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<th>Faculty Advisor</th>
<th>Student Name</th>
<th>Student Number</th>
<th>Class Year</th>
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### MINOR IN ARCHITECTURAL & FACILITIES ENGINEERING

**Core Required Courses**
- CE305 Construction Planning & Management
- CE408 Building Info. Modeling/Integrated Project Delivery
- CE409 Fundamentals of Building Systems
- CE448 Introduction to Architectural Engineering

**Complete TWO of the following core electives**
- CE304 Introduction to Scheduling & Estimating
- CE410/510 Sustainable Infrastructure and Building
- CE415/515 Foundations and Retaining Structures
- CE442 Steel Design
- ME411 Introduction to Heat Transfer
- EE221 Linear Circuits
- EE333 Power System Engineering
- EHS330 Occupational Safety & Ergonomics
- EV305 Sustainability and the Environment
- CE404 Applications in Scheduling & Estimating
- CE411 Construction Materials Engineering
- CE441 Reinforced Concrete Design
- ME310 Thermodynamic Systems Engineering
- ME444 Computer Aided Engineering
- EE331 Energy Conversion
- EE/ME450 Control Systems
- ES238 Introduction to Energy Systems

**Complete ONE math elective**
- DS/MA241 Introduction to Data Science
- MA330 Advanced Engineering Math
- STAT383 Probability and Statistics
- STAT389 Probability and Statistics / Multivariate Analysis

**Complete ONE management elective**
- EM/OM380 Project Management (EC)
- FN361 Financial Management
- OS286 Organizational Behavior I (IG)
- LW270 Law and Society I
- ES238 Introduction to Energy Systems

**Complete ONE art elective**
- DA110 Drawing (IA/C1)
- DA200 3D Digital Modeling & Imagery (IA)
- Or other approved course in art history, architectural history, art appreciation, applied art, or related study

**Complete ONE capstone design course**
- CE490/491 Senior Design
- ME446 Integrated Design II
- EE412 Senior Design
- EM456 Process Engineering & Design

Must have an Architectural and/or Facilities focus

### MINOR IN ENVIRONMENTAL ENGINEERING

**Core Required Courses**
- CE340 Introduction to Environmental Engineering
- CE380 Fundamentals of Environmental Engineering
- CH220 Materials Balances

**Complete TWO of the following professional electives**
- CE479 Water and Wastewater Treatment Processes
- CE481 Hazardous Waste Management Engineering
- CE482 Environmental Systems Analysis and Design
- CE486 Industrial Ecology
- ES432 Risk Analysis

**Complete ONE chemical principles elective**
- CH210 Chemical Engineering Principles
- CH221 Spectroscopy
- CM241 Organic Chemistry I
- CM371 Physical Chemistry I

**Complete ONE biological principles elective**
- BY214 Genetics
- BY222 Ecology & BY224 Ecology Laboratory
- BY320 Microbiology
- BY330/EV330 Great Lakes Water Protection