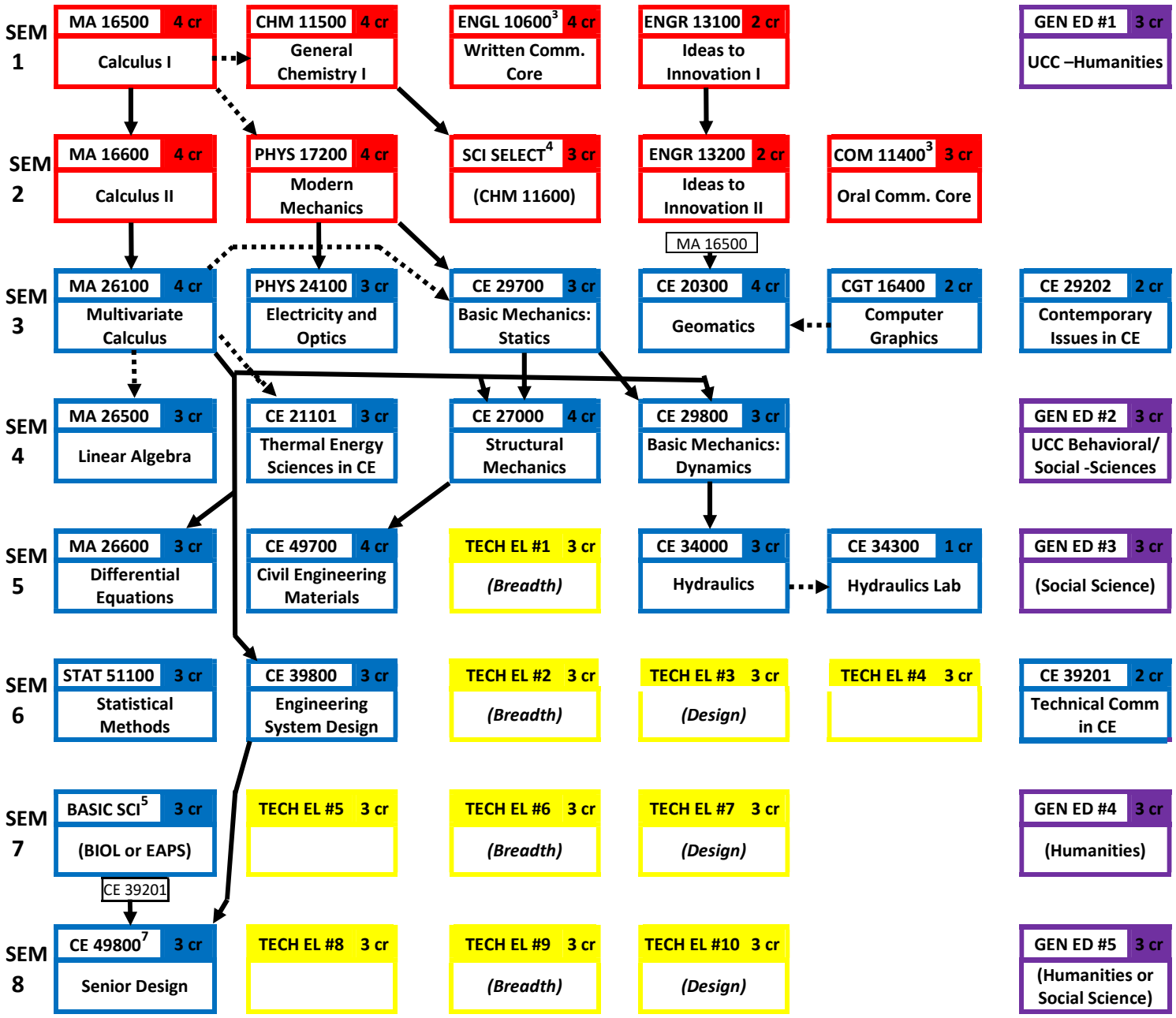
DRAFT Civil Engineering Curriculum Flowchart[1,2]

Beginning Fall 2020



[5]*See Foundational Core STS Requirement*[5]

Legend:

Red	Blue	Yellow	Purple
Required by First Year Engineering	Civil Engineering Core Course	Technical Elective	General Education Course

Pre-requisite

Co-requisite

See the other side of this document for Curriculum Notes and other information

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

Purdue University Lyles School of Civil Engineering ***130* cr. hrs.***

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Beginning Fall 2020

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 when choosing technical electives 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 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.

***Excerpt from Technical Elective Policy**

***Breadth requirement*:** At least four (4) courses must be completed from the following list, guaranteeing sufficient breadth of study in at least four of the emphasis areas:

ARC: CE 31100 - Architectural Engineering
CON: CE 22200 - Life Cycle Engr & Mgmt of Constructed Facilities
ENV: CE 35000 - Intro to Environmental and Ecological Engineering
GEM: CE 40800 - Geographic Information Systems in Engineering
GEO: CE 38300 - Geotechnical Engineering I
HYD: CE 44000 - Urban Hydraulics
STR: CE 37100 - Structural Analysis I
TRA: CE 36100 - Transportation Engineering

Design content requirement: At least three (3) courses must be completed from the following list, guaranteeing sufficient design content:

ARC: CE 41300, 41400
CON: CE 52200, 52300, 52700
ENV: CE 35300, 45600, 45700
GEM: CE 30300, 30600
GEO: CE 48300, 58300, 58400, 58500
HYD: CE 44000, 54300, 54600, 54900
MAT: CE 53000, 53500
STR: CE 47000, 47300, 47900
TRA: CE 36100, 46100, 56200, 56300, 56500, 56700