

**PVAMU Recommended Degree Sequence  
Catalog Year 2021-2022**

**College/Department:** Engineering/Electrical and Computer Engineering  
**Program/Major:** Electrical Engineering

**Degree:** BSEE  
**Total Program Hours:** 126

**FIRST YEAR Freshman**

Fall Semester			Spring Semester			Summer Semester		
Course Number	Course Name	Hrs	Course Number	Course Name	Hrs	Course Number	Course Name	Hrs
	Communications Core	3		Communications Core	3		In order to reach 30, 60, 90 SCH milestones, students may need to take additional courses in the summer.	
MATH 2413	Mathematics Core <sup>1</sup> Calculus and Analytic Geometry I (P: MATH 1314 & MATH 1316 or MATH 1511)	4	MATH 2414	Calculus and Analytic Geometry II	4			
ELEG 1101	Intro Engr Computer Sci & Tech (C: GNEG 1101) <sup>2</sup>	1	CHEM 1403	Chemistry for Engineers <sup>1</sup> (P: CHEM 1303 or CHEM 1311; Substitution CHEM 1303 and 1304)	4			
GNEG 1010	Engr Professionalism & Career Development (C: ELEG 1101)	0	CHEM 1112	General Chemistry Laboratory II	1			
ELEG 1102	Introduction to Electrical and Computer Engineering Lab	1	PHYS 2325	Life and Physical Sciences Core University Physics I (P: MATH 2413)	3			
ELEG 1304	Computer Applications in Engineering	3	PHYS 2125	University Physics Lab I (P/C: PHYS 2325)	1			
	Component Area Option Two Core	3						
Total = 15			Total = 16			Total = 0		

**SECOND YEAR Sophomore**

Fall Semester			Spring Semester			Summer Semester		
Course Number	Course Name	Hrs	Course Number	Course Name	Hrs	Course Number	Course Name	Hrs
MATH 2320	Differential Equations I	3	ELEG 2305	Network Theory I	3			
PHYS 2326	Life and Physical Sciences Core University Physics II	3	ELEG 2101	Electric Circuits Lab	1			
PHYS 2126	University Physics Lab II (P/C: PHYS 2326)	1	ELEG 2311	Logic Circuits	3			
	Government/Political Science Core	3	ELEG 2131	Logic Circuits Lab	1			
	American History Core	3	CHEG 2308	Social and Behavioral Sciences Core Eco Analysis of Technical Applications	3			
MCEG 2301	Thermodynamics I	3		Government/Political Science Core	3			
				Language, Philosophy and Culture Core	3			
Total = 16			Total = 17			Total = 0		

**THIRD YEAR Junior**

Fall Semester			Spring Semester			Summer Semester		
Course Number	Course Name	Hrs	Course Number	Course Name	Hrs	Course Number	Course Name	Hrs
MATH 4317	Advanced Math for Engineers	3	ELEG 3302	Signals and Systems	3			
ELEG 3301	Network Theory II	3	ELEG 3307	Microprocessor Systems Design	3			
ELEG 3303	Physical Principles of Solid State Devices	3	ELEG 3107	Microprocessor Systems Design Lab	1			
MATH 3302	Probability and Statistics	3	ELEG 3304	Electronics I	3			
	American History Core	3	ELEG 4101	Electronics Laboratory	1			
			CVEG 2304	Component Area Option One Core Global Development Issues	3			
Total = 15			Total = 14			Total = 0		

**FOURTH YEAR Senior**

Fall Semester			Spring Semester			Summer Semester		
Course Number	Course Name	Hrs	Course Number	Course Name	Hrs	Course Number	Course Name	Hrs
ELEG 4304	Electronics II	3	ELEG 4307	Servomechanism and Control Systems	3			
ELEG 4300	Communication Theory	3		Electrical and Computer Engineering Laboratory Elective	1			
ELEG 4302	Power Systems Engineering	3	ELEG 4248	Senior Design and Professionalism II	2			
ELEG 4305	Electromagnetic Field Theory I	3		Technical Elective	3			
ELEG 4247	Senior Design and Professionalism I	2		Technical Elective	3			
	Technical Elective	3		Creative Arts Core	3			
				Electrical and Computer Engineering Laboratory Elective	1			
Total = 17			Total = 16			Total = 0		

**Total Degree Credits = 126**

<sup>1</sup>Math and Chemistry prerequisites must be met prior to first semester.  
<sup>2</sup>Consult catalog for all major co-requisites and prerequisites.