**Summer 2022**

**Articulation Agreement of Academic Programs between**
**Bunker Hill Community College and University of Massachusetts, Boston**

The above institutions hereby enter into an agreement to facilitate the transfer of students enrolled in the **Associate in Science in Environmental Science** at Bunker Hill Community College into the **Bachelor of Science in Environmental Science** at University of Massachusetts, Boston.

University of Massachusetts, Boston's designated representative will be the Coordinator of Transfer Credit & Transfer Pathways and Bunker Hill Community College's representative will be the Coordinator of Enrollment.

**Objectives:**

1. To attract qualified students to Bunker Hill Community College and University of Massachusetts, Boston.
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 and University of Massachusetts, Boston.

**Stipulations:**

1. UMass Boston assures the acceptance of Bunker Hill Community College graduates who earn an **Associate in Science-Environmental Science** with a 2.0 or higher prior to transferring to UMass Boston. Acceptance will be guaranteed into the **Bachelor of Science in Environmental Science.** Guaranteed admission applies to student where Bunker Hill Community College is the most recently attended school. Students who attend other colleges after Bunker Hill Community College will need to meet general transfer admission standards.
    a. Students who are non-native English speakers must meet UMass Boston's English proficiency requirements by earning a B or higher in a college-level English course (i.e. ENG 111 or ENG 112 at Bunker Hill Community College) or scoring an appropriate score on an English Proficiency exam such as TOEFL or IELTS.
2. All criteria of MassTransfer will apply:
    - Application fee waived
    - Essay waived
    - Letter(s) of recommendation waived
    - Awarding of MassTransfer tuition credit to qualifying students (those who earn a 3.0 or higher, complete an associate's degree, and enroll at UMass Boston within one year of completing the degree)
3. Transfer students who follow the suggested curriculum outlined in this agreement will not be required to take more than **60 credits** to receive a baccalaureate degree.
4. It is understood that students transferring from two-year colleges can bring a maximum of 70 transfer credits toward a UMass Boston degree. Students must complete at least 30 credits of work to meet the residency requirement at UMass Boston. A grade of C- or better must be attained to receive transfer credits into UMass Boston. Developmental and internship/practicums

courses are not eligible to transfer in. Students may transfer in test credits such as AP/IB/CLEP as well as international coursework deemed equivalent to U.S. coursework. Bunker Hill Community College students are encouraged to connect with transfer counselors at UMass Boston to ensure courses transfer in and apply toward their intended major.

**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, Boston will incorporate a summary of this agreement into official publications and web sites.
3. Bunker Hill Community College and University of Massachusetts, Boston 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.
4. Data Sharing - Every three years, upon review of this agreement, UMass Boston shall provide BHCC with data on BHCC transfer students in the **Associate in Science-Environmental Science** to determine the success rates for BHCC students who transfer to UMass Boston under this agreement. Data to be shared with BHCC:
    - Number of BHCC students who transferred to UMass Boston pursuing programs identified in this agreement
    - Date of enrollment at UMass Boston
    - Date of degree completion

    This data shall not contain any personal identifying information and will be used solely for the purposes described. With the exception of the Data Recipient of BHCC, the Coordinator of Enrollment, the data shall not be shared or made available to any unauthorized personnel or other third party unless otherwise specified in this agreement.

**Review/Revision:**

Both institutions will review this agreement every three years. 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.

**Curriculum Grid**

| **BHCC Associate in Science-Environmental Science to UMass Boston's Bachelor of Science in Environmental Science** | | | |
|---|---|---|---|
| **BHCC Course Number** | **BHCC Credits Taken** | **UMASS Course Number and Title** | **UMB Credits Awarded** |
| ***Required courses for BHCC Environmental Science Concentration*** | | | |
| CHM 201 General Chemistry I/Lab | 4 | CHEM 903 A | 4 |
| CHM 202 General Chemistry II/Lab | 4 | CHEM 904 A | 4 |
| BIO 195 General Biology I/Lab | 4 | BIOL 111 General Biology I | 4 |
| BIO 196 General Biology II/Lab | 4 | BIOL 112 General Biology II | 4 |
| PHY 201 General Physics/Lab *or* PHY 251 College Physics I/Lab* | 4 | PHYSIC 903T *or* 907T | 4 |
| MAT 197 Pre-calculus *or*<br>MAT 281 Calculus I<br>****Recommended: MAT 281** | 4 | MATH 130 Precalculus *or*<br>**MATH 140 Calculus I** | 4 |
| GIS 224 Intro to Geographic Info Systems | 4 | ENVSCI 281 Intro to Geographic Info Systems | 4 |
| ECO 220 Environmental Economics *or*<br>ENV 222Environmental Policy, Law and Management<br>****Recommended: ENV 222** | 3 | ECON Elective *or*<br>**ENVSCI 122 Introduction to Environmental Policy & Management** | 3 |
| ***BHCC General Education Requirements*** | | | |
| ENG 111 College Writing I | 3 | ENG 101 College Writing I | 3 |
| ENG 112 College Writing II | 3 | ENG 102 College Writing II | 3 |
| MAT 181 Statistics I | 3 | MAT 125 Introductory Statistics | 3 |
| ENV 105 Environmental Science/Lab | 4 | ENVSCI 120 & ENVSCI 121 Introduction to Environmental Science & Lab | 4 |
| Community & Cultural Contexts | 3 | Students encouraged to contact transfer counselor at UMB to select transferrable courses | 3 |
| Creative Work | 3 | Students encouraged to contact transfer counselor at UMB to select transferrable courses | 3 |
| General Education Elective: | 4 | ENVSCI 101 The Global Environment<br>**ENVSCI 226 Intro to Oceanography** | 4 |

| | | | |
|---|---|---|---|
| ENV 111 Survey of Renewable Energy<br>ENV 113 Intro to Oceanography<br>ENV 115 Earth Science<br>ENV 120 Tropical Field Studies<br><br>****Recommended: ENV 113 Intro to Oceanography** | | ENVSCI 210 Earth's Dynamic Systems<br>ENVSCI Elective | |
| ***BHCC Program Option Electives*** | | | |
| Option Elective:<br>BIO 210 Population Ecology/Lab<br>ENV 211 Environmental Microbiology<br>ENV 250 Global Environmental Change<br>MAT 281 Calculus I**<br>PHY 202 General Physics II/Lab<br>PHY 252 College Physics II/Lab<br><br>****Recommended PHY 202 General Physics II/Lab *or* PHY 252 College Physics II/Lab** | 4 | BIOL 290 Population Biology<br>ENVSCI Elective<br>ENVSCI 260 Global Environmental Change<br>MATH 140 Calculus I<br>**PHYSIC 904T Fundamentals of Physics II**<br>**PHYSIC 908T College Physics II** | 4 |
| Option Elective:<br>BIO 210 Population Ecology/Lab<br>ENV 211 Environmental Microbiology<br>ENV 250 Global Environmental Change<br>MAT 281 Calculus I**<br>PHY 202 General Physics II/Lab<br>PHY 252 College Physics II/Lab<br><br>****Recommended ENV 250 Global Environmental Change** | 4 | BIOL 290 Population Biology<br>ENVSCI Elective<br>**ENVSCI 260 Global Environmental Change**<br>MATH 140 Calculus I<br>PHYSIC 904T Fundamentals of Physics I<br>PHYSIC 908T College Physics II | 4 |

**UMass Boston Environmental Science BS Curriculum:**
http://catalog.umb.edu/preview_program.php?catoid=42&poid=10895&hl=environmental&returnto=search

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*Environmental Science Major Requirements to be completed at UMass Boston**
**Effective May 2022. Course offerings subject to change. Follow curriculum link above for most updated course listings.*
*Students will need to complete at least 60 credits to earn a Bachelor of Science in Environmental Science*

| Course Name | UMB Course Code | UMB Credits |
|---|---|---|
| General Requirements | | 24-25 credits |
| Intermediate seminar | | 3-4 credits |
| 1 Arts | | 3 credits |

| | | |
|---|---|---|
| 1 Humanities | | 3 credits |
| 2 Social Behavioral Sciences | | 6 credits |
| 1 World Language or World Culture | | 3 credits |
| 1 Diversity | | 3 credits |
| Introduction to Environmental Policy & Management (if not fulfilled in associate's) | ENVSCI 122 | 3 credits |
| 200-Level Social Science Electives (choose one) | | 3 credits |
| Cities and the Environment | ENVSCI 270 | 3 credits |
| Global Society and the Environment | ENVSCI 280 | 3 credits |
| This Land is Your Land: A Survey of American Environmental History | HIST 276 | 3 credits |
| Bachelor of Science Requirements | | 6-8 credits |
| Physics II (if not fulfilled in associate's) | PHYSIC 108 or PHYSIC 114 | 3-4 credits |
| Calculus (if not fulfilled in associate's) | MATH 135 or MATH 140 or MATH 145 | 3-4 credits |
| 200-Level Natural Science Electives (choose two) (if not fulfilled in associate's) | | |
| 200-Level Natural Science Electives | BIOL 290 or ENVSCI 210 or ENVSCI 226 or ENVSCI 260 or ENVSCI 267L | 3-4 credits |
| 200-Level Natural Science Electives | BIOL 290 or ENVSCI 210 or ENVSCI 226 or ENVSCI 260 or ENVSCI 267L | 3-4 credits |
| Major Track (choose one) | | 9 credits |
| Earth and Hydrologic Sciences Track | Select three courses | |
| Environmental Policy and Management Track | Select three courses | |
| Environmental Science (General) Track | Select three courses | |
| Marine Science Track | Select three courses | |
| Capstone (choose one) | | 3 credits |
| Cooperative Education II | ENVSCI 445 | 3-9 credits |
| Environmental Science Capstone | ENVSCI 476 | 3 credits |
| Capstone Independent Study | ENVSCI 481 | 3 credits |
| Honors in Environmental Science | ENVSCI 498 | 3 credits |
| Remaining Elective Credit | | 12-15 credits |