

## Articulation Agreement of Academic Programs

between

### Bunker Hill Community College and UMass Dartmouth

The above institutions hereby enter into an agreement to facilitate the transfer of students enrolled in the Associate's Degree program in Electrical Engineering Transfer Option at Bunker Hill Community College into the Bachelor's Degree program in Computer Engineering at University of Massachusetts Dartmouth.

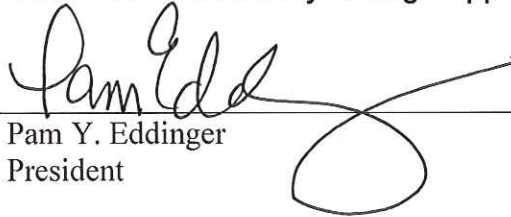
University of Massachusetts, Dartmouth's designated representative will be the Senior Coordinator for New Student Transfer and Bunker Hill Community College's representative will be the Chair of the Department of Engineering and Physical Sciences.

#### UMass Dartmouth Approval



Magali Carrera  
Vice Provost for Academic Affairs

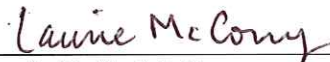
#### Bunker Hill Community College Approval



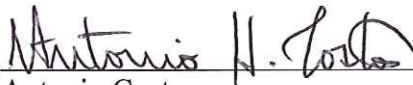
Pam Y. Eddinger  
President



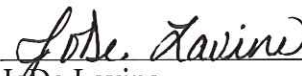
Ramprasad Balasubramanian  
Interim Dean, College of Engineering



Laurie Kelly McCorry  
Dean of Science, Engineering and Health Programs



Antonio Costa  
Chairperson, Electrical and Computer Engineering



JoDe Lavine  
Chair, Department of Engineering and Physical Sciences

Date 10/16/17

### **Objectives:**

1. To attract qualified students to Bunker Hill Community College and University of Massachusetts, Dartmouth.
2. To promote and facilitate an efficient transition of transfer students between institutions.
3. To provide specific information and guidelines for transfer students.
4. To encourage academic coordination and cooperation, including curricular reviews, on-site visits, and joint academic advising for students attending Bunker Hill Community College

### **Stipulations and Guarantees:**

1. University of Massachusetts Dartmouth guarantees acceptance of Bunker Hill Community College students who complete the Electrical Engineering Transfer Option with a cumulative GPA of 2.5.
2. Transfer students who complete the prescribed courses as designated in the attached articulation agreement with a C- or better will be guaranteed that sixty three and one-half credits will transfer and be applied to the University of Massachusetts Dartmouth Computer Engineering baccalaureate degree.
3. University of Massachusetts Dartmouth guarantees a Massachusetts tuition credit for Bunker Hill Community College students who complete the Electrical Engineering Transfer Option with a cumulative GPA of 3.0. The tuition credit is renewable if GPA is maintained at 3.0 or better.

### **Mutual Responsibilities:**

1. Both institutions agree to maintain current listings of the course equivalencies. This will be the responsibility of the two designated representatives.
2. Bunker Hill Community College and University of Massachusetts Dartmouth will incorporate a summary of this agreement into official publications and web sites.
3. Bunker Hill Community College and University of Massachusetts Dartmouth agree to encourage qualified students to participate in this program by providing information, advising and other assistance required to foster a seamless transition from the two-year institution to the four-year institution.

### **Review/Revision:**

1. Both institutions will periodically review this agreement. Substantive changes in the courses or program of either institution will require a review of this articulation agreement. Revisions will be implemented with one year notice prior to termination of the agreement.

# Articulation Agreement

**Institution:** Bunker Hill Community College

**Date:** Fall 2017

**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 63.5 credits**

BHCC: Electrical Engineering Transfer Option	Credits	UMD: Computer Engineering	Credits
<b>General Courses</b>			
ENG 111 College Writing I	3	ENL 101 Critical Writing and Reading I	3
ENG 112 College Writing II	3	ENL 102 Critical Writing and Reading II	3
Area 2 Elective*	3	University Studies	3
Area 3 Elective*	3	University Studies	3
Area 6 Elective*	3	University Studies	3
<b>Engineering Courses</b>			
ENR 101 Intro to Engineering w/lab	4	EGR 111 Intro to Engineering and Computing	3
ENR 271 Circuit Analysis Design I w/Lab	4	ECE 201 Circuit Theory I	3.5
ENR 272 Circuit Analysis Design II w/Lab	4	ECE 202 Circuit Theory II	3.5
ENR 275 Digital Logic Systems w/Lab	4	ECE 260 Digital Logic & Computer Design	3.5
CIT 120 Intro to Computer Science and OOP**	4	ECE 160 Foundations of Computer Engineering I	4
CIT 237 C++ Programming**	4	ECE 161 Foundations of Computer Engineering II	4
<b>Math &amp; Science Courses</b>			
CHM 201 General Chemistry I & Lab**	4	CHM 151 Prin. of Modern Chem. I*** & CHM 161 Intro to Applied Chem. I	3 1
MAT 281 Calculus I	4	MTH 151 Analytical Geometry and Calculus I	4
MAT 282 Calculus II	4	MTH 152 Analytical Geometry and Calculus II	4
MAT 283 Calculus III	4	MTH 211 Analytical Geometry and Calculus III	4
MAT 285 Ordinary Differential Equations	4	MTH 212 Differential Equations	3

PHY 251 College Physics I w/lab	4	PHY 113 Classical Physics I	4
PHY 252 College Physics II w/lab	4	PHY 114 Classical Physics II	4
<b>Total Credits</b>	<b>67</b>		<b>63.5</b>

Note: Students who want to be able to complete their degree at UMass Dartmouth in two (2) years must complete an equivalent course to UMass Dartmouth's **ECE 263 Embedded System Design** prior to transferring. This course is offered during the spring semester and sometimes offered in the summer. Equivalent courses from other institutions are allowed but must be approved by the department at UMassD. Speak with the Engineering advisor at UMass Dartmouth for more information.

\*Students should speak with the Engineering advisor at UMass Dartmouth about proper selection of Area courses. Ideally you will want to choose courses from the following UMass Dartmouth departments to meet these requirements: ARH, ECO, HST, HUM, MUS, PHL, PSY, SOA, SSE. Use UMass Dartmouth's equivalency database (<https://webapps.umassd.edu/transfers/>) to see how these courses transfer. Do not choose more than one course from a social science area (ECO, PSY, SOA, SSE).

\*\*Chosen as one of your Career Electives.

\*\*\*Course will be used to meet your CPE Science Elective requirement.