

Degree Requirements			Curriculum Notes	
<b>Total Credits:</b> 125 <b>Major Credits:</b> 97 <b>Minimum Cumulative GPA:</b> 2.0 <b>Minimum Major GPA:</b> 2.0			<ul style="list-style-type: none"> <li>This plan assumes no AP/IB/CLEP or transfer credit and foreign language proficiency up to the 201 level</li> <li><b>This major can provide all upper-level (300 or 400) credits toward the 45-total needed to earn a UMBC degree.</b></li> <li>Gateway information <a href="http://advising.coeit.umbc.edu/gateway-information/cmpe-gateway/">http://advising.coeit.umbc.edu/gateway-information/cmpe-gateway/</a></li> <li>Unless designated, electives can be taken within or outside of the major</li> </ul> <p>For complete information on degree requirements, reference the Undergraduate Course Catalog (<a href="http://catalog.umbc.edu">catalog.umbc.edu</a>). Your personal program of study may vary.</p>	
FALL SEMESTER			SPRING SEMESTER	
Freshman	Course	Credits	Course	Credits
	CMSC 201 Computer Science I for Majors	4	CMSC 202 Computer Science II for Majors	4
	PHYS 121 Introductory Physics I	4	MATH 151 Calculus & Analytic Geometry II	4
	MATH 151 (MATH GEP) Calculus & Analytic Geometry I	4	CMPE 211 Principles of Digital Design	4
	ENGL 100/110 Composition	3	ENES 101 Introduction to Engineering	3
	<b>Total:</b>	15	<b>Total:</b>	15
Sophomore	Course	Credits	Course	Credits
	AH GEP	3	CMPE 306 Introductory Circuit Theory (Lab)	4
	AH GEP	3	MATH 225 Introduction to Differential Equations	3
	MATH 251 Multivariable Calculus	4	CMPE 310 Systems Design & Programming	4
	PHYS 122 Introductory Physics II	4	CMSC 341 Data Structures	3
	CMSC 203 Discrete Structures	3		
	<b>Total:</b>	17	<b>Total:</b>	14
Junior	Course	Credits	Course	Credits
	AH GEP	3	CMPE 320 Probability, Statistics & Random Processes	3
	Science Elective (Major)	4	CMSC 421 Principles of Operating Systems	3
	CMPE 314 Principles of Electronic Circuits	4	CMPE 415 FPGA Arch & Applications	3
	CMPE 311 C Programming & Embedded Systems	3	CMPE 349 Intro. to Prof. Practice, WI	2
	MATH 221 Linear Algebra	3	<del>STAT 355</del>	3
	<b>Total:</b>	17	<b>Total:</b>	15.5
Senior	Course	Credits	Course	Credits
	CMPE 315 Principles of VLSI Design	4	CMPE 451 Capstone II	2
	CMSC 411 Computer Architecture	3	<del>Science Elective List C - See advisor</del>	3
	CMPE 450 Capstone I	2	<del>Physics 220</del>	4
	CMSC 426 Principles of Computer Security	3	<del>CLEP</del>	3
	<del>SE-EP</del>	3	CMSC 481 Computer Networks	3
	<del>SE-EP</del>	3	<del>Applied 5.1 location (not included in the total credits for graduation)</del>	1.5
	<b>Total:</b>	18	<b>Total:</b>	16.5