

**CEE Majors Interested in  
Construction Engineering, Energy and Sustainable Infrastructure  
Spring 2022 Advising for AY 2022-2023**

V04-13-22

Course	Title	Credits	Quarter Offered and Instructor
<b>Primary Courses</b>			
CEE 291	AutoCAD	2 credits	A, W, Sp—Le
CEE 401	Pavement Design for Roads ( <b>online</b> )	1 credit	A—Mahoney
CEE 402	Energy Infrastructure ( <b>online</b> )	1 credit	A—Larson
CEE 403	Sustainable and Recyclable Materials ( <b>online</b> )	1 credit	A—Yamaura
CEE 408	Sustainable Roadway Design and Construction	3 credits	W—Muench
CEE 410	Traffic Engineering Fundamentals	3 credits	W—Kuznicki
CEE 416	Urban Transportation Planning and Design	3 credits	A—Hallenbeck
CEE 420	Engineering with Developing Communities	3 credits	Sp – Pearson and Thelemaque
CEE 424	GIS for Civil Engineers	3 credits	A—Ahmed
CEE 433	Design and Construction of Temporary Structures	3 credits	A—Yamaura
CEE 434	Project Estimating	3 credits	A—Yamaura
CEE 435	Project Scheduling	3 credits	W—Yamaura
CEE 436	Foundation Design	3 credits	A—Mauer
CEE 440	Professional Practice Studio	2 credits	Sp—TBA
CEE 441	CESI Capstone	5 credits	Sp—Muench
CEE 441	CESI Capstone	5 credits	Sp--Yamaura
CEE 454	Design of Timber Structures	3 credits	W—Reed
<b>Secondary Courses</b>			
CM 423	Construction Law	3 credits	Sp—TBD
CEE 452	Design of Reinforced Concrete Structures	3 credits	A—Mehrdad
CEE 473	Coastal Engineering I	3 credits	Sp-TBD
CEE 477	Open-Channel Flow	3 credits	W—TBD
CEE 490	Air Pollution Control	3 credits	Sp—TBD

The suggested courses will help you prepare for entry-level positions in the construction industry along with knowledge of sustainable practices and/or with agencies or firms that require construction/sustainability specialties. Employment for specific positions in construction will also depend on the extent of your construction related experience and the types of projects being constructed. CEE 401, 402 and 403 will be offered as fully online 1-credit courses during Aut Q 2022. Enrollment for each is limited to 25 students. CEE 401 covers pavement design and construction aspects for roads ranging from gravel to paved; CEE 402 focuses on renewable energy infrastructure; CEE 403 is a new course that covers sustainable and recycled materials of interest to civil engineers.

## Commentary for Selected Construction Management Courses

- **CM Minor:** Minors offer you a way to explore a specialty theme with less commitment of time than a major. Where a major requires at least 50 credits, most minors require about 27 credits. The CM minor represents a set of mostly CM courses that lead to a “Minor in Construction Management.” This is noted on your transcript if you successfully complete the required coursework. **You can find more information at <https://cm.be.uw.edu/degrees-certificates/cm-minor/> or book an advising appointment at [cmadvising@uw.edu](mailto:cmadvising@uw.edu)**
- **Additional Construction Management (CM) Courses to consider.**
  - **CM 321** Mechanical Systems in Buildings - Winter
  - **CM 322** Electrical Systems in Buildings - Winter
  - **CM 332** Construction Equipment Management - Spring
  - **CM 414** Virtual Construction – Autumn

## Additional CEE Course Requirements/Recommendations

- **15 CEE Technical Electives (CEE 400 level only).** Take at least one course from three of the six areas of department emphasis (the six areas are; construction (CESI), transportation, geotechnical, structures, hydrology/hydrodynamics, environmental).
- **12 Upper Division Engineering and Science electives** (can include the CM and ARCH courses). Students may submit a petition to the Advising Office to have a course not on the approved list considered as an Upper-Division (UD) Engineering and Science Elective. This is quick and straightforward to do.
- **CEE 440 Professional Practice and CEE 441 Capstone.** Any capstone offered by CEE is sufficient. Typically the CESI group offers two capstone options each AY.
- The courses, course instructors and the quarter offered are **not firm as of April 2022**; however, we doubt much will change.
- If you have not taken **CEE 291 AutoCAD** prior to your senior year, then you need to do so. It is offered A, W and Sp Quarters. **Officially, it is not required that you take CEE 291** but you should be proficient with this tool before you graduate. CEE 291 is an excellent way to achieve and demonstrate that proficiency.