

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
Scholarship in Practice (SP*) out of major			3
I-Series Courses (IS)			
I-Series (IS*)			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)			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
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)			3

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

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:

[Review the Graduation Checklist for graduation](#)

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

Geotechnical/Structural Engineering Track

Name: _____

UID: _____

Year 1	Fall		
Gateway requirements include: ENGL 101, CHEM 135, MATH 141, PHYS 161 and an approved Distributive Studies course. (Directly admitted freshman must successfully complete these courses and ENES 100 by 45 UM credits.)	Course	Credit	Grade
	ENCE 100	1	
	ENES 102	3	
	CHEM 135	3	
	MATH 140 (AR)	4	
	ENGL 101 (AW)	3	
	Total	14	

Spring		
Course	Credit	Grade
ENES100 (SP)	3	
MATH 141	4	
PHYS 161 (NS)	3	
Humanities (HU)*	3	
ORAL COMM (OC)	3	
Total	16	

Year 2	Fall		
	Course	Credit	Grade
	ENCE 200	3	
	ENES 220	3	
	MATH 241	4	
	PHYS 260 and PHYS 261 (NL)	3 & 1	
	Science Requirement	3	
	Total	17	

Spring		
Course	Credit	Grade
ENCE 201	3	
ENCE 215	3	
ENCE 305	3	
MATH 246	3	
ENES/ENEE 200 (HU/I-Series)	3	
Total	15	

Year 3	Fall		
	Course	Credit	Grade
	ENCE 300	3	
	ENCE 302	3	
	ENCE 353	3	
	ENCE 360	3	
	ENCE Breadth Elective	3	
	Total	15	

Spring		
Course	Credit	Grade
ENES 221	3	
ENCE 340	3	
ENCE Breadth Elective	3	
Professional Writing (PW)	3	
Hist & Social Sciences (HS)*	3	
Total	15	

Year 4	Fall		
	Course	Credit	Grade
	ENCE 320 or ENCE 325	3	
	ENCE 441	3	
	ENCE 444	3	
	ENCE 454	3	
	Scholarship in Practice (SP)*	3	
	ENCE465	1	
Total	16		

Spring		
Course	Credit	Grade
ENCE 467	2	
ENCE Elective (See advisor)	3	
Tech Elective (See advisor)	3	
Hist & Social Sciences (HS)*	3	
Understanding Plural Societies	3	
Total	14	

*All students must complete two Distributive Studies courses that are approved for I-series courses. The Understanding Plural Societies (UP) and Cultural Competence (CC) courses may also fulfill Distributive Studies categories.

Transportation/Project Management Track

Name: _____

UID: _____

Year 1	Fall		
Gateway requirements include: ENGL 101, CHEM 135, MATH 141, PHYS 161 and an approved Distributive Studies course. (Directly admitted freshman must successfully complete these courses and ENES 100 by 45 UM credits.)	Course	Credit	Grade
	ENCE 100	1	
	ENES 102	3	
	CHEM 135	3	
	MATH 140 (AR)	4	
	ENGL 101 (AW)	3	
	Total	14	

Spring		
Course	Credit	Grade
ENES100 (SP)	3	
MATH 141	4	
PHYS 161 (NS)	3	
Humanities (HU)*	3	
ORAL COMM (OC)	3	
Total	16	

Year 2	Fall		
	Course	Credit	Grade
	ENCE 200	3	
	ENES 220	3	
	MATH 241	4	
	PHYS 260 and PHYS 261 (NL)	3 & 1	
	Science Requirement	3	
	Total	17	

Spring		
Course	Credit	Grade
ENCE 201	3	
ENCE 215	3	
ENCE 305	3	
MATH 246	3	
ENES/ENEE 200 (HU/I-Series)	3	
Total	15	

Year 3	Fall		
	Course	Credit	Grade
	ENCE 300	3	
	ENCE 302	3	
	ENCE 360	3	
	ENCE 370	3	
	ENCE Breadth Elective	3	
	Total	15	

Spring		
Course	Credit	Grade
ENCE 320 or ENCE 325	3	
ENCE 472	3	
Professional Writing (PW)	3	
ENCE Breadth Elective	3	
Hist & Social Sciences (HS)*	3	
Total	15	

Year 4	Fall		
	Course	Credit	Grade
	ENCE 423	3	
	ENCE 470	3	
	ENCE Elective (See advisor)	3	
	Scholarship in Practice (SP)*	3	
	Understanding Plural Societies (U)	3	
	ENCE465	1	
Total	16		

Spring		
Course	Credit	Grade
ENCE 402	3	
ENCE 422	3	
ENCE 467	2	
Tech Elective (See advisor)	3	
Hist & Social Sciences (HS)*	3	
Total	14	

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Environmental/Water Resources Engineering

Name: _____

UID: _____

Year 1	Fall		
Gateway requirements include: ENGL 101, CHEM 135, MATH 141, PHYS 161 and an approved Distributive Studies course. (Directly admitted freshman must successfully complete these courses and ENES 100 by 45 UM credits.)	Course	Credit	Grade
	ENCE 100	1	
	ENES 102	3	
	CHEM 135	3	
	MATH 140 (AR)	4	
	ENGL 101 (AW)	3	
	Total	14	

Spring		
Course	Credit	Grade
ENES100 (SP)	3	
MATH 141	4	
PHYS 161 (NS)	3	
Humanities (HU)*	3	
ORAL COMM (OC)	3	
Total	16	

Year 2	Fall		
	Course	Credit	Grade
	ENCE 200	3	
	ENES 220	3	
	MATH 241	4	
	PHYS 260 and PHYS 261 (NL)	3 & 1	
	Science Requirement	3	
	Total	17	

Spring		
Course	Credit	Grade
ENCE 201	3	
ENCE 215	3	
ENCE 305	3	
MATH 246	3	
ENES/ENEE 200 (HU/I-Series)	3	
Total	15	

Year 3	Fall		
	Course	Credit	Grade
	ENCE 302	3	
	ENCE 310	3	
	ENCE 360	3	
	ENCE 205	3	
	ENCE Breadth Elective	3	
	Total	15	

Spring		
Course	Credit	Grade
ENCE 300	3	
ENCE 431	3	
Professional Writing (PW)	3	
ENCE Breadth Elective	3	
Hist & Social Sciences (HS)*	3	
Total	15	

Year 4	Fall		
	Course	Credit	Grade
	ENCE 411	3	
	ENCE 432	3	
	ENCE Elective (See advisor)	3	
	Hist & Social Sciences (HS)*	3	
	ENCE 465	1	
	Understanding Plural Societies (U)	3	
Total	16		

Spring		
Course	Credit	Grade
ENCE 412	3	
ENCE 422	3	
ENCE 467	2	
Tech Elective (See advisor)	3	
Scholarship in Practice (SP)*	3	
Total	14	

*All students must complete two Distributive Studies courses that are approved for I-series courses. The Understanding Plural Societies (UP) and Cultural Competence (CC) courses may also fulfill Distributive Studies categories.