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# ARTICULATION AGREEMENT

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Between the

Associate in Applied Science:

Laboratory Science with Concentration in

Environmental Science

of

Northern Essex Community College

and the

UNIVERSITY OF MASSACHUSETTS LOWELL

**Bachelor of Science Clinical Laboratory Sciences: Clinical  
Science Option**

SPRING 2017

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This articulation agreement has been established between Northern Essex Community College and the University of Massachusetts Lowell, College of Health Sciences. This agreement was developed with the intent of facilitating the transfer process from Northern Essex Community College (NECC) to the University of Massachusetts Lowell. These agreements will serve as a guideline for those who desire to transfer from NECC into the Clinical Laboratory Sciences: Clinical Sciences Option at the University of Massachusetts Lowell.

Up to 5 students per year completing the AAS in Laboratory Sciences program, with concentrations in Analytical Chemistry; Biotechnology; Environmental and Forensic Sciences), at Northern Essex Community College, following the described course curricula in the agreement and in accordance with the minimum standards as set in this agreement by the Biomedical & Nutritional Sciences department at the University of Massachusetts Lowell, will be guaranteed admittance to that department at the University of Massachusetts Lowell as juniors in the Clinical Sciences option of the Clinical Laboratory Sciences Program. Students who do not meet the aforementioned minimum standards will be considered for admission to the University of Massachusetts Lowell on a case-by-case basis.

#### OBJECTIVES:

1. To encourage the transfer of qualified students from Northern Essex Community College to the University of Massachusetts Lowell.
2. To award academic credit for courses completed at Northern Essex Community College that meet the terms of the AAS Laboratory Science degree as stated in this agreement for transfer to the Bachelor of Science Clinical Laboratory Sciences Degree at the University of Massachusetts Lowell.
3. To provide effective and concise guidelines for students seeking to transfer to the University of Massachusetts Lowell. Students will have accurate and clear information regarding the transfer of their coursework from NECC to the Bachelor's Degree at the University of Massachusetts Lowell.

#### TERMS OF THE TRANSFER ARTICULATION AGREEMENT:

1. The University of Massachusetts Lowell guarantees the acceptance of students who complete the AAS Laboratory Science program at Northern Essex Community College with an overall GPA of 3.5 or higher to the Bachelor of Science Laboratory Sciences: Clinical Sciences Option.
2. The University of Massachusetts Lowell guarantees the transfer of credit as stipulated in the attached Programs of Studies. This agreement assumes the completion of the Associate Degree and completion of the courses listed on the attached Program of Study. The University of Massachusetts Lowell may require that 50% of the major is completed in residence. The University of Massachusetts Lowell may accept courses taken beyond the Associate Degree (60 credits); however, students are encouraged to contact the transfer advisor at the University of Massachusetts Lowell for approval.
3. 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. Students meeting the



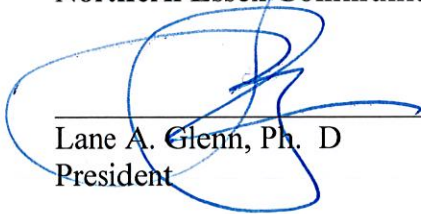
requirement of the General Education Foundation Courses (MASS Transfer Block) will be exempt from 35 credits of University general education requirements, but will be required to meet any specific College of Health Sciences general education requirements, not to exceed two courses.

4. This document is based upon the evaluation of course descriptions presented to the University of Massachusetts Lowell. Courses as listed in this agreement will transfer to the University of Massachusetts Lowell provided a grade of B or higher has been earned. When appropriate, the requirements of the General Education Foundation Courses (MASS Transfer Block) will be honored.
5. Northern Essex Community College students interested in participating in this agreement should be advised to take the suggested liberal arts courses. These courses are required at the University of Massachusetts Lowell and students are advised to complete them as part of their Associate Degree.


This agreement shall remain in effect for a period of three years from the date listed below, with the provision that the terms specified herein will continue to apply to students admitted from Northern Essex Community College's AAS Laboratory Science degree 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 AAS Laboratory Science degree 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 Science Department maintaining its' program approval from the Massachusetts Department of Higher Education.

## Signatures


### Northern Essex Community College



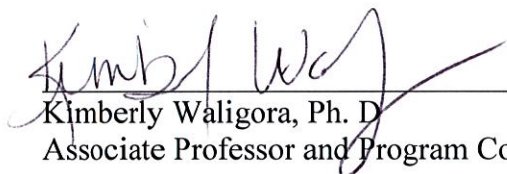
Lane A. Glenn, Ph. D  
President



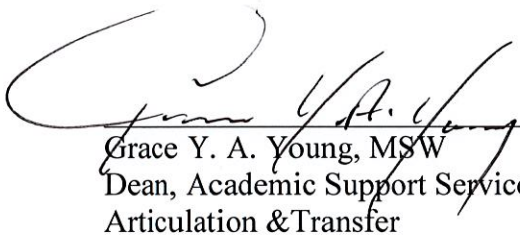
William Heineman, Ed. D  
Vice President, Academic and Student Affairs



Carolyn Knoepfler, Ph. D  
Assistant Dean, Science, Technology,  
Engineering and Advanced Manufacturing

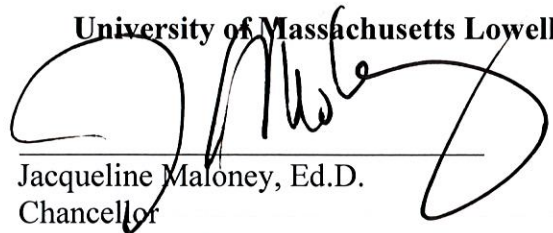


Kimberly Waligora, Ph. D  
Associate Professor and Program Coordinator

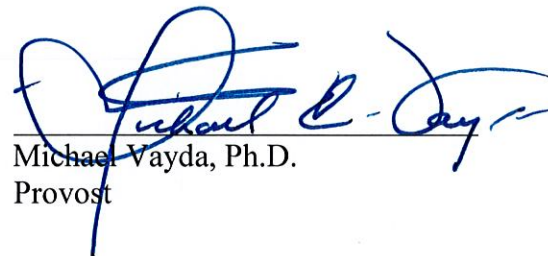


Grace Y. A. Young, MSW  
Dean, Academic Support Services,  
Articulation & Transfer

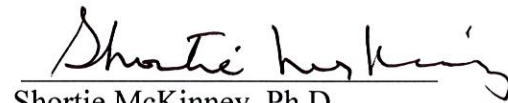
### University of Massachusetts Lowell




Jacqueline Maloney, Ed.D.  
Chancellor



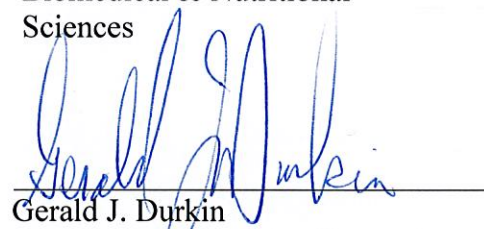
Michael Vayda, Ph.D.  
Provost



Shortie McKinney, Ph.D.  
Dean, College of Health Sciences



Garry Handelman, Ph.D.  
Department Chair and Professor,  
Biomedical & Nutritional  
Sciences



Gerald J. Durkin  
Associate Dean of Enrollment &  
Director of Transfer Admissions

**NORTHERN ESSEX COMMUNITY COLLEGE**  
Laboratory Science Program-Environmental Sciences Concentration  
To  
**UNIVERSITY OF MASSACHUSETTS LOWELL**  
**Bachelor of Science Clinical Laboratory Sciences: Clinical Sciences Option**

NECC Course Requirements

UMass Lowell Equivalent

BIO 230 Cell Biology	4	BIOL.2200 Princ. of Cell & Molecular Bio	4++
CHM 121 General Chemistry I	4	HSCI.2510 Physiological Chem 1 HSCI.2530 Physiol Chem Lab 1	3 1
CHM 201 Introduction to Organic & Biochemistry	4	HSCI.2520 Physiological Chem II HSCI.2540 Phy Chem II Lab	3 1
CHM 203 Instrumental Analysis	4	MLSC.2990 Science Specialization	4
ENG 101 English Composition I	3	ENGL.1010 College Writing I	3
FYS 101 First Year Seminar	3	Not required in major	0
MAT 125 Statistics	4	MATH.2830 Introduction to Statistics	3
SCI 100 Basic Lab Calculations	1	Not Transferable	0
SCI 105 Integrated Science I	4	XXXX.xxxx Free Elective	4
SCI 106 Integrated Science II	4	XXXX.xxxx Free Elective	4
SCI 291 Externship in Laboratory Science and additional Elective or SCI 292 Externship in Laboratory Science	6	MLSC.4930 Directed Studies	3
SCI 281 Research Experience Laboratory	4	MLSC.2990 Science Specialization	4
ERS280 Research Seminar in Environmental Science and Elective: <b>Must take-</b> ENG 102 English Composition II	1 3	Not Transferable  ENGL.1020 College Writing II	0 3
<b>ELECTIVES</b>			
Computer Science Elective CIS 110, 112; 113, or 210	3/4	XXXX.xxxx Free Elective	3
<b>Math Elective:</b> Take one of the following MAT 130 College Algebra & Trig MAT 140 Advanced Algebra & Trig MAT145 Pre-calculus MAT 251 Calculus	4	MATH.1210 Management Pre-Calculus	3



Elective 1. LIT 263; 271; 272; MUS 112; ART 104	3	Arts and Humanities Elective	
Elective 2: Must take-PSY 101 Intro Psychology	3	PSYC.1010 Intro to Psychological Science	3
Elective 3: <b>Must take:</b> BIO 121 Anatomy and Physiology 1	4	HSCI.1010 Anatomy & Physiology 1  HSCI.1030 Lab	3  1
Additional courses that can be taken at NECC prior to transferring, but not needed for Associate Degree			
BIO 122- Anatomy and Physiology II		HCSI 1020 Anatomy & Physiology II HCSI 1040 Lab	3 1
CHM 221-Organic Chemistry 1		CHEM 2210 Organic Chemistry I CHEM 2240L Organic Chemistry Lab	3 1
SOC 101 Intro Sociology		SOCI.1010 Intro to Sociology	3
BIO 220 Microbiology		HSCI 2110 Bas Cl Micro & Pathology HSCI 2130 Bas Cl Micro & Path Lab	3 1

\*\*\*Students are encouraged to meet with Clinical Sciences Advisor at least one semester before transferring to plan future course work at UML.\*\*\*

**Students are strongly encouraged to complete the General Education Foundation Block (Mass Transfer Block)**