

COMPUTER SCIENCE APPLIED ARTICULATION AGREEMENT GUIDE

Wayne County Community College District – **AAS in Computer Information Systems**
 Eastern Michigan University – **BS in Computer Science Applied**

Wayne County Community College District 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. Courses listed below for the MTA also satisfy program requirements at EMU and/or WCCCD. For WCCCD approved MTA courses go to WCCCD's website. Students without an MTA or MACRAO endorsement must complete EMU's general education program.

1. A Course in English Composition

ENG 119 English I..... 3 WRTG 120 Composition I 3

2. A Course in English Composition or Communication

SPH 101 Fundamentals of Speech..... 3 COMM 124 Found of Speech Communication..... 3

3. A Course in Mathematics

* MAT 171 Analytics Geometry & Calculus I 5 MATH 120 Calculus I (4)+1 5

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

5. Two courses in Humanities from different disciplines

Choose two from the approved MTA list 6 General Transfer Credit..... 6

6. Two courses in Social Sciences from different disciplines

PS 101 American Government..... 3 PLSC 112 American Government..... 3

Choose from the approved MTA list 3 General Transfer Credit..... 3

*** EMU's Perspective 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 WCCCD. The following courses can be used to fulfill MTA requirements above. **Humanities:** AAS 253; ENG 212, 260, 261, 266, 290, 292; HUM 126; MWS 102; **Social Science:** AAS 120, 131, 140, 150, 175, 180, 253; ANT 152, 154; HIS 152, 261, 262; MWS 101, 103, 106, 107, 114; PS 160; SOC 230.

These courses apply to the diversity requirement, but do not satisfy the MTA: COR 218, ECE 210; GEG 202; GER 110; PLT 260; SED 101; MGT 210.

WCCCD AAS in Computer Information Systems Requirements (39 credits)

CIS 110 Introduction to Computer Information Systems 4	IS 000 General Transfer Credit 4
CIS 112 Structured Design..... 3	COSC 000 General Transfer Credit 3
CIS 120 Introduction to Database Concepts 3	IS 000 General Transfer Credit 3
CIS 200 Python Programming Language..... 4	COSC 000 General Transfer Credit 4
CIS 201 C# Programming Language..... 4	COSC 000 General Transfer Credit..... 4
* CIS 207 Java Programming Language..... 4	COSC 111/112 Introduction to Programming 4
CIS 210 Introduction to Operating Systems 3	ISAC 000 General Transfer Credit..... 3
CIS 212 Linux 4	IA 212 Open Source Platform & Network Admin..... 3
CIS 240 Networking Essentials 3	IT 110 Concepts of Business and Network Tech 3
CIS 241 Internet Foundations..... 4	AACR GEN General Transfer Credit..... 4
CIS 260 System Analysis and Design 3	IS 000 General Transfer Credit..... 3

Credits at WCCCD:69 Credits that transfer to EMU 69

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

*All of the EMU Computer Science Programs offer a mix of theory that prepares students for career employment in computer science fields such as systems programming and analysis, software development and maintenance, as well as applications programming. **The Computer Science Applied Major** accords the student the opportunity to concentrate in a specific area of computer science such as games programming, software development or mobile apps/web programming that is suitable for their career goals. [Read more about the Computer Science programs on our website.](#)*

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Completion of EMU’s BS in Computer Science Major Applied

Major Requirements (52 credits)

Mathematics Requirements (3 credits)

STAT 360 Statistical Methods..... 3

Required Computer Science Courses (29 credits)

COSC 211 Programming Data Structures..... 3
 COSC 212 Programming Data Structures Online Lab ... 1
 COSC 221 Computer Organization I..... 3
 COSC 231 Internet-based Computing..... 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
¹COSC 481W Software Engineering and Senior Project 3

Restricted Elective Courses (20 credits)

Select 20 credits from the following:..... 20

Only one 300-level course may be used to satisfy this requirement.

- COSC 315 Symbolic Computing
- COSC 321 Computer Organization
- COSC 374 Applied Cryptography
- COSC 405 Switching Theory
- COSC 411 Algorithm Design and Analysis
- COSC 421 Systems Programming
- COSC 422 Intro to Microprocessors
- COSC 423 Computer Operating Systems
- COSC 426 Software Dvlpmnt for Mobile Devices
- COSC 436 Web Programming
- COSC 439 Computing Network Principles
- COSC 444 Found of Automata & Languages
- COSC 445 Compiler Construction
- COSC 456 Computer Graphics
- COSC 457 Computer Game Programming
- COSC 461 Heuristic Programming
- COSC 462 Introduction to Information Retrieval
- COSC 471 Database Principles
- COSC 472 Big Data I
- COSC 473 Big Data II
- COSC 480 Special Topics (4)

LBC Requirement

Students must complete one “Learning Beyond the Classroom” course or noncredit experience offered by EMU. Consult the undergraduate catalog or your major advisor for options.

Credits at EMU: 52
Transfer Credits..... 69
Total Credits: 121

¹ *Fulfills EMU’s Writing Intensive Requirement.*

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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. WCCCD 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 52 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. WCCCD 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 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:

Wayne County Community College District

Eastern Michigan University
 EMU Undergraduate Admissions
 Student Center, Ste. 220
 734.487.6453
transfer_admissions@emich.edu
[Schedule an appointment](#)