

# **TRANSFER ARTICULATION AGREEMENT**

**UNIVERSITY OF MASSACHUSETTS DARTMOUTH**

**and**

**BRISTOL COMMUNITY COLLEGE**

**Engineering Science Transfer Program**

**at**

**Bristol Community College**

**to**

**Computer Engineering**

**at**

**University of Massachusetts Dartmouth**

## **OBJECTIVES OF THIS AGREEMENT:**

1. To attract qualified students to Bristol Community College and the University of Massachusetts Dartmouth.
2. To promote and facilitate an efficient transition of Engineering Science Transfer graduates from Bristol Community College into the Computer Engineering major at the University of Massachusetts Dartmouth.
3. To provide specific information and guidelines for transfer students and Joint Admissions students.
4. To encourage academic coordination and cooperation between the two schools including curricular reviews, on-site visitation and joint academic advising for students attending Bristol Community College.
5. To provide a framework for the exchange of information to monitor the success of this agreement.

## **STIPULATION OF THIS AGREEMENT:**

1. This agreement will apply to Bristol Community College transfer students who have completed the Engineering Science Transfer program and received an Associate of Science degree and who followed the prescribed outline of courses.
2. Transfer students designated above will be accepted for admission and will receive junior status at the University of Massachusetts Dartmouth.

### **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. Representatives from the Bristol Community College Transfer Affairs office and the University of Massachusetts Dartmouth Admissions office will be responsible for assisting the transfer applicant in compiling the required credentials for application which shall include:
  - A. The transfer application form or the Intent to Enroll form, if the student is enrolled in Joint Admissions.
  - B. An official college transcript.

### **ASSISTANCE PROVISIONS:**

1. Bristol Community College will incorporate a summary of this agreement into official publications.
2. Bristol Community College and the University of Massachusetts Dartmouth both agree to encourage qualified students to participate in this program by providing advising, information, and such other assistance to assure that an easy transition from the two-year institution to the four-year institution will occur.

### **REVIEW/REVISION PROVISIONS:**

1. Review of the contents or implementation of this agreement will occur whenever requested by either party through the designated representatives. Such a review will be appropriate whenever substantive changes or revisions in the courses or programs of either institution occur. One year notice by either party is required for termination.

**ARTICULATION OF ACADEMIC PROGRAMS**  
**between**  
**BRISTOL COMMUNITY COLLEGE**  
**and**  
**UNIVERSITY OF MASSACHUSETTS DARTMOUTH**

The above institutions hereby enter into an agreement to facilitate the transfer of students enrolled in the Associate of Science degree program in Engineering Science Transfer at Bristol Community College into the Bachelor of Science degree in Computer Engineering at the University of Massachusetts Dartmouth.

The University of Massachusetts Dartmouth's designated representative will be the Director of New Student Transfer and Bristol Community College's representative will be the Director of Transfer Affairs and Articulation.

**FOR BRISTOL COMMUNITY COLLEGE**

**FOR THE UNIVERSITY OF  
MASSACHUSETTS DARTMOUTH**

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Karen Dixon  
*Acting Dean of Academic Affairs*

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Richard Panofsky  
*Associate Vice Chancellor for Academic  
Affairs and Graduate Studies*

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Vijay Raja  
*Assistant Dean, Mathematics  
Science and Engineering*

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Antonio Costa  
*Dean, College of Engineering*

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Anthony Ucci  
*Department Chairperson for Engineering*

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Dayalan Kasilingam  
*Department Chairperson for  
Electrical and Computer Engineering*

**TRANSFER ARTICULATION AGREEMENT BETWEEN  
BRISTOL COMMUNITY COLLEGE (BCC) AND THE COLLEGE OF ENGINEERING AT UMASS DARTMOUTH**

| TRANSFER ARTICULATION AGREEMENT BETWEEN<br>BRISTOL COMMUNITY COLLEGE (BCC) AND THE COLLEGE OF ENGINEERING AT UMASS DARTMOUTH |                |                                                                                    |                |
|------------------------------------------------------------------------------------------------------------------------------|----------------|------------------------------------------------------------------------------------|----------------|
| <b>BCC Program:</b>                                                                                                          |                | <b>UMass Dartmouth Programs:</b>                                                   |                |
| <b>Engineering Science Transfer</b>                                                                                          |                | <b>Civil Engineering</b>                                                           |                |
|                                                                                                                              | <b>Credits</b> | <b>Computer Engineering</b>                                                        |                |
|                                                                                                                              |                | <b>Electrical Engineering</b>                                                      |                |
|                                                                                                                              |                | <b>Materials (Materials &amp; Bio-Materials Engineering Option)</b>                |                |
|                                                                                                                              |                | <b>Mechanical Engineering</b>                                                      |                |
|                                                                                                                              |                |                                                                                    | <b>Credits</b> |
| <b>General and Elective Courses</b>                                                                                          |                | <b>UMass Dartmouth Equivalent Courses</b>                                          |                |
| ENG 11 College Writing                                                                                                       | 3              | ENL 101 Critical Writing and Reading I                                             | 3              |
| ENG 12 Introduction to Literature                                                                                            | 3              | ENL 102 Critical Writing and Reading II                                            | 3              |
| ENG 15 Technical Writing                                                                                                     | 3              | ENL 266 Technical Communications                                                   | 3              |
| <b>Choose one:</b>                                                                                                           | 3              | <b>General Education elective: Cultural and Artistic Literacy (Area C)</b>         | 3              |
| HST 20 Ancient World                                                                                                         |                | HST 103 World Civilizations I                                                      |                |
| HST 21 Middle Ages                                                                                                           |                | HST 104 World Civilizations II                                                     |                |
| <b>Choose one:</b>                                                                                                           | 3              | <b>General Education elective: Cultural and Artistic Literacy (Area C)</b>         | 3              |
| HST 22 Early Modern Europe                                                                                                   |                | HST 101 History of Western Civilization I                                          |                |
| HST 23 Modern Europe and World                                                                                               |                | HST 102 History of Western Civilization II                                         |                |
| <b>Choose one (any Arts and Humanities elective listed below):</b>                                                           | 3              | <b>General Education elective: Cultural and Artistic Literacy (Area C)</b>         | 3              |
| ART 11 Introduction to the History of Art                                                                                    |                | ARH 200 Ancient and Medieval Art                                                   |                |
| ART 12 Survey of Modern Art                                                                                                  |                | ARH 150 Modern to Contemporary Art                                                 |                |
| ENG 17 Contemporary American Writers                                                                                         |                | 200-level literature                                                               |                |
| ENG 30 Introduction to Film                                                                                                  |                | ENL 255, Introduction to Film                                                      |                |
| MUS 11 History of Music I                                                                                                    |                | MUS 101 Introduction to Music I                                                    |                |
| MUS 12 History of Music II                                                                                                   |                | Music elective                                                                     |                |
| MUS 13 Introduction to Music Theory                                                                                          |                | MUS 108 Materials of Music                                                         |                |
| THE 11 Introduction to the Theatre                                                                                           |                | 200-level drama/film elective                                                      |                |
| THE 17 History of the Theater                                                                                                |                | 200-level drama/film elective                                                      |                |
| THE 18 History of the Theatre II                                                                                             |                | 200-level drama/film elective                                                      |                |
| THE 19 Theatre Appreciation                                                                                                  |                | ENL 253 Introduction to Drama                                                      |                |
| Foreign Language 01, 02, 11, 12                                                                                              |                | FLL 101, 102, 201, 202                                                             |                |
| <b>Choose one (any Arts and Humanities elective listed below):</b>                                                           | 3              | <b>General Education elective: Global Awareness (Area G) or Diversity (Area D)</b> | 3              |
| <i>The following courses will earn General Education Area G credit:</i>                                                      |                |                                                                                    |                |
| ANT 11 Social and Cultural Anthropology                                                                                      |                | ANT 111 Introduction to Cultural Anthropology                                      |                |
| ECN 11 Principles of Economics - Macro                                                                                       |                | ECO 232 Principles of Macro-Economics                                              |                |
| ECN 12 Principles of Economics - Micro                                                                                       |                | ECO 231 Principles of Micro-Economics                                              |                |
| SSC 14 Introduction to Geography                                                                                             |                | No equivalent - General Education Area G credit                                    |                |
| <i>The following courses will earn General Education Area D credit:</i>                                                      |                |                                                                                    |                |
| GVT 51 Urban Government and Politics                                                                                         |                | 200-level political science elective                                               |                |
| SOC 11 Principles of Sociology                                                                                               |                | SOC 101 Introduction to Sociology                                                  |                |
| SOC 12 Social Problems                                                                                                       |                | SOC 102 Social Problems                                                            |                |
| <b>Math and Science Courses</b>                                                                                              |                | <b>UMass Dartmouth Equivalent Courses</b>                                          |                |
| MTH 14 Calculus I                                                                                                            | 4              | MTH 111 Analytic Geometry and Calculus I                                           | 4              |
| MTH 15 Calculus II                                                                                                           | 4              | MTH 112 Analytic Geometry and Calculus II                                          | 4              |
| MTH 53 Calculus III                                                                                                          | 4              | MTH 211 Analytic Geometry and Calculus III                                         | 4              |
| PHY 11 General Physics I                                                                                                     | 4              | PHY 113 Classical Physics I                                                        | 4              |
| <b>Total Credits (General, Elective, Math, and Science Courses)</b>                                                          | <b>37</b>      |                                                                                    | <b>37</b>      |

| <b>BCC Program: Engineering Science Transfer</b>                                                                                         |                | <b>UMass Dartmouth Programs: Computer Engineering [126 Credits]</b>                                                                                                                                                                                                                                                                                                                    |                |
|------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| <b>Program Core Courses</b>                                                                                                              | <b>Credits</b> | <b>UMass Dartmouth Equivalent Courses</b>                                                                                                                                                                                                                                                                                                                                              | <b>Credits</b> |
| CHM 13 Fundamentals of Chemistry I                                                                                                       | 4              | CHM 153 Principles of Modern Chemistry for Engineers                                                                                                                                                                                                                                                                                                                                   | 3              |
| CIS 75 Software Specification and Design                                                                                                 | 4              | ECE 264 Object Oriented Software Development                                                                                                                                                                                                                                                                                                                                           | 4              |
| CIS 76 Introduction to Procedural Programming                                                                                            | 4              | ECE 160 Foundations of Computer Engineering I                                                                                                                                                                                                                                                                                                                                          | 4              |
| MTH 54 Ordinary Differential Equations                                                                                                   | 3              | MTH 212 Differential Equations                                                                                                                                                                                                                                                                                                                                                         | 3              |
| PHY 12 General Physics II                                                                                                                | 4              | PHY 114 Classical Physics II                                                                                                                                                                                                                                                                                                                                                           | 4              |
| ETK 29 Electrical Engineering I                                                                                                          | 3              | ECE 201 Circuit Theory I                                                                                                                                                                                                                                                                                                                                                               | 3.5            |
| ETK 31 Electrical Engineering I Laboratory                                                                                               | 1              |                                                                                                                                                                                                                                                                                                                                                                                        |                |
| ETK 30 Electrical Engineering II                                                                                                         | 3              | ECE 202 Circuit Theory II                                                                                                                                                                                                                                                                                                                                                              | 3.5            |
| ETK 32 Electrical Engineering II Laboratory                                                                                              | 1              |                                                                                                                                                                                                                                                                                                                                                                                        |                |
| ETK 67 Digital Computer Fundamentals                                                                                                     | 4              | ECE 260 Digital Logic and Computer Design                                                                                                                                                                                                                                                                                                                                              | 3.5            |
| <i>Any four-credit ETK course not already listed, provided ETK 29, ETK 31, MTH 14, MTH 15, and PHY 11 are completed and transferred.</i> | 4              | EGR 101 Intro. to Engineering through Applied Science I                                                                                                                                                                                                                                                                                                                                | 2              |
|                                                                                                                                          |                | EGR 102 Intro. to Engineering through Applied Science II                                                                                                                                                                                                                                                                                                                               | 2              |
| <b>Total Credits Transferred (Computer Engineering &amp; Electrical Engineering)</b>                                                     | <b>72</b>      | <b>Total Credits Accepted in Transfer</b>                                                                                                                                                                                                                                                                                                                                              | <b>69.5</b>    |
| <b>Additional credits required to complete the Bachelor of Science in Computer Engineering</b>                                           |                |                                                                                                                                                                                                                                                                                                                                                                                        |                |
|                                                                                                                                          |                | Computer Engineering major courses: 13 courses                                                                                                                                                                                                                                                                                                                                         | 38.5           |
|                                                                                                                                          |                | Technical electives: 3 courses                                                                                                                                                                                                                                                                                                                                                         | 9              |
|                                                                                                                                          |                | Math requirements: 2 courses                                                                                                                                                                                                                                                                                                                                                           | 6              |
|                                                                                                                                          |                | General Education requirements: 1 course                                                                                                                                                                                                                                                                                                                                               | 3              |
|                                                                                                                                          |                | General Education requirements remaining to be completed will differ depending on the electives taken at BCC. For instance, students who chose Economics at BCC will have completed the UMass Dartmouth Global Awareness (Area G) general education requirement; students who select Government 51 will have met the UMass Dartmouth Diversity (Area D) general education requirement. |                |
|                                                                                                                                          |                | TOTAL                                                                                                                                                                                                                                                                                                                                                                                  | 56.5           |
| <b>TOTAL REQUIRED FOR DEGREE</b>                                                                                                         |                |                                                                                                                                                                                                                                                                                                                                                                                        | <b>126</b>     |