Electronics Technology, AAS

Electronics technology influences almost every aspect of modern life. Skilled electronics technicians are needed to support growth in this industry. These technicians fabricate, test, install, operate, troubleshoot and maintain highly technical systems such as communications systems, computers and computer networks, industrial process control systems, avionics, biomedical electronics, and photonics systems.

The program focuses on the underlying principles of electronic devices, circuit analysis, and digital electronics and will provide a broad systems view of electronics. Students in the electronics program work with excellent facilities that include some of the latest laboratory equipment.

Graduates of the program will have the opportunity for employment in one of today's most challenging and exciting career fields.

(Major Code 2690; State CIP Code 47.0101)

Electronics Technology Program web page (http://www.jccc.edu/academics/credit/electronics-technology/)

Associate of Applied Science Degree

First Semester

COMS 155Workplace SkillsELEC 120Introduction to ElectronicsELEC 125Digital Electronics IELEC 134DC Circuits*MATH 130Technical Mathematics I* (or higher)
ELEC 120 Introduction to Electronics ELEC 125 Digital Electronics I
ELEC 120 Introduction to Electronics
COMS 155 Workplace Skills

Second Semester

Total Hours		18
MATH 131	Technical Mathematics II* (or higher)	3
ELEC 234	AC Circuits*	4
ELEC 227	Digital Electronics II*	4
ELEC 186	CompTIA A+ Essentials	3
CS 134	Programming Fundamentals	4

Third Semester

Total Hours		
Technical Elective (see below)		3
Social Science/Economics Elective^		3
ENGL 121	Composition I*	3
ELEC 236	Semiconductor Devices*	4
ELEC 235	Digital Systems and Applications*	4

Total Hours

See all AAS general education electives (http://catalog.jccc.edu/degreerequirements/associate-applied-science/) ٨

Fourth Semester

Total Hours		15
Technical Elective (see below)		6
Humanities Elective^		3
HPER 200	First Aid and CPR	2
ELEC 240	Electronic Communication Systems*	4

See all AAS general education electives (http://catalog.jccc.edu/degreerequirements/associate-applied-science/) ٨

Total Program Hours: 65 Technical Electives

AET 140	Actuator and Sensor Systems*	3
AET 160	Programmable Logic Controllers I*	3
AET 185	LAN Cabling and Installation	3
AET 240	Industrial Robotics*	3
BIOL 144	Human Anatomy and Physiology*	5
COLL 150	Job Search Skills	1
CS 200	Concepts of Programming Algorithms Using C++*	4
CS 201	Concepts of Programming Algorithms using C#*	4
CS 205	Concepts of Programming Algorithms using Java*	4
ELEC 212	Fundamentals of Light and Lasers*	3
ELEC 250	Microcomputer Maintenance*	3
ELEC 251	Laser Systems and Applications*	3
ELEC 252	Specialized Lasers and System Integration*	3
ELEC 271	Electronics Internship*	1
ENGL 123	Technical Writing I*	3
HC 130	Medical Terminology for Healthcare Professions	3
IT 120	CompTIA A+ Practical Applications	3
IT 141	Introduction to Networks	3