

## 2024-25 Civil Engineering Checklist

Person

Fulfilled by major requirements (EGR 317)

### Communication (6 credits)

- \_\_\_ ENG 112 Writing and Community
- \_\_\_ COM 101 Public Speaking

### Cultural and Global Awareness (6 credits)

- \_\_\_ World Language (determined by placement)
- One of the following courses:
- \_\_\_ GLS 101 Global Perspectives
- \_\_\_ HUM 210 Meaning Through Culture

### Health and Well-Being (6 credits)

- \_\_\_ HWB 110 Holistic Health: Mind, Body, and Spirit
- One of the following courses:
- \_\_\_ PSY 101 General Psychology
- \_\_\_ PSY 220 Human Growth and Development
- \_\_\_ SOC 101 Introduction to Sociology

### Broad Integrative Knowledge Outside Major\*\*

- a. Completion of a minor
- b. Completion of a second major
- c. Completion of a Pathway

\*Please refer to catalog or MUHUB Progress tab for a complete list of courses that meet these requirements.

\*\*Please refer to catalog or MUHUB Progress tab for a description of acceptable major/minor options.

### General Math and Science Core Reqs (30 hours)

|  |   |
|--|---|
| ___ MAT 230 Calculus I                           | 4 |
| ___ MAT 231 Calculus II                          | 4 |
| ___ MAT 305 Calculus III                         | 4 |
| ___ EGR 210 Engineering Computation and Modeling | 3 |
| ___ CHE 140 General Chemistry I                  | 3 |
| ___ CHE 141L General Chemistry I Lab             | 1 |
| ___ PHY 201 University Physics I                 | 4 |
| ___ PHY 202 University Physics II                | 4 |
| ___ Science Elective (Non CHE or PHY)            | 3 |

### Engineering Core Requirements (24 hours)

|  |   |
|--|---|
| ___ EGR 101 Introduction to Engineering    | 3 |
| ___ EGR 151 Programming for Engineers      | 3 |
| ___ EGR 156 Intro Computer Aided Design    | 3 |
| ___ EGR 221 Engineering Mechanics: Statics | 3 |
| ___ EGR 242 Linear Circuit Analysis        | 3 |
| ___ EGR 301 Global Engineering             | 3 |
| ___ EGR 317 Engineering Economics          | 3 |
| ___ EGR 491 Engineering Senior Design      | 3 |

### Civil Engineering Major Requirements (45 hours)

|   |   |
|---|---|
| ___ EGR 222 Engineering Mechanics: Dynamics | 3 |
| ___ EGR 226 Mechanics of Materials          | 3 |
| ___ EGR 326 Engineering Statistics          | 3 |
| ___ EGR 365 Fluid Mechanics                 | 3 |
| ___ CVE 301 Surveying with Lab              | 3 |
| ___ CVE 327 Civil Engineering Materials     | 3 |
| ___ CVE 330 Structural Analysis             | 3 |
| ___ CVE 332 Hydraulics with lab             | 3 |
| ___ CVE 338 Soil Mechanics                  | 3 |
| ___ CVE 411 Environmental Engineering       | 3 |
| ___ CVE 430 Reinforced Concrete Design      | 3 |
| ___ CVE 440 Foundation Engineering          | 3 |
| ___ CVE 492 Senior Design Project II        | 3 |
| ___ Civil Engineering Elective              | 3 |
| ___ Civil Engineering Elective              | 3 |

Total Earned  
Hours 129

## 2024-25 B.S. Civil Engineering Major Sample Four-Year Plan

| Year One                   |         |            |                             |         |            |
|----------------------------|---------|------------|-----------------------------|---------|------------|
| Fall Semester              |         |            | Spring Semester             |         |            |
| Requirement Category       | Course  | Credit Hrs | Requirement Category        | Course  | Credit Hrs |
| Gen Math & Sci: Calculus I | MAT 230 | 4          | Gen Math & Sci: Calculus II | MAT 231 |            |