Electrical Technology Career

Program Goals Statement

This program prepares students to work as technicians in many positions for which training in electricity and electronics technology is required. Some of the most common areas with job opportunities are solar energy, industrial manufacturing, research and development laboratory, field service, technical writer, and technical sales.

Program Information

• All technical courses use computer applications, and laboratories are equipped with modern test equipment.

• Every technical course has a related laboratory, which provides hands-on experience.

After Bristol

• Graduates can work as an equipment installation technician, central office technician, computer technician, engineering assistant, manufacturing lab technician, solar technician, field service and installation technician, or customer support specialist.

• If you plan to transfer to a four-year institution, speak with your advisor and visit the Transfer Affairs website at www.BristolCC.edu/transfer

Infused General Education Competencies

Oral Communication

Subject: Engineering
Type: Associate Degree

Campus

Campus:
Fall River
Item #
Title
Credits

General Education courses

Item #	Title	Credits
CSS 101	College Success Seminar	1
ENG 101	Composition I: College Writing	3
ENG 102	Composition II: Writing about Literature	3

Historical Awareness - Choose one

Item #	Title	Credits
HST 113	United States History to 1877	3
HST 114	United States History from 1877	3

Humanities - Choose one

(May choose *any* Humanities elective, but the following are recommended.)

Item #	Title	Credits
ARC 201	Introduction to American Architecture	3
COM 101	Fundamentals of Public Speaking	3
COM 114	Professional Speaking	3
PHL 152	Ethics: Making Ethical Decisions in a Modern World	3
	Modern Language Elective	3

Social Phenomenon - Choose one

Item #	Title	Credits
GVT 111	U.S. Government	3
GVT 112	Comparative Government	3
HST 111	The West and the World I	3
HST 112	The West and the World II	3
HST 113	United States History to 1877	3
HST 114	United States History from 1877	3
HST 257	History of Modern East Asia (China and Japan)	3
PSY 271	Global Leadership	3

Program Courses

Item #	Title	Credits
EGR 131	Introduction to Electrical Circuits	4
EGR 132	Electrical Circuits	4
EGR 133	Computer Configuration and Repair	4
EGR 137	Digital Electronics	4
EGR 211	Programmable Control Systems	4
EGR 235	Electronic Theory I	4

Program Courses - Choose one

Item #	Title	Credits
EGR 102	Introduction to Sustainable and Green Energy Technologies	3
EGR 103	Computer Skills for Engineers and Technicians	3

Program Electives - Choose one

Item #	Title	Credits
CIS 121	Operating Systems	3
CIS 160	The Microcomputer Environment	3
INT 110	Internship Experience	2
CHM 113	Fundamentals of Chemistry I	4
EGR 113	Introduction to Robotics	4
EGR 282	Wind Power Technology	4
EGR 284	Solar Power	4
EGR 299	Engineering Projects	4

Math Courses

Choose Two Sequential Math Courses:

Item #	Title	Credits
MTH 152	College Algebra	3
MTH 172	Precalculus with Trigonometry	4
MTH 214	Calculus I	4
MTH 215	Calculus II	4
MTH 172	Precalculus with Trigonometry	4
MTH 214	Calculus I	4

Science Courses

(For students with adequate Mathematics preparedness that are interested in transfer, PHY 211 & PHY 212 can be substituted for PHY 101 & PHY 102.)

Item #	Title	Credits
PHY 101	Technical Physics I	4
PHY 102	Technical Physics II	4

Recommended Course Sequence - Semester 1

Item #	Title	Credits
CSS 101	College Success Seminar	1
ENG 101	Composition I: College Writing	3
PHY 101	Technical Physics I	4
EGR 131	Introduction to Electrical Circuits	4
MTH 152	College Algebra	3
MTH 172	Precalculus with Trigonometry	4
MTH 214	Calculus I	4

Recommended Course Sequence - Semester 2

Item #	Title	Credits
EGR 132	Electrical Circuits	4
PHY 102	Technical Physics II	4
EGR 102	Introduction to Sustainable and Green Energy Technologies	3
EGR 103	Computer Skills for Engineers and Technicians	3
MTH 172	Precalculus with Trigonometry	4
MTH 214	Calculus I	4
MTH 215	Calculus II	4

Recommended Course Sequence - Semester 3

Item #	Title	Credits
ENG 102	Composition II: Writing about Literature	3
HST 113	United States History to 1877	3
HST 114	United States History from 1877	3
	Social Phenomenon Elective	3
	Humanities Elective	3
EGR 137	Digital Electronics	4
EGR 235	Electronic Theory I	4

Recommended Course Sequence - Semester 4

Item #	Title	Credits
EGR 133	Computer Configuration and Repair	4
EGR 211	Programmable Control Systems	4
	Social Phenomenon Elective	3
	Humanities Elective	3
	Program Elective	3-4
	Total credits:	**61-63**