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 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*)		3
I-Series Courses		
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 for Eng		3
PHYS 161 - General Physics I (NS)		3
PHYS 260 and PHYS 261 - Gen Physics II & Lab (NL)		3 & 1
PHYS 270 and PHYS 271 - Gen Physics III & Lab		3 & 1
MATH 140- Calculus I (MA/AR)		4
MATH 141 - Calculus II		4
MATH 241 - Calculus III		4
MATH 246 - Differential Equations		3
Engineering Sciences		
ENES 100 - Intro to Eng Design (SP)		3

* 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

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

Major Requirements		
ENEE 150 – Intermed Prog Concepts*		3
*Students must successfully complete ENEE140 OR exemption prior to enrolling.		
ENEE 101– Introduction to ECE		3
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 303 – Analog & Digital Electronics		3
ENEE 307 – Electronic Circuit Design Lab		2
ENEE 313 – Intro Device Physics		3
ENEE 322 – Signal & System Theory		3
ENEE 324 – Eng Probability		3
ENEE 350 – Computer Organization		3
ENEE 380 – Electromagnetic Theory		3
ENEE 381 – Electromagnetic Wave Propagation		3
Required ENEE Technical Electives (13 credits)		
Category A: Adv. Theory & Applications:		3
Category B: Advanced Laboratory:		2-3
Category C: Capstone Design:		3
Category A-C:		3
Category A-C:		1-3

A minimum of 13 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 Electives**		
MATH 4xx - Technical Math Elective**		3
General Technical Electives**		3
General Technical Electives**		3
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 ENGL 393)*
☐ A minimum of 120 credits is required to earn the degree

Electrical Engineering Four Year Academic Plan

Name:_____   **UID:**_____

Year 1	Fall				Spring		
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*		*Course*	*Credit*	*Grade*
	CHEM 135	3			ENEE 150*	3	
	ENES 100 (SP)	3			ENEE 101	3	
	MATH 140 (AR)	4			MATH 141	4	
	ENGL 101 (AW)	3			PHYS 161 (NS)	3	
					ORAL COMM (OC)	3	
	Total	**13**			**Total**	**16**	

Year 2	Fall				Spring		
	Course	*Credit*	*Grade*		*Course*	*Credit*	*Grade*
	ENEE 205	4			ENEE 222	4	
	ENEE 244	3			ENEE 245	2	
	MATH 241	4			MATH 246	3	
	PHYS 260 and PHYS 261 (NL)	3 & 1			PHYS 270 and PHYS 271	3 & 1	
	Scholarship in Practice (SP)*	3			Humanities (HU)*	3	
	Total	**18**			**Total**	**16**	

Year 3	Fall				Spring		
	Course	*Credit*	*Grade*		*Course*	*Credit*	*Grade*
	ENEE 303	3			ENEE 307	2	
	ENEE 313	3			ENEE 324	3	
	ENEE 322	3			ENEE 350	3	
	ENEE 380	3			ENEE 381	3	
	MATH 4XX Elective	3			Hist & Social Sciences (HS)*	3	
	Total	**15**			**Total**	**14**	

Year 4	Fall				Spring		
	Course	*Credit*	*Grade*		*Course*	*Credit*	*Grade*
	ENEE Upper Tech Elective	3			ENEE Upper Tech Elective	3	
	ENEE Upper Tech Elective	4			ENEE Upper Tech Elective	3	
	Upper-level Gen. Tech Elec	3			Upper-level Gen. Tech Elec	3	
	ENGL 393 (PW)	3			Upper-level Gen. Tech Elec	3	
	Humanities (HU)*	3			Hist & Social Sciences (HS)*	3	
	Total	**16**			**Total**	**15**	

*Students may need to take ENEE 140 or an exemption exam before taking ENEE150

**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.