

ARTICULATION AGREEMENT

between the

**ASSOCIATE IN LIBERAL ARTS–PHYSICAL SCIENCE – EARTH SCIENCE
CONCENTRATION**

of

NORTHERN ESSEX COMMUNITY COLLEGE

and the

**UNIVERSITY OF MASSACHUSETTS LOWELL
College of Science**

**BACHELOR OF SCIENCE IN ENVIRONMENTAL SCIENCE
ENVIRONMENTAL STUDIES AND ENVIRONMENTAL GEOSCIENCE OPTIONS**

Spring 2013

This articulation agreement has been established between Northern Essex Community College (NECC) and the University of Massachusetts Lowell (UML) College of Science Environmental, Earth and Atmospheric Sciences Department. This agreement was developed with the intent of facilitating the success of students at Northern Essex Community College and the University of Massachusetts Lowell as well as the transfer of course credits between the two partner institutions. Furthermore, these agreements are intended to serve as a guideline for those who desire to complete their Associates in Liberal Arts: Physical Sciences Earth Science option at Northern Essex Community College while also transferring into Bachelor of Science in Environmental Science – Environmental Studies or Environmental Geoscience options at the University of Massachusetts Lowell.

Students completing the described course programs, in accordance with the minimum standards as set in this agreement, will be admitted to the corresponding Environmental Science Degree program at the University of Massachusetts Lowell. Furthermore, such students who complete the described series of courses will receive an Associates of Liberal Arts: Physical Science Degree -- Earth Science option at NECC, and may qualify for tuition waiver through UML's Massachusetts Advantage Plus Program as described below. Students who do not meet the minimum standards set forth herein will be considered for admission to UML on a case-by-case basis.

OBJECTIVES:

1. To facilitate the completion of students' Associates in Liberal Arts: Physical Sciences Degree-- Earth Science option at NECC
2. To facilitate the completion of students' Bachelor of Science Degrees in Environmental Science – Environmental Studies or Environmental Geoscience options at UML.
3. To encourage the transfer of qualified students from Northern Essex Community College to the University of Massachusetts Lowell by providing effective and concise guidelines.
4. To award appropriate academic credit for courses completed at NECC toward UML's Environmental Science- Environmental Studies or Environmental Geoscience options program.

TERMS OF THE TRANSFER ARTICULATION AGREEMENT:

1. This document is based upon the evaluation of course descriptions offered by NECC and UML. NECC courses as listed in this agreement will transfer to UML provided a grade of C or higher has been earned. When appropriate, the requirements of the Mass Transfer Program will be honored. Courses judged below college level by the University of Massachusetts Lowell will not be accepted for transfer credit.
2. UML guarantees the acceptance of all students who complete those NECC courses in the related concentrations as listed in the attached Program of Study with an overall GPA of 2.5 or higher to the Bachelor of Science in Environmental Science Degree Program.
3. UML guarantees the transfer of credit as stipulated in the attached Program of Study. The University of Massachusetts Lowell requires that at least 50% of the major be completed in residence; the total number of credits required to earn a Bachelor of Science in Environmental Science from UML is 120 credits. The University of Massachusetts Lowell may accept courses beyond the Associates Degree (60 credits); however, students are encouraged to contact the transfer advisor at the University of Massachusetts for approval.
4. Northern Essex Community College transfer students will be subject to all general education requirements of the University of Massachusetts Lowell as set forth in the University of Massachusetts Lowell catalog. Northern Essex Community College students interested in participating in the agreement should be advised to take liberal arts courses that will transfer as general education electives.

5. Under the UML Massachusetts Advantage Plus Program, Massachusetts state community college students who have earned an Associate's degree in Liberal Arts: Physical Sciences-- Earth Science option from NECC and graduated with a 3.0 or better grade point average will receive a full-tuition waiver at UML. After transferring, students must be continuously enrolled and maintain a 3.0 grade point average at UML to continue the waiver for up to four semesters.

This agreement shall remain in effect for a period of three years from the date of its enactment, with the provision that the terms specified herein will continue to apply to students admitted from Northern Essex Community College's Associate in Liberal Arts: Physical Sciences Degree-- Earth Science option program within one year of the expiration of the agreement. Each institution agrees to provide timely notice to the other in the event of any modification to the curriculum that might affect compatibility for admission and transfer of coursework. This agreement may be subject to change, with notification, if curriculum requirements change at either institution. Students admitted to the Northern Essex Community College's Associate of Liberal Arts: Physical Sciences Degree-- Earth Science option program prior to such notification shall be admitted to the University of Massachusetts Lowell on the basis of this agreement. This agreement is conditional upon the Environmental, Earth and Atmospheric Science Department maintaining its' program approval from the Massachusetts Board of Higher Education.

ARTICULATION AGREEMENT

between the Associate in Liberal Arts Degree: Earth Science

NORTHERN ESSEX COMMUNITY COLLEGE

and the

UNIVERSITY OF MASSACHUSETTS LOWELL

College of Science

Signature Page

Lane A. Glenn Date
President, Northern Essex Community College

Marty Meehan Date
Chancellor, University of Massachusetts Lowell

William Heineman Date Ahmed Abdelal Date
Vice President for Academic Affairs Provost

Judith Zubrow Date
Dean of Foundational Studies,
Liberal Arts & Sciences

Mark Hines Date
Dean, College of Science

Noemi Custodia-Lora Date
Assistant Dean of Foundational Studies,
Liberal Arts & Sciences

G. Nelson Eby Date
Chair, Environmental, Earth & Atmospheric Science

Grace Y.A. Young Date
Dean, Academic Advising Articulation,
Transfer, Testing and TRiO

Gerald Durkin Date
Associate Dean of Enrollment and
Director of Transfer Admissions

Northern Essex Community College
Physical Science – Earth Science Concentration
To

University of Massachusetts Lowell
Bachelor of Science in Environmental Science – Environmental Studies and Environmental
Geoscience Options

NECC	NECC credits	UML	Title	UML credits
Required courses for NECC Earth Science AA				
CHM 121	4	84.121 / 84.123	Chemistry I & Lab	4
CHM 122	4	84.122 / 84.124	Chemistry II & Lab	4
ENG 101	3	42.101	College Writing I	3
ENG 102	3	42.102	College Writing II	3
MAT 251	4	92.131	Calculus I	4
MAT 252	4	92.132	Calculus II	4
NECC General Education Requirements				
Behavior Science	6	varies - up to 18 credits (9 social science and 9 arts and humanities.)		
Fine & Performing Arts / Foreign Language / Philosophy & Religion	6			
History / Government	6			
Literature	6			
Program elective and concentration courses				
BIO 111*	4	81.111 / 81.117	Principles of Biology I and Lab	4
ERS 125	4	87.102	Environmental Problems Seminar	1
ERS 130**	4	85.141 / 85.143	Weather & Climate	4
ERS 140**	4	89.101 / 89.103	General Geology	4
PHS 111	4	95.103 / 96.103	General Physics I	4
PHS 112	4	95.104 / 96.104	General Physics II	4
NECCUM courses that can be taken at UML to satisfy NECC AA Instead of NECC's ERS 140 and ERS 130				
ERS 140	4	87.201	Earth & Environmental Systems I and Lab	4
ERS 130	4	87.202	Earth & Environmental Systems II and Lab	4
Courses not required for NECC graduation but can be taken via NECCUM				
	0	87.101	Environmental Science Seminar	1
	0	89.307 / 89.309	Earth Materials I	4
	0	89.310 / 89.312	Earth Materials II	4
	0	89.331 / 89.333	Earth History	4
	0	89.319 / 89.321	Surface Processes	4
Course can be taken at NECC to meet requirement at UML(not needed for NECC Major)				
BIO 112-Principles of II	0	81.112 / 81.118	Principles of Biology II and Lab	4

* BIO 111 is recommended for the NECC program elective. MAT 125 may also be used.

** 87.201 and 87.202 are required courses for EEAS, ERS 130 and ERS 140 do not satisfy that requirement. They may be used as reverse transfer credits toward ERS 140 – System I and ERS 130 – Systems II with approval from the NECC department chair.