

# Computer Engineering Four Year Academic Plan

Name: \_\_\_\_\_

UID: \_\_\_\_\_

Year 1		Fall			Spring		
		Course	Credit	Grade	Course	Credit	Grade
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.)		CHEM 135	3		ENES 100 (SP)**	3	
		CMSC 131	4		CMSC 132	4	
		ENEE 101**	3		PHYS 161 (NS)	3	
		MATH 140 (AR)	4		MATH 141	4	
		ENGL 101 (AW)	3		ORAL COMM (OC)	3	
		Total	17		Total	17	
Year 2		Fall			Spring		
		Course	Credit	Grade	Course	Credit	Grade
		ENEE 244	3		Comp Eng. Tech Elec.	3	
		MATH 246	3		ENEE 205	4	
		PHYS 260 and PHYS 261 (NL)	4		CMSC 216	4	
		ENEE 222	4		ENEE245	2	
		CMSC 250	4		Humanities (HU)*	3	
		Total	18		Total	16	
Year 3		Fall			Spring		
		Course	Credit	Grade	Course	Credit	Grade
		ENEE 303	3		ENEE 307	2	
		ENEE 322	3		ENEE 324	3	
		ENEE 350	3		ENEE 446	3	
		CMSC 330	3		CMSC 351	3	
		Hist & Social Sciences (HS)*	3		Hist & Social Sciences (HS)*	3	
		Total	15		Humanities (HU)*	3	
					Total	17	
Year 4		Fall			Spring		
		Course	Credit	Grade	Course	Credit	Grade
		Comp Eng. Tech Elec.	3		CMSC 412 or ENEE 447	4	
		CMSC 4xx	3		ENEE 4xx	2	
		ENEE 4xx	3		Comp Eng. Tech Elec.	3	
		ENEE 4xx	3		Comp Eng. Tech Elec.	3	
		Scholarship in Practice (SP)*	3		ENGL 393 (PW)	3	
		Total	15		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			
<b>Fundamental Studies</b>			
Academic Writing (AW)	ENGL 101		3
Professional Writing (PW)	ENGL 393		3
Oral Communication (OC)			3
<b>Distributive Studies</b>			
History/Social Sciences (HS*)			3
History/Social Sciences (HS*)			3
Humanities (HU*)			3
Humanities (HU*)			3
Scholarship in Practice (SP*) out of major			3
<b>I-Series</b>			
I-Series (IS*)			0/3
I-Series (IS*)			0/3
<b>Diversity</b>			
Understanding Plural Societies (UP*)			0/3
Understanding Plural Societies (UP*) OR			0/3
Cultural Competency (CC*)			
MAJOR REQUIREMENTS			
<b>Basic Sciences</b>			
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
<b>Engineering Sciences</b>			
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
<b>Computer Engineering Electives*** (22) credits required</b>		
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](http://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](http://www.ece.umd.edu/home)**For Degree Clearance Only**

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

**Requirements for Graduation:**

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