

* Several courses required for the major also satisfy General Education requirements. The University minimum of 36 credits are required for

General Education and credit for these courses will apply to multiple requirements.

General Education Courses

Code	Title	Hours
Students pursuing a bachelor's degree must complete the following General Education coursework. Diversity courses may also fulfill major or Breadth of Knowledge requirements. Integrated and Applied Learning courses may also fulfill requirements in the major.		
Academic Foundations		12
Mathematics, Statistics and Logic: 3 credit hours		
Speaking: 3 credit hours		
Writing: 6 credit hours		
Breadth of Knowledge		22
Arts/Humanities: 9 credit hours		
Natural Sciences: 7 credit hours		
Social Sciences: 6 credit hours		
Diversity		
Domestic Diversity		
Global Diversity		
Integrated and Applied Learning		2
Select one class from one of the following subcategories:		
Complex Issues Facing Society		
Capstone		
Review the General Education Requirements page for detailed course listings.		
Total Hours		36

Program-Specific General Education

These courses are specifically required by the program, and also meet bachelor's degree General Education requirements. They are all also part of the Associate of Applied Science in Electrical and Electronic Engineering Technology.

Code	Title	Hours
MATH 144	Technical Algebra and Trigonometry 1	4
MATH 154	Technical Algebra and Trigonometry 2 3	3
PHYS 261	College Physics I 4	4
PHYS 262	College Physics II 4	4
Total Hours		15

Mathematics Course I

This course is also part of the Associate of Applied Science in Electrical and Electronic Engineering Technology.

Code	Title	Hours
MATH 255	Technical Calculus I	3
Total Hours		3

Mathematics Courses II

Code	Title	Hours
MATH 345	Technical Data Analysis	2
MATH 356	Technical Calculus II	3
Total Hours		5

Required Mechanical Engineering Technology Course I

This course is also part of the Associate of Applied Science in Electrical and Electronic Engineering Technology.

Code	Title	Hours
MCET 121	Fundamentals of Engineering Drawing	3
Total Hours		3

Required Mechanical Engineering Technology Course II

Code	Title	Hours
MCET 405	Introduction to Industrial Machine Control	3
Total Hours		3

Required Electrical and Electronic Engineering Technology Courses I

These courses are also part of the Associate of Applied Science in Electrical and Electronic Engineering Technology.

Code	Title	Hours
EEET 120	Circuit Fundamentals 1	4
EEET 121	Introduction to Electronics and Computers 1	2
EEET 122	AC Circuits 2	4
EEET 123	Electronic Devices 2	4
EEET 225	Applications of Electronic Devices 1	4
EEET 237	Digital Circuits 1	4
EEET 238	Microprocessor Applications 2	4
EEET 242	Machinery & Controls	3
EEET 251	Electronic Communications 2	4
EEET 260	Electrical and Electronic Project 2	2
Total Hours		35

Required Electrical and Electronic Engineering Technology Courses II

Code	Title	Hours
EEET 350	Advanced Circuit Theory 1	3
EEET 352	Microcontrollers 2	4
EEET 354	Advanced Circuits Applications 2	3
EEET 453	Control Systems 1	4
EEET 455	Senior Project 2	1-3
or EEET 497	Senior Honors Project: Electronic Technology	
Total Hours		15-17

Computer Programming Electives

Code	Title	Hours
Complete two credits:		2
MCET 312	Programming for Technologists	
CPSC 126	Introduction to Visual Basic Programming	
CPSC 209	Computer Science I	
CPEN 208	Programming for Engineers	
Total Hours		2

Electrical and Electronic Engineering Technology Electives

Code	Title	Hours
Complete twelve credits from the list below: ⁵		12
EEET 290	Special Topics: Electronic Engineering Technology	
EEET 310	National Electrical Code and Electrical System Design	
EEET 360	Virtual Instrumentation and Data Acquisition	
EEET 400	Computer Simulations in Technology	
EEET 402	Advanced Programmable Logic Controllers and Sensors	
EEET 406	Communication Systems	
EEET 420	Biomedical Electronic Instrumentation	
EEET 451	Industrial Electrical Systems	
EEET 490	Special Topics: Electronic Engineering Technology	
Total Hours		12

Technical Electives

Code	Title	Hours
Complete six credits from the list below, or six additional credits from the list of Electrical and Electronic Engineering Technology Electives: ⁵		6
MATH 290	Special Topics: Associate Studies Mathematics	
MATH 361	Applied Cryptography	
MATH 461	Applied Cryptanalysis	
MATH 360	Advanced Mathematics for Surveyors	
AMET 332	Management of Technology Based Operations	
AMET 348	CNC Programming I	
AMET 448	CNC Programming II	
AMET 470	Simulation of Manufacturing Systems	
AMET 480	Automated Production	
AMET 110	Manufacturing Processes	
AMET 140	Computer Aided Drawing	
AMET 201	Robotics & Automated Manufacturing	
AMET 211	Manufacturing Operations	
MCET 101	Introduction to Mechanical Design	
MCET 142	Introduction to Material Technology	
MCET 249	Applied Thermal Energy I	
MCET 252	Thermo-Fluids Laboratory	
MCET 310	Economics of Technology	
SURV 100	Introduction to Geomatics	
SURV 101	Basic Surveying	

SURV 105	Introduction to Geographic & Land Information Systems
COET 125	Statics
COET 150	Plan Reading
COET 245	Construction Estimating
COET 371	Green & Sustainable Building Practices
COET 453	Legal Aspects of Construction
COET 462	Mechanical Service Systems
COET 463	Electrical Service Systems
COET 469	Contracts and Specifications
BIOL 200	Human Anatomy & Physiology I
CPSC 306	Assembly and System Programming

¹ Traditionally Fall only (See Program Contact)

² Traditionally Spring only (See Program Contact)

³ MATH 149 Precalculus Mathematics is an acceptable substitute for MATH 154 Technical Algebra and Trigonometry 2.

⁴ Together, PHYS 261 College Physics I and PHYS 262 College Physics II meet the Natural Science (with lab) Requirement for General Education. PHYS 291 Elementary Classical Physics I is an acceptable substitute for PHYS 261 College Physics I, and PHYS 292 Elementary Classical Physics II is an acceptable substitute for PHYS 262 College Physics II.

⁵ Please note that the Electrical and Electronic Engineering Technology Electives classes and Technical Elective classes may be offered only once during the year, including the summer session. Consult the Schedule of Classes for course offerings.

Recommended Sequence

1st Year

Fall Semester		Hours
ENGL 111	English Composition I ³	3
MATH 144	Technical Algebra and Trigonometry 1	4
EEET 120	Circuit Fundamentals (Sch. lab) ¹	4
EEET 121	Introduction to Electronics and Computers (Sch. lab) ¹	2
Speaking Requirement		3
Hours		16

Spring Semester

MATH 154	Technical Algebra and Trigonometry 2 ⁴	3
PHYS 261	College Physics I ⁵	4
EEET 122	AC Circuits (Sch. lab) ²	4
EEET 123	Electronic Devices (Sch. lab) ²	4
Hours		15

2nd Year

Fall Semester		
MATH 255	Technical Calculus I	3
EEET 225	Applications of Electronic Devices ¹	4
EEET 237	Digital Circuits (Sch. lab) ¹	4
EEET 242	Machinery & Controls (Sch. lab)	3
MCET 121	Fundamentals of Engineering Drawing	3
Hours		17

Spring Semester

PHYS 262	College Physics II ⁵	4
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EEET 238	Microprocessor Applications (Sch. lab) ²	4
EEET 251	Electronic Communications (Sch. lab) ²	4
EEET 260	Electrical and Electronic Project (Sch. lab) ²	2
	Social Science Requirement ⁶	3

Hours **17**

3rd Year

Fall Semester

MATH 356	Technical Calculus II	3
EEET 350	Advanced Circuit Theory ¹	3
	Writing II Requirement	3
	Computer Programming Elective	2
	Electrical and Electronic Engineering Technology Elective ⁷	3

Hours **14**

Spring Semester

MATH 345	Technical Data Analysis	2
MCET 405	Introduction to Industrial Machine Control (Sch. lab)	3
EEET 352	Microcontrollers (Sch. lab) ²	4
EEET 354	Advanced Circuits Applications ²	3
	Social Science Requirement ⁶	3

Hours **15**

4th Year

Fall Semester

EEET 453	Control Systems (Sch. lab) ¹	4
	Electrical and Electronic Engineering Technology Elective ⁷	3
	Technical Elective ^{7,8}	3
	Arts Requirement ⁶	3
	Humanities Requirement ⁶	3

Hours **16**

Spring Semester

EEET 455	Senior Project ^{2,9}	2
	Electrical and Electronic Engineering Technology Elective ⁷	3
	Electrical and Electronic Engineering Technology Elective ⁷	3
	Technical Elective ^{7,8}	3
	Arts/Humanities Requirement ⁶	3

Hours **14**

Total Hours **124**

⁷ Please note that each of the Electrical and Electronic Engineering Technology Electives classes and Technical Elective classes may be offered only once during the year, including the summer session. Consult the Schedule of Classes for course offerings.

⁸ Technical Electives are technical courses that support a student's career interest and may include any of the approved Electrical and Electronic Engineering Technology Electives. Some courses may have prerequisites that must be met. Any course taken that is not on the list Technical Electives or Electrical and Electronic Engineering Technology Electives must be approved by the Program Director in writing in advance to be used towards the Technical Elective requirement.

⁹ This course is required for the program and also meets the Integrated and Applied Learning (Capstone) Requirement for General Education.

Note that Honors students should take EEET 497 Senior Honors Project: Electronic Technology in place of this class.

¹ Typically offered Fall only.

² Typically offered Spring only.

³ Writing First Course General Education Requirement.

⁴ MATH 149 Precalculus Mathematics is an acceptable substitute for MATH 154 Technical Algebra and Trigonometry 2.

⁵ Together, PHYS 261 College Physics I and PHYS 262 College Physics II meet the Natural Science (with lab) Requirement for General Education.

PHYS 291 Elementary Classical Physics I is an acceptable substitute for PHYS 261 College Physics I, and PHYS 292 Elementary Classical Physics II is an acceptable substitute for PHYS 262 College Physics II.

⁶ Students should ensure that their Social Science, Arts and Humanities courses are chosen to also meet the Global Diversity and Domestic Diversity General Education Requirements.