COMPUTER ENGINEERING

Four-Semester Transfer Sequence for UMCP

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

UNIVERSITY of MARYLAND

Semester 1		
CHEM 135	Gen Chemistry for Engineers	3
ENES 100	Intro. to Engineering Design	3
MATH 140	Calculus I	4
CMSC 131	Object Oriented Program. I	4
ENGL 101	Intro to Writing	3
Total Credits		17
Semester 2		
CMSC 132	Object Oriented Program. II	4
MATH 141	Calculus II	4
ENEE 244	Digital Logic Design	3
PHYS 161	Physics I	3
	Gen. Ed. Requirements**	3
Total Credits		17
Semester 3		
CMSC 216	Intro to Computer Systems	4
CMSC 250	Intro to Discrete Structures	4
ENEE 200	Social/Ethical Issues of Eng.	3
ENEE 245	Digital Circuits and Systems	2
PHYS 260/1	Physics II/Lab	4
Total Credits		17
Semester 4		
CMSC 330	Organization of Prog. Langs.	3
ENEE 205	Electric Circuits	4
ENEE 222	Discrete Signal Analysis	4
MATH 246	Differential Equations	3
	Gen. Ed. Requirements**	3
Total Credits		17
GRAND TOTAL		**64**

UMCP BS Computer Engineering Curriculum

MONTGOMERY COLLEGE

CHEM 135	Gen Chemistry for Engineers w/lab	4
ENGL 102	Techniques of Reading & Writing II	3
ENES 100	Intro. to Engineering Design	3
MATH 181	Calculus I	4
Total Credits		14
CMSC 203	Computer Science I*	4
MATH 182	Calculus II	4
PHYS 161	Physics I	3
General Education Distribution Course**		3
General Education Distribution Course**		3
Total Credits		17
CMSC 204	Computer Science II*	4
ENEE 244	Digital Logic Design	3
MATH 282	Differential Equations	3
PHYS 262	Physics II	4
General Education Distribution Course**		3
Total Credits		17
CMSC 207	Intro to Discrete Structures	4
ENEE 207	Electric Circuits	4
ENEE 222	Discrete Signal Analysis	4
ENEE 245	Digital Circuits and Systems Lab	2
General Education Distribution Course**		3
Total Credits		17
GRAND TOTAL#		**65**

MC AS Computer Engineering Curriculum

* 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.

** 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

CHEM 131	Principles of Chemistry I[1]	4
ENGL 101	Tech. of Reading & Writing I	3
ENES 100	Intro. to Engineering Design	3
MATH 165	Precalculus	4
Total Credits		14

Semester 2

CHEM 132	Principles of Chemistry II[1]	4
ENGL 102	Tech. of Reading & Writing II	3
MATH 181	Calculus I	4
General Education Distribution Course		3
Total Credits		14

Semester 3

MATH 182	Calculus II	4
PHYS 161	Physics I	3
CMSC 203	Computer Science I	4
General Education Distribution Course		3
General Education Distribution Course		3
Total Credits		17

Semester 4

CMSC 204	Computer Science II	4
MATH 282	Differential Equations	3
PHYS 262	Physics II	4
ENEE 244	Digital Logic Design	3
General Education Distribution Course		3
Total Credits		17

Semester 5

CMSC 207	Intro to Discrete Structures	4
ENEE 207	Electric Circuits	4
ENEE 222	Elem. of Disc. Sig. Analysis	4
ENEE 245	Dig. Circuits & Systems Lab	2
Total Credits		14

GRAND TOTAL **76****

Semester 1 Curriculum Prerequisites*

CHEM 099A	Introductory Chemistry[2]	0
MATH 096	Intermediate Algebra[3]	0
MATH 098	Intro to Trigonometry[3]	0

Courses Usually Offered During Summer Terms*

CHEM 131	Principles of Chemistry I	4
CHEM 132	Principles of Chemistry II	4
ENEE 244	Digital Logic Design	3
ENGL 102	Techniques of Reading & Writing II	3
ENES 100	Introduction to Engineering Design	3
MATH 165	Precalculus	4
MATH 181	Calculus I	4
MATH 182	Calculus II	4
MATH 282	Differential Equations	3
PHYS 161	Physics I	3

Advising Notes

[1]CHEM 131/132 may be more appropriate than CHEM 135 for students who are taking MATH 096/MATH098.

[2]CHEM 099A or a passing score on the Chemistry placement exam is required for CHEM 131 or CHEM 135.

[3]MATH 096 and MATH 098 or equivalents are prerequisites for MATH 165.

Students taking the AELW/AELR course sequence should meet with an engineering advisor to determine appropriate math, physics, and engineering course enrollments.

*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.