Engineering Technology/Marine Science and Technology Career

Program Goals Statement

This program is designed to prepare students as technicians and scientists working in various areas of the marine industry and marine research. Participants gain an understanding of aquatic life, ocean science, marine and environmental technologies, and have the opportunity to select specialized courses in the areas of at-sea monitoring/fisheries technology, marine science transfer, oceanographic instrumentation/remotely operated vehicle (ROV) technology, renewable energy and water quality.

Program Information

• Choose electives to specialize if desired.

• Some elective courses in this program are only available in the evening and/or at satellite locations.

• Many marine industry and research careers require good physical health and the ability to swim. Students with issues in this area should discuss them with the program director before enrollment.

After Bristol

• Graduates can work as technicians in a variety of marine trades professions, such as fisheries observers, oceanography and hydrographic survey technicians, remotely operated vehicle (ROV) technicians or water quality professionals.

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

Subject: Engineering
Type: Associate Degree

Campus

Campus:
Fall River
Item #
Title
Credits

General 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

Choose one

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

Elective Courses

Humanities: See General Education Competency Courses (ARC 201, COM 101, COM 114, PHL 152, or modern language recommended)

Social Phenomenon: Choose from ART 106, GVT 111, GVT 112, HST 111, HST 112, HST 113, HST 114, HST 257, PSY 271, SOC 101, SOC 212, or SOC 252

Item #	Title	Credits
	Humanities Elective	3
	Social Phenomenon Elective	3

Core Courses

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

Core Electives – Choose three from BIO 121, BIO 122, BIO 130, CED 210, CED 220, CHM 114, CHM 120, EGR 140, EGR 151, EGR 162, EGR 171, ECG 172, EGR 241, EGE 242, EGR 244, EGR 245, EGR264, EGR 268, EGR 282, EGR 284, or EGR 299

Item #	Title	Credits
	Technical Elective	3
	Technical Elective	3
	Technical Elective	3
	Technical Elective	3

Math Courses - Choose one sequence

For students with adequate Mathematics preparedness and interested in Transfer, MTH 152 and MTH 172 can be substituted for MTH 141 and MTH 142

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

Science Courses

Item #	Title	Credits
BIO 132	Marine Biology	4
CHM 113	Fundamentals of Chemistry I	4
EGR 141	Introduction to Environment	3
GIS 101	Introduction to Geographic Information Systems	3
PHY 101	Technical Physics I	4
PHY 211	General Physics I	4
SCI 119	Coastal Science	4
SCI 240	Introduction to Oceanography	4

Recommended Course Sequence - Semester 1

Item #	Title	Credits
CSS 101	College Success Seminar	1
EGR 102	Introduction to Sustainable and Green Energy Technologies	3
EGR 103	Computer Skills for Engineers and Technicians	3
ENG 101	Composition I: College Writing	3
MTH 152	College Algebra	3
MTH 172	Precalculus with Trigonometry	4
MTH 214	Calculus I	4

Recommended Course Sequence - Semester 2

Item #	Title	Credits
ENG 102	Composition II: Writing about Literature	3
SCI 119	Coastal Science	4
MTH 172	Precalculus with Trigonometry	4
MTH 214	Calculus I	4
MTH 215	Calculus II	4

Recommended Course Sequence - Summer

Summer courses will reduce fall and spring semester course loads.

Recommended Course Sequence - Semester 3

Item #	Title	Credits
CHM 113	Fundamentals of Chemistry I	4
GIS 101	Introduction to Geographic Information Systems	3
	Core Elective	3-4
	Historic Awareness Elective	3
	Humanities Elective	3

Recommended Course Sequence - Semester 4

Item #	Title	Credits
BIO 132	Marine Biology	4
PHY 101	Technical Physics I	4
SCI 240	Introduction to Oceanography	4
	Core Elective	3-4
	Total credits:	**61-65**