ELECTRICAL ENGINEERING - Class of 2018

15

Total Credits = 120 -123

Freshman Year Fall Semester

Course Code	Description	Cr	
CHM 101	General Chemistry I Lec [GE-N]	3	
CHM 102	General Chemistry I Lab	1	
ECN 201	Principles of Microeconomics [GE-S]	3	
EGR 105	Foundations of Engineering I	1	
MTH 141	Intro Calculus w/Analytic Geom [GE-мQ]	4	
	General Education Elective*	3	

Freshman Year Spring Semester

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Course Code	Description	Cr	
CSC 200	Computer Problem Solving	4	
EGR 106	Foundations of Engineering II	2	
ELE 101	Intro to Electrical Engineering	1	
MTH 142	Intermed Calc with Analytic Geom [GE-MQ]	4	
PHY 203	Elementary Physics I Lect [GE-N]	3	
PHY 273	Elementary Physics I Lab [GE-N]	1	

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Sophomore Year Fall Semester

Course Code	Description	Cr	
ELE 201	Digital Circuit Design	3	
ELE 202	Digital Circuit Design Lab	1	
MTH 362	Advanced Engineering Mathematics I	3	
PHY 204	Elementary Physics II Lec [GE-N]	3	
PHY 274	Elementary Physics II Lab [GE-N]	1	
	General Education Elective*	3	
	General Education Elective*	3	
		17	

Sophomore Year Spring Semester

ELE 205 Microprocessors 2 ELE 206 Microprocessor Lab 1 ELE 212 Linear Circuit Theory 3 ELE 215 Linear Circuits Lab 2 MTH 243 Calculus for Functions of Several Vars 3 PHY 205 Elementary Physics III Lec [GE-N] 3	Course Code	Description	Cr	
ELE 212 Linear Circuit Theory 3 ELE 215 Linear Circuits Lab 2 MTH 243 Calculus for Functions of Several Vars 3	ELE 205	Microprocessors	2	
ELE 215 Linear Circuits Lab 2 MTH 243 Calculus for Functions of Several Vars 3	ELE 206	Microprocessor Lab	1	
MTH 243 Calculus for Functions of Several Vars 3	ELE 212	Linear Circuit Theory	3	
	ELE 215	Linear Circuits Lab	2	
PHY 205 Elementary Physics III Lec [GE-N] 3	MTH 243	Calculus for Functions of Several Vars	3	
	PHY 205	Elementary Physics III Lec [GE-N]	3	
PHY 275 Elementary Physics III Lab [GE-N] 1	PHY 275	Elementary Physics III Lab [GE-N]	1	

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Junior Year Fall Semester

Course Code	Description	Cr	
ELE 313	Linear Systems	3	
ELE 331	Intro to Solid State Devices	4	
ELE 338	Electronics I	3	
ELE 339	Electronics I Lab	1	
MTH 451 or ISE 411	Intro to Probability and Statistics or Probability and Statistics for Engineers	3	

Junior Year Spring Semester

Course Code	Description	Cr	
ELE 301	Electronic Design Automation	3	
ELE 302	Electronic Design Automation Lab	1	
ELE 314	Linear Systems and Signals	3	
ELE 322	Electromagnetic Fields I	4	
ELE 343	Electronics II	3	
ELE 344	Electronics II Lab	1	
		4.5	

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Senior Year Fall Semester

Course Code	Description	Cr	
ELE 400	Intro to Professional Practice	1	
ELE 480	Capstone Design I	3	
	Professional Elective**	4	
	Professional Elective**	3-4	
	Professional Elective**	3-4	
		14	-16

Senior Year Spring Semester

Course Code	Description	Cr	
ELE 481	Capstone Design II	3	
	Professional Elective**	3-4	
	General Education Elective*	3	
	General Education Elective*	3	
	Free Elective	3	
		15 -16	

* Note the following specific requirements and restrictions for General Education [GE] electives:

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- -Refer to specific Electrical Engineering General Education course requirements (see 2018 ELE Check Sheet).
- -[GE-EC/ECw] Must take at least six (6) credits of General Education [GE-EC/Ecw], with at least one (1) course in writing, [GE-ECw].
- -[GE-ECw] Can only take one (1) of the following 100-level writing courses for General Education credit [GE-ECw]: WRT 104, WRT 105, WRT 106.
- ** Professional Electives: See the Class of 2018 Electrical, Computer, and Biomedical Engineering Undergraduate Student Handbook.

Name ID#

ELECTRICAL ENGINEERING - Class of 2018

120-123 Credits

	SPECIFIED MATH, SCIENCE						AND ENGINEERING COURSES						
INTRODUCTORY ENGINEERING					ENGINEERING SCIENCE AND DESIGN								
Sem	Course	Cr	Grade	QP	Note	Sem	Course	Cr	Grade	QP	Note		
	EGR 105	1					ELE 101	1					
	EGR 106	2					ELE 201	3					
		3					ELE 202	1					
	MATHEMATICS						ELE 205	2					
	MTH 141 [GE-MQ]	4					ELE 206	1					
	MTH 142 [GE-MQ]	4					ELE 212	3					
	MTH 243	3					ELE 215	2					
	MTH 362	3					ELE 301	3					
	MTH 451 or ISE 411	3					ELE 302	1					
		17					ELE 313	3					
	NATURAL SCIENCES						ELE 314	3					
	CHM 101 [GE-N]	3					ELE 322	4					
	CHM 102	1					ELE 331	4					
	PHY 203 [GE-N]	3					ELE 338	3					
	PHY 273 [GE-N]	1					ELE 339	1					
	PHY 204 [GE-N]	3					ELE 343	3					
	PHY 274 [GE-N]	1					ELE 344	1					
	PHY 205 [GE-N]	3					ELE 400	1					
	PHY 275 [GE-N]	1					ELE 480 [capstone]	3					
							ELE 481 [capstone]	3					
	16							46					
	COMPUTER SCIENCE						*PROFESSIONAL E	LECTI	VES				
	CSC 200	4						4					
								3-4					
								3-4					
								3-4					
		4						13-16					
			ENED	AI DI	MCAT	TON IC	GE COURSES						
		G		AL LI	JUCAI	ION IG							
	BREADTH At least one course in <i>each</i> of the Gen Ed Areas					A	DEPTH At least one additional course in 3 Remainder are taken in <i>any</i> (18		
Sem	Course	Cr	Grade	QP	Note	Sem	Course	Cr	Grade	QP	Note		
	**English Communication	-Writin	g [GE-EC	w]			Natural Sciences	[GE-N]					
	WRT	3					Satisfied by Required Courses	12					
	Mathematical and Quantitative Reasoning [GE-MQ]					Mathematical and Quantitative Reasoning [GE-MQ]							
	Satisfied by MTH 141	4					Satisfied by MTH 142	4					
	Fine Arts & Literat	ure [GE	[-A]				*** O 1122	e r					
	3						**One additional course	trom: E	C/ECw				
	Foreign Language/Cu	lture [G	E-FC]				[GE-EC/ECw]	3					
					Free Electiv	ve							
	Letters [GE-	L]						3					
		3					Other Courses (not for	degree (credit)				
	Natural Sciences	[GE-N]											
	Satisfied by CHM 101	3											
	Social Sciences	[GE-S]											
	ECN 201	3											
	•	•					,	•					

 $^{{\}bf *\ Professional\ Electives:}\ See\ the\ Class\ of\ 2018\ Electrical,\ Computer,\ and\ Biomedical\ Engineering\ Undergraduate\ Student\ Handbook.$

^{**} Note the following *specific* requirements and restrictions for General Education [GE] electives:

^{-[}GE-EC/ECw] Must take at least six (6) credits from General Education [GE-EC/ECw], with at least one (1) course in writing [GE-ECw].

^{-[}GE-ECw] Can only take *one (1)* of the following 100-level writing courses for General Education credit [GE-ECw]: WRT 104, WRT 105, WRT 106.