Civil Engineering Curriculum Flowchart 1,2

ARCHITECTURAL ENGINEERING Concentration

Beginning Fall 2021

Legend:

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

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.
Civil Engineering Curriculum Flowchart

ARCHITECTURAL ENGINEERING Concentration

Beginning Fall 2021

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

*Excerpt from Technical Elective Policy

Required for the Concentration (B = Breadth courses; D = Design courses):
- CE 31100: Architectural Engineering (B; ARC)
- CE 41300: Building Envelope Design & Thermal Loads (D; ARC)
- CE 41400: Building Mechanical & Electrical System Design (D; ARC)
- Select two of the following choices:
  - CE 51300: Lighting in Buildings (ARC)
  - CE 51401: Building Controls (ARC)
  - CE 51501: Building Energy Audits (ARC)

Other Suggested Technical Electives (B = Breadth courses; D = Design courses):
- CE 22200: Life Cycle Engineering and Management of Constructed Facilities (B; CON)
- CE/EEE 35500: Environmental Sustainability (ENV)
- CE 37100: Structural Analysis (B; STR)
- CE 38300: Geotechnical Engineering I (B; GEO)
- CE 44000: Urban Hydraulics (B & D; HYD)
- CE 47000: Structural Steel Design (D; STR)
- CE 47300: Reinforced Concrete Design (D; STR)
- CE 49700: Civil Engineering Projects - Building Information Modeling (CON)
- CE 59700: Civil Engineering Projects - Sustainable Building Design, Construction and Operation (ARC)
- ME 31500: Heat and Mass Transfer
- ME 41300: Noise Control (typically Spring)
- ME 41800: Engineering of Environmental Systems & Equipment (typically Spring)
- ME 50200: Indoor Environment
- ME 51800 - Analysis of Thermal Systems
- ME 59700: Civil Engineering Projects - Sustainable Energy Options and Analysis
- ME 59700: Civil Engineering Projects - Solar Energy Engineering
- ECE 48300: Digital Control Systems
- ECE 58000: Optimization Methods for Systems and Controls
- EAPS 59100: Solar and Thermal Radiation

Purdue University Lyles School of Civil Engineering

revised 7/2021