ARTICULATION AGREEMENT GUIDE

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

Washtenaw 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. Courses listed below for the MTA also satisfy program requirements at EMU and/or WCC. For WCC approved MTA courses go to the community college's website. Students without an MTA or MACRAO endorsement must complete EMU's general education program. 1. A Course in English Composition WRTG 121 Composition II (3)+14 ENG 111 Composition I......4 2. A Course in English Composition or Communication General Transfer Credit 3 3. A Course in Mathematics *MTH 176 College Algebra.....4 MATH 105 College Algebra (3)+1......4 4. Two courses in Natural Sciences from different disciplines (one lab required) General Transfer Credit......7-8 Choose from the approved MTA list7-8 5. Two courses in Humanities from different disciplines 6. Two courses in Social Sciences from different disciplines 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, 242; FLM 150; HUM 175, 181; MUS 180; Social Science: ANT 201; ECO 280; GEO 101; HST 108, 109, 123, 150, 230; PSY 251; SOC 205. These courses apply, but do not satisfy the MTA: ECD 240 WCC AS in Computer Science: Programming in Java Requirements (30 credits) CIS 120 Linux/UNIX I: Fundamentals (prev. CIS 121)..........3 IA 212 Open Systems Platform & Network Admin.. 3 IS 000 General Transfer Credit......3 *CPS 161 Introduction to Programming with Java......4 COSC 111/112 Introduction to Programming4 *CPS 261 Advanced Java Concepts4 COSC 211212 Programming Data Structures......4 *CPS 276 Web Programming Using Apache, MySQL, & PHP 4 **COSC 231** Internet-based Computing (3)+14 CPS 278 Java Server Programming4 IS 000 General Transfer Credit (or COSC 111/112) 4 CPS 251 Android Programming Using Java4 General Transfer Credit......4 IS 000 CPS 298 Professional Team Programming4 AACR Gen Credit4 EMU Requirements and Electives that May be Taken at WCC or EMU (15 credits) This program requires a minor, 100 level or higher transfer credit may be applied as university elective or as credit toward a minor at EMU. Minors available at EMU can be found in EMU's catalog (catalog.emich.edu). Course equivalencies for WCC courses transferring to EMU can be found at EMU's transfer equivalency page (app.emich.edu/transfereq) Credits at WCC:75 Credits that transfer to EMU...... 75

^{*}Required for EMU's BA in Computer Science, BS in Computer Science Applied, or BS in Computer Science Curriculum 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)

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)

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 your advisor for options.

Minor Requirements: (11 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 11 credits to complete at EMU depending on the minor chosen.

Credits at EMU:	45
Transfer Credits	75
Minimum Credits to Graduate:	120

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

Additional Information:

- 1. 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" and assument sent to EMU's Admissions Office. Students who do not have "MTA"
 - 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