

ELECTRONICS COMMUNICATIONS



Pathway: Advanced Transportation & Manufacturing
 Office: B1 - Room 225
 Email: ATMpathway@lattc.edu
 Phone: (213) 763-7081

Award Title	Academic Plan	Award Type	GE Units	Required Course Units	Major Elective Units	Major Units
Electronics Communications	T002902C	A.S.	21*	44	-	44
Electronics Communications	T021841D	C		44	-	44

At least 60 degree applicable units are required to earn an Associate degree.
 *GE Units requirements may be fulfilled by completing any General Education Pattern; please consult with a counselor for more details.
 These programs are Financial Aid Eligible.

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:

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

USEFUL LATTTC LINKS:

College Catalog, Class Schedule & more: <http://www.lattc.edu/academics>
 Financial Aid Office: <http://www.lattc.edu/services/financial-aid>
 Counseling Services & Support: <http://www.lattc.edu/services/support>
 Advanced Transportation & Manufacturing Pathway: <http://www.lattc.edu/ATM>

To register: <http://www.lattc.edu/student-guides/new-student-guide>
 For additional information consult a LATTTC 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
ETNTLY 150	Soldering Surface Mount Technology	3
ETNTLY 151	DC Theory and Circuit Fundamentals	3
ETNTLY 152	DC Theory and Circuit Fundamentals Lab	2
ETNTLY 153	Applied DC Calculations	1
ETNTLY 254	Computer Applications for Electronics Technology	3

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

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

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

SUPPLEMENTARY ELECTIVES		UNITS
ETNTLY 252	Networking Cabling Specialist	3
ETNTLY 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.

NOTE: Students are required to provide basic hand tools, Transportation Technology uniform and personal safety equipment.