COMPUTER SCIENCE ARCHIVED ARTICULATION AGREEMENT GUIDE

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

W	ashtenaw Community College Courses:	Eastern Michigan University Courses:			
Michigan Transfer Agreement (MTA) Requirements (30 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. <u>Courses listed</u> <u>below for the MTA also satisfy program requirements at EMU and/or WCC.</u> For WCC approved MTA courses go to <u>WCC's website</u> . Students without an MTA or MACRAO endorsement must complete EMU's general education program.					
1.	A Course in English Composition				
_	ENG 111 Composition I4	WRTG 121 Composition II (3)+14			
2.	A Course in English Composition or Communication				
_	Choose from the approved MTA list	University Elective			
	A Course in Mathematics				
	*MTH 176 College Algebra4	MATH 105 College Algebra (3)+14			
4.	Two courses in Natural Sciences from different disciplines (or	ne lab required)			
~	Choose from the approved MTA list	University Electives			
э.	Two courses in Humanities from different disciplines				
~	Choose from the approved MTA list	University Elective			
0.	Two courses in Social Sciences from different disciplines				
15	Choose from the approved MTA list6 needed, complete additional credits in any of the above categor	University Electives			
	<i>IU's Perspectives on a Diverse World requirement:</i> Complete one of				
7 C 1	These courses also satisfy an MTA area: <u>Communication</u> : COM 225 COM 225; DAN 180; DRA 180; ENG 181, 213, 214, 242; FLM 150, 221; 01; HST 108, 109, 123, 150, 230; PSY 251; SOC 205. These courses apply, but do <u>not</u> satisfy the MTA: CCP 251; HUM 15	; <u>Natural Science</u> : ENV 101, 105; <u>Humanities:</u> ART 143, 150; HUM 175; MUS 180; <u>Social Science:</u> ANT 201; ECO 280; GEO			
WCC AS in Computer Science: Programming in Java Requirements (30 credits)					
	CIS 120 Linux/UNIX I: Fundamentals (prev. CIS 121)	IA 212 Open Systems Platform & Network Admin 3			
	CIS 282 Database Principles and Application	IS 000 University Elective			
	*CPS 161 Introduction to Programming with Java4	COSC 111/112 Introduction to Programming4			
	*CPS 261 Advanced Java Concepts4	COSC 211212 Programming Data Structures			
	* CPS 276 Web Programming Using Apache, MySQL, & PHP 4	COSC 231 Internet-based Computing (3)+14			
	CPS 278 Java Server Programming4	IS 000 University Elective (or COSC 111/112)4			
	CPS 251 Android Programming Using Java4	IS 000 University Elective			
	CPS 298 Professional Team Programming4	AACR Gen Credit4			
El	EMU Requirements and Electives that May be Taken at WCC or EMU (12 credits) Minor requirement courses/open electives				
	This program requires a minor. 100 level or higher transfer credit m at EMU. Minors available at EMU can be found in EMU's catalog transferring to EMU can be found at EMU's transfer equivalency pa	(catalog.emich.edu). Course equivalencies for WCC courses			

*Required for EMU's BA in Computer Science program. If not transferred, must be completed at EMU.

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Completion of the BA in Computer Science at EMU

Major Requirements

(34 credits)

Required Computer Science Courses: 22 credits

COSC 221	Computer Organization I3	
COSC 311	Algorithms and Data Structures4	
COSC 314	Computational Discrete Structures4	
COSC 341	Programming Languages4	
COSC 381	Software Engineering Solutions4	
¹ COSC 481W	Software Engineering and Senior Project 3	

Restricted Elective Courses: 12 credits

- Choose one course from the following:
- COSC 374 Applied Cryptography (4)
- COSC 421 Systems Programming (4)
- COSC 423 Computer Operating Systems (4)
- COSC 426 Software Dvlpment for Mobile Devices (4)
- COSC 436 Web Programming (4)
- COSC 439 Computing Network Principles (4)
- COSC 445 Compiler Construction (4)
- COSC 456 Computer Graphics (4)
- COSC 457 Computer Game Programming (4)
- COSC 461 Introduction to Artificial Intelligence (4)
- COSC 471 Database Principles (4)

Choose two courses from the list below or above, not already taken:

- COSC 315 Symbolic Computing (4)
- COSC 321 Computer Organization II (4)
- COSC 405 Switching Theory (4)
- COSC 411 Algorithm Design and Analysis (4)
- COSC 422 Introduction to Microprocessors (4)
- COSC 444 Foundations of Automata & Languages (4)
- COSC 462 Introduction to Information Retrieval (4)
- COSC 472 Big Data I (4)
- COSC 473 Big Data II (4)
- COSC 480 Special Topics (4)

LBC Requirement

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

Minor Requirements: (14 credits)

Students must complete a minor for this program with at least six credits at the 300/400 level at EMU. Some courses for the minor may be transferred to EMU. Students may have more than 14 credits to complete at EMU depending on the minor chosen.

Credits at EMU:	48
Transfer Credits	72
Minimum Credits to Graduate:	120

¹ Fulfills EMU's Writing Intensive Requirement.

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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 BA 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. 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 or (9 hours in the major and 6 hours in the minor), 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 120 credit hours (Fall 2022), 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 Undergraduate Admissions before applying to EMU. To facilitate advising and the evaluation of transcripts, bring a copy of this articulation guide to all advising sessions.

Effective Date: September 1, 2019 until August 31, 2022. (Extended through August 31, 2023)

This agreement is consistent with the 2019-2020 catalog. Students have until Summer 2027 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 Advising advising@wccnet.edu 734.677.5102

Eastern Michigan University Undergraduate Admissions 220 Student Center 734.487.6453 transfer_admissions@emich.edu