Civil Engineering Curriculum Flowchart:
GEOMATICS ENGINEERING Concentration

Beginning
Fall 2011

Legend:

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

**Pre-requisite**

**Co-requisite**

*Italics: suggested Technical Elective; others listed on next page; total of 30 cr. required

B = Breadth courses, D = Design courses

Purdue University Lyles School of Civil Engineering

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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 rightside 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.

3. 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 if they have not taken CHM 11600.

4. COM 11400 satisfies the First Year Engineering requirement for a general education course. The School of Civil Engineering, however, requires this course for graduation and does not consider it to be a general education course.

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.

6. The School of Civil Engineering strongly recommends ECON 25100 as a social science 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 planning on graduating during a summer session may take CE 49800 during the prior spring semester.

8. This course does not yet have a permanent course number assigned to it. Please consult with your advisor or the CE Undergraduate Office to determine the appropriate course number to use when registering.

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

- CE 22200: Life Cycle Engineering and Management of Constructed Facilities (B; CON)
- CE 32201: Project Control and Life Cycle Execution of Constructed Facilities (CON)
- CE 36100: Introduction to Transportation Engineering (B & D; TRA)
- CE 37100: Structural Analysis I (B; STR)
- CE 38300: Geotechnical Engineering I (B; GEO)
- CE 44000: Urban Hydraulics (B & D; HYD)
- CE 44300: Environmental Fluid Mechanics (HYD)
- CE 45600/49700: Wastewater Treatment Process (D; ENV)
- CE 46100: Roadway and Pavement Design (D; TRA)
- CE 46300: Highway Transportation Characteristics (TRA)
- CE 47000: Structural Steel Design (D; STR)
- CE 47300: Reinforced Concrete Design (D; STR)
- CE 48300: Geotechnical Engineering II (D; GEO)
- CE 51200: The Comprehensive Urban Planning Process (TRA)
- EAPS 38100: Geology for Engineers
- EAPS 38500: Principles of Engineering Geology
- ENTR 20000: Introduction to Entrepreneurship and Innovation
- MGMT 20000: Introductory Accounting
- MGMT 45500: Legal Background for Business I
- MGMT 45600: Legal Foundation for Business II

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