Articulation Agreement of Academic Programs
between
Bristol Community College and Bridgewater State University

The above institutions hereby enter into an agreement to facilitate the transfer of students enrolled in the Associate in Science Degree program in the Engineering Transfer at Bristol Community College into the Bachelor of Science Degree program in Photonics and Optical Engineering at Bridgewater State University.

Bridgewater State University's designated representative will be Director of Transfer Services and Bristol's representative will be Coordinator of Transfer Affairs.

Bridgewater State University Approval

Dr. Frederick Clark
President

Dr. Karim Ismaili
Provost & Vice President of Academic Affairs

Dr, Kristen Porter-Utley, Dean
Bartlett College of Science & Mathematics

Dr. Thomas Kling
Chairperson & Professor of Physics

2.9.2021
Date

Bristol Community College Approval

Laura L. Douglas

Dr. Laura Douglas
President

Suzanne M. Buglione Ed.D

Dr. Suzanne M. Buglione
Vice President for Academic Affairs

Sarmad Saman

Dr. Sarmad Saman,Dean
Technology, Engineering and Mathematics

Eileen Young

Dr. Eileen Young
Chairperson and Professor of Engineering & Technology

Objectives:

1. To attract qualified students to Bristol Community College and Bridgewater State University.
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 Bristol Community College.

Stipulations:

1. Bridgewater State University guarantees acceptance of Bristol Community College students who complete the Engineering Transfer Program with an overall GPA of 2.5. as outlined in this document.
2. The maximum number of transfer credits from a two-year institution is 69. The Office of Undergraduate Admissions, work with transfer students to determine which course(s) best meet the needs of the Photonics' program.

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. Bristol Community College and Bridgewater State University will incorporate a summary of this agreement into official publications and web sites.
3. Bristol Community College and Bridgewater State University 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.

General Education Foundation STEM Block:

Benefits for students who complete approved associate degrees under General Education Foundation STEM Block are:

Minimum Final GPA	Benefits
2.0 GPA	No admission fee or essay; Guaranteed, full transfer of credits applied to the bachelor's degree (including D – 1.0 grades); and Automatic satisfaction of the general education requirements at the receiving institution, with the receiving institution able to add no more than 12 additional credits/four courses, if admitted.
2.5 GPA	All of the above benefits, plus **guaranteed admission**
3.0 GPA	All of the above benefits, plus a 100% tuition waiver

Note: If the student changes his or her major or if the linked baccalaureate program requires a higher-grade point average or specific courses which are required of native students, the STEM Foundational Block student must meet these requirements. If because of space or fiscal limitations the receiving institution does not admit all qualified applicants to a given major or program, the receiving institution will use the same criteria for STEM applicants as it does for its native students.

In keeping with the General Education Foundation STEM Block:

- As a participant in the *MassTransfer* or STEM Block Program, the Bridgewater State University application fee is waived when students complete the BSU online application.
- Developmental courses and courses with D- will not transfer.
- All **STEM Block** requirements must be met prior to enrollment at Bridgewater State University.
- The grade "D" will be accepted toward the Baccalaureate Degree but will be credited toward the major only if a "D" grade will count for native students who began at BSU.
- If the student maintains a 3.0 GPA for the first year at the transfer institution, he or she will receive 100% tuition waiver for the second year of attendance (4 consecutive semesters).

Please note some of these courses may overlap with major requirements.

Credits	Subject Areas
6	Behavioral and social sciences
6	Humanities and fine arts
7	Natural or physical science
6	English composition/writing
3	Mathematics/quantitative reasoning

Note: The General Education Foundational STEM Block refers to a set of core (general education) requirements, consisting of 28 college-level credits. Students must obtain an **associate degree** to qualify for this program and must be in a **STEM** A2B Mapped Pathway (Computer Science, Biology, Environmental, Engineering, Mathematics, Chemistry, Physics). The 28-credit Gen Ed Foundation STEM Block allows community college students to take more **STEM** courses while earning their associate degrees, with the receiving institution being able to add no more than twelve additional credits/four courses. Bridgewater requires a spoken communication, logical reasoning, Behavioral or Social Science and Humanities or Fine Arts. Students who satisfy this requirement through transfer credits do not have to take additional courses.

Students following this agreement are encouraged to complete one additional behavioral science course to meet the requirements of the STEM Block. Students who do not qualify for the STEM block will be required to complete BSU's core requirements.

Articulation Agreement

Summary of Benefits:

- Guaranteed acceptance with a minimum G.P.A. of 2.5
- Tuition Reduction with minimum G.P.A. of 3.0
- Guaranteed transfer of credits of all courses with a C- or better
- Guaranteed benefits of the General Education Foundation STEM Block.
- Students transfer with Junior status with regard to financial aid and registration eligibility

Bristol Community College: Engineering Transfer Program	Credit(s)	Bridgewater State University: Photonics & Optical Engineering Program	Credit(s)
Semester 1=19 credits			
CSS 101 College Success Seminar	1	Free Elective	1
CHM 113 Fundamentals of Chemistry I	4	CHEM 141 General Chemistry I*	4
ENG 101 Composition I: College Writing	3	ENGL 101 Writing Rhetorically	3
MTH 214 Calculus I	4	MATH 161 Calculus I*	4
Social Phenomenon Elective	3	Core requirement (STEM Block)	3
EGR 131 Intro Electrical Circuits	4	Free Elective	4
Semester 2=18 credits			
Humanities Elective	3	Core requirement (STEM Block)	3
ENG 102 Composition II: Writing about Literature	3	ENGL 102 Writing Rhetorically w/Sources	3
MTH 215 Calculus II	4	MATH 162 Calculus II*	4
PHY 211 General Physics I	4	PHYS 243 General Physics I*	4
CIS 158 Intro to Procedural Programming	4	PHYS 422: Computational Methods*	3
Semester 3=19 credits			
HST 113 or HST 114 US History	3	Core requirement (STEM Block)	3
MTH 253 Calculus III	4	MATH 261 Calculus III*	4
PHY 212 University Physics II	4	PHYS 162 General Physics II*	4
EGR 137 Digital Electronics	4	PHOE 342 Digital Devices	4
EGR 231/233 Electrical Engineering I	4	Free Elective	4
Semester 4=15 credits			
MTH 254 Ordinary Differential Eqns	3	MATH 316 Differential Equations*	3
EGR 232/234 Electrical Engineering II	4	PHOE Senior Elective*	4
CHM 114 Fund. of Chemistry II*	4	CHEM 152 General Chemistry II*	4
EGR 204 Eng. Appl. of MATLAB	1	Free Elective	1
ENG 215 Technical Writing	3	Free Elective	3
Total Credits	**71**	**Total Credits**	**71**

*Courses required within the B.S. Photonics Optical Engineering at BSU

Photonics & Optical Engineering Courses to be completed at Bridgewater State University

PHOE 301	Foundations of Photonics and Optical Engineering	4
PHOE 330	Fiber Optic Communications	4
PHYS 416	Modern Theory	3
PHYS 438	Electricity and Magnetism	4
PHOE 323	Optical Engineering	4
PHOE 450	PIC Design	3
PHYS 211	Machine Shop	1
PHOE 455	Advanced Optics	3
PHOE 403	Semiconductor Devices	3
PHOE 483	Senior Design I	3
PHOE ---	Senior PHOE Elective	3
PHOE ---	Senior PHOE Elective	4
PHOE 484	Senior Design II	3
PHOE 420	Laser Engineering	4

Note: Students following this agreement are encouraged to complete one additional behavioral science course to meet the requirements of the STEM Block. Students who do not qualify for the STEM block will be required to complete BSU's core requirements.