ARTICULATION AGREEMENT BETWEEN Washtenaw Community College

AS in Computer Science: Programming in Java

Eastern Michigan University BA in Computer Science

Article I Agreement on Principle

Eastern Michigan University (EMU) and Washtenaw Community College (WCC) agree that students who choose to begin their studies at a community college and transfer to a university to earn a bachelor's degree should be provided with a smooth curriculum transition that minimizes loss of credit and duplication of coursework. Therefore, EMU and WCC agree to enter into this articulation agreement to facilitate the completion of the AS in Computer Science: Programming in Java at WCC and the BA in Computer Science at EMU. Both parties enter into this agreement as cooperating, equal partners who shall maintain the integrity of their separate programs.

Article II Agreement on Program Specifics

EMU and WCC agree that interested students may transfer the course credits indicated on the attached articulation guide toward a BA in Computer Science at EMU. Under this agreement, EMU will waive the 60-hour rule and require that a minimum of 30 credit hours must be completed in courses offered by EMU, of which 15 hours must be in major/program requirements at the 300-level or above. A minimum of 124 total credits is required to graduate.

To use this agreement students must apply and be admitted to EMU. WCC students will receive equal consideration with other students seeking admission and financial aid.

The Michigan Transfer Agreement (MTA) requirements may be completed at the most appropriate time for the student whether before or after admission to EMU. If already on the transcript, the MACRAO designation will be accepted at EMU after summer semester 2019. Students who have not satisfied the MTA or MACRAO agreement must complete EMU's General Education Requirements as applied to transfer students. All other EMU graduation and program requirements must be satisfied whether by transferred courses, EMU courses, or approved substitutions or waivers.

For the purpose of this articulation agreement, both WCC and EMU agree to accept transferable courses from each other and from other regionally accredited institutions. Articulation guides will be provided to assist students in completing the articulated program of study. Each institution will determine the satisfaction of their individual program and degree requirements. WCC courses indicated with an * on the articulation guide are required for EMU's program. Any substitutions for these courses must be approved by the EMU program coordinator if not already stated in the agreement. In the case of a student who has accumulated credits before declaring this program, every effort will be made to maximize the use of credits already completed. All students using this agreement will be encouraged to complete an associate degree, although it is not required. Students will be informed of reverse transfer opportunities. Disputes regarding the transfer of courses may be appealed to the EMU Provost by contacting the Office of Community College Relations 734.487.6577.

Article III Agreement on Communication

EMU and WCC agree to cooperate in communicating with each other and with their common and respective publics concerning the established relationship between the two institutions. Communication may include the development of various kinds of publications to inform those who might benefit personally or professionally from the opportunities provided by this agreement. Faculty and staff at both institutions will share the information in this agreement with interested and qualified students and both institutions will provide counseling and advising to students and prospective students. EMU will provide transfer student performance data to WCC officials annually through the Community College Transfer Student Report.

Article IV Maintenance and Review Procedures

At least one administrative or faculty member from each institution will be appointed to act as agents for the implementation of this agreement, to speak for the institutions and to communicate changes to respective faculty members, advisors, counselors, and others to whom the information is pertinent. Responsibility for oversight of this agreement rests with the Director of Curriculum and Assessment at WCC and the Department Head of Computer Science at EMU. Both parties agree to communicate annually any changes in their respective programs that may affect this articulation agreement.

Effective Date: September 1, 2019 until August 31, 2022.

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.

COMPUTER SCIENCE 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) Requirement	
Students with the MTA endorsement on their community college t	
Requirements and will be required to complete only the General E	
Diverse World course, one Learning beyond the Classroom exper	
below for the MTA also satisfy program requirements at EMU and	
Students without an MTA or MACRAO endorsement must comple	te EMU's general education program.
1. A Course in English Composition	
ENG 111 Composition I	WRTG 121 Composition II (3)+14
2. A Course in English Composition or Communication	
Choose from the approved MTA list	B University Elective3
3. A Course in Mathematics	
*MTH 176 College Algebra4	
4. Two courses in Natural Sciences from different discipline	s (one lab required)
Choose from the approved MTA list7-8	3 University Electives
5. Two courses in Humanities from different disciplines	
Choose two from the approved MTA list	
6. Two courses in Social Sciences from different disciplines	
Choose from the approved MTA list	
Choose two from the approved MTA list	
If needed, complete additional credits in any of the above cat	egories to meet the 30 credit minimum for the MTA.
EMU's Perspectives on a Diverse World requirement: Complete of	
These courses also satisfy an MTA area: Communication: COM	
	150, 221; HUM 175; MUS 180; <u>Social Science:</u> ANT 201; ECO 280;
GEO 101; HST 108, 109, 123, 150, 230, 235; PSY 251, 270; SOC 2	
These courses apply, but do not satisfy the MTA: CCP 251; HUI	
WCC AS in Computer Science: Programming in Ja	va Requirements (31 credits)
CIS 121 Linux/UNIX I: Fundamentals	, , ,
CIS 282 Database Principles and Application	
*CPS 161 Introduction to Programming with Java4	
*CPS 261 Advanced Java Concepts4	
*CPS 276 Web Programming Using Apache, MySQL, & PHP 4	
CPS 278 Java Server Programming4	
CPS 251 Android Programming Using Java	
CPS 298 Professional Team Programming	COSC 000 University Elective4
EMU Requirements and Electives that May be Take	en at WCC or EMU (15 credits)
	Minor requirement courses/university electives15
	dit may be applied as university elective or as credit toward a minor
	alog (catalog.emich.edu). Course equivalencies for WCC courses
transferring to EMU can be found at EMU's transfer equivalen	cy page (app.emicn.edu/transfereq)
Credits at WCC:76	Credits that transfer to EMU76

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

<u>Sign up with us:</u> 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.

COMPUTER SCIENCE ARTICULATION AGREEMENT GUIDE

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

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 Dylpment 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:

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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	3
Transfer Credits76	>
Minimum Credits to Graduate:124	ŀ

¹ Fulfills EMU's Writing Intensive Requirement.

COMPUTER SCIENCE ARTICULATION AGREEMENT GUIDE

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 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 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 Computer Science program coordinator before applying to EMU. To facilitate advising and the evaluation of transcripts, <u>sign up for this articulation agreement</u> and bring a copy of this articulation guide to all advising sessions.

Effective Date: September 1, 2019 until August 31, 2022.

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:

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