



## Engineering - Transfer

### 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](http://BristolCC.edu/transfer)

## Infused General Education Competencies

Oral Communication

**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
ENG 215	Technical Writing	3

## Choose one of the following

Item #	Title	Credits
	HST 113 or HST 114	3

## Elective Courses

Humanities Elective: Choose from ARC 201, ART 105, ART 106, COM 160, ENG 217, ENG 251, ENG 252, ENG 257, ENG 259, ENG 261, ENG 264, HST 226, HST 252, HST 257, HST 259, HST 261, HST 265, HUM 160, HUM 254, PHL 101, or PHL 152

See General Education Competency Courses - Social Phenomenon for course listings: ECN 111, ECN 112, PHL 152, PSY 271 or SOC 101 recommended

Item #	Title	Credits
	Humanities Elective	3
	Social Phenomenon Elective	3

## Core Courses

Item #	Title	Credits
EGR 204	Engineering Applications of MATLAB	1



## Core Electives – Choose six of the following - (Refer to UMD Transfer Articulation Credits)

EGR 231/EGR 233, EGR 232/EGR 234, EGR 251/EGR 253: Each pair (lecture/lab) counts as one course towards Core Electives requirement.

<b>Item #</b>	<b>Title</b>	<b>Credits</b>
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	Electrical Engineering I	3
EGR 233	Electrical Engineering I Laboratory	1
EGR 232	Electrical Engineering II	3
EGR 234	Electrical Engineering II Laboratory	1
EGR 251	Statics	3
EGR 253	Advanced Statics	1
EGR 254	Mechanics of Materials and Structures	4
EGR 255	Thermodynamics	3
EGR 272	Strength of Materials	4



## Math and Science Courses

Item #	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

Item #	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

## Recommended Course Sequence - Semester 2

Item #	Title	Credits
ENG 102	Composition II: Writing about Literature	3
MTH 215	Calculus II	4
PHY 211	General Physics I	4

## Recommended Course Sequence - Summer

## Recommended Course Sequence - Semester 3

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

## Recommended Course Sequence - Semester 4

Item #	Title	Credits
EGR 204	Engineering Applications of MATLAB	1
ENG 215	Technical Writing	3
MTH 254	Ordinary Differential Equations	3



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**Total credits:**

**65-71**