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
Distributive Studies		
History/Social Sciences (HS*)		3
History/Social Sciences (HS*)		3
Humanities (HU*)		3
Scholarship in Practice (SP*) out of major		3
I-Series		
I-Series (IS*)		0/3
Diversity		
Understanding Plural Societies (UP*)		0/3
Understanding Plural Societies (UP*) OR		0/3
Cultural Competency (CC*)		
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 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)		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 **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

* 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:_____   Credits/GPA: _____

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

Computer Engineering Four Year Academic Plan

Name:_____   **UID:**_____

Year 1	Fall			Spring		
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	
	MATH 246	3		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	17		**Total**	17	

Year 3	Fall			Spring		
	Course	*Credit*	*Grade*	*Course*	*Credit*	*Grade*
	ENEE 200 (HU/IS)	3		ENEE 324 or STAT400	3	
	ENEE 303 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 I-Series courses. The Understanding Plural Societies & Cultural Competence courses may also fulfill Distributive Studies categories.