

Electrical Engineering Academic Plan of Study
Effective Fall 2019

Freshman Year					
Fall			Spring		
ENGR 1201	Engineering Practices & Prin. I	2	ENGR 1202E	Engineering Practices & Prin. II	2
LBST XXXX	LBST 11XX, 21XX, 221X	3	PHYS 2101	Physics for Science and Eng. I	3
UWRT XXXX	URWT 1103 or 1104	3	PHYS 2101L	Laboratory	1
MATH 1241	Calculus I	3	MATH 1242	Calculus II	3
ECGR 2103	Computer Utilization in C++	3	MATH 2164	Matrices and Linear Algebra	3
			LBST XXXX	LBST 11XX, 21XX, 221X	3
	Semester hours	14		Semester hours	15
Sophomore Year					
Fall			Spring		
ECGR 2111	Network Theory I	3	ECGR 2112	Network Theory II	3
ECGR 2155	Instrumentation and Networks Lab	1	ECGR 2156	Logic and Networks Laboratory	1
ECGR 2181	Logic System Design I	3	ECGR 2254	Engineering Analysis	3
MATH 2171	Differential Equations	3	MATH 2241	Calculus III	3
PHYS 2102	Physics for Science and Eng. II	3	PHYS 3141	Introduction to Modern Physics	3
LBST XXXX	LBST 11XX, 21XX, 221X	3	LBST 2301	Critical Thinking and Comm.	3
	Semester hours	16		Semester hours	16
Junior Year					
Fall			Spring		
ECGR 3111	Signals and Systems	3	ECGR 3122	Electromagnetic Waves	3
ECGR 3121	Intro to Electromagnetic Fields	3	ECGR 3132	Electronics	3
ECGR 3131	Fundamentals of Electronics/Semiconductors	3	ECGR 3142	Electric Energy Conversion	3
ECGR 3155	Systems and Electronics Lab	1	ECGR 3156	Electromagnetic & Electronic Devices	1
STAT 3128	Probability & Statistics for Eng.	3	ECGR 3112	System Analysis II	3
ENGR 3295	Professional Development	1	ECGR 3157	ECE Junior Design	3
	Semester hours	14		Semester hours	16
Senior Year					
Fall			Spring		
ECGR 4241	Electrical Eng Senior Design I	2	ECGR 4242	Electrical Eng. Senior Design II	2
ECGR 4123 or ECGR 4124	A&D Communications or DSP	3	ECGR 3159	Professional Practice	1
ECGR 4XXX	4000 Level ECGR Course	3	ECGR 4XXX	4000 Level ECGR Course	3
ECGR 4XXX	4000 Level ECGR Course	3	XXXX XXXX	Technical Elective	3
ECGR 4XXX	4000 Level ECGR Course	3	XXXX XXXX	Technical Elective	3
			ECON 2101 or ECON 2102	or Principles of Economics Micro	3
	Semester hours	14		Semester hours	15

