



Engineering Science Transfer

Program: Engineering Science

Program Code:

ET_ETS

Academic Area:

Science, Technology, Engineering and Mathematics

Type:

Associate in Science

Campus:

Fall River

CIP Code:

14.1301

Program Goals Statement

This concentration prepares students to transfer to engineering programs at four-year colleges and universities. Students choose core electives from an approved list, based on an engineering discipline of their choice. Students who are not prepared for calculus can take the prerequisite math courses at Bristol.

Program Information

- Students may also elect to be in the UMass Dartmouth/Bristol CC Cooperative Education program.

After Bristol

- Graduates of this program have successfully transferred to many four-year institutions, including Brown University, Northeastern University, University of Massachusetts, University of Rhode Island, and Worcester Polytechnic Institute.
- Bristol participates in the statewide MassTransfer program and has developed many program-to-program transfer articulation agreements which guarantee admission and credit transfer. For a complete listing of eligible MassTransfer programs and current Bristol articulation agreements, visit the Transfer Affairs website at BristolCC.edu/transfer

Infused General Education Competencies

Oral Communication

Degree Requirements



General Courses

Course #	Title	Credits
CSS 101	College Success Seminar	1
ENG 101	Composition I: College Writing	3
ENG 102	Composition II: Writing about Literature	3
ENG 215	Technical Writing	3
	HST 113 or HST 114	3

Elective Courses

Course #	Title	Credits
	Human Expression Elective	3
	Multicultural and Social Perspectives Elective	3

Program Courses

Course #	Title	Credits
EGR 204	Engineering Applications of MATLAB	1

Program Electives

Course #	Title	Credits
	Engineering Science Transfer Electives	18-24
	Recommended Transfer Electives	

Math and Science Courses

Course #	Title	Credits
CHM 113	Fundamentals of Chemistry I	4
MTH 214	Calculus I	4
MTH 215	Calculus II	4
MTH 253	Calculus III	4
MTH 254	Ordinary Differential Equations	3
PHY 211	General Physics I	4
PHY 212	General Physics II	4



Recommended Course Sequence - Semester 1

Course #	Title	Credits
CSS 101	College Success Seminar	1
CHM 113	Fundamentals of Chemistry I	4
ENG 101	Composition I: College Writing	3
MTH 214	Calculus I	4
	Multicultural and Social Perspectives Elective	3

Recommended Course Sequence - Semester 2

Course #	Title	Credits
ENG 102	Composition II: Writing about Literature	3
MTH 215	Calculus II	4
PHY 211	General Physics I	4
	Program Elective	3
	Human Expression Elective	3

Recommended Course Sequence - Summer

Summer courses will reduce fall and spring semester course loads.

Recommended Course Sequence - Semester 3

Course #	Title	Credits
MTH 253	Calculus III	4
PHY 212	General Physics II	4
	HST 113 or HST 114	3
	Program Elective	3
	Program Elective	3

Recommended Course Sequence - Semester 4

Course #	Title	Credits
EGR 204	Engineering Applications of MATLAB	1
ENG 215	Technical Writing	3
MTH 254	Ordinary Differential Equations	3
	Program Elective	3
	Program Elective	3
	Total credits:	64-71



Category Descriptions

HST 113 or HST 114

Credits: 3

Choose one of the following:

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

Human Expression Elective

Credits: 3

Choose one Human Expression elective.

Multicultural and Social Perspectives Elective

Credits: 3

Choose one Multicultural and Social Perspectives elective.

Engineering Science Transfer Electives

Credits: 18-24



Choose six of the following:

Review *recommended transfer electives* before selecting electives.

Course #	Title	Credits
BIO 126	Introduction to Biotechnology	3
BIO 127	Introduction to Biotechniques	4
BIO 145	Introduction to Forensic Science	4
CAD 101	Computer Aided Drafting	3
CAD 111	Mechanical Design with Solidworks	3
CAD 128	Civil Drafting and Design	3
CHM 114	Fundamentals of Chemistry II	4
CIS 158	Introduction to Procedural Programming	4
CIS 260	Software Specification and Design	4
EGR 103	Computer Skills for Engineers and Technicians	3
EGR 111	Fundamentals of Manual Machining	4
EGR 131	Introduction to Electrical Circuits	4
EGR 137	Digital Electronics	4
EGR 141	Introduction to Environment	3
EGR 151	Electrical Machinery	3
EGR 171	Fluid Systems	4
EGR 172	Material Science	4
EGR 211	Programmable Control Systems	4
EGR 221	Surveying I	4
EGR 222	Surveying II	4
	EGR 231 and EGR 233	4
	EGR 232 and EGR 234	4
	EGR 251 and EGR 253	4
EGR 254	Mechanics of Materials and Structures	4
EGR 255	Thermodynamics	3
EGR 272	Strength of Materials	4

Recommended Transfer Electives

To ensure transferability, consult with your advisor, applicable transfer agreements, and/or transfer institutions before selecting electives.

Course #	Title	Credits
	Bio-engineering Electives	
	Civil and Environmental Engineering Electives	
	Electrical and Computer Engineering Electives	
	Engineering Systems and Facilities Engineering Electives	
	Mechanical Engineering Electives	
	Other Engineering Disciplines	