

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 243 - Intro Linear Algebra & Diff Equations			4
BSCI160, ENCE205,ENSP101, GEOL120,GEOL123, or ECON200			3
Engineering Sciences			
ENES 100 - Intro to Eng Design (SP)			0
ENES 102 - Mechanics I			3
ENES 220 - Mechanics II			3

MAJOR REQUIREMENTS		
ENCE 202 - Eng Drawings & Design CEE		3
ENCE 203 - Data Models & Numerical Computing		3
ENCE 303 - Probability & Stat for CEE		3
ENCE 305 - Fund of Eng Fluids		3
ENCE 312 - Eng Economics & Project Mgmt		3
ENCE 336 - Environment & Water I		3
ENCE 340 - Fundamentals Geotechnical Eng		3
ENCE 342 - Structural Analysis & Design I		3
ENCE 365 - Materials in Civil Infrastructure		4
ENCE 367 - Civil Engineering Sys Optimization		4
ENCE 383 - Transporation Systems I		3
ENCE 436 - Environment & Water II		3
ENCE 442 - Structural Analysis & Design II		3
ENCE 464 - Civil & Environmental Eng Design I		2
ENCE 467 - Civil & Environmental Eng Design II		2
ENCE 483 - Transporation Systems II		3
ENCE In-Major Technical Elective**		3
ENCE In-Major Technical Elective**		3
STEM-Based Elective**		3
Open Elective**		3
ENES 200 or ENEE200 - Tech & Consequence (HU/I-Series)		0
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

Civil Engineering Sample Plan

Name: _____

UID: _____

Year 1	Fall		
Current Engineering Students: https://eng.umd.edu/services/academic-policies Prospective Engineering Students: https://lep.umd.edu/	Course	Credit	Grade
	ENES 100 (SP)	3	
	CHEM 135	3	
	MATH 140 (AR)	4	
	ENGL 101 (AW)	3	
	Science Requirement^	3	
Total		16	

Spring		
Course	Credit	Grade
ENES 102	3	
MATH 141	4	
PHYS 161 (NS)	3	
ENES/ENEE 200 (HU/SCIS)	3	
GenEd Program Requirement	3	
Total	16	

Year 2	Fall		
	Course	Credit	Grade
	ENCE 202	3	
	ENES 220	3	
	MATH 241	4	
	PHYS 260 and PHYS 261 (NL)	3 & 1	
Total		14	

Spring		
Course	Credit	Grade
ENCE 203	3	
ENCE 305	3	
MATH 243	4	
GenEd Program Requirement	3	
GenEd Program Requirement	3	
Total	16	

Year 3	Fall		
	Course	Credit	Grade
	ENCE 303	3	
	ENCE 312	3	
	ENCE 336	3	
	ENCE 365	4	
	Professional Writing (PW)	3	
Total		15	

Spring		
Course	Credit	Grade
ENCE 340	3	
ENCE 342	3	
ENCE 367	4	
ENCE 383	3	
ENCE 436	3	
Total	16	

Year 4	Fall		
Visit www.civil.umd.edu about approved electives.	Course	Credit	Grade
	ENCE In-Major Tech Elective	3	
	STEM-Based Elective (See advisor)	3	
	ENCE 442	3	
	ENCE 464	2	
	ENCE 483	3	
Total		14	

Spring		
Course	Credit	Grade
ENCE In-Major Tech Elective	3	
Open Elective (See advisor)	3	
ENCE 467	2	
GenEd Program Requirement	3	
GenEd Program Requirement	3	
Total	14	

*All students must complete two Distributive Studies courses that are approved for Big Question courses. The Understanding Plural Societies (UP) and Cultural Competence (CC) courses may also fulfill Distributive Studies categories. ^ Choose from: ENCE205, GEOL120, GEOL123, ENSP101, BSCI160, or ECON200.