

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
Humanities (HU*)		3
Scholarship in Practice (SP*) out of major		3

I-Series Courses (IS)

I-Series (IS*)		0/3
I-Series (IS*)		0/3

Diversity

Understanding Plural Societies (UP*)		0/3
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
ENES 221 - Dynamics**		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

* May satisfy more than one requirement. See www.gened.umd.edu
 ** Required for Geotechnical/Structural Track Only.
 *** See Civil Engineering Advisor for appropriate electives: www.civil.umd.edu

For Degree Clearance Only

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

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 466 - Design of Civil Eng Systems		3
ENCE Breadth Elective***		3
ENCE Breadth Elective***		3
ENCE Elective***		3
ENCE Elective***		3

Geotechnical/Structural Engineering Track

ENCE 320 - Eng Project Management		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 466 - Design of Civil Eng Systems		3
ENCE Breadth Elective***		3
ENCE Breadth Elective***		3
ENCE Elective***		3
ENCE Elective***		3

Transportation/Project Management Track

ENCE 320 - Eng Project Management		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 466 - Design of Civil Eng Systems		3
ENCE 470 - Highway Engineering		3
ENCE 472 - Transportation Eng		3
ENCE Breadth Elective***		3
ENCE Breadth Elective***		3
ENCE Elective***		3
ENCE Elective***		3

Requirements for Graduation:

- Final 30 credits must be earned at UMD
- 15 of the final 30 credits must be earned at the 300-400 level
- 12 of the final 30 credits must be upper level major coursework
- A minimum 2.00 cumulative UM GPA and satisfactory completion of all degree requirements are required for graduation
- Students matriculating after Fall 2012 must have a 2.0 minimum GPA for all degree requirements, minor requirements, and undergraduate certificate requirements (Major courses are defined as: departmental courses, basic sciences, engineering sciences, specified degree tracks, technical requirements/technical electives and Professional Writing (PW))
- A minimum of 120 credits is required to earn the degree