

ELECTRICAL ENGINEERING, BACHELOR OF SCIENCE

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Curriculum

Course	Title	Hours	Completed
Freshman			
Fall			
CHEM 2124 & CHEM 2120	General Chemistry I and General Chemistry I Lab	4	_____
ELEG 1011	Introduction to Electrical Engineering	1	_____
ENGL 1013	Composition I ¹	3	_____
FAH 1XXX	Fine Arts and Humanities Courses ¹	3	_____
MATH 2914	Calculus I	4	_____
TECH 1001	Orientation to the University	1	_____
	Hours	16	
Spring			
COMS 1011 & COMS 1013	Programming Foundations I Lab and Programming Foundations I	4	_____
ELEG 2130 & ELEG 2134	Digital Logic Design Lab and Digital Logic Design	4	_____
ENGL 1023	Composition II ¹	3	_____
MATH 2924	Calculus II	4	_____
	Hours	15	
Sophomore			
Fall			
COMS 2203	Programming Foundations II	3	_____
ELEG 2103	Electric Circuits I	3	_____
ELEG 3133	Microprocessor Systems Design	3	_____
MATH 3243	Differential Equations I	3	_____
PHYS 2114 & PHYS 2000	Calculus-Based Physics I and Physics Laboratory I	4	_____
	Hours	16	
Spring			
ELEG 2111	Electric Circuits Laboratory	1	_____
ELEG 2113	Electric Circuits II	3	_____
MATH 2934	Calculus III	4	_____
STAT 3153	Applied Statistics	3	_____
PHYS 2124 & PHYS 2010	Calculus-Based Physics II and Physics Laboratory II	4	_____
	Hours	15	
Junior			
Fall			
ELEG/MCEG 3003	System Modeling and Analysis	3	_____
ELEG 3103	Electronics I	3	_____
ELEG 3153	Electrical Machines	3	_____
Electrical Engineering Elective ³		3	_____

Technical Elective ²		3	
Hours		15	
Spring			
ELEG 3123	Signals and Systems	3	_____
ELEG 3143	Electromagnetics	3	_____
ELEG 4103	Electronics II	3	_____
ELEG/MCEG 4202	Engineering Design	2	_____
MATH 2703	Discrete Mathematics	3	_____
Hours		14	
Senior			
Fall			
ELEG 4113	Digital Signal Processing	3	_____
ELEG 4143	Communication Systems I	3	_____
ELEG 4191	Electrical Design Project I	1	_____
ELEG 4303	Control Systems	3	_____
SS 1XXX	Social Science Courses ¹	3	_____
USHG 1XXX	U.S. History and Government ¹	3	_____
Hours		16	
Spring			
ELEG 4122	Electrical Systems Lab	2	_____
ELEG 4192	Electrical Design Project II	2	_____
Electrical Engineering Elective ³		3	_____
FAH 1XXX	Fine Arts and Humanities Courses ¹	3	_____
Technical Elective ²		3	_____
Hours		13	
Total Hours		120	

¹ See appropriate alternatives or substitutions in "General Education Requirements (<https://catalog.atu.edu/undergraduate/general-education-requirements/>)".

² Technical Elective must be a course from Engineering, MGMT 4203 Project Management, or the Sciences (excluding courses intended for Education Majors). All electives must have approval of the Department.

³ Engineering Elective must be a 3000 or 4000 level Electrical Engineering course.