PVAMU Recommended Degree Sequence
Catalog Year 2021-2022

College/Department: Engineering/Electrical and Computer Engineering
Program/Major: Computer Engineering
Degree: BS
Total Program Hours: 126

FIRST YEAR Freshman

Fall Semester

Course Number	Course Name	Hrs
	Communications Core	3
MATH 2413	Mathematics Core[1] Calculus and Analytic Geometry I (P: MATH 1314 & MATH 1316 or MATH 1511)	4
ELEG 1101	Intro Engr Computer Sci & Tech (C: GNEG 1101)[2]	1
GNEG 1010	Engr Professionalism & Career Development (C: ELEG 1101)	0
ELEG 1102	Intro Elect and Comp Engr Lab	1
ELEG 1301	Programming for Computer Eng I	3
	Component Option Area Two Core	3
	Total =	15

Spring Semester

Course Number	Course Name	Hrs
	Communications Core	3
MATH 2414	Calculus and Analytic Geometry II	4
ELEG 1321	Programming for Computer Eng II	3
PHYS 2325	Life and Physical Sciences Core University Physics I (P: MATH 2413)	3
PHYS 2125	University Physics Lab I (P/C: PHYS 2325)	1
CVEG 2304	Component Option Area One Core Global Development Issues	3
	Total =	17

Summer Semester

Course Number	Course Name	Hrs
	In order to reach 30, 60, 90 SCH milestones, students may need to take additional courses in the summer.	
	Total =	0

SECOND YEAR Sophomore

Fall Semester

Course Number	Course Name	Hrs
MATH 2320	Differential Equations I	3
PHYS 2326	Life and Physical Sciences Core University Physics II	3
PHYS 2126	University Physics Lab II (P/C: PHYS 2326)	1
CHEM 1403	Chemistry for Engineers[1] (P: CHEM 1303 or CHEM 1311; Substitution CHEM 1303 and 1304)	4
CHEM 1112	General Chemistry Laboratory II	1
ELEG 2321	Data Structure and Algorithm with Python	3
	Total =	15

Spring Semester

Course Number	Course Name	Hrs
ELEG 2305	Network Theory I	3
ELEG 2101	Electric Circuits Lab	1
ELEG 2131	Logic Circuits Lab	1
ELEG 2311	Logic Circuits	3
ELEG 2331	Advanced Programming and Applications	3
CHEG 2308	Social and Behavioral Sciences Core Economic Analysis of Technical Applications	3
	Creative Arts Core	3
	Total =	17

Summer Semester

Course Number	Course Name	Hrs
	Total =	0

THIRD YEAR Junior

Fall Semester

Course Number	Course Name	Hrs
MATH 3302	Probability and Statistics	3
ELEG 3301	Network Theory II	3
ELEG 4330	Digital Design	3
MATH 2305	Discrete Math	3
ELEG 3303	Physical Principles of Solid State Devices	3
	American History Core	3
	Total =	18

Spring Semester

Course Number	Course Name	Hrs
ELEG 3302	Signals and Systems	3
ELEG 3307	Microprocessor Systems Design	3
ELEG 3107	Microprocessor Systems Design Lab	1
ELEG 3304	Electronics I	3
ELEG 4339	Computer Organization and Design	3
	American History Core	3
	Total =	16

Summer Semester

Course Number	Course Name	Hrs
	Total =	0

FOURTH YEAR Senior

Fall Semester

Course Number	Course Name	Hrs
ELEG 4325	Computer Interfacing and Communication	3
ELEG 4247	Senior Design and Professionalism I	2
	Government/Political Science Core	3
	Technical Elective	3
	Technical Elective	3
	Total =	14

Spring Semester

Course Number	Course Name	Hrs
ELEG 4333	Communication Network Eng	3
ELEG 4248	Senior Design and Professionalism II	2
	Government/Political Science Core	3
	Technical Elective	3
	Language, Philosophy and Culture Core	3
	Total =	14
	Total Degree Credits =	**126**

Summer Semester

Course Number	Course Name	Hrs
	Total =	0

[1]Students must satisfy prerequisites prior to enrollment.
[2]Consult catalog for all major co-requisites and prerequisites.