COMPUTER SCIENCE ARTICULATION AGREEMENT GUIDE

Henry Ford College – Associate in Science or Associate in General Studies
Eastern Michigan University – BS in Computer Science Major - Curriculum

Michigan Transfer Agreement (MTA) Requirements (30 credits)

Students with an MTA endorsement on their community college transcript have satisfied EMU's General Education Core Requirements and will be required to complete only the General Education Application Requirements of one Perspectives on a Diverse World course, one Learning Beyond the Classroom experience, and a writing intensive course in the major. Courses listed below for the MTA will also satisfy degree or program requirements at HFC or EMU. Students who started college before fall semester 2014 may continue to follow the MACRAO Agreement until the end of summer semester 2019. MACRAO versions of articulation guides are posted online at http://www.emich.edu/ccr/trackingsystem/Enter.php. For courses approved to satisfy the MTA go to https://www.hfcc.edu/registration-and-records/mta/hfc-agreement

1. A Course in English Composition
   ENG 131 Introduction to College Writing ..........................3
   University Elective .................................................................3

2. A Second Course in English Composition or a Course in Communication
   Choose from the approved MTA list ........................................3
   University Elective .....................................................................3

3. A Course in Mathematics
   1 MATH 115 College Algebra .................................................4
   University Elective .....................................................................4

4. Two Courses in Natural Sciences from Different Disciplines (one lab required)
   2* Complete the first course in a science sequence: ............4-5
     BIO 152 (4), CHEM 141 (5), GEOL 131 (4), PHYS 231 (5)
     BIO 152, CHEM 141, GEOL 131, PHYS 231 (5)...
   2* Complete a course in a different science discipline .........4-5
     Course must be intended for a major in the discipline   
     BIO 152 (4), CHEM 141 (5), GEOL 131 (4), PHYS 231 (5)
     BIO110/111 (4), CHEM121/122 (4), ESSC110 (4), PHYS223 (5)

5. Two Courses in Humanities from Different Disciplines
   Choose 2 from different disciplines, from the approved MTA list.6
   University Elective .....................................................................6

6. Two Courses in Social Sciences from Different Disciplines
   Choose 2 from different disciplines, from the approved MTA list.6
   University Electives ....................................................................6

7. If needed, complete additional courses in any of the above categories to satisfy the 30 credit minimum for the MTA.

EMU's Perspectives on a Diverse World requirement: Complete one course from the following list:

These courses also satisfy an MTA area: Natural Science: BIO 138 (non-lab); Humanities: ART 224, 225, 226, 227; ENG 243, 248; PHIL 201; WR 233, 236; Social Science: ANTH 131, 151, 152, 154; GEOG 132; HIST 113, 243, 261; PHIL 201; POLS 152; PSY 296; SOC 152, 251

HFC Courses that apply to EMU Computer Science Curriculum and HFC AS or AGS Degree (30-32 credits)

CIS 170 "C" Programming .................................................3
* CIS 171 Java Programming .................................................3
* CIS 271 Advanced Java.........................................................4
* CIS 122 or CIS 126.................................................................3-4
1 MATH 175 Precalculus (prerequisite for MATH 180) .......5
* MATH 180 Calculus I (prerequisite for CIS 170) ..........5
* MATH 275 Discrete Mathematics .....................................4
2* Complete the second course in a science sequence .........4-5
   BIO 150 (4), CHEM 142 (5), GEOL 132 (4), PHYS 232 (5)
   Wellness Requirement (General Studies only) or elective 3
   University Elective .....................................................................3

EMU Requirements and Electives that may be taken at HFC or EMU (19-20 credits)

* MATH 183 Calculus II ...........................................................5
* MATH 283 Linear Algebra ...................................................3
* MATH 275 Discrete Mathematics ........................................4
2* Complete a fourth science course (in a different discipline) ....3-5
   Choose from BIO, CHEM, PHY, PSY
   Open Electives (not to exceed 82 credits at HFC) .................2-7
   University Electives ...............................................................2-7

Credits at HFC: .................................................................79-82

Credits that transfer to EMU .................. 79-82

* Required for EMU's Computer Science Major-Curriculum. If not transferred, must be completed at EMU.
1 Prerequisites for MATH 180. If students initially place into Calculus I, MATH 115 and MATH 175 are not required.
2 The Computer Science Major-Curriculum requires four science courses, three intended for a major, with two courses having the same prefix (ex. CHEM).

Sign up with us: If you let us know you are using this articulation agreement we can stay in touch with you and provide information and advising to you while you are still at your community college. Sign up at: www.emich.edu/ccr/trackingsystem/Enter.php

Eastern Michigan University
Community College Relations: http://www.emich.edu/ccr/artguide.php

June 28, 2017 (Updated: April 2, 2018)
## Completion of EMU’s Computer Science - Curriculum

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<td>COSC 439  Computing Network Principles .................................... 4</td>
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<td>COSC 444  Foundations of Automata and Languages ........................ 4</td>
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<td>COSC 471  Database Principles COSC 471 ................................... 4</td>
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<td>COSC 481W Software Engineering and Senior Project ........................ 4</td>
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<td>LBC Requirement (0-3 credits)</td>
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<td>Students must complete one Learning Beyond the Classroom course or noncredit experience offered by EMU. Consult undergraduate catalog or major advisor for options.</td>
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**Credits at EMU:** .............................................................. 42-45  
**Transfer Credits** ............................................................ 79-82  
**Credits to Graduate:** ....................................................... 124

* A minimum of 124 credits is required to graduate. If sufficient credits are not transferred, additional credits will be required at EMU to satisfy the 124 credit minimum.

## Sample Sequence for completing this program:

Courses may not be offered every semester. Consult the program advisor for develop a program of study.

### Fall Semester (14 credits)
- COSC 221  prereq: COSC 111 .................................................. 3
- COSC 311  prereq: COSC 211 & 221 ....................................... 4
- COSC 314  prereq: COSC 211 & MATH 205 ............................. 4
- STAT 360  prereq: MATH 120 ............................................... 3

### Winter Semester (16 credits)
- COSC 321  prereq: COSC 211 & 221 ....................................... 4
- COSC 341  prereq: COSC 211 & 221 ....................................... 4
- COSC 423  prereq: COSC 221 & 311 ....................................... 4
- COSC 439  prereq: COSC 221 & 311 ....................................... 4

### Fall Semester (12-15 credits)
- COSC 444  prereq: COSC 311 & 314 ....................................... 4
- COSC 471  prereq: COSC 311 & 314 ....................................... 4
- COSC 481WI prereq: COSC 311 ............................................... 4
- LBC Requirement .............................................................. 0-3
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Additional information:

1. Each institution will determine the satisfaction of their individual program and degree requirements. Both HFC and EMU agree to accept transferrable courses from each other and from other regionally accredited institutions. HFC courses indicated with an * are required for EMU’s Bachelor of Science in Computer Science. Substitutions for these courses must be approved by the EMU program coordinator.

2. Students with the MTA endorsement on their community college transcript have satisfied EMU’s General Education Core Requirements and will be required to complete only the General Education Application Requirements of one “Perspectives on a Diverse World” course, one “Learning Beyond the Classroom” experience, and a “Writing Intensive” course in the major. The Perspectives on a Diverse World requirement may be transferred to EMU.

To use the Michigan Transfer Agreement (MTA), students must have an official community college transcript, with the “MTA Satisfied” endorsement sent to EMU’s Admissions Office. Students who do not have “MTA Satisfied” on their community college transcript, will be required to satisfy EMU’s general education requirements as applied to transfer students. The MTA may be completed after admission to EMU, however, students should inform their advisors or they may be advised to complete additional courses for the general education program. Students who enrolled in college prior to September 2014 will have until the end of August 2019 to complete the MACRAO agreement. If already on the transcript, the MACRAO designation will be accepted at EMU after August 2019.

3. Only courses with a grade of “C” or better (2.0 on a 4.0 scale) will be accepted for transfer to either institution.

4. Under this agreement, EMU will waive the 60-hour rule and require that a minimum of 30 hours must be in courses offered by EMU, with 15 hours in program requirements, at the 300-level or above. Of the last 30 hours completed before graduating, at least 10 hours must be in courses offered by EMU. A minimum of 124 credit hours, completed in-residence or accepted in transfer, is required for graduation.

5. A minimum cumulative GPA of 2.0 is required for admission to EMU. Students must meet all admission requirements at the time of application for admission to EMU, including submitting transcripts from all previously attended colleges. HFC students will receive equal consideration with other students for course registration and financial aid.

6. Students are encouraged to contact the Computer Science Program Coordinator before applying to EMU. To facilitate advising and the evaluation of transcripts, sign up for this articulation agreement using the link www.emich.edu/ccc/trackingsystem/Enter.php, and bring a copy to all advising sessions. Copies of the articulation guide are available on EMU’s webpage at www.emich.edu/ccc/artguide.php.

Effective Dates: September 1, 2017 until August 31, 2020

This is a renewal of an agreement made in September 2012. Students who began this program prior to the new effective date have the option of using this articulation guide or continuing to follow the guide they started under for up to seven years. If this agreement is not renewed at the end of the effective period, students who already began the program at HFC will have an additional three years to be admitted to EMU under the terms of the agreement.

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