

BS IN ELECTRICAL ENGINEERING TECHNOLOGY

Below is a sample plan of study. Consult your degree audit for your program requirements.

- Electrical Engineering Technology (p. 1)
- Electrical Engineering Technology, Concentration in Mechanical, BS (p. 1)
- Electrical Engineering Technology-Concentration in Mechatronics, BS (p. 2)

Electrical Engineering Technology

First Term		Hours
ENGT 1000	Engineering Technology Orientation	1
MATH 1330	Trigonometry	3
ENGL 1110	College Composition I	3
EET 1010	DC Circuits	4
CHEM 1230	General Chemistry I	4
Hours		15
Second Term		Hours
ENGL 2950	Science And Technical Report Writing	3
Social Sciences Core		3
EET 1410	Electrical Drafting	3
EET 1020	AC Circuits	4
EET 2210	Digital Logic Fundamentals	4
Hours		17
Third Term		Hours
MATH 2450	Calculus For Engineering Technology I	4
PHYS 2010	Technical Physics I	5
Communications Elective		3
EET 2010	Electronic Principles	4
Hours		16
Fourth Term		Hours
MATH 2460	Calculus For Engineering Technology II	4
PHYS 2020	Technical Physics II	5
EET 2020	Electronic Device Applications	4
CSET 2200	PC and Industrial Networks	4
Hours		17
Fifth Term		Hours
ENGT 3010	Applied Statistics And Design Of Experiments	4
ENGT 3020	Applied Engineering Mathematics	3
EET 3150	C Programming	4
EET 2410	Mechatronics I	4
Hours		15
Sixth Term		Hours
Diversity of US		3
EET 3250	Network Analysis	3

EET 3350	Embedded Systems Design	4
EET 4550	Mechatronics II	4
MET 2100	Statics For Technology	3
Hours		17
Seventh Term		Hours
EET 4150	Analog Systems Design	4
EET 4250	Database Applications for Industry	4
or EET 4300	or Motors and Generators	
or EET 4350	or Electric Power Systems	
EET 4350	Electric Power Systems	4
or EET 4250	or Database Applications for Industry	
or EET 4300	or Motors and Generators	
Arts/Humanities Core		3
Arts/Humanities Core/Non-US Diversity		3
Hours		18
Eighth Term		Hours
Elective - Professional Development		3
Social Sciences Core		3
EET 4450	Automatic Control Systems	4
ENGT 4050	Senior Technology Capstone	3
Hours		13
Total Hours		128

Electrical Engineering Technology, Concentration in Mechanical, BS

First Term		Hours
ENGT 1000	Engineering Technology Orientation	1
MATH 1330	Trigonometry	3
ENGL 1110	College Composition I	3
EET 1010	DC Circuits	4
CHEM 1230	General Chemistry I	4
Hours		15
Second Term		Hours
ENGL 2950	Science And Technical Report Writing	3
Social Sciences Core		3
EET 1410	Electrical Drafting	3
EET 1020	AC Circuits	4
EET 2210	Digital Logic Fundamentals	4
Hours		17
Third Term		Hours
MATH 2450	Calculus For Engineering Technology I	4
PHYS 2010	Technical Physics I	5
Communications Elective		3
EET 2010	Electronic Principles	4
Hours		16
Fourth Term		Hours
MATH 2460	Calculus For Engineering Technology II	4
PHYS 2020	Technical Physics II	5
EET 2020	Electronic Device Applications	4

CSET 2200	PC and Industrial Networks	4
Hours		17
Fifth Term		
ENGT 3010	Applied Statistics And Design Of Experiments	4
ENGT 3020	Applied Engineering Mathematics	3
EET 3150	C Programming	4
EET 2410	Mechatronics I	4
MET 2100	Statics For Technology	3
Hours		18
Sixth Term		
Diversity of US		3
EET 3250	Network Analysis	3
EET 3350	Embedded Systems Design	4
MET 2210	Technical Thermodynamics	4
Hours		14
Seventh Term		
EET 4300 or EET 4350	Motors and Generators or Electric Power Systems	4
MET 2050	Fluid And Hydraulic Mechanics	4
MET 2120	Strength Of Materials For Technology	4
Arts/Humanities Core		3
Hours		15
Eighth Term		
Elective - Professional Development		3
EET 4450	Automatic Control Systems	4
ENGT 4050	Senior Technology Capstone	3
Arts/Humanities Core		3
Arts/Humanities Core		3
Hours		16
Total Hours		128

Electrical Engineering Technology-Concentration in Mechatronics, BS

First Term	Hours	
ENGT 1000	Engineering Technology Orientation	1
MATH 1330	Trigonometry	3
ENGL 1110	College Composition I	3
EET 1010	DC Circuits	4
CHEM 1230	General Chemistry I	4
Hours		15
Second Term		
ENGL 2950	Science And Technical Report Writing	3
Social Sciences Core		3
EET 1410	Electrical Drafting	3
EET 1020	AC Circuits	4
EET 2210	Digital Logic Fundamentals	4
Hours		17
Third Term		
MATH 2450	Calculus For Engineering Technology I	4

PHYS 2010	Technical Physics I	5
Communications Elective		3
EET 2010	Electronic Principles	4
Hours		16
Fourth Term		
MATH 2460	Calculus For Engineering Technology II	4
PHYS 2020	Technical Physics II	5
EET 2020	Electronic Device Applications	4
CSET 2200	PC and Industrial Networks	4
Hours		17
Fifth Term		
ENGT 3010	Applied Statistics And Design Of Experiments	4
ENGT 3020	Applied Engineering Mathematics	3
EET 3150	C Programming	4
EET 2410	Mechatronics I	4
Hours		15
Sixth Term		
Diversity of US		3
EET 3250	Network Analysis	3
EET 3350	Embedded Systems Design	4
Select one of the following:		4
EET 4550	Mechatronics II	
EET 4150	Analog Systems Design	
EET 4250	Database Applications for Industry	
EET 4600	Industrial Robotics	
EET 4650	Industrial Robotics Vision	
MET 2100	Statics For Technology	3
Hours		17
Seventh Term		
Select one of the following:		4
EET 4150	Analog Systems Design	
EET 4250	Database Applications for Industry	
EET 4550	Mechatronics II	
EET 4600	Industrial Robotics	
EET 4650	Industrial Robotics Vision	
EET 4300 or EET 4350	Motors and Generators or Electric Power Systems	4
Arts/Humanities Core		3
Arts/Humanities Core		3
Arts/Humanities Core/Non-US Diversity		3
Hours		17
Eighth Term		
Elective - Professional Development		3
EET 4450	Automatic Control Systems	4
Select one of the following:		4
EET 4150	Analog Systems Design	
EET 4250	Database Applications for Industry	
EET 4550	Mechatronics II	

EET 4600	Industrial Robotics	
EET 4650	Industrial Robotics Vision	
ENGT 4050	Senior Technology Capstone	3
Hours		14
Total Hours		128

- a. an ability to apply the knowledge, techniques, skills, and modern tools of the discipline to narrowly defined engineering technology activities;
- b. an ability to apply a knowledge of mathematics, science, engineering, and technology to engineering technology problems that require limited application of principles but extensive practical knowledge;
- c. an ability to conduct standard tests and measurements, and to conduct, analyze, and interpret experiments;
- d. an ability to function effectively as a member of a technical team;
- e. an ability to identify, analyze, and solve narrowly defined engineering technology problems;
- f. an ability to apply written, oral, and graphical communication in both technical and non-technical environments; and an ability to identify and use appropriate technical literature;
- g. an understanding of the need for and an ability to engage in self-directed continuing professional development;
- h. an understanding of and a commitment to address professional and ethical responsibilities, including a respect for diversity;
- i. a commitment to quality, timeliness, and continuous improvement.