NAME: _____

ELECTRICAL 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 mj			3
Big Question Courses			
Big Question (SCIS*)	ENEE 200		0
Big Question (SCIS*)			3
Diversity			
Understanding Plural Societies (UP*)			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 PHYS 261 - Gen Physics II & Lab (NL)			0
PHYS 270 and PHYS 271 - Gen Physics III & Lab			3 & 1
MATH 140- Calculus I (MA/AR)			0
MATH 141 - Calculus II			4
MATH 241 - Calculus III			4
ENEE 290 - 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

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

Major Requirements		
ENEE 150 – Intermed Prog Concepts*		3
*Students must successfully complete ENEE140 OR exemption prior to enrolling.		
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 Signal		4
ENEE 244 – Digital Logic Design		3
ENEE 245 – Digital Circuits and Systems		2
ENEE 304 – Micro & Nanoelectronics		3
ENEE 305 – Micro & Nanoelectronics Lab		2
ENEE 323 - Signals & Systems: Theory & Applicatns		4
ENEE 324 – Eng Probability		3
ENEE 350 – Computer Organization		3
ENEE 382 - Electromagnetics		4
Required ENEE Technical Electives (22 credits)		
Category A: Adv. Theory & Applications:		3
Category B: Advanced Laboratory:		2-3
Category C: Capstone Design:		3
Upper-level ENEE Elective		2
Upper-level ENEE Elective		3
Upper-level ENEE Elective		3
Upper-level ENEE Elective		3
Upper-level ENEE Elective		3

A minimum of 22 credits of 300/400-level ENEE electives must be completed and at least two courses must be selected from a single area of specialization. For a complete list of approved ENEE elective, areas of specialization and minimum credit requirements for each category, please see: http://www.ece.umd.edu/home

General Technical Elective**		
General Technical Electives**		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 upper level major credits must be earned at UMD
- ☐ A minimum 2.00 cumulative UM GPA, and satisfactory completion of all degree requirements, is required for graduation
- ☐ Students matriculating in Fall 2012 or after 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 is required to earn the degree

Electrical 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		ENEE 150	3	
	ENEE 140†	2		ENES 100 (SP)*	3	
	ENEE 101*	3		MATH 141	4	
	MATH 140 (AR/MA)	4		PHYS 161 (NS)	3	
	ENGL 101 (AW)	3		ORAL COMM (OC)	3	
	Total	**15**		**Total**	**16**	

Year 2	Fall			Spring		
	Course	***Credit***	***Grade***	***Course***	***Credit***	***Grade***
	ENEE 290	4		ENEE 205	4	
	ENEE 244	3		ENEE 222	4	
	MATH 241	4		ENEE 245	2	
	PHYS 260 and PHYS 261	3 & 1		PHYS 270 and PHYS 271	3 & 1	
				Hist & Social Sci (HS)**	3	
	Total	**15**		**Total**	**17**	

Year 3	Fall			Spring		
	Course	***Credit***	***Grade***	***Course***	***Credit***	***Grade***
	ENEE 304	3		ENEE 200 (HU/IS)	3	
	ENEE 323	4		ENEE 305	2	
	ENEE 350	3		ENEE 324	3	
	Upper-level GenTech Elective	3		ENEE 382	4	
	Hist & Soc Sciences (HS)**	3		Humanities (HU)**	3	
	Total	**16**		**Total**	**15**	

Year 4	Fall			Spring		
	Course	***Credit***	***Grade***	***Course***	***Credit***	***Grade***
	ENEE 4xx - CAT A	3		ENEE 4xx - CAT C	3	
	ENEE 4xx - CAT B	2		ENEE 4xx - ENEE Elective	3	
	ENEE 4xx - ENEE Elective	3		ENEE 4xx - ENEE Elective	3	
	ENEE 4xx - ENEE Elective	3		ENEE 4xx - ENEE Elective	2	
	Schlrshp in Prac (SP-non maj)	3		ENGL 39x (PW)	3	
	Total	**14**		**Total**	**14**	

*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.

† Students are required to complete ENEE140 prior to taking ENEE150 unless they have AP credit for CMSC131 (5 on the JAVA A exam, 4 or 5 on the JAVA AB) or have satisfactorily passedthe ENEE150 Placement Exam.

** 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.

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