

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 39X		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 Professional Writing (PW))
<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		
<a href="https://lep.umd.edu/">https://lep.umd.edu/</a>	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	4	
PHYS 270 and PHYS 271	3 & 1	
Humanities (HU)**	3	
<b>Total</b>	<b>17</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	
Professional Writing (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 Elective	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.