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Electronics Engineering Technology

Program Description

The Electronic Engineering Technology (EET) Program at Grayson County College prepares students for opportunities as electronic technicians for industries. Instruction is given with an emphasis on hands-on experience to develop an understanding of the operation of electronic circuits so that problems can be diagnosed efficiently.

Industrial electronic technicians usually work with engineers in the maintenance of electronics systems used throughout an industrial plant.

The Electronic Engineering Technology (EET) Program offers the Associate of Applied Science Degree, Basic Electronics Certificate, Telecommunications Certificate, Analog Certificate, Digital Certificate, Industrial Electronics Certificate, Semiconductor Manufacturing Certificate and Advanced Skills Certificates. See the GCC Catalog for more information.

Degree Plan

First Semester	Semester Hours	Second Semester	Semester Hours
CETT 1403	4	CETT 1405	4
ITSC 1309	3	CETT 1429	4
DFTG 1358	3	CETT 1425	4
Social Science/ Behavior Science	<u>3</u>	MATH 1314	3
	13	ENGL 1301	<u>3</u>
			18
Third Semester	Semester Hours	Fourth Semester	Semester Hours
CETT 1441	4	ELMT 2437	4
EECT 2439	4	ELMT 2335	3
SPCH 1311	3	Technical	
ELMT 2437	4	Electives *	6
CPMT 1311	<u>3</u>	Fine Arts/ Humanities	<u>3</u>
	18		16

Basic Electronics Certificate

First Semester	Semester Hours	Second Semester	Semester Hours
CETT 1403	4	CETT 1429	4
DFTG 1358	3	CETT 1405	4
ITSC 1309	3	CETT 1425	<u>4</u>
Social Science/ Behavior Science	<u>3</u>		12
	13		

Digital Systems Certificate

First Semester	Semester Hours	Second Semester	Semester Hours
CETT 1425	4	CETT 1445	4
CETT 1403	<u>4</u>	CETT 1405	<u>4</u>
	8		8

Biomedical Electronics

First Semester	
Subject	Semester Hours
BIOM 2331	3
INTC 1452	4
BIOL 2404	<u>4</u>
	11

- Note Technical electives should be selected with your advisor's consent.

Capstone Experience

All certificates require a comprehensive exit exam. The capstone requirement for this degree is the successful completion of International Society of Certified Electronics Technician's (ISCET) Associate-level CET exam.

Semiconductor Manufacturing Certificate

First Semester	Semester Hours	Second Semester	Semester Hours
CETT 1403	4	CETT 1405	4
CETT 1425	4	CETT 1429	4
QCTC 1341	3	IEIR 1310	3
CHEM 1311	3	ELMT 2341	3
CHEM 1111	<u>1</u>	SMFT 1341	<u>3</u>
	15		17
Third Semester	Semester Hours	Fourth Semester	Semester Hours
ELMT 1305	3		
RBTC 1301	3		
SMFT 1343	3		
SMFT 2331	3		
PHYS 1401	<u>4</u>		
	16		

NOTES:

Students specializing in biomedical electronics should complete BIOM 2331, INTC 1452, & BIOL 2404.

Students specializing in semiconductor manufacturing electronics should complete SMFT 1341, SMFT 2341, & a technical elective selected with your advisor's consent.

Job Outlook

Electrical and electronics engineering graduates should have favorable job opportunities. The number of job opening resulting from employment growth and the need to replace electronic technicians who transfer to other occupations or leave the labor force is expected to be in rough balance with the supply of graduates. Employment of electronic technicians is expected to grow faster than the average for all occupations through 2008.

Projected job growth stems largely from increased demand for electronic goods, including computers and communications equipment. The need for electronics manufacturers to invest heavily in research and development to remain competitive and have a scientific edge will provide openings for graduates who have learned the latest technologies.

Opportunities for electronics technicians in defense-related firms should improve as aircraft and weapons systems are upgraded with improved navigation, control, guidance and targeting systems. However, job growth is expected to be fastest in service industries – particularly consulting firms that provide electronic engineering expertise.

Course Requirements

The Electronic Engineering Program requires that you have a High School Diploma or an equivalent to.

The Associate of Applied Science Degree requires that you have taken and passed the THEA test.

Anticipated Costs For Two Years

The following are approximate anticipated costs for the Electronic Engineering Technology program. Prices are subject to change without notice.

Tuition (in-district) All Courses	\$2,730.00
Lab Fees	330.00
Matriculation Fees	40.00
Parking Fees	60.00
Student ID	10.00
Equipment	118.00
Tools and Supplies	65.00
Books	1,891.00
Approximate Total	\$5,244.00

Local Employers

MEMC
Texas Instruments
Globaltech
Folgers
Fisher Controls

For more information please contact:

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