# CIVIL & ENVIRONMENTAL ENGINEERING CURRICULUM

**Bold = minimum grade of C**

## FIRST YEAR

### FALL
- Calculus I MATH 01.130 - CR 4
- College Chemistry I CHEM06.100 - CR 4
- Fresh. Engineering Clinic I ENGR01.101 - CR 2
- Intro to Scientific Prog. CS01.104 - CR 3
- Intro to Mapping & GIS GEO 16.160 - CR 3

### SPRING
- Calculus II MATH 01.131 - CR 4
- Introductory Mechanics PHYS 00.220 - CR 4
- Fresh. Engineering Clinic I ENGR01.102 - CR 2
- Composition I COMP01.111 - CR 3
- Intro to Infrastructure CEE08.101 - CR 2

### Total
- 16

## SECOND YEAR

### FALL
- Science Elective\(^1\) - CR 4
- Calculus III MATH 01.230 - CR 4
- Statics ENGR01.271 - CR 2
- Civil Engineering Systems CEE08.305 - CR 3
- Soph. Engineering Clinic I ENGR01.201 - CR 4

### SPRING
- Engineering Graphics CEE 08.102 - CR 2
- Math for Engrg Analysis MATH01.235 - CR 4
- Field Surveying CEE 08.103 - CR 2
- Dynamics ENGR01.291 - CR 2
- Soph. Engineering Clinic II ENGR01.202 - CR 4
- Solid Mechanics ENGR01.272 - CR 2

### Total
- 17

## THIRD YEAR

### FALL
- Junior Engineering Clinic ENGR01.303 - CR 2
- Structural Analysis CEE08.382 - CR 3
- Fluid Mechanics I ENGR01.341 - CR 2
- Environmental Engineering I CEE08.311 - CR 3
- Intro to Microeconomics ECON04.102\(^*\) - CR 3
- Civil Engineering Materials CEE08.301 - CR 2
- Materials Science ENGR01.281 - CR 3

### SPRING
- Junior Engineering Clinic ENGR01.303 - CR 2
- Anal. & Design Steel Frames CEE08.383 - CR 3
- Water Resources Engineering CEE08.342 - CR 3
- Sustainable Civil/Env Engineering CEE08.312 - CR 3
- Transportation Engineering CEE08.361 - CR 3
- Geotechnical Engineering CEE08.351 - CR 3

### Total
- 17

## FOURTH YEAR

### FALL
- CE Design Project I CEE08.491 - CR 2
- Civil Engineering Practice CEE08.490 - CR 3
- Civil Engineering Elective - CR 3
- Civil Engineering Elective - CR 3
- Sr Engineering Clinic ENGR01.403 - CR 2
- Rowan Experience (Broad Base LIT) - CR 3
- Rowan Core (Global Literacy) - CR 3

### SPRING
- CE Design Project II CEE08.492 - CR 2
- Technical Elective - CR 3
- Civil Engineering Elective - CR 3
- Civil Engineering Elective - CR 3
- Sr Engineering Clinic ENGR01.403 - CR 2
- Free elective (___) - CR 3

### Total
- 17

**TOTAL 131**

\(^1\)Chemistry II CHEM06.101; Intro. to Electricity and Magnetism PHY02.201; or Intro. to Thermodynamics, Fluids, Waves, and Optics PHY02.210

**Tech Elective** - This is a 300 or higher level engineering or science course.

Check CEE website for course suggestions

Civil Engineering Electives (4 Required)
CEE electives must be selected from the available courses in civil engineering. Students should take at least 1 course each in 2 of the following three areas: transportation, geotechnical, and water resources. This implies the following:

- Water+Transportation or Water+Geo or Geo+Transportation

May'18