

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

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

# CIVIL ENGINEERING

<b>GENERAL EDUCATION REQUIREMENTS</b>			
<b>Fundamental Studies</b>			
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
<b>Distributive Studies</b>			
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
<b>Big Question Courses</b>			
Big Question (SCIS*)	ENES/ENEE 200		0
Big Question (SCIS*)			0/3
<b>Diversity</b>			
Understanding Plural Societies (UP*)			3
Understanding Plural Societies (UP*) OR Cultural Competency (CC*)			0/3
<b>MAJOR REQUIREMENTS</b>			
<b>Basic Sciences</b>			
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
<b>Engineering Sciences</b>			
ENES 100 - Intro to Eng Design (SP)			0
ENES 102 - Mechanics I			3
ENES 220 - Mechanics II			3

<b>MAJOR REQUIREMENTS</b>		
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:**

- Final 30 credits must be earned at UMD
- 15 of the final 30 credits must be earned at the 300-400 level
- 12 upper level major credits must be earned at UMD
- A minimum 2.00 cumulative UM GPA, and satisfactory completion of all degree requirements, is required for graduation
- Students must have a 2.0 minimum GPA for all degree requirements, minor requirements, and undergraduate certificate requirements
- A minimum of 120 credits is required to earn the degree

\* May satisfy more than one requirement. See [www.gened.umd.edu](http://www.gened.umd.edu)

\*\* See Civil Engineering Advisor for appropriate electives: [www.civil.umd.edu](http://www.civil.umd.edu)

# Civil Engineering Graduation Plan

Name: \_\_\_\_\_

UID: \_\_\_\_\_

Current Engineering Students: <https://eng.umd.edu/services/academic-policies>

Prospective Engineering Students: <https://lep.umd.edu/>

Year 1	Fall		
	Course	Credit	Grade
	ENES 100 (SP)	3	
	CHEM 135	3	
	MATH 140 (AR)	4	
	ENGL 101 (AW)	3	
	Science Requirement^	3	
	<b>Total</b>	<b>16</b>	

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

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

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

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

Spring		
Course	Credit	Grade
ENCE 340	3	
ENCE 342	3	
ENCE 367	4	
ENCE 383	3	
ENCE 436	3	
<b>Total</b>	<b>16</b>	

Year 4	Fall		
	Course	Credit	Grade
	ENCE In-Major Tech Elective	3	
	STEM-Based Elective (See advisor)	3	
	ENCE 442	3	
	ENCE 464	2	
	ENCE 483	3	
	<b>Total</b>	<b>14</b>	

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	
<b>Total</b>	<b>14</b>	

\*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.

Visit [www.civil.umd.edu](http://www.civil.umd.edu) about approved electives.