



Architectural and Civil Technology Career

Program Goals Statement

This concentration prepares students to work as technicians for engineering consulting firms, structural engineers, architects, bridge inspectors, contractors and structural manufacturing companies.

Program Information

- Students learn in modern laboratories on the latest computers and software and are taught by faculty with many years of professional experience. Students receive many hours of hands-on experience as well as exposure to background theory.

After Bristol

- Graduates work as home building contractors, design construction technicians, structural computer-aided designers, and industrial and commercial building fabricators.
- If you plan to transfer to a four-year institution, speak with your advisor and visit the Transfer Affairs website at BristolCC.edu/transfer

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
ARC 201	Introduction to American Architecture	3



Social Phenomenon - Choose one

Item #	Title	Credits
ART 106	Survey of Art History II: Modern Art	3
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
SOC 101	Principles of Sociology	3
SOC 212	The Sociology of Social Problems	3
SOC 252	The Sociology of Human Relations	3

Historical Awareness - Choose One

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

Program Courses

Item #	Title	Credits
CAD 101	Computer Aided Drafting	3
CAD 122	Architectural Drawing	3
EGR 124	Soils and Foundations	3
EGR 125	Construction Estimating	3
EGR 221	Surveying I	4
EGR 222	Surveying II	4
EGR 251	Statics	3
EGR 254	Mechanics of Materials and Structures	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
CAD 128	Civil Drafting and Design	3
CAD 125	3D Architecture, Building, and Landscape Design	3
INT 110	Internship Experience	2
CHM 113	Fundamentals of Chemistry I	4
EGR 226	Legal Aspects of Boundary Surveying	3
GIS 101	Introduction to Geographic Information Systems	3
EGR 299	Engineering Projects	4
PHY 102	Technical Physics II	4

Math and Science Courses

For students with adequate mathematic preparedness and interested in transfer, PHY 211 may be substituted for PHY 101

Item #	Title	Credits
PHY 101	Technical Physics I	4

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

Recommended Course Sequence - Semester 1

Item #	Title	Credits
CSS 101	College Success Seminar	1
ENG 101	Composition I: College Writing	3
EGR 125	Construction Estimating	3
PHY 101	Technical Physics I	4
	MTH 152 or MTH 172 or MTH 214	3-4



Recommended Course Sequence - Semester 2

Item #	Title	Credits
EGR 124	Soils and Foundations	3
ENG 102	Composition II: Writing about Literature	3
	MTH 172 or MTH 214 or MTH 215	4
CAD 101	Computer Aided Drafting	3
	EGR 102 or EGR 103	3

Recommended Course Sequence - Semester 3

Item #	Title	Credits
EGR 221	Surveying I	4
EGR 251	Statics	3
	HST 113 or HST 114	3
	Program Elective	3-4

Recommended Course Sequence - Semester 4

Item #	Title	Credits
EGR 222	Surveying II	4
EGR 254	Mechanics of Materials and Structures	4
CAD 122	Architectural Drawing	3
ARC 201	Introduction to American Architecture	3
	Social Phenomenon Elective	3
	Total credits:	60-62