

NAME: \_\_\_\_\_

# CIVIL ENGINEERING

UID: \_\_\_\_\_    A.A.    A.S.    Post-Bac

GENERAL EDUCATION REQUIREMENTS			
<b>Fundamental Studies</b>			
Academic Writing (AW)	ENGL 101		3
Professional Writing (PW)	ENGL 393		3
Oral Communication (OC)			3
<b>Distributive Studies</b>			
History/Social Sciences (HS*)			3
History/Social Sciences (HS*)			3
Humanities (HU*)			3
Humanities (HU*)			3
Scholarship in Practice (SP*) out of major			3
<b>I-Series Courses (IS)</b>			
I-Series (IS*)			0/3
I-Series (IS*)			0/3
<b>Diversity</b>			
Understanding Plural Societies (UP*)			0/3
Understanding Plural Societies (UP*) OR Cultural Competency (CC*)			0/3
MAJOR REQUIREMENTS			
<b>Basic Sciences</b>			
CHEM 135-Chem Engr OR 131 & 134 -Fund & Prin			3/3&1
PHYS 161 - General Physics I (NS)			3 or 4
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
<b>Engineering Sciences</b>			
ENES 100 - Intro to Eng Design (SP)			3
ENES 102 - Mechanics I			3
ENES 220 - Mechanics II			3
ENES 221 - Dynamics**			3
<b>Major Requirements</b>			
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](http://www.gened.umd.edu)  
 \*\* Required for Geotechnical/Structural Track Only.  
 \*\*\* See Civil Engineering Advisor for appropriate electives: [www.civil.umd.edu](http://www.civil.umd.edu)

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

MAJOR REQUIREMENTS			
<b>Environmental &amp; Water Resources Track</b>			
BIOE 120 - Biology for Engineers			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
<b>Geotechnical/Structural Engineering Track</b>			
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
<b>Transportation/Project Management Track</b>			
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
<b>Requirements for Graduation:</b>			
<input type="checkbox"/> Final 30 credits must be earned at UMD			
<input type="checkbox"/> 15 of the final 30 credits must be earned at the 300-400 level			
<input type="checkbox"/> 12 of the final 30 credits must be upper level major coursework			
<input type="checkbox"/> A minimum 2.00 cumulative UM GPA and satisfactory completion of all degree requirements are required for graduation			
<input type="checkbox"/> 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 ENGL 393)			
<input type="checkbox"/> A minimum of 120 credits is required to earn the degree			