

B.S. in Electrical Engineering

Freshman Year	Credits	
	Fall	Spring
University Seminar	3	
M 171Q - Calculus I	4	
PHSX 220 - Physics I with Calculus	4	
EELE 101 - Introduction to Electrical Fundamentals	3	
WRIT 101W - College Writing I		3
PHSX 222 - Physics II with Calculus		4
M 172 - Calculus II		4
EELE 261 - Intro To Logic Circuits		4
Year Total:	14	15
Sophomore Year	Credits	
	Fall	Spring
M 274 - Introduction to Differential Equation	4	
Select two of the following (M221, PHSX224, or CHMY 141&142)	7-8	
M 221 - Introduction to Linear Algebra		
PHSX 224 - Physics III		
CHMY 141 - College Chemistry I		
CHMY 142 - College Chemistry I Lab		
EELE 201 - Circuits I for Engineering	4	
University Core Elective		3
EGEN 350 - Applied Engineering Data Analysis		2
M 273 - Multivariable Calculus		4
EELE 203 - Circuits II for Engineering		4
CSCI 109 - C for Engineers and Scientists		3
Year Total:	15	16
Junior Year	Credits	
	Fall	Spring
University Core Elective*	3	
EELE 308 - Signals and Systems Analysis	4	
EELE 317 - Electronics	4	
EELE 371 - Microprocess HW and SW Systems	4	
EELE 334 - Electromagnetic Theory I	3	
EELE 321 - Introduction To Feedback Controls		3
EELE 355 - Energy Conversion Devices		4
Two EE Professional Electives*		6
Non-EE Professional Elective		3
Year Total:	18	16
Senior Year	Credits	
	Fall	Spring
University Core Elective	3	
EELE 488R - Electrical Engineering Design I	3	
Two EE Professional Electives*	6	
Non-EE Professional Elective*	3	
University Core Elective*		3
EELE 489R - Electrical Engr Design II		3
EELE 487 - Prof, Ethics & Engr Practices		1
EGEN 488 - Fundamentals of Engineering Exam		0

EE or Non-EE Professional Elective*		3
Two EE Professional Elective*		6
Year Total:	15	16
Total Program Credits:		125

* Elective requirements include 18 credits of University Core electives designated University Seminar, Writing, Humanities, Social science, Diversity, and Arts classes, 27 credits of professional electives with a minimum of 18 credits in Electrical Engineering and a minimum of 6 credits outside of Electrical Engineering all from the professional electives list below. There must be a minimum of 11 credits at the 300 level or above in the student's professional electives package.

Professional Electives

ACTG 201	Principles of Financial Accounting	3
ACTG 202	Principles of Managerial Accounting	3
ASTR 371	Solar System Astronomy	4
ASTR 373	Extragalactic Astronomy	3
BCH 380 & BCH 381	Biochemistry and Biochemistry Lab	5
BIOB 105CS	Introduction to Biotechnology	3
BIOB 160	Principles of Living Systems	4
BIOB 170IN	Principles of Biological Diversity	4
BIOH 185	Integrated Physiology I	4
BIOH 201	Human Anatomy and Physiology I	5
BIOH 211	Human Anatomy and Physiology II	4
BIOM 103IN	Unseen Universe: Microbes	3
BMKT 325	Principles of Marketing	3
CHMY 143 & CHMY 144	College Chemistry II and College Chemistry II Lab	4
CHMY 211 & CHMY 212	Elements of Organic Chemistry and Elements of Organic Chemistry Lab	5
CHMY 321 & CHMY 322	Organic Chemistry I and Organic Chemistry I Lab	4
CHMY 323 & CHMY 324	Organic Chemistry II and Organic Chemistry II Lab	4
CSCI 132	Basic Data Structures and Algorithms	4
CSCI 232	Data Structures and Algorithms	4
CSCI 246	Discrete Structures	3
CSCI 300 & 400 level courses,	no more than 1 cr CSCI 494	
EBME 410	Fundamentals of Bioelectronics for Bioinstrumentation	4
ECNS 309	Managerial Economics	3
EELE 300 & 400 level courses,	excluding EELE 354	
EGEN 200, 300, & 400 level courses		
EIND 300 & 400 level courses		
EMEC 300 & 400 level courses		
ERTH 101IN	Earth System Sciences	4
ESOF 300 & 400 level courses		
GPHY 121D	Human Geography	3
GPHY 141D	Geography of World Regions	3
GPHY 284	Intro to GIS Science & Cartog	3
M 242	Methods of Proof	3
M 300 & 400 level courses,	excluding M 330	
PHSX 300 & 400 level courses (no more than 1 cr PHSX 494),	and excluding PHSX 305RN and PHSX 499R	

WRIT 221	Intermediate Tech Writing	3
WRIT 429	Professional Writing	3