

ARTICULATION AGREEMENT

between

Delta Community College

**Associate of Applied Science in Information Security &
Technology**

and

Eastern Michigan University

College of Technology
School of Technology Studies

BS in Information Assurance

Pending Approval

September 2007

ARTICULATION AGREEMENT BETWEEN
Delta Community College
Associate of Applied Science in Information Security & Technology
and
Eastern Michigan University
Bachelor of Science in Information Assurance

Article I
Agreement on Principle

Eastern Michigan University (EMU) and Delta Community College (DCC) 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 Delta Community College agree to enter into this program articulation agreement for the AAS in Information Security & Technology at DCC 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 Delta 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. DCC 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 Delta 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 Delta 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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The representatives of Delta 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

Delta 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

Delta Community College – Associate in Applied Science in Computer Systems Security
Eastern Michigan University – Bachelor of Science in Information Assurance

Delta 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 160 Basic Statistics	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; HIST 113, HIST 225, HIST 255, HIST 257; POLS 153; SOC 152, SOC 251; WR 131			
DCC Information Security & Technology Core (57 credits)			
CJ 110 Introduction to Criminal Justice	3	CRM 000 General Transfer Credit	3
CJ 182 Introduction to Security	3	CRM 000 General Transfer Credit	3
CJ 210 Introduction to Criminal Investigation	3	CRM 000 General Transfer Credit	3
CJ 211 Private Security and Investigative Methods	3	CRM 000 General Transfer Credit	3
CJ 215 Introduction to Homeland Security	3	CRM 000 General Transfer Credit	3
CJ 220 Crime Laboratory Techniques	3	CRM 000 General Transfer Credit	3
CST 128 PC Hardware Concepts and Troubleshooting	4	IS 413 Information Tech Infra & Security(3)+1	4
CST 133 Computer Concepts & Competencies	4	COSC 105 Everyday Computing and Social Resp(3)+1 ...	4
CST 161 Networking Essentials	2	NITA 210 Concepts of Network & Business Tech.....	3
CST 260 TCP/IP Theories and Practice	2	NITA 000 General Transfer Credit	2
CST 266 Information Security	4	IA 103 Information Assurance Overview(3)+1	4
CST 267 Introduction to Computer Forensics.....	3	IA 327 Computer Forensics I.....	3
OAT 151 Business Communication 1	3	MGMT 202 Business Communication.....	3
OAT 152 Business Communication 2.....	3	MGMT 403 Managerial Communication: Theory & Appl...3	
PHL 210 Information Technology Ethics & Law.....	2	LEGL 413 The Law and the Internet.....	3
CST 120 PC Operating System Command Line (1) and CST 126 Unix/Linux Operating System (2).....	3	NITA 344 Admin of Computer Systems.....	3

DCC Information Security & Technology Electives (5-6 credits)			
<i>Select One from Below:</i>			
CST 165 Linux Networking I	3	NITA 000 General Transfer Credit	3
CST 163 Introduction to Windows Network Administration	2	NITA 000 General Transfer Credit	2
CST 162 Introduction to Novell Network Administration	2	NITA 000 General Transfer Credit	2
CST 159 Introduction to Oracle Database Management	2	BMMT 496 Records Admin Using Databases	3
CST 164 Introduction to Cisco Internetworking	2	NITA 000 General Transfer Credit	2
 <i>Select One from Below:</i>			
CST 265 Linux Networking II	3	NITA 212 Open Source Platform / Network Admin	3
CST 163 Introduction to Windows Network Administration	3	NITA 212 Open Source Platform / Network Admin	3
CST 162 Introduction to Novell Network Administration	3	NITA 212 Open Source Platform / Network Admin	3
CST 259 Advanced Oracle DB Management	3	IS 380 Introduction to Databases	3
CST 264 Advanced Cisco Internetworking	3	NITA 000 General Transfer Credit	3
Credits at DCC:.....		57-58 Maximum Credits that transfer EMU .62-63	

* 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.

Delta Community College – Associate in Applied Science in Information Security & Technology
Eastern Michigan University – Bachelor of Science in Information Assurance

<p><u>Completion of the Information Assurance Program at EMU</u></p> <p>Major Requirements (33-45 credits)</p> <p>Foundation Courses: (15-18 credits)</p> <p>COSC 111 Introduction to Programming 3 COSC 211 Programming Data Structures 3 NITA 212² Open Source Platform / Network Admin 3 MAT 170 Elementary Statistics 3 IA 202 Risk and Vulnerability Analysis 3 STS 300W Research & Writing: Tech Perspective 3</p> <p>Concentration Requirements: (18-27 credits)</p> <p>Information Assurance Mgmt Concentration: (27 credits)¹</p> <p>ENGL 324 Principles of Technical Communication 3 IA 329 Policy Development in Info Sec 3 IS 350 Enterprise Resource Planning 3 IS 425 Project Management 3 MGMT 386 Organizational Behavior and Theory 3 MGMT 480 Management Responsibility and Ethics 3 NITA 422 End User Systems: Planning and Design 3</p> <p>¹ IA Mgt concentration only: One LBC course or noncredit experience must be completed. A co-op or internship in MGMT, IS, NITA, or STS is recommended 6</p> <p>OR</p> <p>Applied Information Assurance Concentration: (18-21 credits)</p> <p>COSC 374 Applied Cryptography 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 NITA 422 End-user Systems: Planning & Design 3</p> <p>Complete one course²: 3 BMMT 496 Records Admin Using Databases (3) IS 380 Introduction to Databases (3)</p> <p>²May be taken at either DCC or EMU</p>	<p>OR</p> <p>Information Assurance Encryption Concentration: (27 credits)</p> <p>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 IA 413 Introduction to Research in IA 3 IA 414 Applied Research Projects 3</p> <p>????</p> <p>Credits at EMU: 36-51</p> <p>Credits to Graduate: 127-138</p>
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Delta Community College – Associate in Applied Science in Information Security & Technology
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 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.

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 courses completed are consistent with the agreement.

Contacts:**Delta Community College**

Name
Ph:
Email:

Eastern Michigan University

Name
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Email: