ARCHIVED COMPUTER SCIENCE ARTICULATION AGREEMENT GUIDE

Schoolcraft College – AAS in CIS: Programming

Eastern Michigan University - BS in Computer Science Major - Applied

Schoolcraft College Courses:

Transfer to Eastern Michigan University:

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 EMU General Education Application Requirements of one Perspectives on a Diverse World course, one Learning beyond the Classroom experience, and one Writing Intensive course in the major. Specific courses listed below for the MTA will also satisfy program requirements at Schoolcraft and/or EMU. For courses approved by Schoolcraft to satisfy the MTA go to Schoolcraft's website. Students who do not have a MACRAO or MTA endorsement must complete EMU's general education program. 1. A Course in English Composition 2. A Second Course in English Composition or Communication 3. A Course in Mathematics MATH 150 Calculus I (in place of MATH 126, 113)5 MATH 120 Calculus I (4)+15 4. Two Natural Science courses from different disciplines (one lab required) Choose from the approved MTA list7-8 5. Two Humanities courses from different disciplines 6. Two Social Science courses from different disciplines Choose one of the following: POLS 105; PSYCH 153 or 201 .3-4 If needed, complete additional courses in any of the above categories to satisfy 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: Natural Science: BIOL 104; GEOG 212; Humanities: ENG 170, 275; HIST 138; HUM 150, 201, 202, 203, 204; Social Sciences: ANTH 112, 201, 214; GEOG 133; HIST 138; POLS 207, 209; SOC 210 These courses apply, but do not satisfy the MTA: BUS 240; CCD 217; EDUC 200; SPE 100 Schoolcraft CIS: Programming Requirements (43-44 credits) **CIS 115** IS 215 *CIS 129 Introduction to Programming Logic (3) and0 * CIS 290 Object-Oriented Programming w/Java (3).....6 CIS 176 *CIS 211 Introduction to C++ (2) and *CIS 221 **CIS 225** IS 000 JavaScript (Program Elective)......3 *CIS 238 CIS 250 Systems Development and Design4 IS 000 CIS 255 IA 212 **CNT 115** ISAC 000 CIS 120, 122, 171, 185, 223, 251 EMU Requirements that May be Taken at Schoolcraft or EMU (1-2 credits) Open Electives (not to exceed 75 credits at SC)1-2 Credits at Schoolcraft:75 Credits that transfer to EMU......75

* This course is required for EMU's Computer Science Major-Applied.

Sign up with us: 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.

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Schoolcraft College –**AAS in CIS: Programming** Eastern Michigan University – **BS in Computer Science Major - Applied**

Completion of EMU's

BS in Computer Science - Applied

Major Requirements (45 credits)			
• • • • • •			
	ourses (3 credits) tistical Methods	3	
Required Computer Science Courses (22 credits)			
	mputer Organization I		
COSC 341 Programming Languages4			
COSC 381 Software Engineering Solutions4 COSC 481W Software Engineering and Senior Project3			
		-	
Restricted Elective Courses (20 credits)			
Five courses from the following:20 Only one 300-level course may be used to satisfy this			
requirement.	el course may be used l	o satisfy this	
	Symbolic Computing		
or COSC 321 Computer Organization			
or COSC 374 Applied Cryptography			
COSC 405	Switching Theory		
COSC 411	Algorithm Design and		
COSC 421	Systems Programming		
COSC 422	Intro to Microprocesso		
COSC 423	Computer Operating S		
COSC 426 COSC 436	Software Dvlpmnt for I Web Programming	NODIIE Devices	
COSC 430	Computing Network P	rinciples	
COSC 444	Found of Automata &		
COSC 445	Compiler Construction		
COSC 456	Computer Graphics		
COSC 457	Computer Game Prog		
COSC 461	Heuristic Programming		
COSC 462	Introduction to Informa	ation Retrieval	
COSC 471	Database Principles		
COSC 472 COSC 473	Big Data I		
COSC 473 COSC 480	Big Data II Special Topics (4)		
	,		
LBC Requirement			
Students must complete one Learning Beyond the			

Classroom course or noncredit experience offered by EMU. Consult computer science advisor for options.

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

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Schoolcraft College – AAS in CIS: Programming Eastern Michigan University – BS in Computer Science – Applied, BS in Computer Science – Curriculum, or a BA in Computer Science

Additional information:

- 1. Each institution will determine the satisfaction of their individual program and degree requirements. Both Schoolcraft and EMU agree to accept transferrable courses from each other and from other institutions. Schoolcraft courses indicated with an * are required for EMU's BS in Computer Science or the 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 with at least 30 hours in EMU courses, 15 hours of which must be in program requirements 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. Schoolcraft students will receive equal consideration with other students for course registration and financial aid.
- 6. Students are encouraged to contact EMU's Francine Parker Advising Center 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 Dates: 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: Schoolcraft College Academic Advising McDowell 175 734.462.4429 eadvise@schoolcraft.edu

Eastern Michigan University Francine Parker Advising Center Student Center, Room 120 734.487.4599 francineparker_advising@emich.edu