COMPUTER SCIENCE CURRICULUM ARTICULATION AGREEMENT GUIDE

Washtenaw Community College – AS in Computer Science: Programming in Java Eastern Michigan University – BS in Computer Science Curriculum

Washtenaw Community College Courses: Eastern Michigan University Courses: Michigan Transfer Agreement (MTA) Requirements (31-33 credits) 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. Courses listed below for the MTA also satisfy program requirements at EMU and/or WCC. For WCC approved MTA courses go to WCC's website. Students without an MTA or MACRAO endorsement must complete EMU's general education program. 1. A Course in English Composition ENG 111 Composition I......4 WRTG 121 Composition II (3)+14 2. A Course in English Composition or Communication Choose one from the approved MTA list......3 General Transfer Credit3 3. A Course in Mathematics MTH 191 Calculus I.....5 MATH 120 Calculus I (4) +15 Two courses in Natural Sciences from different disciplines (one lab required) *Complete the first course in a science sequence:.....4-5 First course of required science sequence: 4-5 BIO 161, CHM 111, GLG 114 or PHY 211 BIO 110/111, CHEM 121/122, ESSC 110, or PHY 223 Completion a course from the approved MTA list3-4 General Transfer Credit......3-4 4. Two courses in Humanities from different disciplines General Transfer Credit......6 5. Two courses in Social Sciences from different disciplines Choose from the approved MTA list6 General Transfer Credit......6 If needed, complete additional credits in any of the above categories to meet 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: Communication: COM 225; Natural Science: ENV 101, 105; Humanities: ART 143, 150; COM 225; DAN 180; DRA 180; ENG 181, 213, 214, 224, 242; HUM 150, 175, 221; MUS 180; Social Science: ANT 201; ECO 280; GEO 101; HST 109, 123, 150, 230, 235; PSY 251, 270; SOC 205. These courses apply, but do not satisfy the MTA: CCP 251 WCC AS in Computer Science: Programming in Java Requirements (31 credits) CIS 121 Linux/UNIX I: Fundamentals......4 **IA 212** Open Systems Platform & Network Admin (3)+14 CIS 282 Database Principles and Application3 IS 000 General Transfer Credit3 *CPS 161 An Introduction to Programming with Java......4 COSC 111 & 112 Introduction to Programming......4 CPS 251 Android Programming using Java4 AACR Gen Credit4 *CPS 261 Advanced Java Concepts......4 COSC 211 & 212 Programming Data Structures4 *CPS 276 Web Programming using Apache, MySQL, or PHP4 COSC 231 Internet Based Computing (3)+1.....4 CPS 278 Java Server Programming......4 AACR Gen Credit (or COSC 111/112)4 CPS 298 Professional Team Programming4 AACR Gen Credit.....4 EMU Requirements that May be Taken at WCC or EMU (12-13 credits) *Choose two from: MTH 192, MTH 197, MTH 293, MTH 295...8 MATH 121, MATH 122, MATH 223, MATH 3258 *Complete the second course in the science sequence4-5 Second course of required science sequence:..... 4-5 BIO 162, CHM 122, GLG 125 or PHY 222 BIO 120/121, CHEM 123/124, ESSC 111, or PHY 224 Credits at WCC:73-77 Credits that transfer to EMU...... 75

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.

^{*}Required for EMU's BS in Computer Science Curriculum program. If not transferred, must be completed at EMU

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Additional Information:

- 1. Each institution will determine the satisfaction of their individual program and degree requirements. Both institutions agree to accept transferrable courses from each other and from other regionally accredited institutions. WCC courses indicated with an * are required for EMU's BS in Computer Science Curriculum. 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. 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 credit hours must be completed in EMU courses, with at least 15 hours in the program at the 300-level or above. Of the last 30 hours completed before graduating, a minimum of 10 credit 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. Students must satisfy all admission requirements at the time of application for admission to EMU, including submitting transcripts from all previously attended colleges. WCC students will receive equal consideration with other students for course registration and financial aid.
- 6. Students are encouraged to contact EMU's BS in Computer Science Curriculum program coordinator before applying to EMU. To facilitate advising and the evaluation of transcripts, sign up for this articulation agreement and bring a copy of this articulation guide to all advising sessions.

Effective Date: September 1, 2020 until August 31, 2023.

This is a renewal of an agreement made in September 2009 and renewed in January 2013 and September 2017. This agreement is consistent with the 2020-2021 catalog. Students have until summer 2028 to graduate from Eastern Michigan University following this agreement. In the event that a student does not complete the program within seven years, they may be required to have their credits reevaluated using the requirements of the current articulation guide,

Contacts:

Washtenaw Community College Cyndi Millns, Department Chair cmillns@wccnet.edu

Sandro Tuccinardi, Divisional Advisor BE 214: 734.973.3398

Eastern Michigan University

Francine Parker Advising Center Student Center Room 120 734.487.4599

francineparker advising@emich.edu

stuccinardi@wccnet.edu

Received

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Completion of the BS in Computer Science Curriculum

Major Require	ements (49 cre	edits)
Mathematics Red STAT 360 Stati	quirements (3 credits) stical Methods	3
Required Compu	iter Science Courses (26 credits)
COSC 221 Co	mputer Organization I	, 3
COSC 311 Alg	orithms and Data Structures	4
COSC 314 Co	mputational Discrete Structures	4
COSC 321 Co	mputer Organization II	4
COSC 341 Pro	ogramming Languages	4
COSC 381 So	ftware Engineering Solutions	4
COSC 481W So	ftware Engineering and Senior Proje	ct3
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Restricted Electiv	re Courses (20 credits)	
hive courses from	n the following:	20
	o courses must be from List A and the	16
remaining course	s may be selected from either list.	
List A		
COSC 423	Computer Operating Systems (4)	
COSC 439	Computing Network Principles (4)	
COSC 444	Found of Automata & Languages	(4)
COSC 471	Database Principles (4)	
List B		
COSC 374	Applied Cryptography (4)	
COSC 411	Algorithm Design & Analysis (4)	
COSC 421	Systems Programming (4)	
COSC 422	Intro to Microprocessors (4)	
COSC 426	Software Dylpmnt for Mobile Device	ces (4)
COSC 436	Web Programming (4)	
COSC 445	Compiler Construction (4)	
COSC 456	Computer Graphics (4)	
COSC 457	Computer Game Programming (4)	1
COSC 461	Heuristic Programming (4)	1.245
COSC 462	Introduction to Information Retriev	ai (4)
COSC 472	Big Data I (4)	
COSC 473 COSC 480	Big Data II (4)	
UU3U 48U	Special Topics (4)	

LBC Requirement

Students must complete one Learning Beyond the Classroom course or noncredit experience offered by EMU. Consult undergraduate catalog or major advisor for options.

Credits at EMU:	49
Transfer Credits:	
Minimum Credits to Graduate:	

[†] Fulfills EMU's Writing Intensive requirement.