirements, but students may find themselves at a disadvantage when choosing technical electives without 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 Foundational 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.

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

- CE 22200: Life Cycle Engineering and Management of Constructed Facilities (*B; CON*)
- CE 37100: Structural Analysis I (*B; STR*)
- CE 38300: Geotechnical Engineering I (*B; GEO*)

Select one of the following courses:

- CE 47000: Structural Steel Design (*D; STR*)
- CE 47300: Reinforced Concrete Design (*D; STR*)
- CE 48300: Geotechnical Engineering II (*D; GEO*)

Select one of the following courses:

- CE 32201: Project Control & Life Cycle Execution of Constructed Facilities (*CON*)
- CE 52100: Construction Business Management (*CON*)
- CEM 48500 Legal Aspects in Construction Engineering (*CON*)

Select one of the following courses:

- MGMT 20000: Introductory Financial Accounting
- MGMT 21200: Business Accounting

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

- CE 35000: Environmental Engineering (*B; ENV*)
- CE 36100: Transportation Engineering (*B & D; TRA*)
- CE 44000: Urban Hydraulics (*B & D; HYD*)
- CE 47000: Structural Steel Design (*D; STR*)
- CE 47900: Design of Building Components and Systems (*D; STR*)
- CE 52100: Construction Business Management (*CON*)
- CE 52200: Computer Applications in Construction (*D; CON*)
- CE 52300: Selection and Utilization of Construction Equipment (*D; CON*)
- CE 52700: Analytic Methods for the Design of Construction Operations (*D; CON*)
- CEM 32400: Human Resource Management in Construction
- CEM 48500: Legal Aspects in Construction Engineering (*CON*)
- MGMT 30400: Intro to Financial Management