

## **Electronics Engineering Technology, A.A.A.S**

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(Code 906)

### GRCC Program:

The Electronics Engineering Technology program at GRCC prepares students to enter the growing and complex field of electronics technology. Electronics technicians work in manufacturing, industry, business, and medical facilities. They operate various types of electronic equipment, industrial control systems, and computer systems. They also provide technical assistance in designing, constructing, measuring, and analyzing circuits.

Electronics Technology students at GRCC study the theory of electricity and electronics, analog circuits, digital circuits, computer systems, equipment theory and applications, and electronic servicing. Course work includes extensive hands-on activities related to the field of electronics engineering technology.

Students who wish to pursue an associate's degree in Electronics Engineering Technology need to specialize in specific areas of interest by selecting one of the three tracks; Electronics Technology, Biomedical Electronics, and Computer Electronics. Students who complete the AAAS program will also have the ability to increase their knowledge base by pursuing additional tracks.

5/9/2006

Students entering this program should meet the college's minimum entrance requirements in Reading, Mathematics and English.

## Biomedical Electronics Track

### First Year

First Semester (Suggested Sequence)	Credits
EL 106 Technical Electricity	(4/6)
EL 144 Basic Electricity and Electronics	(4/6)
EL 107 Technical Electronics	(4/6)
EL 132 Electronics Mathematics	(4/4)
MA 107 Inter. Algebra or Higher Math	(4/4)
EN 100 College Writing	(3/3)
EN 101 English Composition 1	(3/3)

Total Credits 15 Minimum

### Second Year

Third Semester	Credits
EL 203 Applied Measurements	(4/6)
EL 261 Microcomputer Programming and app.	(3/4)
EL 263 Micro-Controller Systems Part 1	(3/4)
GH 110 Medical Terminology 1	(2/2)
GH 111 Medical Terminology 2	(2/2)
GH 126 Microbiology for Health Care	(1/1)

Total Credits 15 Minimum

### Second Semester (Suggested Sequence)

BI117 General Human Anatomy and Physiology	(4/6)
EL 108 Electronics Servicing	(3/4)
EL 163 Electrical Troubleshooting	(2/2)
EL 161 Introduction to Digital Logic	(3/4)
EL 262 Digital Logic Circuits (Advanced)	(3/4)
Program Elective	(2/3)
WE_ Wellness Elective (min. of 1 credit)	(1/2)

Total Credits 15 Minimum

### Fourth Semester

CIS 233 Network +	(3/3)
HUM_ Humanities Elective (min. of 3 credits)	(3/3)
EL 272 Servicing Elect Sys for Biomedical Equip	(4/6)
EN 102 English Composition 2	(3/3)
PS 110 Survey of American Government	(3/3)

Total Credits 16 Minimum

Total Credits: 61 Minimum

### Program Electives (min. of 2 credits)

EL 160 Electronic Fabrication
EL 162 Control Systems
EL 164 Programmable Logic Controllers
EG 110 Industrial Graphics with CAD