

## **Electronics Technology** 470105 ILT **Associate in Applied Science Degree**

Available: Shoals Campus  
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This degree is designed to provide the student with proficiency in electronic devices and equipment. Theory and laboratory courses in basic electronics, electronic circuits, communications, computers, and industrial electronics, as well as general education courses in math, English, physics, psychology, and humanities provide the knowledge and skills necessary to gain employment in electronics with opportunities to advance to positions of greater responsibility.

The degree prepares the student to observe necessary safety precautions; assemble, install, operate, troubleshoot, repair, maintain, calibrate, and modify electronic circuitry, equipment and systems; construct breadboards, and mock-ups; set up test apparatus, conduct tests, and analyze test results; prepare reports, sketches, graphs, and schematic drawings; and perform necessary mathematical calculations.

**All entering students are required to complete ORI 101 unless transferred from another university or college.**

General Education Requirements	Semester		
	Theory	Lab	Hours
***ENG 101 English Composition I	3	0	3
*ENG 130 Technical Report Writing	3	0	3
MTH 103 Introduction to Technical Mathematics	3	0	3
MTH 118 Technical Mathematics	3	0	3
PHY 115 Technical Physics	3	2	4
PSY 200 General Psychology	3	0	3
Humanities or Fine Arts Elective	3	0	3
<b>Total General Education Requirements</b>	<b>22</b>		

### Major Requirements

ILT 106 Concepts of Direct Current	3	6	5
ILT 107 Concepts of Alternating Current	3	6	5
ILT 112 Concepts of Digital Circuits	3	6	5
ILT 113 Concepts of Electronic Circuits	3	6	5
ILT 125 Digital Communications	3	0	3
ILT 126 Digital Communications Lab	0	6	2
ILT 133 Electronic Drafting	0	3	1
ILT 164 Circuit Fabrication I	0	3	1
ILT 194 Programmable Logic Controllers I	2	3	3
ILT 201 Industrial Electronics	3	0	3
ILT 202 Industrial Electronics Lab	0	6	2
ILT 205 Microprocessors	3	0	3
ILT 206 Microprocessors Lab	0	6	2
ILT 234 Microprocessor Systems Troubleshooting	1	3	2
ILT 267 RF Communications	3	0	3
ILT 268 RF Communications Lab	0	6	2
Electronics Electives	X	X	6
<b>Total Major Requirements</b>	<b>53</b>		

**Total Semester Credit Hours** ..... 75

### Electronics Electives

ILT 129 Personal Computer Hardware
ILT 130 Personal Computer Software Installation and Maint.
ILT 131 Personal Computer Problem Determination
ILT 132 Programming Survey for Technicians
ILT 135 Local Area Networks
ILT 169 Hydraulics/Pneumatics
ILT 175 Computer Fundamentals for Technology Students
ILT 180 Special Topics
ILT 196 Programmable Logic Controllers II
ILT 203 Biomedical Electronics I
ILT 204 Biomedical Electronics II
ILT 216 Industrial Robotics
ILT 228 FCC General Radiotelephone License Prep
ILT 232 PC Repair Clinical
ILT 239 Certification Preparation
ILT 271 Independent Study
ILT 272 Independent Study
ILT 273 Independent Study
ILT 274 Independent Study
ILT 280 Special Topics
ILT 280A A+ Certification Preparation
ILT 280B Network+ Certification Preparation
ILT 280E EEI Test Preparation
ILT 294 Biomedical Electronics Clinical I
ILT 295 Biomedical Electronics Clinical II

NOTE: Two Electronics Electives totaling 6 sem. hours are required.

Student should consult advisor concerning possible electives from other program areas.

\*Students who have completed ENG 130 prior to Spring 2000, and students substituting ENG 102 must take Speech.

\*\*Computer competency skills are embedded within one or more courses required in this curriculum.

\*\*\*Keyboarding skills are essential for the successful completion of English 101.

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