

INFORMATION ASSURANCE ARTICULATION AGREEMENT GUIDE

Henry Ford College– AAS in CIS – Information Assurance (Transfer Track)

Eastern Michigan University – Bachelor of Science in Information Assurance

Henry Ford Community College Courses:	Transfer to Eastern Michigan University as:
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. <u>Courses listed below for the MTA will also satisfy major or degree requirements at HFC and/or EMU.</u> Students who started college before Fall 2014 may continue to follow the MACRAO Agreement until the end of August 2019.	
1. A course in English Composition	
Choose from the approved MTA list..... 3	University Elective 3
2. A second course in English Composition or Communication	
* SPC 145 Interpersonal Communication..... 3	CTAC 227 Interpersonal Communication..... 3
3. A course in Mathematics	
* MATH 141 Intro to Statistics 4	MATH 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	University Electives..... 7-8
5. Two courses in Humanities from different disciplines	
¹ Choose One from: 3	Perspectives on a Diverse World Requirement: 3
ART 224, 225, 226, 227; ENG 243, 248; WR 233, 236	
Choose from the approved MTA list..... 3	University Electives..... 3
6. Two courses in Social Sciences from different disciplines	
CRJ 131 Intro to Law Enfmt & Crim Justice 3	University Elective 3
SOC 131 Intro to Sociology (CIS-IA Support Course)..... 3	University Elective 3
7. If needed, complete additional credits in any of the above categories to satisfy the 30 credit minimum for the MTA.	
HFCC CIS - Information Assurance Requirements (42 credits)	
CIS 100 Intro to Information Technology 3	University Elective 3
* CIS 112 Intro to Networking 3	IA 210 Concepts of Network & Business Technology 3
* CIS 158 A+ Operating Systems 4	IA 215 Systems Support & Trouble Shooting (3)+1 4
* CIS 280 Information Assurance and Security 4	IA 103 Information Security Overview 4
² CIS 296 Information Assurance Methodology..... 3	IA 415 Research Techniques (IAM, AIA, or IAE Conc) 3
* CNT 260 Network Security: Security and Prep 4	IA 202 Risk-Vulnerability Analysis (3)+1 4
CRJ 134 Criminal Investigation..... 3	University Elective 3
³ CIS 124, CIS 272, CRJ 234 and CRJ 235 are waived under this agreement.	
* CIS 129 Intro to UNIX w/Shell Scripting..... 4	IA 212 Open Systems Platform & Network Admin (3)+1 4
* CIS 125 Princ of Programming Logic (4) and	
* CIS 130 Visual Basic.NET Programming (3) 7	subs for COSC 146 Applied Programming 7
* CIS 162 Perl Prog (4) and	
* CIS 170 "C" Programming (3) 7	subs for COSC 211 or 206 7
Credits at HFCC: 72	Credits that transfer to EMU 72

* Required for EMU's Information Assurance program (all concentrations).

¹ Satisfies the Perspectives on a Diverse World Requirement

² Applies to the IAM, AIA, and IAE concentrations

³ Contact Marrci Conner, HFC Program Coordinator for course waivers.

NOTE: Students who have completed the CCNA Computer Networking Academy may use this agreement to transfer into the Information Assurance Network Security Administration Concentration at EMU. In addition to the CCNA Computer Networking Academy (CNT 110, 120, 210, and 220 which are equivalent to IA 350 and 354) students may also transfer CIS 112, CIS 129, CIS 125, CIS 130, CIS 158, CIS 162, CIS 170, CIS 280, and CNT 260. See the Information Assurance Program Advisor for more information.

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Completion of the Information Assurance Program at EMU

All students will take a placement examination prior to enrolling in IA 300-level courses. This exam is offered on-line.

Major Requirements (54-57 credits)

Foundation Courses: (15 credits)

IA 213 Privacy and Technology	3
IA 240 Intelligence Analysis I	3
IA 329 Policy Development in Info Assurance	3
LEGL 320 Cyber Law and Compliance	3
STS 300W Research & Writing: Tech Perspective.....	3

Concentration Requirements:

Complete one of the following concentrations:

Information Assurance Management: (IAM) (39 credits)

IA 343 Intelligence Analysis II	3
IA 344 Admin of Computer Systems.....	3
IA 400 Malware Analysis & Reverse Engineering.....	3
IA 422 Networks: Planning & Design.....	3
IA 425 Cyber Crime Investigation I	3
IA 427 Digital Forensics I.....	3
IA 430 Network Forensics.....	3
IA 445 Ethical Hacking and Offensive Security.....	3
IA 480 SQL Database Security.....	3
MGMT 386 Organizational Behavior and Theory.....	3
MGMT 403 Managerial Communication: Theory & Appl.....	3
MGMT 480W Management Responsibility and Ethics.....	3
¹ Choose one: IA 387 or IA 416	3

Total Credits at University Level54

Credits to Graduate..... 126

Applied Information Assurance: (AIA) (39 credits)

COSC 374 Applied Cryptography.....	3
IA 343 Intelligence Analysis II	3
IA 344 Admin of Computer Systems.....	3
IA 400 Malware Analysis & Reverse Engineering.....	3
IA 412 Linux Security Admin.....	3
IA 425 Cyber Crime Investigation I	3
IA 427 Digital Forensics I.....	3
IA 428 Digital Forensics II	3
IA 430 Network Forensics.....	3
IA 445 Ethical Hacking and Offensive Security.....	3
IA 455 Incident Response.....	3
IA 480 SQL Database Security.....	3
¹ Choose one: IA 387 or IA 416	3

Total Credits at University Level54

Credits to Graduate 126

Information Assurance Encryption (IAE) (39 credits)

COSC 314 Computational Discrete Structures.....	3
COSC 374 Applied Cryptography.....	3
IA 400 Malware Analysis & Reverse Engineering	3
IA 427 Digital Forensics I.....	3
IA 430 Network Forensics.....	3
IA 480 SQL Database Security.....	3
MATH 120 Calculus I.....	4
MATH 121 Calculus II.....	4
MATH 205 Math Structures for Computer Science	4
MATH 319 Mathematical Modeling	3
MATH 409 Cryptology	3
¹ Choose one: IA 387 or IA 416.....	3

Total Credits at University Level 54

² Credits to Graduate 126

IA Network Security/Administration (IANS) (42 credits)

IA 344 Admin of Computer Systems	3
IA 350 Network Connectivity	3
IA 354 Multi Level Networking.....	3
IA 364 Adv Windows Security	3
IA 400 Malware Analysis & Reverse Engineering	3
IA 412 Linux Security Administration.....	3
IA 422 Networks: Planning & Design.....	3
IA 427 Digital Forensics I.....	3
IA 430 Network Forensics.....	3
IA 445 Ethical Hacking & Offensive Security.....	3
IA 455 Incident Response	3
IA 480 SQL Database Security.....	3
IA 495 Networks: Implementation & Evaluation.....	3
¹ Choose one: IA 387 or IA 416	3

Total Credits at University Level57

Credits to Graduate 129

¹ Meets EMU's Learning beyond the Classroom requirement

² A minimum of 124 credits is required to graduate. If insufficient credits are transferred, students must take additional credits at EMU to satisfy the 124 credit minimum.

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Additional Information:

1. In completing the coordinated program of study for this articulation agreement, course substitutions should be made with the guidance of the advisors (indicated below) at both institutions to assure that all requirements are satisfied. Each institution will determine the satisfaction of their individual program and degree requirements. HFCC courses indicated with an * are required for EMU's Information Assurance Program.
2. Students whose transcripts are endorsed as "MACRAO Satisfied" by the community college will be required to meet EMU's three general education requirements indicated on the guide and listed below. These requirements may be completed at the most appropriate time for the student whether before or after admission to EMU.
 - a) An approved course in Quantitative Reasoning: [at HFCC: MATH 115, (**MATH 141 required for IA program**), 150, 153, 175, or 180] or [at EMU: MATH 110 or if Intermediate Algebra is completed with a 2.0 or better, COSC 106; MATH 105, 118, 119, 120, 140, (**MATH 170 required for IA program**); PHIL 181; PLSC 210; SOCL 250 or STS 224]
 - b) An approved course in US Diversity or Global Awareness: [at HFCC: **Humanities**: ART 224; ENG 243, 248; WR 131, 233. **Social Science**: ANTH 131, 151, 152, 154; GEOG 132; HIST 112, 113, 225, 255, 257; POLS 152; SOC 152, 251; **Other Courses**: BBA 250, or BIO 138] or [at EMU: refer to the catalog on the website: <http://www.emich.edu/gened/students/approved.php>]
 - c) One "Learning beyond the Classroom" course or experience offered by EMU: [IA 387, or MGMT or STS internship, or other LBC experience at EMU. See advisor for options.]

To use MACRAO, students must request that an official community college transcript, with the "MACRAO Satisfied" stamp, be sent to EMU's Admissions Office. Students, who do not have "MACRAO Satisfied" on their community college transcript, will be required to satisfy EMU's general education requirements as listed in the Undergraduate Catalog. The MACRAO stamp may be completed after admission to EMU, however, students should inform advisors at EMU that they intend to complete MACRAO, or they may be advised to complete additional courses for the general education program.

3. Only courses with a grade of 2.0 or better (on a 4.0 scale) will be accepted for transfer to EMU.
4. Under this agreement, EMU will waive the 60-hour rule and require that a minimum of 54 credit hours must be completed at the four-year college level, with a minimum of 30 credit hours in courses offered by EMU. Of the last 30 hours completed before graduation, a minimum of 10 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 meet all admission requirements at the time of admission to EMU, including submitting transcripts from all previously attended colleges. All students will take a placement examination prior to enrolling in IA 300-level courses at EMU.
6. Students are encouraged to meet with the EMU Information Assurance advisor early, before completing an admission application to EMU. A copy of the articulation guide should be included with the application to EMU and brought to all advising sessions. Copies of this agreement are available at www.emich.edu/ccr/artguide.php.

Effective Dates: January 1, 2013 until January 1, 2016. This is a renewal of an agreement made in September 2008. Students who began this program prior to the new effective date have the option of using this agreement or continuing to follow the agreement they were using. If this agreement is not renewed at the end of the effective period, students who already started the program will be given three additional years to be admitted to EMU under the terms of this agreement.

Contacts:

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