

Computer Engineering Four Year Academic Plan

Name: _____

UID: _____

Year 1	Fall		
Gateway requirements include: ENGL 101, CHEM 135, MATH 141, PHYS 161 and an approved Distributive Studies course. (Directly admitted freshman must successfully complete these courses and ENES 100 by 45 UM credits.)	Course	Credit	Grade
	CHEM 135	3	
	CMSC 131	4	
	ENEE 101**	3	
	MATH 140 (AR)	4	
	ENGL 101 (AW)	3	
	Total	17	

Spring		
Course	Credit	Grade
ENES 100 (SP)**	3	
CMSC 132	4	
PHYS 161 (NS)	3	
MATH 141	4	
ORAL COMM (OC)	3	
Total	17	

Year 2	Fall		
	Course	Credit	Grade
	ENEE 244	3	
	MATH 246	3	
	PHYS 260 and PHYS 261 (NL)	4	
	ENEE 222	4	
	CMSC 250	4	
	Total	18	

Spring		
Course	Credit	Grade
Comp Eng. Tech Elec.	3	
ENEE 205	4	
CMSC 216	4	
ENEE245	2	
Humanities (HU)*	3	
Total	16	

Year 3	Fall		
	Course	Credit	Grade
	ENEE 303	3	
	ENEE 322	3	
	ENEE 350	3	
	CMSC 330	3	
	Hist & Social Sciences (HS)*	3	
	Total	15	

Spring		
Course	Credit	Grade
ENEE 307	2	
ENEE 324	3	
ENEE 446	3	
CMSC 351	3	
Hist & Social Sciences (HS)*	3	
Humanities (HU)*	3	
Total	17	

Year 4	Fall		
	Course	Credit	Grade
	Comp Eng. Tech Elec.	3	
	CMSC 4xx	3	
	ENEE 4xx	3	
	ENEE 4xx	3	
	Scholarship in Practice (SP)*	3	
	Total	15	

Spring		
Course	Credit	Grade
CMSC 412 or ENEE 447	4	
ENEE 4xx	2	
Comp Eng. Tech Elec.	3	
Comp Eng. Tech Elec.	3	
ENGL 393 (PW)	3	
Total	15	

*All students must complete two Distributive Studies courses that are approved for I-series courses. The Understanding Plural Societies and Cultural Competence courses may also fulfill Distributive Studies categories.

**ENEE101 and ENES100 cannot be taken in the same semester. Students may take these courses consecutively within their first year in the order of choice.

NAME: _____

COMPUTER ENGINEERING

UID: _____ A.A. ___ A.S.E. ___ Post-Bac

GENERAL EDUCATION REQUIREMENTS			
Fundamental Studies			
Academic Writing (AW)	ENGL 101		3
Professional Writing (PW)	ENGL 393		3
Oral Communication (OC)			3
Distributive Studies			
History/Social Sciences (HS*)			3
History/Social Sciences (HS*)			3
Humanities (HU*)			3
Humanities (HU*)			3
Scholarship in Practice (SP*) out of major			3
I-Series			
I-Series (IS*)			0/3
I-Series (IS*)			0/3
Diversity			
Understanding Plural Societies (UP*)			0/3
Understanding Plural Societies (UP*) OR Cultural Competency (CC*)			0/3
MAJOR REQUIREMENTS			
Basic Sciences			
CHEM 135-Chem Engr OR 131 & 134 -Fund & Prin			3/3&1
PHYS 161 - General Physics I (NS)			3
PHYS 260 and 261 - Gen Physics II & Lab (NL)			3 & 1
MATH 140 - Calculus I (MA/AR)			4
MATH 141 - Calculus II			4
MATH 246 - Differential Equations			3
Engineering Sciences			
ENES 100 - Intro to Eng Design (SP)			3

MAJOR REQUIREMENTS		
CMSC 131 – Object Oriented Programming II**		0
CMSC 132 – Object Oriented Programming II		4
CMSC 216 – Intro to Computer Systems		4
CMSC 250 – Intro to Discrete Structures		4
CMSC 330 – Organization of Progr Languages		3
CMSC 351 – Algorithms		3
CMSC 412 – Operating Systems		4
ENEE 101 - Intro to Electrical & Comp Engr		3
ENEE 205 – Electric Circuits		4
ENEE 222 – Elements of Discrete Signals		4
ENEE 244 – Digital Logic Design		3
ENEE 245 – Digital Circuits & Systems Lab		2
ENEE 303 – Analog & Digital Electronics		3
ENEE 307 – Electronic Circuit Design Lab		2
ENEE 322 – Signal & System Theory		3
ENEE 324 – Eng Probability		3
ENEE 350 – Computer Organization		3
ENEE 446 – Digital Computer Design		3
Computer Engineering Electives*** (22) credits required		
Category A (min 6 crs; 3 crs at 300/400 lvl):		3
Category A:		3
Category B:		3
Category C:		3
Category D:		2
Category E:		3
Category F:		3
Elective (Category A-F or Free Elective):		4

* May satisfy more than one requirement. See www.gened.umd.edu
 ** Students must successfully complete CMSC 131 or the CMSC 131 Exemption Exam prior to enrolling in CMSC 132.
 *** For a complete list of approved electives, please see: www.ece.umd.edu/home

For Degree Clearance Only	
Degree: B.S. COMP	Advisor: _____
Date: _____	GPA/Credits: _____

Requirements for Graduation:
<input type="checkbox"/> Final 30 credits must be earned at UMD
<input type="checkbox"/> 15 of the final 30 credits must be earned at the 300-400 level
<input type="checkbox"/> 12 of the final 30 credits must be upper level major coursework
<input type="checkbox"/> A minimum 2.00 cumulative UM GPA and satisfactory completion of all degree requirements are required for graduation
<input type="checkbox"/> Students matriculating after Fall 2012 must have a 2.0 minimum GPA for all degree requirements, minor requirements, and undergraduate certificate requirements
<i>(Major courses are defined as: departmental courses, basic sciences, engineering sciences, specified degree tracks, technical requirements/ technical electives and ENGL 393)</i>
<input type="checkbox"/> A minimum of 120 credits are required to earn the degree