

# EASTERN MICHIGAN UNIVERSITY

## ARTICULATION GUIDE

September 2005

Macomb Community College – AAS in Information Technology (Programming Specialty)  
Eastern Michigan University – BBA in Computer Information Systems

**Purpose:** Bring a copy of this articulation agreement to all advising sessions.

This articulation agreement is designed to provide a smooth curriculum transition for students who complete the Information Technology – Programming Specialty Program at MCC and transfer to EMU to earn a Bachelor of Business Administration in Computer Information Systems. The agreement is designed to minimize loss of credits and duplication of coursework.

### Requirements:

1. Complete the Information Technology program at Macomb Community College and complete the coordinated program of study for the Bachelor of Business Administration in Computer Information Systems at Eastern Michigan University. Any course substitutions should be made with the guidance of an advisor or counselor to assure that all requirements are met.
2. Students whose transcripts are endorsed as “MACRAO Satisfied” will only be required to meet EMU’s additional four general education requirements, noted with a “1” on the articulation guide and listed below:
  - a) A course in advanced written composition, speech, or a foreign language [BCOM 2050 at MCC]
  - b) A course in mathematical reasoning [MATH 1360 at MCC]
  - c) A cross-cultural course [from the approved list at EMU]
  - d) A course in computer literacy [ITCS 1010 at MCC]

*To use MACRAO, students should request a MACRAO evaluation of their transcript from the MCC Registrar’s Office. Students who do not satisfy MACRAO will have to complete all of EMU’s general education requirements.*

3. Only courses with a grade of “C” or better (2.0 on a 4.0 scale) will be accepted for transfer to EMU. A Course completed with a grade of less than 2.0, which is counted toward graduation at the community college, may be used to satisfy the MACRAO general education requirements. However, the course will not transfer and will have to be repeated if it is a requirement of the business major.
4. Under this agreement, EMU will waive the 60-hour rule and require that a minimum of 42 credit hours must be taken at EMU, 21 hours of which must be in the major at EMU with 15 of those hours at the 300/400 level. A minimum of 124 credit hours is required for graduation.
5. A minimum cumulative GPA of 2.0 is required for admission to EMU. Students with a community college GPA of 3.0 or higher will be admitted directly to the College of Business without a probationary semester. Students whose community college GPA’s are less than 3.0 may apply and be conditionally admitted to the College of Business for the first semester at EMU and will be regularly admitted after successful completion of at least 12 credits at EMU with a minimum overall EMU (GPA) of 2.5.
6. Students should contact the College of Business Undergraduate Advising Office early, before completing an admission application to EMU. To facilitate the evaluation of transcript(s), students should enclose a copy of this articulation guide in their application to EMU and bring a copy of the articulation guide to all advising sessions.

**Effective Dates:** July 1, 2005 until July 1, 2008. If this agreement is not renewed, students who started this articulated program before the end of the effective period will be given three additional years, to be admitted to EMU under the terms of this agreement. Students should meet with an advisor each year to determine if any changes have been made to the program at either institution.

### Contacts:

**Macomb Community College**  
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Information Technology  
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**Eastern Michigan University**  
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## ARTICULATION GUIDE

September 2005

### Macomb Community College

#### AAS in Information Technology (Programming Specialty)

#### BBA in Computer Information Systems

#### Macomb Community College Courses:

#### Eastern Michigan University:

MACRAO Requirements	(33 Credits)	(33 Credits)
<b>1. English Writing Requirement (minimum of 6 credits)</b>		
Choose a two-course sequence: .....	6-8	Two Courses:..... 6-8
ENGL 1180 & 1190 Communication I & II (8)		ENGL 120 & 121 Composition I & II (6) +2
ENGL 1210 & 1220 Composition I & II (6)		ENGL 120 & 121 Composition I & II (6)
<b>2. Math/Science Requirement (8 credits)</b>		
<sup>1</sup> MATH 1360 Finite Math I.....	4	MATH 118 Linear Models and Probability (3) +1 .....
Choose one course: .....	4	One Course:.....
BIOL 1000, 1010; CHEM 1050, 1170; NATS 1200, 1210;		Courses will transfer as equivalent courses or
PHYS 1160, or any transfer course approved by MCC		Basic Studies transfer credit (BAS), or
for the MACRAO math/science requirement		general transfer credit (000) or (AACR)
<b>3. Humanities Requirement (9 credits)</b>		
Choose one course: .....	3	One Course:.....
PHIL 2100 Introduction to Ethics (3)		PHIL 220 Ethics (3)
PHIL 2200 Introduction to Logic (3)		PHIL 130 Introduction to Logic (3)
Choose two courses:.....	6	Two Courses:.....
ENGL 1730, 2600, 2610, 2610, 2710, 2720, 2730,		Courses will transfer as equivalent courses or
2800, 2810; FREN/GRMN/ITAL/ SPAN 2360, 2370;		Basic Studies transfer credit (BAS), or
HUMN 1210, 1700, 2000; THEA 1100, 1350;		general transfer credit (000) or (AACR)
ARTT 1060, 1360, 1610, 2610, 2620; MUSC 1030,		
2710, or 2720 or any transfer course approved by MCC		
for the MACRAO humanities requirement		
<b>4. Social Science Requirement (10 credits)</b>		
ECON 1160 Principles of Economics 1.....	3	ECON 201 Principles of Macroeconomics .....
ECON 1170 Principles of Economics 2.....	3	ECON 202 Principles of Microeconomics.....
POLS 1000 Introduction to American Politics .....	4	PLSC 112 American Government (3) +1.....
		4
<b>Program Requirements (44 credits)</b>		<b>(44 credits)</b>
ACCT 1080 Principles of Accounting 1 .....	4	ACC 240 Principles of Financial Accounting (3) +1 .....
<sup>1</sup> BCOM 2050 Business Communications .....	4	MGMT 202 Business Communication.....
BUSN 1010 Business Enterprise.....	3	COB 200 Introduction to Business .....
<sup>1</sup> ITCS 1010 Computer and Information Processing .....	4	IS 215 End-User Computing (3) +1 .....
ITCS 1130 Introduction to Programming Logic.....	4	BEDU 000 Transfer Credit .....
Choose a programming sequence: .....	7	Programming Requirement .....
ITCS 2790 and ITCS 2820 C# Programming 1&2 (7) or		IS 315 Object-Oriented Application Dev. (3) +4
ITCS 2530 and ITCS 2550 C++ Programming 1&2 (7)		IS 000 (substitutes for IS 315)
ITCS 1160 Intro to Oracle: SQL (2) and		
ITCS 1180 Database Design Concepts (2).....	4	IS 380 Introduction to Databases (3) +1 .....
*ITWP 1000 Introduction to Web Programming (3) and		
*ITWP 1100 Web Prog w JavaScript & Dyn HTML (3) and		
*ITWP 1200 Web Development with VBScript (3) and		
*ITWP 1300 WEB Database Prog w Classic ASP (3).....	12	IS 247 Intro to Web Application Development (3) +9.....
PHED 2000 Wellness-Focus Fitness .....	2	PEGN 210 Lifetime Wellness & Fitness .....
		2
<b>May be taken at MCC or EMU (8 credits)</b>		<b>(8 credits)</b>
ACCT 1090 Principles of Accounting 2 .....	4	ACC 241 Principles of Managerial Accounting (3) +1.....
BUSN 1080 Business Law 1 .....	4	LAW 293 Legal Environment of Business (3) +1 .....
		4
<b>Credits at MCC:..... 77- 85</b>		<b>Credits that transfer to EMU.....77- 85</b>

<sup>1</sup> Meets one of EMU's four general education requirements in addition to MACRAO. See page 1, #2 for more information.

\*Under this articulation agreement ITWP 1000, 1100, 1200, & 1300 may be completed in place of ITCS 2360, 2370 and 6-8 hours of IT elective courses at Macomb Community College. Students should see their program advisor to request a waiver of these requirements.

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**Macomb Community College**

**AAS in Information Technology (Programming Specialty)**

**BBA in Computer Information Systems**

<p><b><u>Completion of the BBA Degree at EMU</u></b></p> <p><b>Business Administration Core (18-24 credits)</b></p> <p>ACC 241 Princ of Man Acc (taken at MCC or EMU) .....0-3          DS 265 Business Statistics .....3          FIN 350 Principles of Finance .....3          LAW 293 Legal Environ of Bus( taken at MCC or EMU) 0-3          MKTG 360 Principles of Marketing .....3          MGMT 386 Organizational Behavior &amp; Theory .....3          POM 374 Intro to Production/Operations Mgmt .....3          MGMT 490 Business Policy .....3</p> <p><b>Discipline Requirements (21 credits)</b></p> <p>IS 320 Business Data Commun &amp; Comp Networks .....3          IS 413 Information Tech Infrastructure Security .....3          IS 417 Systems Analysis and Design .....3          IS 421 Enterprise Database Application .....3          IS 425 Information Systems Project Management .....3          IS 449 Information Systems Integration .....3          Choose one course: .....3              IS 350 Enterprise Resource Planning (3)              IS 410 Business Intelligence (3)              IS 416 System Software Administration (3)</p> <p><b>Additional Requirement (3 credits)</b></p> <p><sup>1</sup> A cross-cultural or international studies course: .....3</p> <p><b>Credits at EMU: .....42-48</b></p> <p><b><sup>3</sup> Credits to Graduate: .....125-127</b></p> <p>A minimum of 124credits is required to graduate at EMU</p>	<p>Suggested Sequence for completing the program:</p> <p><b>Fall Semester (12 Credits)</b></p> <p>ACC 241/ACCT 1090 (may be taken at MCC or EMU) ..... 3          DS 265 Business Statistics ..... 3          IS 320 Business Data Commun &amp; Comp Networks ..... 3          LAW 293/BUSN 1080 (may be taken at MCC or EMU) ..... 3</p> <p><b>Winter Semester (12 Credits)</b></p> <p>FIN 350 Principles of Finance ..... 3          MKTG 360 Principles of marketing ..... 3          IS 413 Information Tech Infrastructure Security ..... 3          IS 417 Systems Analysis and Design ..... 3</p> <p><b>Fall Semester (12 Credits)</b></p> <p>MGMT 386 Organizational Behavior &amp; Theory ..... 3          POM 374 Intro to Production/Operations Mgmt ..... 3          IS 421 Enterprise Database Application ..... 3          IS 425 Information Systems Project Management ..... 3</p> <p><b>Winter Semester (12 Credits)</b></p> <p>IS 449 Information Systems Integration ..... 3          MGMT 490 Business Policy ..... 3          Restricted IS Elective ..... 3          Cross-cultural/international studies requirement ..... 3</p>
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<sup>1</sup> Meets one of EMU's four general education requirements in addition to MACRAO. See page1, #2 for more information.  
<sup>3</sup> The total credits will vary depending on whether ACC 241 and LAW 293 are completed at EMU or MCC.