

ARTICULATION AGREEMENT

Between

**MIDDLESEX COMMUNITY COLLEGE
Computer Science Transfer
Associate in Science**

and the

**UNIVERSITY OF MASSACHUSETTS LOWELL
College of Sciences
Department of Computer Science
Computer Science
Bachelor of Science**

Spring 2013

This articulation agreement has been established between Middlesex Community College's Computer Science Transfer Associate in Science program and the University of Massachusetts Lowell, Colleges of Sciences, Department of Computer Science, Computer Science Bachelor of Science degree. This agreement was developed with the intent of facilitating the transfer process from Middlesex Community College to the University of Massachusetts Lowell. This agreement will serve as a guideline for those who desire to transfer into the Computer Science program at the University of Massachusetts Lowell.

Students completing the Computer Science Transfer Associate Degree at Middlesex Community College, in accordance with the minimum standards as set by the Department of Computer Science at the University of Massachusetts Lowell, will be admitted to that department at the University of Massachusetts Lowell as juniors. 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 Middlesex Community College to the University of Massachusetts Lowell.
2. To award academic credit for courses completed at Middlesex Community College that meet the requirements of the Computer Science Transfer Associate Degree as stated in this agreement for application toward the requirements for the Computer Science Bachelor's 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 and credits toward the Computer Science 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 Computer Science Transfer Associate Degree program at Middlesex Community College with an overall cumulative GPA of 2.5 or better to the Computer Science Bachelor's Degree. Students are also required to have achieved a cumulative minimum GPA of 2.5 in their science courses.
2. The University of Massachusetts Lowell guarantees the transfer of credit as stipulated in the attached Program of Studies. This agreement assumes the completion of the Associate Degree and completion of the courses listed on the attached Program of Studies. The University of Massachusetts Lowell may require that 50% of the major is completed in residence; a minimum total of 120 credits must be completed to earn a Computer Science Bachelor's Degree. The University of Massachusetts Lowell may accept courses taken beyond the Associate Degree (20 courses); however, students are encouraged to contact the transfer advisor at the University of Massachusetts Lowell for approval.
3. Middlesex 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 requirements of the *MassTransfer Block* will be exempt from University general education requirements, but will be required to meet any specific Computer Science Department general education requirements.
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 "C-" or better has been earned. When appropriate, the requirements of the *MassTransfer* Block will be honored.

5. Middlesex 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 Middlesex Community College's Computer Science Transfer Associate Degree 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, without notice, if curriculum requirements change at either institution. Students admitted to the Middlesex Community College's Computer Science Transfer Associate Degree program prior to such notification shall be admitted to the University of Massachusetts Lowell on the basis of this agreement.

Transfer Articulation Agreement
Middlesex Community College
Computer Science Transfer, Associate in Science
transferring into
University of Massachusetts Lowell
Colleges of Sciences, Department of Computer Science
Computer Science, Bachelor of Science

NOTES:

- Minimum 2.5 cumulative GPA and minimum 2.5 cumulative GPA in science courses are required for admission to this major
- Up to 75 credits may be accepted in transfer (at the discretion of the department)
- Students completing this sequence of Middlesex courses will meet the requirements of the *MassTransfer Block*. As a result, UMass Lowell's General Education requirements will be satisfied by students completing this Associate Degree program.

Middlesex Community College Computer Science Transfer		University of Massachusetts Lowell Computer Science	
CSC 151 Programming I	4	91.101 Computing I	4
CSC 156 Linux Fundamentals	3	Technical Elective	3
CSC 201 Computer Organization/Assembly Language	3	91.203 Assembly Language Programming	4
CSC 252 Programming II	4	91.201 Computing III	4
CSC 253 Programming III	3	91.299 Computer Science elective	3
CSC 257 Data Structures	3	91.102 Computing II	4
MAT 290 Calculus I for Eng & Science	4	92.131 Calculus I	4
MAT 291 Calculus II for Eng & Science	4	92.132 Calculus II	4
Lab Science elective (Choose a 2-course sequence in chemistry, biology or physics)	4	Natural Science w/ lab	4
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ENG 101 English Composition I	3	42.101 College Writing I	3
ENG 102 English Composition II: An Intro to Lit	3	42.102 College Writing II	3
Behavioral Science Elective	3	AH or SS Gen Ed course	3
Social Science Elective	3	AH or SS Gen Ed course	3
Behavioral or Social Science Elective	3	Gen Ed diversity course	3
Humanities elective	3	General Free Elective	3
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Humanities Elective	3	AH or SS Gen Ed course	3
		92.321 Discrete Structures I	3
		16.265 Logic Design	3
		92.386 Probability & Statistics I	3
		92.322 Discrete Structures II	3
		42.220 Oral & Written Communication for CS	3
		91.304 Foundations of CS	3
		91.305 Computer Architecture	3
		AH or SS Gen Ed CS Ethics course	3

		91.301 Organization or Programming Language	3
		91.308 Intro to Operating Systems	3
		Natural Science w/ lab	4
		91.xxx Project Course (part 1)	3
		91.404 Analysis of Algorithms	3
		Technical Elective	3
		Computer Science elective	3
		91.xxx Project Course (part 2)	3
		91.xxx Computer Science elective	3
CS 101 Introduction to Computer Science* (if taken)		General Free Elective	3
		General Free Elective	3
MAT 165 Trigonometry for Engineering & Science (if taken)		92.123 Precalculus Math II	0
MAT 195 Precalculus for Engineering & Science (if taken)		92.127 Preparation for Calculus	0
	60		120
Courses meeting the MassTransfer Block			