## COMPUTER ENGINEERING

Four-Semester Transfer Sequence for UMCP

Note: This optimized transfer sequence DOES NOT satisfy the MC AS degree requirements.

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)	
<b>ENEE</b> 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>			
Total Credits		17	Total Credits	3	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
<b>ENES 100</b>	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 Educ	cation Distribution Course**	<u>3</u>
Total Credits		17	Total Credits		17
Semester 3	*	.			
CMSC 216	Intro to Computer Systems*	4	CMSC 204	Computer Science II*	4
CMSC 250	Intro to Discrete Structures	4	ENEE 244	Digital Logic Design	3
PHYS 260/1	Physics II/Lab	4	MATH 282	Differential Equations	3
ENEE 244	Digital Logic Design Tech.	3	PHYS 262	Physics II	4
			General Education Distribution Course**		<u>3</u>
Total Credits		15	Total Credits	<b>S</b>	17
G					
Semester 4	D: :: 10: :: 10	2	C) 40C 207	I D'	
ENEE 245	Digital Circuits and Systems	2	CMSC 207	Intro to Discrete Structures	4
<b>ENEE 205</b>	Electric Circuits	4	ENEE 207	Electric Circuits	4
ENEE 222	Discrete Signal Analysis	4	ENEE 222	Discrete Signal Analysis	4
MATH 246	Differential Equations	3	ENEE 245	Digital Circuits and Systems Lab	2
m 1 ~ ::	Gen. Ed. Requirements***	<u>3</u>		cation Distribution Course**	<u>3</u>
Total Credits		16	Total Credits		17
GRAND TOTAL		65	GRAND TOTAL#		65

UMCP BS Computer Engineering Curriculum

MC AS Computer Engineering Curriculum

<sup>\*</sup> MC does not have a course equivalent to UMCP ENEE 101 Intro to Elec. & Comp. Eng. or CMSC 216 Intro to Computer Systems.

<sup>\*\*</sup> MC courses CMSC 203 and CMSC 204 do not transfer to UMCP as equivalent to CMSC 131 and CMSC 132. Students planning to transfer to UMCP may take an assessment test to place out of these courses or take these courses through MTAP prior to transfer.

<sup>\*\*\*</sup> Follow this link for information about the 4-year programs General Education requirements at UMCP.

## COMPUTER ENGINEERING

Suggested Five-Semester Transfer Sequence for UMCP

Note: This optimized transfer sequence DOES NOT satisfy the MC AS degree requirements.

Semester 1			Semester	1 Curriculum Prerequisites*	
CHEM 131	Principles of Chemistry I <sup>1</sup>	4	CHEM 099	Introductory Chemistry <sup>2</sup>	0
ENGL 101	Tech. of Reading & Writing I	3	MATH 096	Intermediate Algebra <sup>3</sup>	0
<b>ENES</b> 100	Intro. to Engineering Design	3	MATH 098	Intro to Trigonometry <sup>3</sup>	0
MATH 165	Precalculus	_4		,	
Total Credits	S	14			
Semester 2			Courses U	sually Offered During Summer Terms	*
CHEM 132	Principles of Chemistry II <sup>1</sup>	4	CHEM 131	Principles of Chemistry I	4
ENGL 102	Crit. Read., Writing & Research	3	<b>CHEM 132</b>	Principles of Chemistry II	4
MATH 181		4	<b>ENEE 244</b>	Digital Logic Design	3
General Edu	cation Distribution Course	_3	ENGL 102	Crit. Read., Writing & Research	3
Total Credits	S	14	<b>ENES</b> 100	Introduction to Engineering Design	3
			MATH 165	Precalculus	4
Semester 3			MATH 181	Calculus I	4
MATH 182		4	MATH 182	Calculus II	4
PHYS 161	Physics I	3	MATH 282	Differential Equations	3
	Computer Science I	4	PHYS 161	Physics I	3
	cation Distribution Course	3			
Total Credits	cation Distribution Course	<u>3</u>			
Total Credit	S	1/		Advising Notes	
Semester 4			lower	121/122	
CMSC 204	Computer Science II	4		131/132 may be more appropriate than	
MATH 282	Differential Equations	3	096/MA7	35 for students who are taking MATH	
<b>PHYS 262</b>	Physics II	4	096/MA	1 H098.	
<b>ENEE 244</b>	Digital Logic Design	3	<sup>2</sup> CHEM (	200 on a massing seems on the Chemistry	
General Education Distribution Course		_3		1999 or a passing score on the Chemistry at exam is required for CHEM 131 or	
Total Credits		17	CHEM 1		
Semester 5					
CMSC 207	Intro to Discrete Structures	4		096 and MATH 098 or equivalents are	
<b>ENEE 207</b>	Electric Circuits	4	prerequis	ites for MATH 165.	
<b>ENEE 222</b>	Elem. of Disc. Sig. Analysis	4			
<b>ENEE 245</b>	Dig. Circuits & Systems Lab	2		taking the AELW/AELR course sequenc	e
Total Credits		14		eet with an engineering advisor to	
				e appropriate math, physics, and	
GRAND TOTAL		76**	engineeri	ng course enrollments.	

<sup>\*</sup>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.