ELECTRONICS COMMUNICATIONS

Pathway: Advanced Transportation & Manufacturing
Chair: Jess Guerra, Room OH/F-225H
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Award Title	Award Type	GE Units	Required Course Units	Major Elective Units	Major Units
Electronics Communications*	A.S.	21*	44	-	44
Electronics Communications	C		44	-	44

At least 60 degree applicable units are required to earn an Associate degree.

*This Associate Degree is eligible for a reduction of General Education requirements from 21 to 18 units; please consult with a counselor for more details.

PROGRAM OVERVIEW

This program covers, circuit analysis of several complete FM systems. By completing the certificate and/or degree, students will be able to pass the Federal Communications Commission (FCC) Examination. In addition, by fulfilling the program requirements, students are proficient in the operation of AM/FM Transmitters and can trouble shoot AM/FM Receivers as well as install C Band, K/U Band, and digital satellites systems (DSS). Students will also have an understating of cordless phones, microwave receivers/transmitters, and cell phone systems.

PROGRAM LEARNING OUTCOMES (PLOs)

Upon completion of the Degree/Certificate program, students are able to:

1. Read electronic symbols and schematic diagrams.
2. Perform mathematical calculations and measurements related to electronics circuit analysis.
3. Troubleshoot and construct electronics communication devices, such as semiconductors devices and digital circuits, utilizing electronics communications, microcomputer, and/or cabling theory.

USEFUL LATTC LINKS:

College Catalog: http://college.lattc.edu/catalog/
Financial Aid Office: http://college.lattc.edu/financialaid/
Counseling Department: http://college.lattc.edu/counseling/
General Education Information: http://college.lattc.edu/catalog
Advanced Transportation & Manufacturing Pathway: http://pathways.lattc.edu/atm

You can register in these classes by logging on to the Student Information System at http://college.lattc.edu/student/new-students/register-now/

For additional information consult a LATTC college counselor.

ELECTRONICS COMMUNICATIONS
Associate in Science Degree
Major Units: 44

Requirements for the Associate in Science degree in Electronics Communications may be met by completing 44 units of Required Courses with a "C" or better along with General Education units. Information on the General Education unit requirements may be found in the catalog under Graduation Requirements.

REQUIRED COURSES

SEMESTER I		UNITS
ETNTLGY 150	Soldering Surface Mount Technology	3
ETNTLGY 151	DC Theory and Circuit Fundamentals	3
ETNTLGY 152	DC Theory and Circuit Fundamentals Lab	2
ETNTLGY 153	Applied DC Calculations	1
ETNTLGY 254	Computer Applications for Electronics Technology	3

SEMESTER II		UNITS
ETNTLGY 154	AC Theory and Circuit Fundamentals	3
ETNTLGY 155	AC Theory and Circuit Fundamentals Lab	2
ETNTLGY 156	Applied AC Calculations	1
ETNTLGY 255	Computer-Based Electronics I	1
PHYSICS 011	Introductory Physics	4

SEMESTER III		UNITS
ETNTLGY 157	Semiconductors Devices and Applications	3
ETNTLGY 158	Semiconductors Devices and Electronics Laboratory	3
ETNTLGY 159	Digital Circuits and Applications	3
ETNTLGY 160	Digital Circuits and Applications Lab	2

SEMESTER IV		UNITS
ETNTLGY 161	F.C.C. Radio Operator License	3
ETNTLGY 162	Introduction to Electronics Communications	3
ETNTLGY 163	Introduction to Electronics Communications Lab	3
ECONMT 142	Basic Programmable Logic Controls (PLC)	1

SUPPLEMENTARY ELECTIVES

		UNITS
ETNTLGY 252	Networking Cabling Specialist	3
ETNTLGY 253	Fiber Optics	3
MICROTK 077	Cisco Networking Academy-Semester I	3
MICROTK 160	I.T. Essentials Application Software Fundamentals	2
MICROTK 162	I.T. Essentials Networking Personal Computers	4
MICROTK 164	I.T. Essentials Microcomputer Theory and Servicing	5

ELECTRONICS COMMUNICATIONS
Certificate of Achievement
Major Units: 44

A Certificate of Achievement in Electronics Communications may be earned by completing 44 units of Required Courses listed under the Associate degree in Electronics Communications with a "C" or better in each course.