NAME: **STUDENT #:** **YEAR:**

ELECTRICAL ENGINEERING PROGRAM

Course Name	Previous #	Course #	Term	Grade	CHECK
Introductory Chemistry 1	CHEM 1300	CHEM 1100 (3)			
Introduction to Chemistry Techniques for Engineering 1	CHEM 1300	CHEM 1122 (1.5)			
Computer Programming for Scientists and Engineers		COMP 1012 (3)			
Engineering Design	130.140 (4)	ENG 1430 (3)			
Introduction to Statics	130.135 (4)	ENG 1440 (3)			
Introduction to Electrical and Computer Engineering	130.118 (4)	ENG 1450 (3)			
Introduction to Thermal Sciences		ENG 1460 (3)			
Classical and Linear Algebra		MATH 1210 (3)			
Applied Calculus 1		MATH 1510 (3)			
Applied Calculus 2		MATH 1710 (3)			
Physics 1		PHYS 1050 (3)			
Written English Course for Engineering Students (3)	ENGL 1400 (3)				

Ecology, Technology, and Society	24.369	ANTH 2430 (3)			
Engineering Economics	CIVL 4050	ENG 3000 (3)			
Engineering Communications	ENG 2010	ENG 2030 or ENG 2040 (3)			
Engineering Mathematical Analysis 1	MATH 2100 (4)	MATH 2130 (3)			
Engineering Mathematical Analysis 2	MATH 2110 (4)	MATH 2132 (3)			
Engineering Mathematical Analysis 3	MATH 3100 (3)	MATH 3132 (3)			
Modern Physics for Engineers		PHYS 2152 (3)			
Modern Statistics for Engineers	5.250	STAT 2220 (3)			
Electronics 2E		ECE 2160 (5)			
Digital Logic		ECE 2220 (5)			
Numerical Methods for Electrical Engineers		ECE 2240 (4)			
Electric Circuits	ECE 2260	ECE 2262 (4)			
Advanced Circuit Analysis and Design		ECE 3540 (4)			
Foundations of Electromagnetics		ECE 3580 (4)			
Electromagnetic Theory		ECE 3590 (4)			
Physical Electronics		ECE 3600 (4)			
Microprocessing Systems		ECE 3610 (4)			
Electronics 3E		ECE 3670 (4)			
Electric Power and Machines		ECE 3720 (4)			
Principles of Embedded Systems Design		ECE 3730 (4)			
Signal Processing 1		ECE 3780 (4)			
Control Systems		ECE 4150 (4)			
Communication Systems		ECE 4260 (4)			
Group Design Project		ECE 4600 (6)			
Complementary Studies Elective (3) [1 of 2]					
Complementary Studies Elective (3) [2 of 2]					

GENERAL PROGRAM ELECTIVES (No Focus Area)		*Applies to students who are not completing one of the five focus areas.*			
Group A Qualified Design Elective [1 of 3]					
Group A Qualified Design Elective [2 of 3]					
Group A Qualified Design Elective [3 of 3]					
Group A or Group B Elective [1 of 4]					
Group A or Group B Elective [2 of 4]					
Group A or Group B Elective [3 of 4]					
Group A or Group B Elective [4 of 4]					
Natural Science Elective					

Revision Date: 15 May 2024

NAME: **STUDENT #:** **YEAR:**

Course Name	Previous #	Course #	Term	Grade	CHECK
POWER AND ENERGY SYSTEMS FOCUS AREA					
Electric Machines		ECE 3650 (5)			
Electrical Energy Systems 1		ECE 4300 (4)			
Power Electronics		ECE 4370 (4)			
Power and Energy Systems Elective					
Group A Qualified Design Elective					
Technical Elective [1 of 2]					
Technical Elective [2 of 2]					
Natural Science Elective					
COMMUNICATION DEVICES FOCUS AREA					
Antennas		ECE 4270 (4)			
Microwave Engineering		ECE 4290 (4)			
Digital Communications or Signal Processing 2		ECE 4250 or ECE 4830 (4)			
Communication Devices Elective [1 of 2]					
Communication Devices Elective [2 of 2]					
Technical Elective [1 of 2]					
Technical Elective [2 of 2]					
Natural Science Elective					
MECHATRONICS FOCUS AREA					
Introduction to Robotics		ECE 4180 (4)			
Mechatronics System Design		MECH 4900 (4)			
Mechatronics Elective [1 of 2]*					
Mechatronics Elective [2 of 2]*					
Technical Elective [1 of 3]*					
Technical Elective [2 of 3]*					
Technical Elective [3 of 3]*					
Natural Science Elective					

** Three (3) of the electives completed **MUST** be selected from the list of Group A Qualified Design Electives.*

BIOMEDICAL FOCUS AREA		*No other Natural Science elective is required when completing this focus area.*			
Biomedical Instrumentation and Signal Processing		ECE 4610 (4)			
Signal Processing 2		ECE 4830 (4)			
Anatomy of the Human Body		BIOL 1410 (3)			
Biomedical Group A Elective					
Biomedical Group A or Group B Elective					
Group A Qualified Design Elective					
Technical Elective [1 of 2]					
Technical Elective [2 of 2]					

NOTES

Graduation Date:

NAME: **STUDENT #:** **YEAR:**

Course Name	Previous #	Course #	Term	Grade	CHECK
ENGINEERING PHYSICS FOCUS AREA		*No other Natural Science elective is required when completing this focus area.*			
Antennas		ECE 4270 (4)			
Optoelectronics		ECE 4580 (4)			
Quantum Physics 1		PHYS 2380 (3)			
Classical Mechanics 1		PHYS 2650 (3)			
Engineering Physics Elective [1 of 3]					
Engineering Physics Elective [2 of 3]					
Engineering Physics Elective [3 of 3]					
Technical Elective					

ENTREPRENEURSHIP FOCUS AREA		*** This course satisfies the requirement for one Complementary Studies elective.*			
Project Management		MECH 3170			
Starting a New Business **		ENTR 2020			
Entrepreneurship Elective [1 of 2]					
Entrepreneurship Elective [2 of 2]					
Group A Qualified Design Elective [1 of 3]					
Group A Qualified Design Elective [2 of 3]					
Group A Qualified Design Elective [3 of 3]					
Technical Elective [1 of 1]					
Natural Science Elective					