

Bachelor of Science in Civil Engineering

Year 1

Year 2

Year 3

Year 4

Math 30
(4 units)
Calculus I
ALEKS or Math 29

Math 31
(4 units)
Calculus II
Math 30

Math 45
(3 units)
Diff Eqns.
Math 31

Math 100 (or 35)
(3 units)
Lin. Algebra
Math 31 (or 30)

ENGR 110
(3 units)
Dynamics
*ENGR 30, Math 45,
Math 100 (35)*

ENGR 132
(3 units)
Fluid Mech
ENGR 110 (co)

CE 130 | CE 130L
(3 units) | (1 unit)
Water Res. Eng.
*CE 1, ENGR 115, ENGR
132, CE 101 (co), WPI*

CE 160L
(1 unit)
Structural Lab
*ENGR 112, CE 101 (co),
WPI*

CE 4
(2 units)
Eng. Graphics

Phys 11A
(4 units)
Mechanics
Math 31 (co)

Phys 11C
(4 units)
Elect. & Mag.
Math 31, Phys 11A

ENGR 30
(3 units)
Eng. Mechanics
Math 31, Phys 11A

ENGR 115
(3 units)
Eng. Statistics
Math 31 (co)

CE 140 | CE 140L
(3 units) | (1 unit)
Transport. Eng.
*CE 1, ENGR 115, CE 101
(co), CE 9 & CE 9L, WPI*

CE 190
(3 units)
Proj. Skills
*One of: CE 130, CE 140,
CE 150, CE 160, CE 170*

CE 191
(3 units)
Senior Project
*CE 190,
Final Semester*

Chem 1E
(4 units)
Chem. for Eng.
*Diagnostic or Chem 4
Math 30 (co)*

CE 9 | CE 9L
(2 units) | (1 unit)
Surveying
Math 30 (co)

ENGR 45
(3 units)
Eng. Materials
Math 30, Chem 1E (co)

**General
Education
(English 20)**

ENGR 112
(3 units)
Mech Materials
*ENGR 30, ENGR 45,
Math 45, CE 4 (co)*

CE 160
(3 units)
Struct. Analysis
*CE 1, CE 101 (co), ENGR
112, Math 100 (35)*

CE 170 | CE 170L
(3 units) | (1 unit)
Soil Mechanics
*CE 1, ENGR 112, CE 100,
CE 101 (co), WPI*

CE Elective

**General
Education**

**General
Education**

**General
Education**

**General
Education**

CE 100
(2 units)
Eng. Geology
ENGR 112 (co)

CE 150 | CE 150L
(2 units) | (1 unit)
Princ. Env. Eng.
*CE 1, Ch 1E, ENGR 115,
CE 101 (co), WPI*

CE 151
(2 units)
Env. Eng. Prac.
CE 150

CE Elective

**General
Education**

**General
Education**

**General
Education**

**General
Education**

CE 101
(3 units)
CE Comp. App.
CE 4 (co), ENGR 30

**General
Education
(Writing Intensive)**

CE Elective

CE Elective

CE 1
(1 unit)
CE Seminar

WPI Exam
(Before any Upper
Division CE Labs)

FE Exam
(Other Topics)

FE Exam
(Civil Engineering)

17 units

17 units

16 units

15 units

14 units

16 units

16 units

13 units

2 Labs

2 Labs

2 Labs

No Labs

No Labs

2 Labs

2 Labs

2 labs

Civil Engr.
50 units

Engineering
18 units

Math/Sci.
26 units

General Ed.
30 units

Total
124 units

Effective Fall 2023

Key:
CE 4 = any underlined course signifies a lab
(co) = Prerequisite can be taken at the same time

Updated June 2023