

Articulation Agreement for Advanced Credit

Bunker Hill Community College

And

Benjamin Franklin Institute of Technology

Area of Articulation: Electrical Engineering

June 2018, Updated December 2020

Benjamin Franklin Institute of Technology recognizes the Bachelor of Science in Electrical Engineering degree program as a need in the region and the College desires to support transfer into the program for graduates of quality associate degree programs in Electrical Engineering, such as that offered by Bunker Hill Community College. In turn, Bunker Hill Community College recognizes that entry-level positions are available in a wide range of disciplines in the Engineering Industry. Accordingly, Bunker Hill Community College desires to develop articulation agreements with four-year colleges and universities to serve and facilitate transfer opportunities for its graduates who wish to pursue a four-year degree in order to enter, or advance in, this employment market.

Given the potential of the labor market and the similar missions of the two colleges, Benjamin Franklin Institute of Technology and Bunker Hill Community College agree to renew an articulation agreement to support the above efforts. Both institutions are regionally accredited with long histories in higher education. This agreement will maintain the opportunities for continuation and/or advancement in Electrical Engineering accessible to a wider student population in the New England region.

SUMMARY OF AGREEMENT

This agreement will provide graduates whom have earned an Associate in Science in Electrical Engineering Transfer Option from Bunker Hill Community College with an opportunity to complete the Bachelor of Science in Electrical Engineering at Benjamin Franklin Institute of Technology within the equivalent of two years of full-time study in the program that blends professional studies with the liberal arts.

TERMS AND CONDITIONS

Administrative Matters:

The Enrollment Coordinator at Bunker Hill Community College and at least one academic staff member, administrator, or faculty member from Benjamin Franklin Institute of Technology will be appointed to act as agents for the implementation of this agreement, to serve as primary contact persons, and to communicate any changes to this agreement to the respective faculty members, advisors, admissions, counselors, and others to whom the information is pertinent. Responsibility for oversight of this agreement rests with the Dean of Academic Affairs or designee at Benjamin Franklin Institute of Technology and the Enrollment Coordinator of Transfer Services or the Chairperson or Designee of the Electrical Engineering Department at Bunker Hill Community College.

Both parties agree to communicate annually regarding any changes in their respective programs that may affect this agreement.

Benjamin Franklin Institute of Technology and Bunker Hill Community College agree to collaborate in the areas of publicity, marketing, recruitment and transfer efforts as follows:

- All announcements, publicity, marketing, and recruitment activities by either institution relative to the articulation agreement will be done so in a manner approved by both institutions.
- To facilitate both student services and program planning, both institutions will develop a process that enables the identification of students who plan to transfer under this agreement.
- Faculty and staff at both institutions will share information in this agreement with interested and qualified students; additionally, both institutions will provide counseling or advising to students and prospective students.

Admissions and Enrollment Guidelines:

All Bunker Hill Community College graduates of the Electrical Engineering Associate in Science program must complete the Benjamin Franklin Institute of Technology admissions process, including filling out an application for admission, as well as providing official transcripts from all post-secondary institutions attended. An interview, letter of recommendation, and other documents that may be required based on performance on college transcript.

Benjamin Franklin Institute of Technology will accept the completion of an Associate in Science in Electrical Engineering from Bunker Hill Community College as the equivalent of the first two years of required coursework of a Bachelor of Science in Electrical Engineering—from the Benjamin Franklin Institute of Technology. Credit will be awarded for the completion of the first two years of required coursework for the Electrical Engineering degree provided the student earns an average G.P.A. of 2.0, or higher overall, and an average of 2.0, or higher, in all math related courses.

TERMS, AMENDMENTS, AND TERMINATION

This agreement will be valid for a period of three (3) academic years, effective Fall 2018, and will be reviewed for renewal every three years, unless changes to this agreement are made by either party. This agreement may be terminated by either party for any reason upon written notice to the other with at least one semester notice prior to the effective date of termination or, if a violation of the agreement occurs, may be terminated immediately upon written notice. This agreement is not assignable and may not be amended, revised, or modified, except in writing executed by all parties. If the agreement is terminated for any reason prior to the end of the effective period, Bunker Hill Community College students who were previously accepted into or enrolled in the articulated program prior to the termination of this agreement will be given three (3) additional years to enroll in, or complete, the Bachelor of Science in Electrical Engineering program at Benjamin Franklin Institute of Technology under this agreement.

Course Articulation A.S. Electrical Engineering

BHCC Course Name/Number	Credits	BFIT Course Name/Number	Credits
ENG 111 College Writing I	3	EN 130 College Composition I	3
ENR 101 Intro to Engineering/Lab	4	EN 103+L Intro to Engineering Design/Lab	4
MAT 281 Calculus I	4	MA 240 Calculus I	4
Community & Cultural Contexts	3	HUM/SS elective	3
Creative Work	3	HUM/SS elective	3
ENG 112 College Writing II	3	EN 140 College Composition II	3
PHY 251 College Physics I/Lab	4	PH222/PH215 University Physics/Lab	4
MAT 282 Calculus II	4	MA 250 Calculus II	4
General Education Elective	3-4	Elective	3-4
Career Elective <i>Choose One: Recommended CSC 120</i> CHM 201 General Chemistry/Lab MAT 291 Linear Algebra CSC 120 Intro to Computer Science/OOP CSC 237 C++ Programming	4 4 4 4	<i>CSC 120 Does not transfer to BFIT but it will fulfill a career elective for the A.S. Electrical Engineering program and it is required as a pre-requisite for CSC 237 C++ Programming</i>	
ENR 271 Circuit Design/Analysis I/Lab	4	ECE 105+L Circuit Theory I/Lab	4
PHY 252 College Physics II/Lab	4	PH223/PH225 University Physics/Lab	4
Career Elective <i>Choose CHM 201 or CSC 237</i> <u>CHM 201 General Chemistry/Lab</u> MAT 291 Linear Algebra CSC 120 Intro to Computer Science/OOP <u>CSC 237 C++ Programming</u>	4 4 4 4	TS 310 Intro to Chemistry CT143 C++ Programming	4/3
MAT 283 Calculus III	4	MA 260 Calculus III	4
ENR 272 Circuit Design/Analysis II/Lab	4	ECE 205+L Circuit Theory II/Lab	
Career Elective <i>Choose CHM 201 or CSC 237</i> <u>CHM 201 General Chemistry/Lab</u> MAT 291 Linear Algebra CSC 120 Intro to Computer Science/OOP <u>CSC 237 C++ Programming</u>	4 4 4 4	TS 310 Intro to Chemistry CT143 C++ Programming	4/3
ENR 275 Digital Logic Systems/Lab	4	ECE 101+L Intro to Digital Electronics/Lab	4
MAT 285 Differential Equations	4	<i>MAT 285 does not transfer to BFIT but it is required for completion of the A.S. Electrical Engineering degree</i>	

Benjamin Franklin Institute of Technology B.S. Electrical Engineering Curriculum for Transfer Students

FALL					SPRING				
YR 3	Semester 5	GE	Tech	Cr		Semester 6	GE	Tech	CR
ENS202	Engineer Tech Communication	0	4	4	ECE206	Solid State Devices		4	4
ECE225	Linear Systems with Differential Equations	0	4	4	BS311 or BS325	Microeconomics or Project Management	3		3
ECE311	Embedded Systems	0	4	4	ECE410	Communications Systems		4	4
MA270	Statistics	0	3	3	ECE307	Power Systems I		4	4
					ECE414	Engineering Sr Project I		1	1
		0	15	15			3	13	16
FALL					SPRING				
YR 4	Semester 7	GE	Tech	Cr		Semester 8	GE	Tech	Cr
HU/SS	HU/SS Elective	3		3	ECE01	ECE Elective		4	4
ECE430	Digital Signal Processing	0	4	4	ECE415	Engineering Sr Project II		4	4
ECE335	Control System	0	4	4	SS	Ethics	3		3
ECE308	Power Systems II	0	4	4	ECE403	Electromagnetic Theory		4	4
ECE270	Statistics for Engineer Lab	0	2	2					
		3	14	17			3	12	15
						Total General Ed			9
						Total Tech Credits			54
						Total Program Credits			63