

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. Students without an MTA endorsement must complete EMU's general education program.

1. A course in English Composition

ENG 111 Composition I (or ENG 111X) 4	WRTG 121 Composition II 4
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2. A course in English Composition or Communication

Choose one from the approved MTA list 3	General Transfer Credit 3
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3. A course in Mathematics

* MTH 176 College Algebra 4	MATH 105 College Algebra (3) +1 4
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4. Two courses in Natural Sciences from different disciplines (one lab required)

Choose two from the approved MTA list 7-8	General Transfer Credit 7-8
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5. Two courses in Humanities and Fine Arts from different disciplines

Choose two from the approved MTA list 6	General Transfer Credit 6
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6. Two courses in Social Sciences from different disciplines

Choose two from the approved MTA list 6	General Transfer Credit 6
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EMU's Perspectives on a Diverse World requirement: Transfer students are required to complete one course that meets the diversity requirement. The course may also fulfill an MTA requirement at Washtenaw Community College: **Communication:** COM 225; **Natural Science:** ENV 101, 105, 200; **Humanities:** ART 143, 150; COM 225; DRA 180; ENG 181, 184, 213, 214, 231, 242; FLM 150; HUM 175, 181; MUS 180; **Social Science:** ANT 201; ECO 280; GEO 101, 104; HST 108, 109, 123, 150, 230, 235, 241; PSY 251, 270; SOC 205.

These courses apply, but do not satisfy the MTA: ECD 240

WCC Program Requirements (30 credits)

CIS 120 Linux/UNIX I: Fundamentals 3	IA 212 Open Systems Platform & Network Admin 3
CIS 282 Database Principles and Application 3	IS 000 General Transfer Credit 3
* CPS 161 An Introduction to Programming with Java 4	COSC 111/112 Introduction to Programming 4
CPS 251 Android Programming 4	COSC 000 General Transfer Credit 4
* CPS 261 Advanced Java Concepts 4	COSC 211/212 Programming Data Structures 4
* CPS 276 Web Programming Using PHP and MySQL 4	COSC 231 Internet-based Computing (3) +1 4
CPS 278 Java Spring Framework 4	COSC 000 General Transfer Credit (or COSC 111/112) .. 4
CPS 298 Professional Team Programming 4	AACR GEN General Transfer Credit 4

EMU Requirements and Electives that may be Taken at WCC or EMU (15 credits)

Minor requirement courses/open electives 15	Minor requirement courses/general transfer credit 15
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This program requires a minor. 100 level or higher transfer credit may be applied as general transfer credit or as credit toward a minor at EMU. Minors available at EMU can be found in the EMU catalog.

Credits at WCC: 75	Credits that transfer to EMU 75
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*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

Major Requirements

Required Computer Science Courses (23 credits)

COSC 221	Computer Organization I	3
COSC 311	Algorithms and Data Structures	4
COSC 314	Computational Discrete Structures	4
COSC 341	Programming Languages	4
COSC 381	Software Engineering Solutions	4
¹ COSC 482W	Software Engineering and Senior Project	4

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 Development 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 and Languages (4)
COSC 462	Introduction to Information Retrieval (4)
COSC 472	Big Data Management (4)
COSC 473	Big Data Analytics (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 Requirement

Students must complete a minor for this program. Minors require a minimum of 20 credits, with at least 6 credits at the 300/400 level at EMU. In certain situations, some credit can be transferred to EMU to apply to the minor.

Credits at EMU: 45

Transfer Credits: 75

Total Credits: 120

¹ Satisfies EMU's Writing Intensive Course Requirement.

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

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, 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.

Review and Renewal Date: September 1, 2026 until August 31, 2029.

This is a renewal of an agreement made in September 2009 (BA in Computer Science 2019) and renewed in January 2013, September 2017, September 2020, and September 2023. This agreement is consistent with the 2026-2027 catalog. **Students have until summer 2034 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
 Undergraduate Admissions
 Student Center Suite 220
 734.487.6453; transfer_admissions@emich.edu
[Schedule an appointment](#)