EASTERN MICHIGAN UNIVERSITY ARTICULATION GUIDE

September 2012 (Fall 2014 MTA update)

Henry Ford College – Associate in Science or Associate in General Studies Eastern Michigan University – Bachelor of Science in Computer Science Comprehensive Curriculum				
Henry Ford College Courses:	Transfer to Eastern Michigan University:			
Michigan Transfer Agreement (MTA) Requirements (30-32 crest Students with an MTA endorsement on their community college transcript has required to complete only the General Education Application Requirements the Classroom experience, and a writing intensive course in the major. <u>Orequirements at Henry Ford College or EMU</u> . Students who started before for August 2019. MACRAO versions of articulation guides are posted online the MTA go to https://www.hfcc.edu/sites/main.aegirprod.hfcc/files/attachme	edits) ave satisfied EMU's General Education Core Requirements and will be of one Perspectives on a Diverse World course, one Learning beyond <u>Sourses listed below for the MTA will also satisfy degree or program</u> fall 2014 may continue to follow the MACRAO Agreement until the end e at <u>www.emich.edu/ccr/artguide.php</u> . For courses approved to satisfy <u>ents/hfc_mta_july_2014.pdf</u> .			
 A course in English Composition ENG 131 Intro to College Writing	University elective			
 A course in Mathematics ¹MATH 115 College Algebra	MATH 105 College Algebra (3)+1			
 * Complete a course from a different science discipline4-5 Course must be intended for majors in the discipline BIO 152 (4), CHEM 141 (5), PHYS 231 (5) 5. Two courses in Humanities from different disciplines 	Required science course from a different discipline 4-5 BIO 110/111, CHEM 121/122, ESSC 110, or PHY 223			
 6. Two courses in Social Sciences from different disciplines Choose from the approved MTA list	University electives			
<i>EMU's Perspectives on a Diverse World requirement:</i> Complete <u>one</u> course from the following list: Courses on this list will satisfy an MTA area above: <u>Humanities</u> : ART 224, 225, 226, 227; ENG 243, 248; <u>Social Science</u> : ANTH 131, 151, 152, 154; GEOG 132; HIST 113, 243, 252, 261; POLS 152; SOC 152, or 251; WR 233, 236				
CIS 170 "C" Programming (prerequisite for CIS 171)	COSC 000University Elective3COSC 111Introduction to Programming3COSC 211Programming Data Structures (3)+14COSC 231Internet Based Computing (3)3-4			
CIS 126 XHTML/CSS Web Programming (4) ³ MATH 175 Precalculus (prerequisite for MATH 180)	MATH 112 Topics in Precalculus (4)+1			
Choose from: COUN 114, HPE 140, 142, 153, 260; HPEA 117, 217,	126, or 155 (19, 22, or odito)			
*MATH 183 Calculus II	MATH 121 Calculus II (A) +1 5			
 * MATH 283 Linear Algebra	MATH 121 Calculus II (4) +1			
Maximum Credits at HFCC:82-85	Maximum Credits that transfer to EMU. 82-85			
*Required for EMU's Comprehensive Computer Science Curriculum ¹ Prerequisite for MATH 175 and MATH 180. If students initially place into Precalculus or Calculus I, College Algebra is not required. NOTE: To satisfy the Associate in Science degree requirements, at least 24 hours of math and science coursework must be completed.				

NOTE: To satisfy the Associate in Science degree requirements, at least 24 hours of math and science coursework must be completed. 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

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Completion of EMU's

Computer Science

Comprehensive Computer Science(36 credits)COSC 221Computer Organization I				
COSC 439 Computing Network Principles				
Any 400-level computer science courses not already taken or select two from the list of courses below: COSC 315 Symbolic computing (3) COSC 374 Applied Cryptography (3) COSC 405 Switching Theory (3) COSC 421 Systems Programming (3) COSC 422 Intro to Microprocessors (3) COSC 436 Web Programming (3) COSC 445 Compiler Construction (3) COSC 456 Computer Graphics (3) COSC 457 Computer Game Programming (3) COSC 461 Heuristic Programming (3)				
Mathematics Requirements(3 credits)MATH 360Statistical Methods3				
Additional Requirement(0-3 credits)Students must complete one Learning Beyond the Classroomexperience or course offered by EMU. Consult computer scienceadvisor for options.				
Minimum Credits at EMU:				

Suggested Sequence for completing this program:

Fall SemesterCOSC 221Computer Organization ICOSC 314Computational Discrete StructuresMATH 360Statistical Methods	(12 credits) 3 3 3
Restricted Elective	
Winter Semester COSC 311 Algorithms and Data Structures COSC 321 Computer Organization II COSC 341 Programming Languages	(9 credits) 3 3 3
Fall SemesterCOSC 439Computing Network PrinciplesCOSC 444Foundations of Automata and LanguagCOSC 481WISoftware Engineering and Senior Pr	(9 credits) 3 es3 roject3
Winter Semester (9 COSC 423 Computer Operating Systems COSC 471 Database Principles Restricted Elective Elective LBC Requirement Elective	-12 credits) 3330-3

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Additional information:

- 1. In completing the coordinated program of study for this articulation agreement, course substitutions may be made with the guidance of the advisors (indicated below) at both institutions to assure that all requirements are satisfied. Courses indicated with an * are required for EMU's Program.
- 2. Students whose transcripts are endorsed as "MACRAO Satisfied" will only be required to meet EMU's additional three general education requirements, noted on the articulation guide and listed below. These requirements may be completed at the most appropriate time for the student whether before or after enrollment at EMU.
 - a) An approved course in Quantitative Reasoning: [<u>at HFCC</u> MATH 115, 141, 150, 153, 175, or 180] or [<u>at EMU</u> MATH 110 or if Intermediate Algebra is completed with a 2.0 or better, COSC 106; MATH 105, 118, 119, 120,140,170; PHIL 181; PLSC 210; SOCL 250; or STS 224]
 - b) an approved course in Global Awareness or US Diversity: [Humanities: ART224: ENG243, 248; WR131, 233; Social Science: ANTH131, 152, 154; GEOG132; HIST112, 113, 225, 255, 257; POLS152; SOC152, 251at HFCC]
 - c) an approved Learning Beyond the Classroom course or experience offered by EMU: [See EMU advisor]

To use MACRAO, students must request that an official community college transcript, with the "MACRAO Satisfied" stamp, be sent to EMU's Admissions Office. Students who don't have "MACRAO Satisfied" on their community college transcript will be required to satisfy EMU's general education requirements as listed in the Undergraduate Catalog. The MACRAO stamp may be completed after admission to EMU, however, students should inform advisors at EMU that they intend to complete MACRAO, or they may be advised to complete additional courses for the general education program.

- 3. Only courses with a grade of "C" or better (2.0 on a 4.0 scale) will be accepted for transfer to EMU.
- 4. Under this agreement, EMU will waive the 60-hour rule and require that a minimum of 46 credit hours must be completed at the four-year college level, of which 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. HFCC 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 early, before applying to EMU. To facilitate the evaluation of transcripts, students should indicate they are using this articulation agreement when applying to EMU and bring a copy of this guide to all advising sessions. Copies of the articulation guide are available on EMU's webpage at www.emich.edu/ccr/artguide.php .

Effective Dates: September 1, 2012 through August 31, 2015

If this agreement is not renewed at the end of the effective period, students who already started this program will be given three additional years to be admitted to EMU under the terms of this agreement. Students who started the program prior to the effective date may use this agreement.

Contacts:

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