ELECTRICAL 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	
ENEE 140	Intro. to Prog. Concepts	2	ENEE 140	Intro. to Prog. Concepts for Engineers	2	
ENGL 101	Intro to Writing	3	MATH 181	Calculus I	4	
Total Credits		15	Total Credits		16	
Semester 2						
ENEE 150	Intermediate Prog. Concepts	3	ENEE 150	Intermediate Prog. Concepts for Eng.	3	
ENES 100	Intro. to Engineering Design	3	ENEE 244	Digital Logic Design	3	
MATH 141	Calculus II	4	MATH 182	Calculus II	4	
PHYS 161	Physics I	3	PHYS 161	Physics I	3	
11115 101	Gen. Ed. Requirements**	_3		cation Distribution Course**	3	
Total Credits		16	Total Credits		16	
Semester 3						
ENEE 244	Digital Logic Design Tech.	3	ENEE 222	Elements of Discrete Signal Analysis	4	
ENEE 222	Discrete Signal Analysis	4	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	
Gen. Ed. Requirements** 3		_3	Gen. Ed. Humanities COMM 108 recommended**		<u>3</u>	
Total Credits		18	Total Credits		18	
G						
Semester 4	Disital Circuits and Santana	2	ENIEE 207	Electric Circuits	4	
ENEE 245	Digital Circuits and Systems	2	ENEE 207		4	
ENEE 205	Electric Circuits	4	ENEE 245	Digital Circuits and Systems Lab	2	
MATH 246	Differential Equations	3	MATH 282	Differential Equations	3	
PHYS 270/1	Physics III/Lab	4	PHYS 263	General Physics III	4	
Tatal Cas l'	Gen. Ed. Requirements**	3		cation Distribution Course**	<u>3</u>	
Total Credits		16	Total Credits		16	
GRAND TOTAL		65	GRAND TO	TAL#	66	
OMMU IVIAL		•			50	

UMCP BS Electrical Engineering Curriculum

MC AS Electrical Engineering Curriculum

^{*} Students completing these courses will have four general education courses to transfer.

^{*} MC does not have a course equivalent to UMCP ENEE 101 Intro to Elec. & Comp. Eng.

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

GRAND TOTAL

ELECTRICAL 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	0
ENGL 101	Intro. to College Writing	3	MATH 050	Foundations of Algebra ³	0
ENES 100	Intro. to Engineering Design	3	MATH 098	Intro to Trigonometry ³	0
MATH 165	Precalculus	_4			
Total Credit	S	14			
Semester 2			Courses Us	ually Offered During Summer Terms	ė
CHEM 132	Principles of Chemistry II ¹	4	CHEM 131	Principles of Chemistry I	4
ENGL 102	Crit. Read., Writing & Research	3	CHEM 132	Principles of Chemistry II	4
MATH 181	Calculus I	4	ENEE 140	Intro to Prog Concepts for Eng	2
	cation Distribution Course	_3	ENEE 244	Digital Logic Design	3
Total Credits		14	ENGL 102	Crit. Read., Writing & Research	3
			ENES 100	Introduction to Engineering Design	3
Semester 3			MATH 165	Precalculus	4
MATH 182		4	MATH 181	Calculus I	4
PHYS 161	Physics I	3	MATH 182	Calculus II	4
ENEE 140	Intro to Prog Concepts for Eng	2	MATH 280	Multivariable Calculus	4
	cation Distribution Course	3	MATH 282	Differential Equations	3
	man. COMM 108 recommended**	<u>3</u>	PHYS 161	Physics I	3
Total Credit	8	13			
Semester 4					\neg
ENEE 150	Interm Prog Concepts for Eng	3		Advising Notes	
MATH 280	Multivariable Calculus	4	1000000		
PHYS 262	Physics II	4		31/132 may be more appropriate than	
ENEE 244	Digital Logic Design	3		85 for students who are taking MATH	
	cation Distribution Course	<u>3</u>	050/MAT	H098.	
Total Credits		17	2011514.0	00	
				99 or a passing score on the Chemistry	
			CHEM 13	t exam is required for CHEM 131 or	
Semester 5			CHEMITS	55.	
ENEE 207	Electric Circuits	4	3MATH 0	50 and MATH 008 or aquivalents are	
ENEE 222	Elem. of Disc. Sig. Analysis	4		³ MATH 050 and MATH 098 or equivalents are prerequisites for MATH 165.	
ENEE 245	Dig. Circuits & Systems Lab	2 3	prerequisi	ics for WATTI 103.	
MATH 282	Differential Equations		Students t	aking the AELW/AELR course sequenc	e
PHYS 263	Physics III	<u>4</u> 17		eet with an engineering advisor to	٦
Total Credits		1/		appropriate math, physics, and	
				ng course enrollments.	
				0	

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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.