

**CEEC Undergraduate Courses Offering**  
**2-Year Plan (Spring 2027 to Fall 2028)**

**Required CEEC Courses**

| <b>Year</b>   | <b>Semester</b> | <b>Course Prefix</b> | <b>Name of the courses</b>                                 |
|---------------|-----------------|----------------------|------------------------------------------------------------|
| 2027/<br>2028 | Spring/Fall     | CEE 121              | Elementary Surveying                                       |
|               | Spring/Fall/Su  | CEE 241              | Statics                                                    |
|               | Spring          | CEE 250              | Sustainability in CEE                                      |
|               | Spring/Fall/Su  | CEE 301              | CAD Tools for Civil Engineering Design                     |
|               | Spring/Fall/Su  | CEE 307              | Engineering Economics                                      |
|               | Spring          | CEE 334              | Soil Mechanics                                             |
|               | Spring/Fall     | CEE 346/L            | Civil Engineering Materials                                |
|               | Spring          | CEE 340              | Introduction to Construction Engineering                   |
|               | Spring/Fall     | CEE 370/L            | Engineering Mechanics of Deformable Bodies                 |
|               | Fall            | CEE 362              | Transportation Engineering                                 |
|               | Fall/Summer     | CEE 367/L            | Fluid Mechanics                                            |
|               | Spring          | CEE 371              | Numerical Methods in CE                                    |
|               | Spring/Fall     | CEE 381              | Structural Analysis I                                      |
|               | Spring          | CEE 413              | Water Resources Engineering I                              |
|               | Fall            | CEE 450/L            | Unit Operations and Processes in Environmental Engineering |
|               | Spring/Summer   | CEE 480              | Concrete Structure Design                                  |
|               | Spring/Fall     | CEE 498              | Civil Engineering Capstone                                 |
|               | Spring/ Fall    | CEE 499              | FE Exam Registration                                       |

**Elective courses for CEEC Students**

**Construction Electives**

| <b>Semester and Year</b>       | <b>Course Prefix</b> | <b>Name of the courses</b>                                  |
|--------------------------------|----------------------|-------------------------------------------------------------|
| Spring 2027/<br>2028           | CEE 433              | Temporary Structures for Constr. of Infrastructure Projects |
| Fall/ Spring/ Su 2027/<br>2028 | CEE 481              | Sustainable Construction for Infrastructure Projects        |
| Summer 2027/28                 | CEE 409              | Project Management                                          |
| Fall 2027/2028                 | CEE 472              | Construction Estimating for Infrastructure Projects         |
|                                | CEE 473              | Construction Scheduling for Infrastructure Projects         |

## Geotechnical Electives

| Semester/Year    | Course Prefix | Name of the courses            |
|------------------|---------------|--------------------------------|
| Fall 2027/ 2028  | CEE 435       | Foundations Engineering        |
| Spring 2027/2028 | CEE 610       | Highway Construction Materials |

## Structural Electives

| Semester/Year  | Course Prefix | Name of the courses                   |
|----------------|---------------|---------------------------------------|
| Su 2027/2028   | CEE 482       | Design of Timber Structure            |
| Fall 2027/2028 | CEE 444       | Steel Structural Design               |
| Spring 2027    | CEE 476       | Earthquake Engineering for Structures |
|                | CEE 478       | Applied Finite Element Analysis       |

## Transportation Electives

| Semester/Year | Course Prefix | Name of the courses                     |
|---------------|---------------|-----------------------------------------|
| Spring 2027   | CEE 461       | Introduction to Railroad Transportation |
| Fall 2027     | CEE 462       | Railroad Engineering                    |
| Spring 2028   | CEE 466       | Geometric Design                        |
|               | CEE 471       | Public Transportation                   |
| Fall 2028     | CEE 470       | High Speed Rail                         |

## Water Resources/Environmental Electives

| Semester and Year | Course Prefix | Name of the courses                                          |
|-------------------|---------------|--------------------------------------------------------------|
| Spring 2027       | CEE 449       | Data Analytics for Energy Infrastr. Systems Sustainability   |
|                   | CEE 495       | Sustainable Environmental Technologies for Resource Recovery |
| Su 2027/28        | CEE 468       | GIS Applications in Civil Engineering                        |
| Fall 2027         | CEE 455       | Water Treatment Principles and Design                        |
| Spring 2028       | CEE 454       | Solid & Hazardous Wastes Engineering                         |
| Fall 2028         | CEE 451       | Environmental Water Chemistry & Analysis                     |

*Disclaimer: These are tentative schedules and may be subject to change based on the instructor's availability and other factors. The department chair will make a final decision on whether to offer these courses or replace them with other courses.*