ARTICULATION AGREEMENT

between

Northern Essex Community College
Computer Information Sciences:
Information Technology Option, Associate Degree

and the

UNIVERSITY OF MASSACHUSETTS LOWELL
Bachelor of Science in Information Technology

Spring 2022

This articulation agreement has been established between Northern Essex Community College (NECC) and the University of Massachusetts Lowell Kennedy College of Sciences and the Division of Graduate, Online & Professional Studies.

Students completing the Associate in Science in Computer Science: Information Technology Option Degree at Northern Essex Community College, in accordance with the minimum standards as set by the University of Massachusetts Lowell, will be admitted to the Bachelor of Science in Information Technology Degree at the University as juniors. Students who do not meet the minimum standards will be considered for admission on a case-by-case basis.

OBJECTIVES:
1. To encourage the transfer of qualified students from Northern Essex Community College to UMass Lowell.
2. To award academic credit for courses completed for the Associate Degree toward the requirements for the bachelor's degree as stated in this agreement.
3. To provide students with accurate and clear information regarding the transfer of their coursework and credits to UMass Lowell.

TERMS OF THE ARTICULATION AGREEMENT:
1. UMass Lowell guarantees the acceptance of students who complete the Associate Degree program at NECC with an overall cumulative GPA of 2.00 or better to the Bachelor of Science in Information Technology program at UMass Lowell. All bachelor's degree candidates are required to earn a minimum 2.00 cumulative grade point average (GPA) in their UMass Lowell courses, to present a minimum of 120 semester hours, fulfill the residency requirements, conform to the general regulations and requirements of the University, satisfy the regulations and academic standards of the colleges which exercise jurisdiction over the degrees for which they are matriculating, satisfy the curriculum requirements established by the departments or programs in their major, and complete the University's Core Curriculum requirements, which are listed within the program's curriculum outline.
2. This agreement acknowledges the transfer of credit as stipulated in the attached Program of Studies and assumes the completion of the Associate Degree. UMass Lowell, Division of Graduate, Online & Professional Studies may accept courses taken beyond the Associate Degree (20 courses); however, students are encouraged to contact the transfer advisor for approval. At the discretion of the department up to 75 credits may be accepted in transfer.
3. UMass Lowell normally requires that 50% of the major is completed in residence.
4. Students transferring from NECC will be subject to all general education requirements at UMass Lowell as set forth in the University of Massachusetts Lowell catalog. Students interested in participating in this agreement should be advised to take the suggested liberal arts courses. These courses are required at UMass Lowell and students are advised to complete them as a part of their Associate Degree. Students meeting the requirements of the *Mass Transfer Block* will be exempt from University general education requirements but will be required to meet any specific Information Technology Department general education requirements.
5. This document is based upon the evaluation of course descriptions presented to UMass Lowell. Courses listed in this agreement will transfer provided a grade of "C- "or better has been earned. When appropriate, the requirements of the *Mass Transfer Block* will be honored.

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 NECC, within one year of the expiration of the agreement. The Bachelor of Science in Information Technology at UMass Lowell will be undergoing a curriculum change, at which time there will be a new articulation agreement drafted. 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, without notice, if curriculum requirements change at either institution. Students admitted to the Associate Degree program prior to such notification shall be admitted to the UMass Lowell, Division of Graduate, Online & Professional Studies based on this agreement.

See attachment A-Transfer Guide

See Attachment B-BSIT Curriculum

Semester and Year of Implementation: Spring 2022

SIGNATURES

University of Massachusetts Lowell

Joseph Hartman   4/29/2022 | 13:28 EDT

Joseph Hartman, Ph.D., P.E.
Provost and Vice Chancellor
Academic Affairs

Noureddine Melikechi 4/28/2022 | 17:25 EDT

Noureddine Melikechi, D.Phil.
Dean of Kennedy College of Sciences

[signature]   4/20/2022 | 14:33 EDT

Haim Levkowitz, Ph.D.
Chair, Computer Science

Nancy Ludwig   4/29/2022 | 13:01 EDT

Nancy Ludwig, Ed.D.
Dean
Division of Graduate, Online & Professional Studies

Yelena Rykalova   4/20/2022 | 08:20 EDT

Yelena Rykalova, Ph.D.
BSIT Program Coordinator

Northern Essex Community College

Lane Glenn   5/10/2022 | 11:44 PDT

Lane A. Glenn, Ph.D.
President

Paul Beaudin   5/10/2022 | 14:31 EDT

Paul Beaudin, Ph.D.
Vice President of Academic Affairs

Carolyn Knoepfler 5/4/2022 | 19:11 EDT

Carolyn Knoepfler, Ph.D.
Dean of STEM

Jason Termini   5/4/2022 | 09:18 EDT

Jason Termini, M.S.
Department Chair
Computer Information Sciences

Michelle Sunday 5/5/2022 | 08:38 EDT

Michelle Sunday, M.Ed.
Director of Transfer, Articulation, and
Academic Center Advising

Attachment A

Transfer Agreement (Guide)

For The

Associate in Science
Computer Information Sciences:
Information Technology Option

Of

Northern Essex Community College

And the

UNIVERSITY OF MASSACHUSETTS LOWELL
Bachelor of Science in Information Technology

Spring 2022

Transfer Agreement (Guide)
For
Be (NECC)-AS in Computer & Information Science: Information Technology Transferring into UMass Lowell (UML) Bachelor of Science in Information Technology-Division of Graduate, Online and Professional Studies

NECC Courses		UMASS Lowell Equivalents	
CIS112 Integrated Computer Applications	4	COMP.1990 Computer Sci 1000 level Elect	3
CIS 113 Data Management	4	COMP.1990 Computer Sci 1000 level Elect	3
CIS114 Help Desk & Soft Skills	3	No Transfer Credits	
CIS115 Information Security	4	COMP.1990 Computer Sci 1000 level Elect	3
CIS117 Introduction to Linux	1	COMP.1990 Computer Sci 1000 level Elect	1
CIS140 Introduction to Computer Science	4	COMP.1010, COMP.1030L Computing I,	3
CIS153 Programming for IT	4	**Transfers in as:** INFO.2620 C Programming with override **Students must Complete an "Exception Form***	3
CIS245 Linux Administration	4	INFO.2990 Info Tech 2000 level ~~elective~~	3
CTN110 Introduction to Information Technology	3	INFO.1600 Intro to Info Systems	3
CTN201 Computer Networks I	3	INFO.2990 Info Tech 2000 level Elect	3
ENG101 English Composition I	3	ENGL.1010 College Writing I	3
ENG102 English Composition II	3	ENGL.1020 College Writing II	3
Free Elective **Strongly recommend a Lab Science (**required in UML's Core)	3	Appropriate equivalent course	4
Humanities Elective	3	Appropriate equivalent course	3
Math Elective **Strongly recommend MAT 125** (Required in UML's Program)	4	Appropriate equivalent course	4
Math Elective Strongly recommend MAT 1145	4	Appropriate equivalent course	3
Program Elective	3/4	Appropriate equivalent course	3
Program Elective	3/4	Appropriate equivalent course	3
Social Science Elective **Strongly recommend ECO 202**(required in UML's program)	3	Appropriate equivalent course	3
See Attachment B for number of Credits Transferring into BSIT			

NOTE: Students must complete the Exception Form in order to transfer CIS153-Programming for IT as INFO.2620 "C" Programming

Transfer Articulation Agreement/BSIT Curriculum Program of Study
Northern Essex Community College, Associate Degree in Computer & Information Sciences: IT Option transferring into
UMass Lowell, Bachelor of Science in Information Technology, Division of Graduate, Online & Professional Studies (Undergraduate Evening and Online)

		UML Course ID	University of Massachusetts Lowell Bachelor of Science in Information Technology Course Equivalencies	Credits	NECC Course ID	NECC Associate in Computer Information Science: IT	Credits
University Core		ENGL.1010	College Writing, I	3	ENG 101	English Composition 1 (3)	3
		ENGL.1020	College Writing II	3	ENG 102	English Composition II (3)	3
		----.----	Arts & Humanities Course (AH)	3		Humanities Elective (3)	3
		----.----	Arts & Humanities Course (AH)	3			
		----.----	Arts & Humanities Course (AH)	3			
		ECON.2010	Economics I (Microeconomics) (SS)	3		Social Science Elective (3) **Strongly recommend:** ECO 201 Microeconomics **OR** ECO 202 Macroeconomics (Both required in BSIT at UMass Lowell)	3
		----.----	Social Sciences (SS) Course	3			
		----.----	Social Sciences (SS) Course	3			
		MATH.2830	Introduction to Statistics	3		MATH Elective (3) **Strongly recommend:** MAT 125 Statistics (Required in BSIT Program)	3
		----.----	Science with Lab Perspective (SCL) & Lab	3+1		Free Elective (4)- **Strongly recommend:** Science Course with Lab	4
		----.----	Science with Lab Perspective (SCL) & Lab	3+1			
		----.----	STEM Perspective Course	3			
			Total Credits	**38**			**19**
IT Requirements		INFO.4600	Computer Ethics	3			
		ENGL.2240	Business Writing **OR**	3			
		ENGL.2260	Scientific and Technical Communication				
		ECON.2020	Economics II (Macroeconomics)	3			
		MATH.1200	Precalculus Mathematics I	3		Math Elective (4) Strongly recommend MA145- Precalculus (Required in BSIT Program)	3
		MATH.2190	Discrete Structures I	3			
		INFO.2110	Introduction to Programming W/C I **AND** Introduction to Programming W/C Part II	3			
		INFO.2120	**OR**				
		INFO.2670	C Programming *		CIS 153	Programming for IT (4) w i t h Override **(Exception Form Needed)** *	3
		INFO.4800	Project-Based Information Systems **OR**	6			
		INFO.4770	Project-Based Information Systems - Part I **AND**				
		INFO.4780	Project-Based Information Systems - Part II				
		INFO.3850	Introduction to Information Security	3			
			Total Credits	**27**			**6**
IT Electives			Information Technology Elective	3	CIS 112	Integrated Computer Applications (4)	3
			Information Technology Elective	3	CIS 113	Database Management (4)	3
			Information Technology Elective	3	CIS 115	Information Security (4)	3
			Information Technology Elective	3	CIS 140	Intro to Computer Science (4)	3
			Information Technology Elective	3	CIS 245	Linux Administration (4)	3
			Information Technology Elective	3	CTN 110	Intro to Information Technology (3)	3
			Information Technology Elective	3	CTN 201	Computer Networks I (3)	3
			Information Technology Elective	3		Program Elective Recommend: CIS 215; 220; 235 or CTN 222	3
			Information Technology Elective	3		Program Elective Recommend: CIS 215; 220; 235 or CTN 222	3
			Information Technology Elective	3			
			Total Credits	**30**			**27**

Focus Electives			**Choose six classes from one focus group (AH) (SS) (MGT) (SME)**				
			Focus I	3			
			Focus 2	3			
			Focus 3	3			
			Focus 4	3			
			Focus 5	3			
			Focus 6	3			
			Total Credits	**18**			
Free Electives			Free Elective 1	3	CIS 117	Introduction to Linux (1) and *UNCR credits (2)	3
			Free Elective 2	3		*UNCR credits	3
			Free Elective 3	3			
			Total Credits	**9**			6
			Total Degree Credits	**120/122**			**58**

NOTE: * UNCR Credits account for some of the extra loss of credit from the 4 credit IT courses

*Students are responsible for filling out the Exception Form to have CIS 153 Programming for IT transfer in as INFO.2670 "C" Programming