

**EASTERN MICHIGAN UNIVERSITY**  
DIVISION OF ACADEMIC AFFAIRS  
COMMUNITY COLLEGE RELATIONS

**INTER OFFICE MEMORANDUM**

**To:** Morell Boone, Dean of the College of Technology  
John Boyless, Director of the School of Technology Studies  
Skip Lawver, Information Assurance Program Coordinator

**From:** Pat Cygnar, Director of Community College Relations *PC*

**Date:** May 29, 2008

**Subject:** Information Assurance Articulation Agreement with HFCC

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The new Information Assurance articulation agreement with Henry Ford Community College has been returned with the remaining signatures. A copy for your files is enclosed. This agreement will be due for renewal by September of 2011. Please report any changes to the program before then so that an update can be made.

The articulation guide for this agreement will be distributed to advisers and counselors at both institutions and will be available on the EMU website at [www.emich.edu/ccr/artguide\\_new.htm](http://www.emich.edu/ccr/artguide_new.htm).

**cc:** Christina Shell, Registrar  
Patricia Williams, Director of the Advising Center  
Douglas Potter, Associate Director of Admissions, Transfer  
Charlotte Stigler, Records and Registration  
Byron Bond, Dean of Continuing Education

# **ARTICULATION AGREEMENT**

between

**Henry Ford Community College**

**Associate in Applied Science in Information Assurance**

and

**Eastern Michigan University**

College of Technology

School of Technology Studies

**Bachelor of Science in Information Assurance**

September 2008

**ARTICULATION AGREEMENT BETWEEN**  
**Henry Ford Community College**  
**Associate in Applied Science Information Assurance**  
**and**  
**Eastern Michigan University**  
**Bachelor of Science in Information Assurance**

**Article I**  
**Agreement on Principle**

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Eastern Michigan University (EMU) and Henry Ford Community College (HFCC) agree that students, who choose to transfer from a community college to a senior college or 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, Eastern Michigan University and Henry Ford Community College agree to enter into this program articulation agreement for the AAS in Information Assurance at HFCC and the Bachelor of Science in Information Assurance 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**

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Eastern Michigan University and Henry Ford Community College agree that any student who has successfully completed the minimum requirements outlined on the attached articulation guide may transfer the course credits indicated toward a Bachelor of Science in Information Assurance at Eastern Michigan University. 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. MACRAO provisos may be completed at the most appropriate time for the student whether before or after admission to EMU.

Students who follow this articulated program agreement must apply and be admitted to Eastern Michigan University. HFCC students will receive equal consideration with other students seeking admission and financial aid. The bachelor's degree graduation requirements for students who follow this articulated program agreement are listed on the attached articulation guide.

**Article III**  
**Agreement on Communication**

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Eastern Michigan University and Henry Ford Community College 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.

**Article IV**  
**Maintenance and Review Procedures**

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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 Assistant to the President for School and University Relations at Henry Ford Community College and the Director of the School of Technology Studies at Eastern Michigan University. Both parties agree to communicate annually any changes in their respective programs that may affect this agreement.

This agreement is effective as of **September 1, 2008 until August 31, 2011.**

If this agreement is not renewed at the end of the effective period, students will have an additional three years to be admitted to EMU under the terms of the agreement. Students who began the program prior to the effective period may use this agreement to the extent that the curriculum followed is consistent with the agreement.

**ARTICULATION AGREEMENT BETWEEN**  
**Henry Ford Community College**  
**Associate in Applied Science in Information Assurance**  
**and**  
**Eastern Michigan University**  
**Bachelor of Science in Information Assurance**

The representatives of Henry Ford Community College and Eastern Michigan University agree to the terms of this agreement, which will be effective from September 1, 2008 until August 31, 2011.

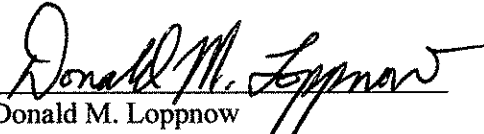
**Signatures**

**Henry Ford Community College**

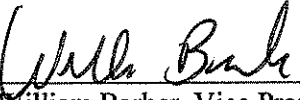
**Eastern Michigan University**

  
 \_\_\_\_\_  
 Gail Mee, President

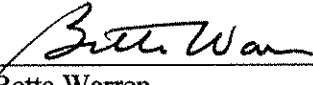
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 Donald M. Loppnow  
 Provost and Executive Vice President

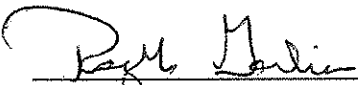
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 \_\_\_\_\_  
 William Barber, Vice President  
 Academic Affairs, Career and  
 Technical Education


5-19-08  
 Date

  
 \_\_\_\_\_  
 Bette Warren  
 Interim Associate Vice President  
 Academic Programs

5/13/08  
 Date

  
 \_\_\_\_\_  
 Reginald Gerlica, Vice President  
 Academic Affairs, Arts and Sciences


5/29/08  
 Date

  
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 Morell Boone  
 Dean of the College of Technology

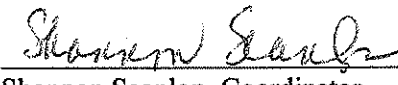
5/15/08  
 Date

  
 \_\_\_\_\_  
 Greg Osowski, Coordinator  
 Information Assurance Program


5/15/08  
 Date

  
 \_\_\_\_\_  
 John Boyless, Director  
 School of Technology Studies

5/15/08  
 Date

  
 \_\_\_\_\_  
 Shannon Scanlon, Coordinator  
 Information Assurance Program

5/15/08  
 Date

  
 \_\_\_\_\_  
 Gerald Lawver, Coordinator  
 Information Assurance Program

5-15-08  
 Date

cc: Gwen Pringle, Counselor  
 Lynne Hensel, Assistant to the President

cc: Christina Shell, Registrar  
 Patricia Williams, Director, Academic Advising Center  
 Douglas Potter, Associate Director of Transfer Admissions  
 Charlotte Stigler, Admissions Office  
 Byron Bond, Dean of Continuing Education  
 Cheryl Aubuchon, Director, Livonia Center

**EASTERN MICHIGAN UNIVERSITY  
ARTICULATION GUIDE**

September 2008

Henry Ford Community College – Associate in Applied Science in Information Assurance  
Eastern Michigan University – Bachelor of Science in Information Assurance

**Henry Ford Community College**

**Eastern Michigan University**

MACRAO Requirements	(32-33 credits)	(32-33 credits)	
<b>1. English Writing Requirement</b>	<b>(6 credits)</b>	<b>(6 credits)</b>	
ENG 131 English Composition .....	3	ENGL 120 Composition I (University Elective) .....	3
ENG 132 English Composition, Continued .....	3	ENGL 121 Composition II .....	3
<b>2. Math/Science Requirement</b>	<b>(8-9 credits)</b>	<b>(8-9 credits)</b>	
*1 Complete one course: (complete at HFCC).....	4-5	One course:.....	4-5
MATH 141 Intro to Statistics (4)		MATH 170 Elem Statistics (3)+1	
MATH 180 Calculus I (5)		MATH 120 Calculus I (4)+1	
Complete one course:.....	4	One course:.....	4
Choose from lab courses with the following course prefixes:		Courses may transfer as equivalent courses,	
ASTR, BIO, CHEM, GEOL, PHYS, PSCI		General education credit, or general transfer credit	
<b>3. Social Science Requirement</b>	<b>(9 credits)</b>	<b>Courses must be from two subject areas (9 credits)</b>	
CRJ 131 Intro to Law Enforcement & Criminal Just.....	3	CRM 300 Criminal Justice (University Elective) .....	3
CRJ 132 Police Administration: Staff & Line Oper .....	3	HSEM 453 Mgmt Process f/Pub Saf Mgr (Univ Elec).....	3
Complete one course: <b>See note below</b> .....	3	One course:.....	3
Choose from courses approved by HFCC to satisfy		Courses may transfer as equivalent courses,	
the MACRAO social science requirement.		Gen Ed transfer credit, or general transfer credit.	
<b>4. Humanities Requirement</b>	<b>(9 credits)</b>	<b>Courses must be from two subject areas (9 credits)</b>	
* SPC 145 Interpersonal Communication .....	3	CTAC 227 Interpersonal Communication .....	3
Complete two courses: <b>see note below</b> .....	6	Two courses:.....	6
Choose from courses approved by HFCC to satisfy		Courses may transfer as equivalent courses, General	
the MACRAO humanities requirement.		Education transfer credit, or general transfer credit.	
<sup>2</sup> <b>NOTE:</b> In completing the Humanities or the Social Science requirements above, choose at least one course from the following to satisfy EMU's Global Awareness/US Diversity requirement: ANTH 131, 152; ART 224; ENG 243, 248; GEOG 132; HIST 113, 225, 255, 257; POLS 153; SOC 152, 251; WR 131			
<b>HFCC Information Assurance Core</b>	<b>(30 credits)</b>	<b>(30 credits)</b>	
* CIS 100 Intro to Information Technology .....	3	IS 215 End-User Computing (sub for COSC 105) .....	3
* CIS 112 Intro to Networking .....	3	NITA 210 Concepts of Network & Business Tech .....	3
CIS 114 Intro to Novell NetWare Administration .....	3	NITA 000 General Transfer Credit .....	3
CIS 220 System Analysis and Design .....	3	IS 000 General Transfer Credit .....	3
* CIS 280 Information Assurance and Security.....	4	IA 103 Information Security Overview .....	4
<sup>3</sup> CIS 272 Project Management.....	4	POM 000 (sub for IS 425) or University Elective .....	4
* CNT 260 Network Security: Security and Prep .....	4	IA 202 Risk and Vulnerability (3)+1 .....	4
CRJ 134 Criminal Investigation .....	3	CRM 320 Criminal Investigation (University Elective).....	3
CRJ 234 Criminalistics: Crim Investigation Lab Tech.....	3	HSEM 000 General Transfer Credit .....	3
<b>HFCC Required Support Courses</b>	<b>(18 credits)</b>	<b>(18 credits)</b>	
*CIS 171 Java Programming .....	3	COSC 111 Intro to Programming.....	3
*CIS 295 Network Design & Implementation .....	3	NITA 212 Open Source Platform & Network Admin .....	3
<sup>4</sup> CIS 229 UNIX System Administration .....	4	NITA 412 Admin of Computer Syst or Univ Elective (3)+1 .....	4
<sup>5</sup> IA Electives: Complete 8 credits from the following:.....	8	University Electives .....	8
CIS 116, 124, 129, 130, 157, 158, 170, 212, 215, 229, 230, CNT 110,		Courses may transfer as equivalent courses, General	
120, 210, 220, CRJ 135, 136, SOC 131, world language courses		Education transfer credit, or general transfer credit.	
<b>EMU requirements that may be taken at HFCC or EMU</b>	<b>(4-8 credits)</b>		
*BBA 231 Business Office Communication .....	3	MGMT 202 Business Communication .....	3
Open Electives .....	1-5	University Electives .....	1-5
<b>Credits at HFCC:.....</b>	<b>85-88</b>	<b>Maximum Credits that transfer to EMU.....</b>	<b>85-88</b>

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

<sup>1</sup> MATH 141 or 180 should be completed at HFCC to satisfy EMU's quantitative reasoning requirement. If completed at EMU, MATH 110 will also be required, unless waived by ACT/SAT or math placement score. MATH 180 is required for EMU's Encryption Concentration only, for other concentrations take MATH 141.

<sup>2</sup> Satisfies EMU's Perspectives on a Diverse World requirement.

<sup>3</sup> Required for the EMU Management Concentration.

<sup>4</sup> Required for the EMU Applied Information Assurance Concentration only. For other concentrations you may substitute from the IA Electives listed.

<sup>5</sup> Students should consult an adviser before course selection.

Community College Relations

pat.cygnar@emich.edu

Copies of this guide are available on-line at: <http://www.emich.edu/ccr/artguide.htm>

May 15, 2008

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**EASTERN MICHIGAN UNIVERSITY  
ARTICULATION GUIDE**

September 2008

**Henry Ford Community College – Associate in Applied Science in Information Assurance  
Eastern Michigan University – Bachelor of Science in Information Assurance**

**Completion of the Information Assurance  
Program at EMU**

**Major Requirements (36-39 credits)**

**Foundation Courses: (6 credits)**

COSC 211 Programming Data Structures .....3  
STS 300W Research & Writing: Tech Perspective .....3

**Concentration Requirements: ( 30-33 credits)**

Complete one of the concentrations below.

**Applied Information Assurance: (33 credits)**

COSC 374 Applied Cryptography .....3  
IA 325 Cyber Crime Investigation I .....3  
IA 327 Computer Forensics I .....3  
IA 329 Policy Development in Info Security .....3  
IA 415 Intro to Research in Information Assurance .....3  
<sup>1</sup>IA 416 Applied Research Projects .....3  
IS 413 Information Tech Infrastructure & Security .....3  
LEGL 413 The Law and the Internet.....3  
NITA 344 Administration of Computer Systems .....3  
NITA 422 End-user Systems: Planning & Design.....3  
Complete one course: .....3  
    BMMT 496 Records Admin Using Databases (3)  
    IS 380 Introduction to Databases (3)

**OR**

**Information Assurance Management: (30 credits)**

IA 329 Policy Development in Info Sec.....3  
IS 350 Enterprise Resource Planning.....3  
IS 413 Information Tech Infrastructure & Security .....3  
LEGL 413 Cyber Space Law.....3  
MGMT 386 Organizational Behavior and Theory .....3  
MGMT 403 Managerial Communication: Theory & Appl.....3  
MGMT 480 Management Responsibility and Ethics .....3  
NITA 422 End User Systems: Planning and Design .....3  
<sup>1</sup>NITA 487 Co-operative Education.....3  
University Elective (See adviser to select course).....3

<sup>1</sup>Meets EMU's Learning beyond the Classroom requirement

**OR**

**Information Assurance Encryption: (30 credits)**

MATH 121 Calculus II .....4  
MATH 205 Math Structures for Computer Science .....4  
MATH 319 Mathematical Modeling .....4  
MATH 409 Cryptography .....3  
COSC 314 Computational Discrete Structures .....3  
LEGL 413 Cyber Space Law.....3  
IS 413 Information Tech Infrastructure & Security .....3  
IA 415 Introduction to Research in IA .....3  
<sup>1</sup>IA 416 Applied Research Projects .....3

**Credits at EMU:.....36-39**

**Minimum Credits to Graduate:..... 124**

**EASTERN MICHIGAN UNIVERSITY  
ARTICULATION GUIDE**

September 2008

**Henry Ford Community College – Associate in Applied Science in Information Assurance  
Eastern Michigan University – Bachelor of Science in Information Assurance**

**Additional Information:**

1. In completing the coordinated program of study, as indicated on the preceding guides, substitutions should be made with the guidance of the EMU and HFCC Program Advisors to assure that program and graduation requirements will be satisfied at each institution. Each institution will be responsible for determining if their requirements are satisfied.
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 this guide with a “1”, 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: [MATH 141 or MATH 180 at HFCC] or [MATH 110 at EMU]
  - c) a course in Perspectives on a Diverse World: [ANTH 131, 152; ART 224; ENG 243, 248; GEOG 132; HIST113, 225, 255, 257; POLS 153; SOC 152, 251; WR 131 at HFCC]
  - d) a Learning Beyond the Classroom (LBC) course or experience offered by EMU: [NITA 487 or IA 414 or other approved LBC course/experience at EMU]

*To use MACRAO, students should request a MACRAO evaluation of their transcript in the HFCC Registrar’s Office. Students who do not satisfy MACRAO will have to complete EMU’s general education requirements as listed in the EMU undergraduate catalog.*

3. Only courses with a grade of “C” or better (2.0 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 30 credit hours must be completed 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 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.
6. Students are encouraged to meet with the EMU Information Assurance adviser 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\\_new.htm](http://www.emich.edu/ccr/artguide_new.htm).

**Effective Dates: September 1, 2008 until August 31, 2011.**

If this agreement is not renewed at the end of the effective period, students will have an additional three years to be admitted to EMU under the terms of the agreement. Students who began the program prior to the effective date may use this agreement to the extent that courses completed are consistent with the agreement.

**Contacts:**

**Henry Ford Community College**

Greg Osowski  
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Email: [gosowski@hfcc.edu](mailto:gosowski@hfcc.edu)

Shannon Scanlon  
162 Technology Bldg  
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Email: [sscanlon@hfcc.edu](mailto:sscanlon@hfcc.edu)

**Eastern Michigan University**

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