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 39X		3
Oral Communication (OC)			3
Mathmatics (MA)	MATH 140		4
Analytic Reasoning (AR)	MATH 140		0
Distributive Studies			
History/Social Sciences (HS*)			3
History/Social Sciences (HS*)			3
Humanities (HU*)	ENEE 200		3
Humanities (HU*)			3
Natural Sciences No Lab (NS)	PHYS 161		3
Natural Sciences w/Lab (NL)	PHYS 260/261		4
Scholarship in Practice (SP*) in major	ENES 100		3
Scholarship in Practice (SP*) out of major			3
Big Question Courses			
Big Question (SCIS*)	ENEE 200		0
Big Question (SCIS*)			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)		0
PHYS 260 and 261 - Gen Physics II & Lab (NL)		0
MATH 140 - Calculus I (MA/AR)		0
MATH 141 - Calculus II		4
ENEE 290 - Intro Diff Equations & Linear Algebra Engrs		4
Engineering Sciences		
ENES 100 - Intro to Eng Design (SP)		0

* May satisfy more than one requirement. See www.gened.umd.edu

** Students are required to complete CMSC131 prior to taking CMSC132 unless they have AP credit for CMSC131 (5 on the JAVA A exam, 4 or 5 on the JAVA AB) or have satisfactorily passed the Computer Science exemption exam.

*** For a complete list of approved electives, please see: www.ece.umd.edu/home

MAJOR REQUIREMENTS		
CMSC 131 – Object Oriented Programming I**		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 **or** ENEE447– Operating Systems		4
ENEE 101 - Intro to Electrical & Comp Engr		3
ENEE 200 - Engineering Ethics (HU/IS)		0
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 304 **or** ENEE 322		3
ENEE 324 **or** STAT400		3
ENEE 350 – Computer Organization		3
ENEE 446 – Digital Computer Design		3
Computer Engineering Electives* ** (26) credits required		
Category A (min 6 crs; 3 crs at 300/400 lvl):		3
Category A:		3
Category B:		3
Category C:		3
Category C:		3
Category D:		2
Category E:		3
Category F:		3
Elective (Category A-F or Free Elective):		3

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 Professional Writing (PW)

- ☐ A minimum of 120 credits are required to earn the degree

Updated Fall 2024

Computer Engineering Graduation Plan

Name:_____ **UID:**_____

Year 1	Fall			Spring		
Current Engineering Students: https://eng.umd.edu/services/academic-policies Prospective Engineering Students: https://lep.umd.edu/	***Course***	***Credit***	***Grade***	***Course***	***Credit***	***Grade***
	CHEM 135	3		ENES 100 (SP)*	3	
	CMSC 131 ***	4		CMSC 132	4	
	ENEE 101*	3		PHYS161 (NS)	3	
	MATH 140 (AR/MA)	4		MATH 141	4	
	ENGL 101 (AW)	3		ORAL COMM (OC)	3	
	Total	**17**			**17**	

Year 2	Fall			Spring		
	Course	***Credit***	***Grade***	***Course***	***Credit***	***Grade***
	ENEE 244	3		ENEE 222	4	
	ENEE 290	4		ENEE 205	4	
	PHYS 260 and PHYS 261 (NL)	3 & 1		CMSC 216	4	
	CMSC 250	4		ENEE 245	2	
	Humanities (HU)**	3		HIST & SOC SCIENCE (HS)**	3	
	Total	**18**		**Total**	**17**	

Year 3	Fall			Spring		
	Course	***Credit***	***Grade***	***Course***	***Credit***	***Grade***
	ENEE 200 (HU/SCIS)	3		ENEE 324 or STAT400	3	
	ENEE 304 or ENEE 322	3		ENEE 446	3	
	ENEE 350	3		CMSC 351	3	
	CMSC 330	3		CpE Tech El: CAT A	3	
	CpE Tech El: CAT A	3		Hist & Social Sciences (HS)**	3	
	Total	**15**		**Total**	**15**	

Year 4	Fall			Spring		
	Course	***Credit***	***Grade***	***Course***	***Credit***	***Grade***
	CMSC4xx: CAT B	3		ENEE 4xx: CAT D	2	
	ENEE 4xx: CAT C	3		CpE Tech El: CAT E	3	
	ENEE 4xx: CAT C	3		CMSC 412 or ENEE 447	4	
	CpE Tech El: CAT F	3		CpE Tech Elective	3	
	Scholarship in Prac (SP)**	3		Professional Writing (PW)	3	
	Total	**15**		**Total**	**15**	

*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.

** All students must complete two distributive studies courses that are approved Big Question courses. The Understanding Plural Societies & Cultural Competence courses may also fulfill Distributive Studies categories.

*** Students are required to complete CMSC131 prior to taking CMSC132 unless they have AP credit for CMSC131 (5 on the JAVA A exam, 4 or 5 on the JAVA AB) or have satisfactorily passed the Computer Science exemption exam.