

NAME: _____

CIVIL ENGINEERING

UID: _____ A.A. ___ A.S. ___ Post-Bac

GENERAL EDUCATION REQUIREMENTS

Fundamental Studies

Academic Writing (AW)	ENGL 101		3
Professional Writing (PW)	ENGL 39X		3
Oral Communication (OC)			3

Distributive Studies

History/Social Sciences (HS*)			3
History/Social Sciences (HS*)			3
Humanities (HU*)			3
Scholarship in Practice (SP*) out of major			3

I-Series Courses (IS)

I-Series (IS*)			0/3
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Diversity

Understanding Plural Societies (UP*)			3
Understanding Plural Societies (UP*) OR Cultural Competency (CC*)			0/3

MAJOR REQUIREMENTS

Basic Sciences

CHEM 135-Chem Engr OR 131 & 134 -Fund & Prin			3/3&1
PHYS 161 - General Physics I (NS)			3
PHYS 260 and PHYS 261 - Gen Physics II & Lab (NL)			3 & 1
MATH 140 - Calculus I (MA/AR)			4
MATH 141 - Calculus II			4
MATH 241 - Calculus III			4
MATH 246 - Differential Equations			3
BSCI 160 or ENSP 101 or GEOL 100			3

Engineering Sciences

ENES 100 - Intro to Eng Design (SP)			3
ENES 102 - Mechanics I			3
ENES 220 - Mechanics II			3

Major Requirements

ENCE 100 - Intro to Civil Eng			1
ENCE 200 - Civil Eng Computation			3
ENCE 201 - Eng Info Processing			3
ENCE 215 - Eng for Sustainability			3
ENCE 300 - Fund of Eng Materials			3
ENCE 302 - Probability & Stat for CEE			3
ENCE 305 - Fund of Eng Fluids			3
ENCE 360 - Analysis of Civil Eng Systems			3
ENCE465 - C&Env Eng Design I			1
ENCE467 - C&Env Eng Design II			2
ENES 200 or ENEE200 - Tech & Consequence (HU/I-Series)			3

MAJOR REQUIREMENTS

Environmental & Water Resources Track

ENCE 205 - Biology for Civil & Environ Eng			3
ENCE 310 - Intro to Environ Eng			3
ENCE 411 - Environ Eng Science			3
ENCE 412 - Environ Eng Unit Operation			3
ENCE 422 - Proj Cost Acct. & Econ			3
ENCE 431 - Hydrologic Eng			3
ENCE 432 - Ground Water Hydrology			3
ENCE Breadth Elective**			3
ENCE Breadth Elective**			3
ENCE Elective**			3
Tech Elective**			3

Geotechnical/Structural Engineering Track

ENES 221 - Dynamics			3
ENCE 320 - Eng Project Management or ENCE325			3
ENCE 340 - Fund of Geotechnical Engr			3
ENCE 353 - Intro to Structural Analysis			3
ENCE 441 - Foundation Design			3
ENCE 444 - Exp Methods Geotech & Struct. Eng			3
ENCE 454 - Design Concrete Structures			3
ENCE Breadth Elective**			3
ENCE Breadth Elective**			3
ENCE Elective**			3
Tech Elective**			3

Transportation/Project Management Track

ENCE 320 - Eng Project Management or ENCE325			3
ENCE 370 - Intro to Transpt Eng & Planning			3
ENCE 402 - Simulation & Design of Experiments			3
ENCE 422 - Proj Cost Accounting & Economics			3
ENCE 423 - Proj Planning, Scheduling & Control			3
ENCE 470 - Highway Engineering			3
ENCE 472 - Transportation Eng			3
ENCE Breadth Elective**			3
ENCE Breadth Elective**			3
ENCE Elective**			3
Tech Elective**			3

Requirements for Graduation:

[Review the Graduation Checklist for graduation](#)

For Degree Clearance Only

Degree: B.S. ENCE Advisor: _____
 Date: _____ GPA/Credits: _____

* May satisfy more than one requirement. See www.gened.umd.edu
 ** See Civil Engineering Advisor for appropriate electives: www.civil.umd.edu