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:
	e transcript have satisfied EMU's General Education Core Education Application Requirements of one Perspectives on a perience, and a Writing Intensive course in the major. <u>Courses listed</u> <u>nd/or WCC.</u> For WCC approved MTA courses go to WCC's website.
1. A Course in English Composition	5 1 5
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 Credit
3. A Course in Mathematics	
* MTH 191 Calculus I	5 MATH 120 Calculus I (4) +15
4. Two courses in Natural Sciences from different disciplin	
*Complete the first course in a science sequence:4	1-5 First course of required science sequence:
BIO 162, CEM 111, or PHY 211	BIO 110/111, CHEM 121/122, or PHY 223
Completion a course from the approved MTA list	3-4 `General Transfer Credit
5. Two courses in Humanities from different disciplines	
Choose two from the approved MTA list	
6. Two courses in Social Sciences from different discipline	
Choose from the approved MTA list	
If needed, complete additional credits in any of the above ca	ategories to meet the 30 credit minimum for the MTA.
EMU's Perspectives on a Diverse World requirement: Complete	
	0M 225; Natural Science : ENV 101, 105; Humanities: ART 143, 150;
	0; HUM 175, 181; MUS 180; <u>Social Science:</u> ANT 201; ECO 280; GEO
101; HST 108, 109, 123, 150, 230; PSY 251; SOC 205. These co	ourses apply, but do <u>not</u> satisfy the MTA: ECD 240
WCC AS in Computer Science: Programming in Java Red	guirements (30 credits)
CIS 120 Linux/UNIX I: Fundamentals (prev. CIS 121)	
CIS 282 Database Principles and Application	
*CPS 161 An Introduction to Programming with Java	4 COSC 111 & 112 Introduction to Programming
CPS 251 Android Programming using Java	
*CPS 261 Advanced Java Concepts	
* CPS 276 Web Programming using Apache, MySQL, or PHI	P4 COSC 231 Internet Based Computing (3)+14
CPS 278 Java Server Programming	4 AACR Gen Credit (or COSC 111/112)
CPS 298 Professional Team Programming	4 AACR Gen Credit
EMU Requirements that May be Taken at WCC or EMU (1	2-13 credits)
*Choose two from: MTH 192, MTH 197, MTH 293, MTH 295	
*Complete the second course in the science sequence	
BIO 161, CEM 122, or PHY 222	BIO 120/121, CHEM 123/124, or PHY 224
Credits at WCC:	

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

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Completion of the BS in Computer Science Curriculum

Major Requirements

(49 credits)

Mathematic	s Requirements (3 credits)
STAT 360	Statistical Methods3

Required Computer Science Courses (26 credits)

Computer Organization I	3
Algorithms and Data Structures	4
Computational Discrete Structures	4
Computer Organization II	4
Programming Languages	4
	Computer Organization I Algorithms and Data Structures Computational Discrete Structures Computer Organization II Programming Languages Software Engineering Solutions

Restricted Elective Courses (20 credits)

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 Dvlpmnt for Mobile Devices (4)
- COSC 436 Web Programming (4)
- COSC 445 Compiler Construction (4)
- COSC 456 Computer Graphics (4)
- COSC 457 Computer Game Programming (4)
- COSC 461 Heuristic Programming (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)

¹ Fulfills EMU's Writing Intensive requirement.

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:	
Transfer Credits:	73-76
Minimum Credits to Graduate:	120

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Additional Information:

- Each institution will determine the satisfaction of their individual program and degree requirements. Both
 institutions agree to accept transferable courses from each other and from other regionally accredited
 institutions. WCC courses indicated with an * are required for EMU's BA in Computer Science, BS in
 Computer Science Applied, or 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 45 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, 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 Office 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, 2023 until August 31, 2026.

This is a renewal of an agreement made in September 2009 (BA in Computer Science 2019) and renewed in January 2013, September 2017 and September 2020. This agreement is consistent with the 2023-2024 catalog. Students have until summer 2031 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 734.677.5102 advising@wccnet.edu

Eastern Michigan University

EMU Undergraduate Admissions Student Center, Ste. 220 734.487.6453 transfer_admissions@emich.edu Schedule an appointment