

Associate of Applied Science Degree Engineering Technologies

Electronic Engineering Technology

The Department of Electronic Engineering Technology's mission is to provide a quality learning opportunity in Electronic Engineering Technology. The purpose is to prepare students to further their education at a 4-year institution and/or employment in the field of Engineering Technology. Both the day and evening programs are accredited by the Technology Accreditation Commission of the Accreditation Board for Engineering and Technology, Inc. (TAC/ABET), 111 Market Place, Suite 1050, Baltimore, MD 21202-4012, phone 410.347.7700, www.abet.org.

Program Educational Objectives: Graduates of the program will (1) use technical and analytical skills to build, test, operate and maintain electrical/electronic(s) systems; (2) achieve productive careers in industry or government; and (3) participate in activities designed to further knowledge and skills within the profession, e.g., boot camps, workshops, professional development, and advanced academic study. (Achievement of these objectives is a shared responsibility between the student and Lakeland Community College.)

Certificates are also available.

Electronic Engineering Technology (9420)

First Semester:

ELEC 1100	Electrical Circuits I	3
ENGL 1110*	English Composition I (A)	3
OR		
ENGL 1111	English Composition I (B)	
MATH 1101	Technical Mathematics I	4
MECT 1000	Introduction to Technology	2
PHYS 1100	Applied Physics I	3
(1st 8 weeks)		
CPET 1100	C Programming for Engineering Technology I	2
(2nd 8 weeks)		
CPET 2100	C Programming for Engineering Technology II	2

19

Second Semester:

ELEC 1200	Electrical Circuits II	3
ELEC 1320	Digital Systems Fundamentals	3
MATH 1201	Technical Mathematics II	4
MECT 1150**	Technical Communications	3
PHYS 1200	Applied Physics II	3

16

Third Semester:

ELEC 2101	Electronics I	3
ELEC 2400	Microcontroller Applications	4
PHYS 2100	Applied Physics III	2
SPCH 1050***	Fundamentals of Public Speaking	2
OR		
SPCH 1150	Fundamentals of Interpersonal Communication	
Choose course(s) from the Arts and Humanities Electives list		3
Choose course(s) from the Technical Electives list		4

18

Fourth Semester:

ELEC 2151	Electronics II	3
ELEC 2300	Process Control with LabVIEW Applications	3
ELEC 2600	Robotics Project Lab	3
Choose course(s) from the Social and Behavioral Sciences Electives list		3
Choose course(s) from the Technical Electives list		4

16

Program Total: 69

**English course selection is based on placement test results (ENGL 1111 is 4 credits, only 3 credits apply to the degree).*

***Students may substitute either ENGL 1120 or ENGL 1121. One of these three credit courses may be required for students transferring to a four-year college.*

****Students may substitute either SPCH 1000 or SPCH 1100. One of these 3 credit courses may be required for students transferring to a four-year college.*

Technical Electives: minimum 8 credits

CNET 1100	Cisco Networking Technology I	2
CNET 1200	Cisco Networking Technology II	2
CNET 1300	Cisco Networking Technology III	2
CNET 1400	Cisco Networking Technology IV	2
CNET 2520	Cisco Networking V: Advanced Routing	4
CNET 2540	Cisco Networking VI: Remote Access	4
CPET 1200	Visual Basic for Engineering Technology I	2
CPET 2200	Visual Basic for Engineering Technology II	2
ELEC 2700	Electric Motors, Generators and Control	4
ELEC 2821	Programmable Controllers	4

Arts and Humanities Electives: minimum 3 credits

ARTS 1120, 2220, 2230, 2240; ENGL 2250, 2260, 2280, 2290; HUMX 1100, 1200; MUSC 1200, 2200, 2250; PHIL 1500, 2000

Social and Behavioral Sciences Electives: minimum 3 credits

ANTH 1160; ECON 1150, 2500, 2600; GEOG 1500, 1600, 2500; HIST 1100, 1200, 2100, 2200, 2400; POLS 1300, 2500; PSYC 1500; SOCY 1150