

## Electronic Equipment Service Technology

### FACULTY

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<http://www.bates.ctc.edu/eest>

Students prepare for careers in the electronic equipment service profession as technicians in a wide range of high tech industries, including broadcast audio, broadcast video, car audio, electronic service, medical equipment repair, office automation, and video tape. Employment opportunities may also include mobile electronics installer and electronic assembler. Students acquire and hone service technician skills through extensive practice with live equipment, and prepare for industry certification as Certified Electronics Technicians, Mobile Electronics Certified Professionals, and Certified Broadcast Technologists. This program also provides extended learning opportunities for persons previously or currently employed in these and related occupations.

### Associate of Technology Degree: 130 credits

#### Electronic Equipment Service Technology

	<u>Credits/Hours</u>
Completion Range: 16-22 Months	
ELES 091 Occupational Human Relations	1/17
ELEQ 092 Occupational Communications	6/100
ELEQ 093 Occupational Math	4.5/70
ELEQ 094 Safety Principles	3/50
ELEQ 101 Electronics Principles I	16/270
ELEQ 102 Electronics Principles II	10/170
ELEQ 103 Electronics Principles III	10/170
ELEQ 110 Antenna and Satellite Systems	2/35
ELEQ 120 Magnetic & Laser Mediums	3/50
ELEQ 130 RF Receivers & Audio Amps	9.5/155
ELEQ 150 Troubleshooting & Non-Specific Servicing	11/180
ELEQ 201 Video/Projection & Raster Scan I	14/230
ELEQ 202 Video/Projection & Raster Scan II	12/200
ELEQ 203 Video/Projection & Raster Scan III	3/53
ELEQ 204 Video/Projection & Raster Scan IV	9.5/155
ELEQ 205 Video/Projection & Raster Scan V	9/150
ELEQ 230 Video Tape Recorder Troubleshooting	6/100
ELEQ 231 Servicing Heads	1/20
ELEQ 232 VTR Capstans & Drums	4/66
ELEQ 233 VTR Motor Assemblies	4/66
ELEQ 234 VTR Loading Mechanisms	4/66
ELEQ 235 VTR Tape Handling	4/66
ELEQ 236 VTR PC Boards	4/66
ELEQ 250 VC/Camcorder Troubleshooting	5/80
ELEQ 252 VC/Camcorder Capstans & Drums	4/66
ELEQ 253 VC/Camcorder Motor Assemblies	4/66
ELEQ 254 VC/Camcorder Loading Mechanisms	4/66
ELEQ 255 VC/Camcorder Tape Handling	4/66
ELEQ 256 VC/Camcorder Lens Assembly	6.5/106

#### General Education Requirements

	<u>Credits</u>
100-level or> Human Relations – HREL, PSYCH, SOC or CMST	5
100-level or> Communications – ENGL or CMST	5
100-level or> Mathematics – MATH	5

### Certificate of Competency: 74.5 credits

#### Basic Electronics Service

	<u>Credits/Hours</u>
Completion Range: 9-15 Months	
ELES 091 Occupational Human Relations	1/17
ELEQ 094 Safety Principles	3/50
ELEQ 101 Electronics Principles I	16/270
ELEQ 102 Electronics Principles II	10/170
ELEQ 103 Electronics Principles III	10/170
ELEQ 110 Antenna and Satellite Systems	2/35
ELEQ 120 Magnetic & Laser Mediums	3/50
ELEQ 130 RF Receivers & Audio Amps	9.5/155
ELEQ 150 Troubleshooting & Non-Specific Servicing	11/180

#### General Education Requirements

	<u>Credits</u>
90-level or> Human Relations – HREL, PSYCH, SOC or CMST	3
90-level or> Communications – ENGL or CMST	3
90-level or> Mathematics – MATH	3

90-level credit units apply toward meeting certificate requirements, but do not apply toward degree requirements.