

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
Mathmatics (MA)	MATH140		4
Analytic Reasoning (AR)	MATH140		0
Distributive Studies			
History/Social Sciences (HS*)			3
History/Social Sciences (HS*)			3
Humanities (HU*)			3
Humanities (HU*)	ENES/ENEE 200		3
Natural Sciences No Lab (NS)	PHYS 161		3
Natural Sciences w/Lab (NL)	PHYS 260/261		4
Scholarship in Practice (SP*) in major	ENES 100		3
Scholarship in Practice (SP*) out of major			3
Big Question Courses			
Big Question (SCIS*)	ENES/ENEE 200		0
Big Question (SCIS*)			0/3
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)			0
PHYS 260 and PHYS 261 - Gen Physics II & Lab (NL)			0
MATH 140 - Calculus I (MA/AR)			0
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)			0
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)			0

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:		
<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 upper level major credits must be earned at UMD		
<input type="checkbox"/> A minimum 2.00 cumulative UM GPA, and satisfactory completion of all degree requirements, is required for graduation		
<input type="checkbox"/> Students must have a 2.0 minimum GPA for all degree requirements, minor requirements, and undergraduate certificate requirements		
<input type="checkbox"/> A minimum of 120 credits is required to earn the degree		

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