ARTICULATION AGREEMENT

Between

Henry Ford College

AAS in Computer Information Systems – Cybersecurity or
AAS in Computer Information Systems – Network Administration

and

Eastern Michigan University

College of Engineering and Technology
School of Information Security and Applied Computing

BS in Information Assurance and Cyber Defense

September 2020

ARTICULATION AGREEMENT BETWEEN

Henry Ford College

AAS in Computer Information Systems – Cybersecurity or
AAS in Computer Information Systems – Network Administration
and

Eastern Michigan University

BS in Information Assurance and Cyber Defense

Article I
Agreement on Principle

Eastern Michigan University (EMU) and Henry Ford College (HFC) 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 HFC agree to enter into this Articulation Agreement ("Agreement") to facilitate the completion of the Computer Information Systems - Cybersecurity or the Computer Information Systems – Network Administration program at HFC and the BS in Information Assurance and Cyber Defense 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 HFC agree that interested students may transfer the course credits indicated on the attached articulation guide toward a BS in Information Assurance and Cyber Defense at EMU. Under this Agreement, EMU will waive the 60-hour rule and require that a minimum of 45 credit hours must be completed in courses offered by EMU in the BS in Information Assurance and Cyber Defense program 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. HFC 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 HFC 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. HFC 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 HFC 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 HFC 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 Academic Affairs at HFC and the School Director of Visual and Built Environments at EMU. Both parties agree to communicate annually any changes in their respective programs that may affect this Articulation Agreement.

Effective Date: September 1, 2020 until August 31, 2023.
This Agreement is consistent with the 2020-2021 catalog. Students have until summer 2028 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.

Termination: Either Party may terminate this Agreement without cause with 30 days written notice to the other, with the stipulation that students involved in programming at HFC or EMU pursuant to this Agreement at the time of termination shall be allowed to complete their training under the terms of the Agreement.

Article V
Miscellaneous Provisions

Discrimination: The Parties agree orientation that they will not discriminate against any student or participant because of race, color, age, sex/gender, sexual, gender identity, gender expression, religion, national origin, height, weight, marital status, disability perceived disability, political affiliation, familial status, veteran status, genetic or other characteristic protected by law in the performance of programs and services under this Agreement, consistent with federal and state laws and with the non-discrimination policies of each Party. Neither party will discriminate against any employee or applicant for employment (with respect to hire, tenure, terms, conditions, or privileges of employment, or a matter

directly or indirectly related to employment) because of race, color, age, sex/gender, sexual orientation, gender identity, gender expression, religion, national origin, height, weight, marital status, disability, perceived disability, political affiliation, familial status, veteran status, genetic or other characteristic protected by law.

The Parties agree that they will provide appropriate accommodations and services for students with disabilities who are protected by the Americans with Disabilities Act and make sure that all of their programs are also accessible and comply with the Americans with Disabilities Act (ADA), Rehabilitation Act of 1974, World Wide Web Consortium's Accessibility Guidelines (W3CG) and any other applicable law or regulation.

Notices: Notices required under this Agreement shall be in writing and shall be sent registered mail or certified mail, return receipt requested. Such notices shall be addressed to the Parties at the addresses set forth below, or at such other address as may be specified by either Party. The Parties may otherwise communicate by email.

If to HFC: Academic Services (L314)
Henry Ford College
5101 Evergreen Rd.
Dearborn, MI 48128
academicservices@hfcc.edu

If to EMU: Director, Community College Relations
Eastern Michigan University
200 McKenny Hall
Ypsilanti, MI 48197
ccr_office@emich.edu

Disputes. The Parties agree to attempt best efforts to resolve disputes on an informal basis through meetings and discussions. Disputes that are not resolved at the informal level will be submitted to facilitation. If facilitation is unsuccessful, the Parties shall submit their dispute to binding arbitration in lieu of litigation and waive the right to file suit against the other. The arbitration shall be conducted in Dearborn, Michigan by a mutually acceptable arbitrator who shall determine which Party(ies) shall be responsible for paying the arbitrator's fee.

Invalid Parts. If any provision of this Agreement is declared by any court of competent jurisdiction to be invalid for any reason, such invalidity shall not affect the remaining provisions. On the contrary, such remaining provisions shall be fully severable, and this Agreement shall be construed and enforced as if such invalid provisions never had been inserted in this Agreement.

Modifications. This Agreement may only be modified by written instrument signed by both Parties hereto.

Enforcement and Governing Law. All matters relating to the validity, interpretation, performance or enforcement of this Agreement, and any claims arising from or related to this Agreement, will be governed by and construed in accordance with the laws of the United States of America, State of Michigan, without regard to the principle of conflict of laws.

Indemnification. Statutory and common law theories and principles of indemnification, contribution, and equitable restitution shall govern and apply to claims, actions, causes of action, costs, expenses and losses (including attorneys' fees) resulting from or caused by the actions or omissions of the parties or their employees pursuant to this Agreement.

Entire Agreement. This Agreement embodies the entire agreement of the Parties and supersedes all other verbal and/or written agreements, warranties, representations, or understandings entered into by the Parties and may only be modified by a written amendment executed by authorized signatories of both Parties.

Counterparts. This Agreement may be executed in counterparts which, when combined, shall constitute the entire agreement.

ARTICULATION AGREEMENT BETWEEN
Henry Ford College – AAS Computer Information Systems – Cybersecurity or
AAS Computer Information Systems – Network Administration
Eastern Michigan University- BS in Information Assurance and Cyber Defense

Henry Ford College and Eastern Michigan University agree to the terms of this Agreement, which will be in effect from September 1, 2020 until August 31, 2023. The signatories below warrant they are authorized to enter into this Agreement on behalf of their respective Parties.

Signatures

Henry Ford College

Russell Kavalhuna, JD
President

8/13/20
Date

Michael Nealon, PhD
Vice President of Academic Affairs

3/20/20
Date

Patricia Chatman, PhD
School of Business, Entrepreneurship, and Professional Development

3/6/2020
Date

Eastern Michigan University

James M. Smith, PhD
President

2/10/2020
Date

Rhonda Kinney Longworth, PhD
Provost & Executive Vice President
Academic and Student Affairs

2/6/2020
Date

Mohamad Qatu, PhD
Dean of the College of Engineering & Technology

1/31/2020
Date

Suleiman Ashur, PhD, (I) Director
School of Information Security & Applied Computing

1/31/2020
Date

INFORMATION ASSURANCE AND CYBER DEFENSE ARTICULATION AGREEMENT GUIDE

Henry Ford College – **AAS in Computer Information Systems - Cybersecurity**
Eastern Michigan University – **BS in Information Assurance and Cyber Defense**

Henry Ford 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 HFC. For HFC approved MTA courses go to HFC's website. Students without an MTA or MACRAO endorsement must complete EMU's general education program.

1. A course in English Composition		
ENG 131 Introduction to College Writing 3	WRTG 120 General Transfer Credit 3
2. A second course in English Composition or Communication		
ENG 132 College Writing and Research 3	WRTG 121 Composition II 3
3. A course in Mathematics		
* MATH 141 Introduction to Statistics 4	STAT 170 Elementary Statistics (3)+1 4
4. Two courses in Natural Sciences from different disciplines (one lab required)		
Choose from the approved MTA list 7-8	General Transfer Credit 7-8
5. Two courses in Humanities from different disciplines		
Choose from the approved MTA list 6	General Transfer Credit 6
6. Two courses in Social Sciences from different disciplines		
CRJ 131 Intro to Law Enfmt & Crim Justice 3	CRM 300 General Transfer Credit 3
Choose one from the approved MTA list 3	University Elective 3

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: Natural Science: BIO 138 (non-lab); Humanities: ART 224, 225, 226, 227; ENG 243, 248
Social Science: ANTH 131, 151, 152, 154; EDU 296; GEOG 132; HIST 113, 243, 252, 261; POLS 152; PSY 296; SOC 152, 251.
This course applies, but does not satisfy the MTA: BBA 250; LGL 248; PHIL 201; PLGL 248; WR 233, 236, 241

HFC CIS Cybersecurity Program Requirements (50-51 credits)

CIS 100 Introduction to Information Technology 3	IS 215 General Transfer Credit 3
CIS 111 SQL for Database Development 3	IS 000 General Transfer Credit 3
*CIS 124 Introduction to Windows Server Administration 3	IA 244 Systems Administration 3
*CIS 125 Principles of Programming Logic 4	sub for **COSC 146** Applied Programming & Scripting (3)+1 .. 4
*CIS 129 Introduction to UNIX with Shell Scripting 4	IA 212 Open Systems Platform & Network Admin (3)+1 4
CIS 158 A+ Operating Systems 4	IA 215 General Transfer Credit 4
[1]*CIS 229 UNIX System Administration 4	IA 412 sub for Restricted Elective 4
*CIS 276 Digital Forensics 3	IA 000 sub for Restricted Elective 3
*CIS 280 Information Assurance and Security 4	IA 103 Information Security Overview (3)+1 4
*CIS 296 Information Assurance Methodology 3	ISAC 000 sub for Restricted Elective 3
*CNT 110 CCNA: Networking I 4	IT 110 Concepts of Network and Business Technology 4
* CNT 120 CCNA: Networking II 4	IT 150 Networking I (3)+1 4
*CNT 260 Network Security 4	IA 202 Risk-Vulnerability Analysis (3)+1 4
Choose one from: AUTO 237 or ENGR 130 2-3	ELEC 000 or ET/ME 100 2-3
Choose one from CIS 190 or 290 1	AACR Gen General Transfer Credit 1

EMU Requirements and Electives that May be Taken at HFC or EMU (8 credits)

*CNT 210 CCNA: Networking III (4) and	
* CNT 220 CCNA: Networking IV (4) 8	IT 254 Networking II (3)+5 8
Credits at HFC: 88-89	**Credits that transfer to EMU 76**

**Required for EMU's BS in Information Assurance and Cyber Defense program. If not transferred, must be completed at EMU.*

[1]Credit applied toward the 124 credits required for graduation at EMU, but not toward the required 45 credits at the 300/400 level.

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.***

INFORMATION ASSURANCE AND CYBER DEFENSE ARTICULATION AGREEMENT GUIDE

Henry Ford College – **AAS in Computer Information Systems - Cybersecurity**
Eastern Michigan University – **BS in Information Assurance and Cyber Defense**

Completion of the BS in Information Assurance & Cyber Defense

IA 103 and IT 110 (CIS 280 and CNT 110) must be completed with a grade of "B-" or higher for admission to the IACD major and to enroll in IA 300-level courses. **All students must take at least 45 credits at the 300 level or above in the IACD program.**

Major Requirements (48 credits)

Information Assurance Required Courses (36 credits).

LEGL 320	Cyber Law and Compliance	3
COSC 274	Introduction to Applied Cryptography	3
IA 322	Managing Security Projects	3
[1] IA 329W	Policy Development in Info Assurance (GEWI)	3
IA 385	Database Management & Security	3
IA 400	Malware Analysis & Reverse Engineering	3
IA 427	Digital Forensics I	3
IA 445	Ethical Hacking and Offensive Security	3
IA 455	Incident Response	3
IA 462	Adv. Operating Systems Security & Admin	3
IA 473	Network Forensics & Analytics (was IA 430)	3
IA 495	Capstone	3

IA Restricted Electives (12 hours)

A maximum of 9 hours can be taken with an IA prefix. **All courses should be taken at the 300/400 level to meet the 45 credits at the 300 level or above requirement.**

[2] IA 387L4 Co-operative Education (GELB) (3)
IA 425 Cyber Crime Investigation I (3)
IA 428 Digital Forensics II (3)
IA 471 Data Security and Privacy (3)
IA 474 Applied Data Mining for IA (3)
IA 475 Adv Topics in Information Security (3)
IA 476 Enterprise Security Analytics (3)
ISAC 317 IoT and Embedded Systems Security (3)
ISAC 417 Modern Vehicle Technology & Cyber Security (3)
Any IA, CIS, or COSC 300-level or higher (3)

[1] *Satisfies EMU's Writing Intensive requirement.*
[2] *Satisfies Learning Beyond the Classroom requirement.*

LBC Requirement

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

Courses may not be offered every semester. Meet with a program advisor to plan a program of study.

Total Credits at EMU	**48**
Transfer Credits	**76**
Credits to Graduate	**124**

INFORMATION ASSURANCE AND CYBER DEFENSE ARTICULATION AGREEMENT GUIDE

Henry Ford College – **Computer Information Systems - Cybersecurity**
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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 transferrable courses from each other and from other regionally accredited institutions. HFC courses indicated with an * are required for EMU's BS in Information Assurance and Cyber Defense. 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 48 credit hours must be completed in EMU courses, with at least 45 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:
   - Completion of IA 103 and IT 110 with a grade of "B-" or above
   - Inform advisor of the decision to join the IACD program in person or by email
   - Students will be notified by letter and/or through email after a decision has been made.
6. Students are encouraged to contact EMU's BS in Information Assurance and Cyber Defense program coordinator before applying to EMU. To facilitate advising and the evaluation of transcripts, sign up for this articulation agreement and bring a copy of this articulation guide to all advising sessions.

Effective Date: September 1, 2020 until August 31, 2023.
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:

Henry Ford College
Marrci Conner
Cybersecurity Program Director
mrconner2@hfcc.edu

Eastern Michigan University
College of Engineering & Technology Student Services
734.487.8659
cot_advising@emich.edu

INFORMATION ASSURANCE AND CYBER DEFENSE ARTICULATION AGREEMENT GUIDE

Henry Ford College – **AAS in Computer Information Systems – Network Administration**
Eastern Michigan University – **BS in Information Assurance and Cyber Defense**

Henry Ford 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 HFC. For HFC approved MTA courses go to HFC's website. Students without an MTA or MACRAO endorsement must complete EMU's general education program.

1. A course in English Composition		
ENG 131 Introduction to College Writing 3	WRTG 120 General Transfer Credit 3	
2. A second course in English Composition or Communication		
Choose one from the approved MTA list 3	General Transfer Credit 3	
3. A course in Mathematics		
* MATH 141 Introduction to Statistics 4	STAT 170 Elementary Statistics (3)+1 4	
4. Two courses in Natural Sciences from different disciplines (one lab required)		
Choose from the approved MTA list 7-8	General Transfer Credit 7-8	
5. Two courses in Humanities from different disciplines		
Choose from the approved MTA list 6	General Transfer Credit 6	
6. Two courses in Social Sciences from different disciplines		
Choose two from the approved MTA list 6	General Transfer Credit 6	

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: Natural Science: BIO 138 (non-lab); Humanities: ART 224, 225, 226, 227; ENG 243, 248
Social Science: ANTH 131, 151, 152, 154; EDU 296; GEOG 132; HIST 113, 243, 252, 261; POLS 152; PSY 296; SOC 152, 251.
This course applies, but does not satisfy the MTA: BBA 250; LGL 248; PHIL 201; PLGL 248; WR 233, 236, 241

HFC CIS Network Administration Program Requirements (48 credits)

CIS 100 Introduction to Information Technology 3	IS 215 General Transfer Credit 3
*CIS 124 Introduction to Windows Server Administration 3	IA 244 Systems Administration 3
*CIS 125 Principles of Programming Logic 4	sub for COSC 146 Applied Programming & Scripting (3)+1 .. 4
*CIS 129 Introduction to UNIX with Shell Scripting 4	IA 212 Open Systems Platform & Network Admin (3)+1 4
[1]* CIS 229 UNIX System Administration 4	IA 412 sub for Restricted Elective 4
CIS 242 Voice Over IP (VoIP) 2	ISAC 000 General Transfer Credit 2
CIS 244 Storage and Virtualization 3	ISAC 000 General Transfer Credit 3
* CIS 295 Network Design and Implementation 3	ISAC 000 sub for Restricted Elective 3
*CIS 296 Information Assurance Methodology 3	ISAC 000 sub for Restricted Elective 3
*CNT 110 CCNA: Networking I 4	IT 110 Concepts of Network and Business Technology 4
* CNT 120 CCNA: Networking II 4	IT 150 Networking I (3)+1 4
*CIS 280 Information Assurance and Security 4	IA 103 Information Security Overview (3)+1 4
Complete 7 credit hours-Networking, Special Topics, Job Experience:	
*CNT 260 Network Security 4	IA 202 Risk-Vulnerability Analysis (3)+1 4
Choose 3 credits from the approved catalog listing 3	General Transfer Credit 3
Credits at HFC: 78	**Credits that transfer to EMU 76**

**Required for EMU's BS in Information Assurance and Cyber Defense program. If not transferred, must be completed at EMU.*

[1]Credit applied toward the 124 credits required for graduation at EMU, but not toward the required 45 credits at the 300/400 level.

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Major Requirements (48 credits)

Information Assurance Required Courses (36 credits).

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IA 400	Malware Analysis & Reverse Engineering	3
IA 427	Digital Forensics I	3
IA 445	Ethical Hacking and Offensive Security	3
IA 455	Incident Response	3
IA 462	Adv. Operating Systems Security & Admin	3
IA 473	Network Forensics & Analytics	3
IA 495	Capstone	3

IA Restricted Electives (12 hours)

A maximum of 9 hours can be taken with an IA prefix. **All courses should be taken at the 300/400 level to meet the 45 credits at the 300 level or above requirement.**

[2] IA 387L4 Co-operative Education (GELB) (3)
IA 425 Cyber Crime Investigation I (3)
IA 428 Digital Forensics II (3)
IA 471 Data Security and Privacy (3)
IA 474 Applied Data Mining for IA (3)
IA 475 Adv Topics in Information Security (3)
IA 476 Enterprise Security Analytics (3)
ISAC 317 IoT and Embedded Systems Security (3)
ISAC 417 Modern Vehicle Technology & Cyber Security (3)
Any IA, CIS, or COSC 300-level or higher (3)

LBC Requirement

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

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Total Credits at EMU	**48**
Transfer Credits	**76**
Credits to Graduate	**124**

[1] *Satisfies EMU's Writing Intensive requirement.*
[2] *Satisfies Learning Beyond the Classroom requirement*

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Contacts:

Henry Ford College
Brent Fulton
Computer Network Administration
brent@hfcc.edu

Eastern Michigan University
College of Engineering & Technology Student Services
734.487.8659
cot_advising@emich.edu