ELECTRICITY
Electrical Engineering Technology Major

TECHNOLOGY & WORKFORCE DEVELOPMENT DIVISION

Program of Study

The Electrical Engineering Technology major is a transfer degree designed to fulfill most of the requirements for the first two years of a baccalaureate degree at four-year colleges and universities. This Associate of Science degree is appropriate for students who plan to transfer to a Bachelor of Science or related program in an electrical engineering area. It is composed of both technical and general educational courses which will prepare students to become engineering technicians in the area of design, manufacturing, sales, installation, repair, and service of electrical and electronic equipment.

The faculty has identified the following Learning Outcomes for all graduates:

- Understand and troubleshoot basic electrical Direct Current circuits.
- Understand and troubleshoot basic electrical Alternating Current circuits.
- Demonstrate the proper use of electronic test equipment.
- Demonstrate skill in both analytical and laboratory procedures of electrical engineering technology.
- Demonstrate skill in basic science, mathematics, and communications.
- Analyze and troubleshoot basic digital and analog circuits.
- Demonstrate an understanding of the architecture, programming, interfacing and use of microprocessors.

POTENTIAL OCCUPATIONS

— **Electronic Technician**
— **Electrical Technician**
— **Field Service Technician**
— **Electrical/Electronic Sales Technician**
— **Instrumentation Technician**
— **Research and Development Technician**

Associate of Applied Science

TECHNICAL CONCENTRATION

			Credit Hrs.
CAD	1110	CAD I	3
CIT	1090	Computer Fundamentals	3
EET	1700	DC Circuits	3
EET	1710	AC Circuits	3
EET	1720	Electronics	4
EET	2730	Digital Circuits	4
EET	2440	Programmable Controllers I	4
EET	1630	Graphic Interface	3
EET	2740	Microprocessors	4
		Total Technical Credit Hours	**31**

GENERAL EDUCATION AND RELATED COURSES

GEN	1000	First-Year Seminar	1
ENG	1050	College Composition I	3
ENG	1060	College Composition II	3
MFG	1020	Safety	1
MTH	2310	College Algebra	3
MTH	2320	College Trigonometry	3
PHY	1310	General Physics I	4
PHY	1315	General Physics Lab I	1
PHY	1320	General Physics II	4
PHY	1325	General Physics Lab II	1
SPE	2010	Effective Speaking	3
		*Social Science Elective	3
		*Humanities Elective	3
		Total General Education & Related Credit Hours	**33**
		TOTAL CREDIT HOURS	**64**

* **See page 95 for a listing of specific electives.**
See your advisor for appropriate course selection.

For available Certificate Program options, see catalog pages 97–103.

** All students graduating from Terra State Community College with an Associate degree of any kind will be functionally proficient in common computer operations and applications. Please see your academic advisor or academic division office for further details.

To determine when courses are scheduled, see program curriculum sheet which is available from the Enrollment Services office in Building A/Room 100, from the Technology and Workforce Development Division office, Building E, Room 107 or on the web at www.terra.edu.