

Name:	SID:	Advisor:
Start Date:	Catalog Date:	Expected Graduation Date:

Freshman

Sophomore

Junior

Senior

Program Map: Electrical Engineering Technology College of Engineering Technology and Computing

Core Curriculum (Program Preferred Options in Bold)

Area I – Institutional Options 5 hrs

- i. AFRS 1501 Survey of African American Experience 2 hrs
Select one of the following:
 - i. DATA 1501 Introduction to Data Science 3 hrs
 - ii. POLS 2401 Global Issues 3 hrs
 - iii. HUMN 1201 Critical Thinking & Communication 3 hrs
 - iv. AFRS 2000 Introduction to Africana Studies 3 hrs

Area M – Mathematics & Quantitative Skills 3 hrs

Select one of the following:

- i. MATH 1001 - Quantitative Reasoning 3hrs
- ii. MATH 1111 - College Algebra 3hrs
- iii. MATH 1401 - Elementary Statistics 3hrs
- iv. **MATH 1113 - Pre-Calculus 3hrs**

Area P – Social Science 6 hrs

- i. POLS 1101 American Government 3 hrs
1. Select one of the following:
 - i. HIST 2111 U.S. History to the Post-Civil War Period 3 hrs
 - ii. HIST 2112 U.S. History from the Post-Civil War to Pre 3 hrs

Area A – Humanities/Fine Arts, and Ethics 6 hrs

Select two of the following:

- i. ENGL 2111 World Literature I 3 hrs
- ii. ENGL 2112 World Literature II 3 hrs
- iii. ENGL 2121 British Literature I 3 hrs
- iv. ENGL 2122 British Literature II 3 hrs
- v. ENGL 2131 American Literature I 3 hrs
- vi. ENGL 2132 American Literature II 3 hrs
- vii. ENGL 2140 - Introduction to African American Literature 3hrs
- viii. ENGL 2521 Introduction to Film 3hrs
- ix. PHIL 2010 Introduction to Philosophy 3 hrs
- x. PHIL 2030 Introduction to Ethics 3 hrs
- xi. ARTS 1101 Introduction to Visual Art 3 hrs
- xii. DNCE 2010 Dance Appreciation 3 hrs
- xiii. HUMN 2011 Humanities 3 hrs
- xiv. MUSC 1101 Introduction to Music 3 hrs
- xv. THEA 2101 Introduction to Theatre 3 hrs

Area C – Communicating in Writing 6 hrs

- i. ENGL 1101 English Composition I 3 hrs
- ii. ENGL 1102 English Composition II 3hrs

Area T – Natural Sciences, Math & Technology 11 hrs

1. Select one of the following:
 - i. **CSCI 1130 Computer Applications 3 hrs**
 - ii. CSCI 1301 Computer Science I 3 hrs
 - iii. CILS 1130 - Introduction to Computer Applications 3hrs
 - iv. ASTR 1000 - Introduction to the Universe 3hrs
 - v. ISCI 1101 - Integrated Science I 3hrs
 - vi. BIOL 1103 - General Biology 3hrs
 - vii. BIOL 1104 - Human Biology 3hrs
 - viii. DATA 1501 Introduction to Data Science 3 hrs
 - ix. ENVS 1140 Environmental Issues 3 hrs
 - x. FSCI 1101 - Introduction to Molecular Forensic Science 3hrs
 - xi. MATH 1111 - College Algebra 3hrs
 - xii. MATH 1401 - Elementary Statistics 3 hrs
 - xiii. MATH 1113 - Pre-Calculus 3 hrs
2. Select two of the following lab sciences:
 - i. **PHYS 1111K Introductory Physics I 4 hrs**
 - ii. **PHYS 1112K Introductory Physics II 4 hrs**
 - iii. **PHYS 2211K Principles of Physics I 4 hrs**
 - iv. **PHYS 2212K Principles of Physics II 4 hrs**
 - v. BIOL 1103/1103L General Biology 4 hrs
 - vi. BIOL 1104/1104L Human Biology 4 hrs
 - vii. BIOL 1107/1107L Principles of Biology I 4 hrs
 - viii. BIOL 1108/1108L Principles of Biology II 4 hrs
 - ix. CHEM 1101K - Introductory Chemistry 4hrs
 - x. CHEM 1211/1211L Principles of Chemistry I 4 hrs
 - xi. CHEM 1212/1212L Principles of Chemistry II 4 hrs
 - xii. ISCI 1111K - Integrated Science II 4hrs
 - xiii. MSC1 1501K - Introduction to Marine Biology 4hrs
 - xiv. PHSC 1011K - Physical Science I 4hrs

- xv. PHSC 1012K - Physical Science II 4hrs
- xvi. CISM 1130 Computer Applications 3 hrs
- xvii. ENVS 1140 Environmental Issues 3 hrs

Area S – Social Science 6 hrs

Select two of the following:

- i. AFRS 2000 Introduction to Africana Studies 3 hrs
- ii. ANTH 1101 Introduction to Anthropology 3 hrs
- iii. ECON 2105 Principles of Macro-Economics 3 hrs
- iv. GEOG 1101 Introduction to Human Geography 3 hrs
- v. HIST 1111 World Hist to Early Modern Times 3 hrs
- vi. HIST 1112 World History Early Modern Times to Pres 3 hrs
- vii. POLS 2401 Global Issues 3 hrs
- viii. PSYC 1101 Intro to General Psychology 3 hrs
- ix. PSYC 2103 Human Growth & Development 3 hrs
- x. SOCI 1101 Introduction to Sociology 3 hrs
- xi. SOCI 1160 Social Problems 3 hrs

Electrical Engineering Technology Major Technical Options

ELET Option: Select Three (12hrs)

ELET 3401K	Microcomputer Interfacing	4 credits
ELET 3412K	Cybersecurity and embedded systems	4 credits
ELET 3501K	Control Systems	4 credits
ELET 3701K	Data Acquisition Systems	4 credits
ELET 4401K	Industrial Electronics	4 credits
ELET 4402K	Network defense & counter measures	4 credits
ELET 4611K	Fiber Optics	4 credits
ELET 4621K	Digital Communications	4 credits
CSCI 3385K	Computer Network & Design	4 credits

Distinctive Courses/Descriptions

Electrical Engineering Technology

The electrical engineering technology curriculum provides instruction in the fundamentals of modern electrical theory, with emphasis on the application of theoretical principles to actual electrical circuits, embedded systems, power systems, and digital circuits. Graduates of the electrical engineering technology program are prepared to function effectively in several capabilities, including:

Research and Development Technologist - engages in the development, building and testing of new equipment in the areas of digital systems, power systems, communications, and electrical systems.

Process Control Technologist - supervises the operation of automatic control equipment for industrial processes.

Field Engineering Specialist – installs, tests, and maintains equipment such as data processing machines and other electrical systems.

Embedded System Specialist – maintains and/or designs microcontrollers-based equipment and other embedded system devices