CIVIL ENGINEERING

Four-Semester Transfer Sequence for UMCP

UNIVERSITY OF MARYLAND			MONTGOMERY COLLEGE			
Semester 1						
ENCE 100	Intro to Civil Eng*	1	CHEM 135	Gen Chem for Eng (or CHEM 132)	4	
ENES 102	Mechanics I (Statics)	3	ENGL 102	Critical Reading, Writing & Research	3	
CHEM 135	Gen Chemistry for Engineers	3	ENES 100	Intro. to Engineering Design	3	
MATH 140	Calculus I	4	MATH 181	Calculus I	4	
ENGL 101	Intro to Writing	<u>3</u>				
Total Credits		14	Total Credits		14	
Semester 2						
ENES 100	Intro. to Engineering Design	3	ENES 102	Statics	3	
MATH 141	Calculus II	4	MATH 182	Calculus II	4	
PHYS 161	Physics I	3	PHYS 161	Physics I	3	
	Gen. Ed. Requirements**	3	General Educ	eation Distribution Course**	3	
	Gen. Ed. Requirements**	<u>3</u>	Gen. Ed. Hun	nanities COMM 108 recommended**	3	
Total Credits		16	Total Credits		16	
Semester 3						
ENCE 200	Civil Eng. Computation*	3	ENES 220	Mechanics of Materials	3	
ENES 220	Mechanics II	3	MATH 280	Multivariable Calculus	4	
MATH 241	Calculus III	4	PHYS 262	Physics II	4	
PHYS 260/1	Physics II/Lab	4	General Educ	cation Distribution Course**	3	
	Science Requirement****	<u>3</u>	ENCE 200	Civil Eng. Comp MTAP	3	
Total Credits		17	Total Credits		17	
Semester 4						
ENCE 201	Eng. Info. Processing****	3	ENES 221	Dynamics (or ENES 120)***	3	
ENCE 215	Engineering for Sustainability*	3	ENES 240	Scientific & Eng. Computation****	3	
ENCE 305	Fundamentals of Eng. Fluids *	3	MATH 282	Differential Equations	3	
MATH 246	Differential Equations	3	PHYS 263	Physics III**** (or Sci Requirement)	4	
	Gen. Ed. Requirements**	<u>3</u>		cation Distribution Course**	<u>3</u>	
Total Credits		15	Total Credits		16	
GRAND TOTAL		62	GRAND TOTAL		63	

Civil Engineering (Environmental/Water Res. Track)

Civil Engineering (Geotechnical/Structures Track)

Civil Engineering (Transportation Track)

MC AS Civil Engineering Curriculum

Maryland Transfer Advantage Program (MTAP): Students planning transfer to UMCP should enroll in MTAP as soon as possible. Benefits include access to advising transfer advising at UMCP and tuition discounts on courses taken through MTAP at UMCP.

^{*}ENCE 100, 200, 215, 305 for which MC has no equivalents, must be completed after transfer or through MTAP.

^{**} Follow this link for information about the 4-year programs General Education requirements at UMCP.

^{***} ENES221 is only required for Geotechnical/Structures Track at UMCP. Students pursuing Environmental/Water Resources Track should take BIOL 120 for UMCP. Transportation Track may opt to take BIOL105, BIOL151, or GEOL101 to fulfill non-major science requirement.

^{****} BIOL105/106, BIOL151, or GEOL101 Science Requirement at UMCP instead of PHYS 263. PHYS 263 may be required at other schools including Georgia Tech.

^{*****} ENES240 is equivalent to ENCE201 at UMCP as indicated in ARTSYS.

CIVIL ENGINEERING

Suggested Five-Semester Transfer Sequence for UMCP

Semester 1			Semester 1	Curriculum Prerequisites*	
CHEM 131	Principles of Chemistry I ¹	4	CHEM 099	Introductory Chemistry ²	C
ENGL 101	Intro. to College Writing	3	MATH 050	Foundations of Algebra ³	C
ENES 100	Intro. to Engineering Design	3	MATH 098	Intro to Trigonometry ³	C
MATH 165	Precalculus	4		, , , , , , , , , , , , , , , , , , ,	
Total Credits		14			
Semester 2			Courses Us	sually Offered During Summer Terms*	
CHEM 132	Principles of Chemistry II ¹	4	CHEM 131	Principles of Chemistry I	4
ENGL 102	Crit. Read., Writ. & Research	3	CHEM 132	Principles of Chemistry II	Δ
MATH 181	Calculus I	4	ENGL 102	Critical Reading, Writing & Research	3
	cation Distribution Course	3	ENES 100	Introduction to Engineering Design	3
Total Credits		14	MATH 181	Calculus I	4
Total Civalis		• •	MATH 182	Calculus II	4
			MATH 280	Multivariable Calculus	4
			MATH 282	Differential Equations	3
			PHYS 161	Physics I	3
Semester 3				•	
MATH 182	Calculus II	4			
PHYS 161	Physics I	3			
ENES 102	Statics	3			
General Education Distribution Course		_3		Advising Notes	
Total Credits		13		Travising Trotes	
			¹CHEM 1	31/132 may be more appropriate than	
Semester 4				35 for students who are taking MATH	
ENES 220	Mechanics of Materials	3	050/MAT		
MATH 280	Multivariable Calculus	4			
PHYS 262	Physics II	4	² CH 099	or a passing score on the Chemistry	
ENCE 200	Civil Eng. Comp MTAP	3		t exam is required for CHEM 131 or	
	ation Distribution Course	<u>3</u>	CHEM13		
Total Credits		17			
			³ MATH 0	050 and MATH 098 or equivalents are	
				ites for MATH 165.	
Semester 5					
	Dynamics (or ENES 120)	3	Students t	taking the American English Language	
	Scientific & Eng. Computation	3		ELAW)/American English Language	
	Differential Equations	3		(ELAR) course sequence should meet	
	Physics III (or Science Req.)	4		ngineering advisor to determine	
	ation Distribution Course	_3		te math, physics, and engineering course	
Total Credits		16	enrollmer		

GRAND TOTAL 77**

*Students may meet prerequisites for first-semester curriculum courses by either successfully completing appropriate coursework in high school or achieving qualifying scores on SAT, AP, IB, or Accuplacer assessments. Students needing to complete prerequisites to first-semester curriculum may consider taking summer term courses. **Note: ENGL 101 and MATH 165 do not transfer as part of the BS engineering degree requirements at UMCP.

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