

NAME: \_\_\_\_\_

# ELECTRICAL 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
Scholarship in Practice (SP*) out of mj			3
<b>I-Series</b>			
I-Series (IS*)			0/3
<b>Diversity</b>			
Understanding Plural Societies (UP*)			0/3
Understanding Plural Societies (UP*) OR Cultural Competency (CC*)			0/3
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 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
<b>Engineering Sciences</b>			
ENES 100 - Intro to Eng Design (SP)			3

\* May satisfy more than one requirement. See [www.gened.umd.edu](http://www.gened.umd.edu)

\*\*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. ENEE	Advisor: _____
Date: _____	Credits/GPA: _____

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)		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
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General Technical Electives**		3

Requirements for Graduation:
<input type="checkbox"/> Final 30 credits must be earned at UMD
<input type="checkbox"/> 15 of the final 30 credits must be earned at the 300-400 level
<input type="checkbox"/> 12 upper level major credits must be earned at UMD
<input type="checkbox"/> A minimum 2.00 cumulative UM GPA, and satisfactory completion of all degree requirements, is required for graduation
<input type="checkbox"/> 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)
<input type="checkbox"/> A minimum of 120 credits is required to earn the degree

# Electrical Engineering Four Year Academic Plan

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

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

Year 1	Fall		
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
	CHEM 135	3	
	ENEE 140	2	
	ENEE 101*	3	
	MATH 140 (AR/MA)	4	
	ENGL 101 (AW)	3	
	<b>Total</b>	<b>15</b>	

Spring		
Course	Credit	Grade
ENEE 150	3	
ENES 100 (SP)*	3	
MATH 141	4	
PHYS 161 (NS)	3	
ORAL COMM (OC)	3	
<b>Total</b>	<b>16</b>	

Year 2	Fall		
	Course	Credit	Grade
	ENEE 222	4	
	ENEE 244	3	
	MATH 241	4	
	PHYS 260 and PHYS 261 (NL)	4	
	ENEE 200 (HU/IS)	3	
	<b>Total</b>	<b>18</b>	

Spring		
Course	Credit	Grade
ENEE 205	4	
ENEE 245	2	
MATH 246	3	
PHYS 270 and PHYS 271	3 & 1	
Humanities (HU)**	3	
<b>Total</b>	<b>16</b>	

Year 3	Fall		
	Course	Credit	Grade
	ENEE 303	3	
	ENEE 322	3	
	ENEE 350	3	
	ENEE 380	3	
	Hist & Soc Sciences (HS)**	3	
	<b>Total</b>	<b>15</b>	

Spring		
Course	Credit	Grade
ENEE 307	2	
ENEE 313	3	
ENEE 324	3	
ENEE 381	3	
Hist & Soc Sciences (HS)**	3	
ENGL 393 (PW)	3	
<b>Total</b>	<b>17</b>	

Year 4	Fall		
	Course	Credit	Grade
	ENEE 4xx - CAT A	3	
	ENEE 4xx - CAT B	2	
	ENEE 4xx - Upper Tech Electiv	3	
	Upper-level Gen. Tech Elec	3	
	MATH 4xx Elective	3	
	<b>Total</b>	<b>14</b>	

Spring		
Course	Credit	Grade
ENEE 4xx - CAT C	3	
ENEE 4xx - Upper Tech Elec	3	
Upper-level Gen. Tech Elec	3	
Upper-level Gen. Tech Elec	3	
Scholarship in Prac (SP)**	3	
<b>Total</b>	<b>15</b>	

\*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.