

Bunker Hill Community College

Articulation Agreement Transfer Guide

Transfer Articulation Agreement between Bunker Hill Community College and Bridgewater State University for the Associate of Science degree in Engineering to the Bachelor of Science degree in Photonics and Optical Engineering.

Date Established: Summer 2021

Eligibility:

1. Students must complete the Associate of Science degree in Engineering or Electrical Engineering with a minimum GPA of 2.5 or higher.
2. Bridgewater State will accept a maximum of 69 transfer credits.
3. It is recommended that students complete the MassTransfer STEM Block (see page 2).

Bridgewater State Photonics and Optical Engineering [website](#)

For questions about this articulation agreement, please email [Transfer Services](#)

BHCC Course Number and Name for AS Engineering

ENG 111 College Writing I
ENG 112 College Writing II
Community and Cultural Contexts
Creative Work
General Education Elective – recommended Humanities*
MAT 281 Calculus I
MAT 282 Calculus II
MAT 283 Calculus III
MAT 285 Differential Equations
PHY 251 College Physics I/Lab
PHY 252 College Physics II/Lab
CHM 201 General Chemistry I/Lab
CHM 202 General Chemistry II/Lab
ENR 101 Intro to Engineering/Lab
ENR 260 Engineering Statics
ENR 265 Engineering Dynamics
ENR 270 Strength of Materials
Career Elective – recommended CSC 120 or CSC 237
Career Elective – recommended ENR 271

Bridgewater Course Number and Name

ENGL 101 Writing Rhetorically
ENGL 102 Writing Rhetorically with Sources
Core Requirement (STEM BLOCK) Soc/Beh Sci
Core Requirement (STEM BLOCK) Humanities
Core Requirement (STEM BLOCK) Humanities
MATH 161 Calculus I
MATH 162 Calculus II
MATH 261 Multivariable Calculus
MATH 316 Differential Equations
PHYS 243 General Physics I
PHYS 244 General Physics II
CHEM 141 General Chemistry I
CHEM 142 General Chemistry II
Free Elective
PHOE Senior Elective
Free Elective
Free Elective
PHYS 422 Computer Simulations
Free Elective

Notes

*See Page 2

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MassTransfer General Education Foundation for STEM

Approved General Education Foundation courses can be found [here](#)

Requirement	Credits	Courses
English Composition <i>Fulfilled with AS Engineering at BHCC</i>	6 credits	ENG 111 College Writing I (3 credits) ENG 112 College Writing II (3 credits)
Mathematics/Quantitative Reasoning <i>Fulfilled with AS Engineering at BHCC</i>	3 credits	MAT 281 Calculus I (4 credits)
Natural or Physical Sciences <i>Fulfilled with AS Engineering at BHCC</i>	7 credits	PHY 251 College Physics I/Lab (4 credits) PHY 252 College Physics II/Lab (4 credits)
Behavioral and Social Sciences <i>Not fulfilled with AS Engineering at BHCC</i>	6 credits	Cultural and Community Contexts course (3 credits) Select one additional Social or Behavioral Sciences course (3 credits)
Humanities <i>Fulfilled with AS Engineering at BHCC when Humanities course is selected to fulfill the General Education Elective Requirement</i>	6 credits	Creative Work (3 credits) General Education Elective/Humanities (3 credits)