

ARTICULATION AGREEMENT

between

Sinclair Community College

**AAS in CIS/MICROSOFT SECURITY
SPECIALIST (MSSC.AAS)**

and

Eastern Michigan University

College of Technology
School of Technology Studies

BS in Information Assurance

Pending Approval

September 2007

ARTICULATION AGREEMENT BETWEEN
Sinclair Community College
Associate in Applied Science Computer Information Systems (Microsoft Security)
and
Eastern Michigan University
Bachelor of Science in Information Assurance

Article I
Agreement on Principle

Eastern Michigan University (EMU) and Sinclair Community College (SCC) 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 Sinclair Community College agree to enter into this program articulation agreement for the AAS in Computer Information Systems (Microsoft Security) at SCC 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

Eastern Michigan University and Sinclair 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. SCC 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

Eastern Michigan University and Sinclair 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

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 College and University Relations at Sinclair 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, 2007 until September 1, 2010.**

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.

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Associate in Applied Science in Information Assurance
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The representatives of Sinclair Community College and Eastern Michigan University agree to the terms of this agreement, which will be for an initial period of three (3) years.

Signatures

Sinclair Community College

Eastern Michigan University

_____	_____	_____	_____
	Date	Donald M. Loppnow, Provost & Vice President for Academic Affairs	Date
_____	_____	_____	_____
	Date	Morrel Boone, Interim Dean College of Technology	Date
_____	_____	_____	_____
	Date	John Boyless, Director School of Technology Studies	Date

cc:

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

Sinclair Community College – AAS in Science in Computer Information Systems (Microsoft Security)
Eastern Michigan University – Bachelor of Science in Information Assurance

Sinclair Community College

Eastern Michigan University

MACRAO Requirements	(32 credits)	(32 credits)	
1. English Writing Requirement	(6 credits)	(6 credits)	
ENG 111 Composition 1	3	ENGL 120 Composition I (University Elective)	3
ENG 122 Composition 2	3	ENGL 121 Composition II	3
2. Math/Science Requirement	(8 credits)	(8 credits)	
MATH 122 Statistics 1	4	MATH 170 Elem Statistics or (3)+1	4
Complete one course:	4	One course:	4
Choose from lab courses with the following course prefixes: AST, BIO, CEM, GLG, PHY		Courses may transfer as equivalent courses General education credit, or general transfer credit	
3. Social Science Requirement	(9 credits)	Courses must be from two subject areas (9 credits)	
Complete three courses: <i>See note below</i>	9	Three courses:	9
Choose from courses approved by HFCC to satisfy The MACRAO social science requirement.		Courses may transfer as equivalent courses Gen Ed transfer credit, or general transfer credit	
4. Humanities Requirement	(9 credits)	Courses must be from two subject areas (9 credits)	
Complete three courses: <i>See note below</i>	9	Two courses:	9
Choose from humanities courses with the following course prefixes: ART, DNC, ENG (except ENG 131, 132, or 135), ARA, FRE, GER, SPN, HUM, ITAL, JOUR, MUS, PHIL, SMC, SPC, STH, SWC, TCM, and/or WR		Courses may transfer as equivalent courses General education credit, or general transfer credit	
¹ NOTE: In completing the Humanities and Social Science requirements, 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; HIST113, HIST 225, HIST 255, HIST 257; POLS 153; SOC 152, SOC 251; WR 131			
SCC Computer Information Systems (Microsoft Security) Core (58-64 credits)			
BIS 160 Introduction to Word, PowerPoint, and Excel.....	3	COSC 105 Everyday Computing and Social Resp.....	3
CIS 107 Introduction to Operating Systems.....	3	COSC 000 General Transfer Credit	3
CIS 272 Microsoft Windows Server Operating System	4	NITA 344 Admin of Computer Systems (3)+1	4
CIS 230 Computer Networks			
Or			
CIS 241 Cisco Networking Fundamentals	3	NITA 210 Concepts of Network & Business Tech.....	3
CIS 273 Managing a Windows Network Infrastructure System...4		NITA 212 Open Source Platform / Network Admin(3)+1 ..3	
CIS 265 Database Management Systems	4	IS 380 Introduction to Databases.....	4
CIS 111 Introduction to Problem Solving and Computer Programming and			
CIS 210 Computer Systems Analysis.....	6	NITA 422 End User Sys: Planning and Design(3)+3	6
CIS 257 Microsoft Internet Security and Acceleration (ISA) Server			
Or			
CIS 259 Designing Security for Windows Networks.....	4	IA 202 Risk and Vulnerability (3)+1	4
COM 225 Small Group Communication	3	MGMT 202 Business Communication.....	3
MAN 205 Principles of Management.....	3	MGMT 403 Managerial Communication: Theory & Appl ...3	
CIS 278 CIS Capstone	3	NITA 000 General Transfer Credit	4

CIS 271	Administering a Microsoft Windows Client OS.....	4	NITA 000	General Transfer Credit	4
CIS 274	Windows Directory Services Administration	4	NITA 000	General Transfer Credit	4
CIS 253	Securing a Windows Network Environment.....	4	NITA 000	General Transfer Credit	4
CIS 206	Network Security 1	3	IA 103	Information Assurance Overview	3
CIS 207	Network Security 2.....	3	NITA 000	General Transfer Credit	3
CIS 270	CIS Internship.....	up to 6	May apply up to 6 credits towards the Information Assurance Mgmt Concentration internship requirement		
Credits at SCC:		89	Maximum Credits that transfer to EMU... 89		

* Required for EMU's Information Assurance program.

[†] Meets one of EMU's three general education requirements in addition to MACRAO. MATH 141 should be completed at HFCC to satisfy EMU's Quantitative Reasoning Requirement. If completed at EMU, MATH 110 may be required.

Sinclair Community College – AAS in Science in Computer Information Systems (Microsoft Security)
Eastern Michigan University – Bachelor of Science in Information Assurance

Completion of the Information Assurance Program at EMU

Major Requirements (33-44 credits)

Foundation Courses: (9 credits)

COSC 111	Introduction to Programming	3
COSC 211	Programming Data Structures	3
STS 300W	Research & Writing: Tech Perspective.....	3

Concentration Requirements: (24-33 credits)

Information Assurance Mgmt Concentration: (24-30 credits)¹

ENGL 324	Principles of Technical Communication.....	3
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 480	Management Responsibility and Ethics	3
IS 425	Project Management	3

¹IA Mgt concentration only:
(May transfer all or partial from CIS 270)
One LBC course or noncredit experience must be completed. A co-op or internship in MGMT, IS, NITA, or STS is recommended.....6

OR

Applied Information Assurance Concentration: (30 credits)

COSC 374	Applied Cryptography	3
IA 327	Computer Forensics I.....	3
IA 329	Policy Development in Info Security.....	3
IA 325	Cyber Crime Investigation 1	3
IA 413	Intro to Research in Information Assurance.....	3
IA 414	Applied Research Projects.....	3
IS 413	Information Tech Infrastructure & Security.....	3
LEGL 413	The Law and the Internet	3
IA 325	Cyber Crime Investigation	3
NITA 412	Linux Security Admin	3

OR

Information Assurance Encryption Concentration: (33 credits)

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	Cryptography.....	3
COSC 314	Computational Discrete Structures.....	3
LEGL 413	Cyber Space Law	3
IS 413	Information Tech Infrastructure & Security.....	3
IA 413	Introduction to Research in IA.....	3
IA 414	Applied Research Projects.....	3

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Credits at EMU:.....36-51

Credits to Graduate:.....127-138

Sinclair Community College – Associate in Applied Science in Information Assurance
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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 115, 141, or 150 at HFCC] or [approved QR course at EMU]
 - c) a course in Perspectives on a Diverse World: [SOC 251 at HFCC] or [ANTH 214 at EMU]
 - d) a Learning Beyond the Classroom (LBC) course or experience offered by EMU: [PLSC 488 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 major/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.htm.

Effective Dates: September 1, 2007 until September 1, 2010.

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Contacts:**Sinclair Community College**

Name
Ph:
Email:

Eastern Michigan University

Name
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Email: