

## Articulation Agreement

**Institution:** Bristol Community College

**Date:** Spring 2015

**Transfer Institution:** UMASS Dartmouth

**Summary of Benefits:**

- **Guaranteed Admission with a cumulative GPA of 2.5**
- **Massachusetts tuition credit for students with a cumulative GPA of 3.0 (renewable if GPA is maintained 3.0 or better)**
- **Guaranteed transfer and applicability of 65 credits**

| BCC: Engineering Transfer,<br>Engineering Science   | Credit(s) | UMassD: Mechanical Engineering  | Credit(s) |
|---|-----------|---|-----------|
| <b>General Courses</b>  |           |   |           |
| ENG 101 Comp I: College Writing   | 3         | ENL 101 Critical Writing and Reading I  | 3         |
| ENG 102 Comp II: Writing about Literature   | 3         | ENL 102 Critical Writing and Reading II   | 3         |
| ENG 215 Technical Writing   | 3         | ENL 266 Technical Communication   | 3         |
| HST 114 United States History from 1877   | 3         | HST 116 History of US II  | 3         |
| SOC 101 Principles of Sociology   | 3         | SOA 101 Introduction to Sociology   | 3         |
| PHL 101 Introduction to Philosophy<br>OR PHL 152 Ethics: Making Ethical Decisions in a Modern World                     | 3         | PHL 101 Introduction to Philosophy<br>OR PHL 215 Introduction to Ethics               | 3         |
| <b>Core Courses</b>   |           |   |           |
| CAD 111 Advanced Computer Aided Drafting  | 3         | MNE 101 Intro. to Mechanical Engineering  | 3         |
| CSS 101 College Success Sem.,<br>EGR 204 Engineering Applications of MATLAB , EGR251 Statics & EGR 253 Advanced Statics | 6         | EGR 111 Intro. to Engineering and Computing & EGR241 Engineering Mechanics I: Statics | 6         |
| EGR 231/233 Electrical Engineering with Lab I   | 4         | EGR 302 Principles and Applications of Electrical Engineering                         | 4         |
| EGR 255 Thermodynamics  | 3         | MNE 220 Engineering Thermodynamics I  | 3         |
| EGR 172 Material Science  | 4         | MNE 231 Material Science  | 4         |

| <b>Math &amp; Science Courses</b>       |           |  |           |
|---|-----------|--|-----------|
| CHM 113 Fundamentals of Chemistry I     | 4         | CHM 151 Principles of Modern Chemistry I and CHM 161 Introduction to Applied Chemistry I | 4         |
| MTH 214 Calculus I                      | 4         | MTH 111 Analytical Geometry and Calculus I   | 4         |
| MTH 215 Calculus II                     | 4         | MTH 112 Analytical Geometry and Calculus II  | 4         |
| MTH 253 Calculus III                    | 4         | MTH 211 Analytical Geometry and Calculus III   | 4         |
| MTH 254 Ordinary Differential Equations | 3         | MTH 212 Differential Equations   | 3         |
| PHY 211 General Physics I               | 4         | PHY 113 Classical Physics I  | 4         |
| PHY 212 General Physics II              | 4         | PHY 114 Classical Physics II   | 4         |
| <b>Total Credits</b>                    | <b>65</b> |  | <b>65</b> |

| <b>Additional courses eligible for transfer into UMD's Mechanical Engineering Program<br/>Choose One (course will meet major Science Elective Requirement)</b> |   |  |   |
|--|---|--|---|
| CHM 114 Fundamentals of Chemistry II   | 4 | CHM 152 Principles of Modern Chemistry II and CHM 162 Introduction to Applied Chemistry II | 4 |
| CIS158 Intro. to Procedural Programming  | 4 | ECE 160 Foundations of Computer Engineering I  | 4 |

*Note:* Students that want to be able complete their degree at UMass Dartmouth in 2 years must complete **UMass Dartmouth's MNE 252 – Mechanics of Materials and EGR 242 - Engineering Mechanics II: Dynamics** prior to transferring to UMass Dartmouth. These courses are usually offered during the Spring & Summer Semesters. Enrollment in the Spring semester may be covered by [the SACHEM Program](#).