COMPUTER ENGINEERING

Four-Semester Transfer Sequence for UMCP

	UNIVERSITY of MARYLAND	•	MONTGOMERY COLLEGE		
Semester 1		_			
CHEM 135	Gen Chemistry for Engineers	3	CHEM 135	Chemistry for Engineers	4
				(or CHEM 132 Prin. of Chemistry II)	
ENEE 101	Intro to Elec. & Comp. Eng.*	3	ENGL 102	Critical Reading, Writing & Research	3
MATH 140	Calculus I	4	ENES 100	Intro. to Engineering Design	3
CMSC 131	Object Oriented Program. I**	4	MATH 181	Calculus I	4
ENGL 101	Intro to Writing	<u>3</u>	T . 1 C . 1'.		1.4
Total Credits		1 /	Total Credits		14
Semester 2					
CMSC 132	Object Oriented Program. II**	4	CMSC 203	Computer Science I**	4
MATH 141	Calculus II	4	MATH 182	Calculus II	4
ENES 100	Intro. to Engineering Design	3	PHYS 161	Physics I	3
PHYS 161	Physics I	3	General Educ	cation Distribution Course***	3
	Gen. Ed. Requirements***	<u>3</u>	General Education Distribution Course***		<u>3</u>
Total Credits		17	Total Credits		17
g					
Semester 3 ENEE 222	Discrete Signal Analysis	4	CMSC 204	Computer Science II**	4
ENEE 222 ENEE 244	Digital Logic Design	3	ENEE 244	Digital Logic Design	3
CMSC 250	Intro to Discrete Structures	4	MATH 282	Differential Equations	3
MATH 246	Differential Equations	3	PHYS 262	Physics II	4
PHYS 260/1	Physics II/Lab	3 <u>4</u>		nanities COMM 108 recommended***	
Total Credits	•	18	Total Credits		<u>3</u>
Total Cicuits		10	Total Cicuits		1/
Semester 4					
ENEE 205	Electric Circuits	4	CMSC 207	Intro to Discrete Structures	4
ENEE 245	Digital Circuits and Systems	2	ENEE 207	Electric Circuits	4
CMSC 216	Intro to Computer Systems*	4	ENEE 222	Discrete Signal Analysis	4
	Comp Eng. Technical Elective	3	ENEE 245	Digital Circuits and Systems Lab	2
	Gen. Ed. Requirements***	<u>3</u>		cation Distribution Course***	<u>3</u>
Total Credits		16	Total Credits	Total Credits	
GRAND TOTAL		68	GRAND TOTAL#		65
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 $[\]underline{UMCP\ BS\ Computer\ Engineering\ Curriculum}$

MC AS Computer Engineering Curriculum

[#] Students completing these courses will have four general education courses to transfer.

^{*} MC does not have courses equivalent to UMCP ENEE 101 Intro to Elec. & Comp. Eng. or CMSC 216 Intro to Computer Systems.

^{**} Students completing MC courses CMSC 203 and CMSC 204 during the 2018-2019 or 2019-2020 academic years will be able to transfer these to UMCP as equivalent to CMSC 131 and CMSC 132. Students who previously completed these courses may take an assessment test to place out of these courses or take these courses through MTAP prior to transfer.

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

COMPUTER 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	(
ENGL 101	Intro. to College Writing	3	MATH 050	Foundations of Algebra ³	(
ENES 100	Intro. to Engineering Design	3	MATH 098	Intro to Trigonometry ³	(
MATH 165	Precalculus	_4			
Total Credit	S	<u>4</u> 14			
Semester 2			Courses Us	sually Offered During Summer Terms*	•
CHEM 132	Principles of Chemistry II ¹	4	CHEM 131	Principles of Chemistry I	2
ENGL 102	Crit. Read., Writing & Research	3	CHEM 132	Principles of Chemistry II	2
MATH 181	_	4	CMSC 140	Introduction to Programming	3
General Education Distribution Course		<u>3</u>	ENEE 244	Digital Logic Design	3
Total Credits		14	ENGL 102	Crit. Read., Writing & Research	?
			ENES 100	Introduction to Engineering Design	3
Semester 3			MATH 165	Precalculus	4
	Calculus II	4	MATH 181	Calculus I	4
PHYS 161	Physics I	3	MATH 182	Calculus II	4
	Computer Science I**	4	MATH 280	Multivariable Calculus	4
General Education Distribution Course		3	MATH 282	Differential Equations	3
Total Credit	man. COMM 108 recommended*	* 3	PHYS 161	Physics I	
Total Credit	5	1 /			
Semester 4				A 1 · · · · N /	_
CMSC 204	Computer Science II	4		Advising Notes	
MATH 282	Differential Equations	3	ICHEM 1	21/122 may be more engagined than	
PHYS 262	Physics II	4		31/132 may be more appropriate than 35 for students who are taking MATH	
ENEE 244	Digital Logic Design	3	050/MAT		
	cation Distribution Course	<u>3</u>	030/WA1	11076.	
Total Credits		$\Gamma /$	² CHEM 0	² CHEM 099 or a passing score on the Chemistry	
				t exam is required for CHEM 131 or	
g			CHEM 13	*	
Semester 5	Intro to Discrete Structures	4			
CMSC 207 ENEE 207	Electric Circuits	4 4	³ MATH 0	050 and MATH 098 or equivalents are	
ENEE 207 ENEE 222	Elem. of Disc. Sig. Analysis	4	prerequisites for MATH 165.		
ENEE 245	Dig. Circuits & Systems Lab	2			
Total Credits	•	14		taking the AELW/AELR course sequence	Э
Total Cledits		14		eet with an engineering advisor to	
				appropriate math, physics, and	
GRAND TOTAL		76**	engineerii	ng course enrollments.	
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^{*}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.