

BS in Civil Engineering

2024-2025 Catalog

Freshman Year

Semester 1

Semester 2

Sophomore Year

Semester 1

Semester 2

Junior Year

Semester 1

Semester 2

Senior Year

Semester 1

Semester 2

Florida Poly
Design
Sequence

EGN 1006
Career Design for
STEM Disciplines
(1)

EGN 1007
Concepts and
Methods for
Eng. & CS
(1)

EGN 2001C
Skills and Design 1
(2)

Skills and Design 2
for Civil &
Environmental
Engineering
(2)

Civil Engineering Lab
1
(2)

Civil Engineering Lab
2
(3)

Civill Engineering
Design Capstone 1
(3)

Civill Engineering
Design Capstone 2
(3)

IDS 1380
Foundational
Lessons in
Applications of
Mathematics
(3)

IDS 1721
Computing &
Problem Solving for
STEM
(3)

EGN 3311
Statics
(3)

EGN 3331
Strength of Materials
(3)

Fluid Mechanics for
Civil and
Environmental
Engineers
(3)

CWR 4202
Applied Hydrology
and Hydraulics
(3)

ENV 4514
Water and
Wastewater
Treatment
(3)

ENV 4612
Sustainability in
Engineering
(3)

CHM 2045
Chemistry 1
(3)

PHY 2048
Physics 1
(3)

CHM 2046
Chemistry 2
(3)

PHY 2049
Physics 2
(3)

Civil and Construction
Engineering Materials
(3)

Introduction to
Construction
Engineering
(3)

EGN 4611
Engineering
Economics
(3)

Engineering Project
Management
(3)

CHM 2045L
Chemistry 1 Lab
(1)

PHY 2048L
Physics 1 Lab
(1)

CHM 2046L
Chemistry 2 Lab
(1)

PHY 2049L
Physics 2 Laboratory
(1)

Structural Theory
(3)

Soil Mechanics
(3)

Engineering Course
Elective
(3)

Civill Engineering
Core Elective
(3)

IB or MAC
1147 or
higher, AP
for MAC
2311

MAC 2311
Analytic Geometry
and Calculus 1
(4)

MAC 2312
Analytic Geometry
and Calculus 2
(4)

MAC 2313
Analytic Geometry
and Calculus 2
(4)

MAP 2302
Differential Equations
(3)

STA 3032
Probability and
Statistics
(3)

Arts and Humanities
Gen. Ed: Required
List
(3)

Arts, Humanities OR
Social Science Gen.
Ed.
(3)

Arts, Humanities OR
Social Science Gen.
Ed.
(3)

ENC 1101
English Composition
1
(3,W)

ENC 2210
Technical Writing
(3,W)

Social Science Gen.
Ed: Required List
(3)

ENV 2003
Foundations of
Environmental
Engineering
(3)

IDS 4941
Professional
Experience Internship
(0)



Legend:

Course Prefix &
Number | Credits |
Course Name

General Education
Elective | Credits

Program or
Concentration
Elective | Credits

C grade or better
pre-req. or passing
grade required

Course Under
Development

Civill Engineering
Core Elective
(3)

→
Critical Course
Pathway

BS in Civil Engineering

Program Electives, General Education, and Other Electives

2024-2025 Catalog

Program Electives

Mechanical/Environmental Engineering Elective List

Any 3000 or 4000 level course from ME/ENV programs for which the prerequisites are met.

Additional course details are under development and will be shared via this catalog when completed.

Civil Engineering Core Elective List

Additional course details are under development and will be shared via this catalog when completed.

General Education

Arts and Humanities

Select 3 to 6 credits from the following courses:

Required, one from the following:

- ARH 2000 - Art Appreciation Credits: 3
- HUM 2020 - Introduction to the Humanities Credits: 3
- LIT 2000 - Introduction to Literature Credits: 3
- MUL 2010 - Music Appreciation Credits: 3
- PHI 2010 - Introduction to Philosophy Credits: 3

Optional, the following or one more from Arts and Humanities required or Social Sciences:

- IDS 2144 - Legal, Ethical, and Management Issues in Technology Credits: 3
- HUM 2022 - Explorations in the Humanities Credits: 3

Social Sciences

Required, one from the following:

- AMH 2020 - American History Since 1877 Credits: 3
- POS 2041 - American Government Credits: 3
- PSY 2012 - General Psychology Credits: 3
- ECO 2013 - Principles of Macroeconomics Credits: 3

Optional, one from the following or one more from Social Science required or Arts and Humanities:

- AMH 2010 - American History to 1877 Credits: 3
- HIS 2930 - Special Topics Credits: 3
- ECO 2023 - Principles of Microeconomics Credits: 3