

**EASTERN MICHIGAN UNIVERSITY
ARTICULATION GUIDE**

November 2008

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

Macomb Community College Courses: Eastern Michigan University:

MACRAO Requirements	(31-34 credits)	(31-34 credits)
1. English Writing Requirement	(6-8 credits)	(6-8 credits)
Complete 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)
2. Math/Science Requirement	(8 credits)	(8 credits)
*1 Complete one course: (Complete at Macomb CC).....4		One course 4
MATH 1340 Statistics (4)		MATH 170 Elementary Statistics (3)+1
MATH 1410 College Algebra (4)		MATH 105 College Algebra (3)+1
Complete one lab science course from the disciplines below:4		One course: 4
Biology, Chemistry, Environmental Science, Geology, Natural Science, Physical Science, or Physics		Courses may transfer as equivalent courses, General Education credit, or general transfer credit
3. Humanities Requirement (see note below)	(8-9 credits)	(8-9 credits)
<i>(Choose from two disciplines below except when foreign language is chosen.)</i>		
Complete at least 8 credits from the following:.....8-9		Two or three courses 8-9
Art, Creative Writing, Foreign Language, Humanities, Literature, Music, Philosophy (PHIL 2100 or 2200 is recom)		Courses may transfer as equivalent courses, General Education credit, or general transfer credit.
4. Social Science Requirement (see note below)	(9 credits)	(9 credits)
* ECON 1160 Principles of Economics 13		ECON 201 Principles of Macroeconomics 3
* ECON 1170 Principles of Economics 23		ECON 202 Principles of Microeconomics 3
Complete one course from the following disciplines:3		One course 3
Anthropology, Economics, Geography, History, Political Science, Psychology, Sociology, or Social Science		Courses will transfer as equivalent courses or General Education transfer credit or general transfer credit
NOTE: In completing the Humanities or Social Science Requirement above, choose one course from the following to satisfy EMU's Perspectives on a Diverse World requirement: ENGL 2800, 2810; HUMN 1270; ANTH 1000; GEOG 2000; HIST 1260, 1270, 1700, 2420, 2520 INTL 2000, 2010, 2300, 2500, 2700; POLS 1600; SOSC 2010		
Macomb CC Program Requirements (50 credits)		(50 credits)
* BCOM 2050 Business Communications4		MGMT 202 Business Communication..... 4
* BUSN 1010 Business Enterprise3		COB 200 Introduction to Business 3
* ITCS 1010 Computer and Information Processing4		IS 215 End-User Computing (3) +1 4
ITCS 1130 Intro to Program Design & Development3		COSC 000 Transfer Credit 3
* ITCS 1160 Intro to Oracle: SQL (2) and		
* ITCS 1180 Database Design Concepts (2).....4		IS 380 Introduction to Databases (3) +1 4
ITCS 2165 PL/SQL Programming3		IS 000 General Transfer Credit..... 3
ITCS 2360 Systems Development Methodology4		IS 000 General Transfer Credit..... 4
ITCS 2370 Computer Systems Design4		IS 000 General Transfer Credit..... 4
* Complete two programming courses:.....7		Two courses 7
ITCS 2790 C# Prog 1 (4) and ITCS 2820 C# Prog 2 (3) OR		IS 315 Object-Oriented Application Dev. (3)+4
ITCS 2530 C++ Prog 1 (4) and ITCS 2550 C++ Prog 2 (3)		IS 000 (Substitutes for IS 315) (3)+4
* ITWP 1000 Introduction to Web Programming (3) and		
*2 ITWP 1100 Web Prog w JavaScript & Dyn HTML (3) and		
*2 ITWP 1200 Web Development with VBScript (3) and		
*2 ITWP 2300 Building Dyn, Web Based Sol w/ASP.Net(3).....12		IS 247 Intro to Web Application Development (3)+ 9 12
Any PHED Wellness course 2000 or above2		University Elective 2
EMU Requirements that may be taken at MCC or EMU		(8 credits)
* ACCT 1080 Principles of Accounting 14		ACC 240 Principles of Financial Accounting (3) +1 4
* BUSN 1080 Business Law 14		LAW 293 Legal Environment of Business (3) +1 4
Credits at Macomb CC:..... 89-92		Credits that transfer to EMU 89-92

* Required for EMU's BBA program.

¹ MATH course must be completed at MCC to satisfy EMU's QR requirement. If completed at EMU MATH 110 is required unless waived by ACT/SAT or

² Under this agreement Macomb students may complete ITWP 1100, 1200, & 2300 in place of ITCS 2360 and 2370. Students should see their MCC program advisor to request a substitution of these requirements.

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Completion of the BBA Degree at EMU

Business Administration Core (21 credits)

ACC 241	Principles of Managerial Accounting	3
DS 265	Business Statistics	3
FIN 350	Principles of Finance	3
MKTG 360	Principles of Marketing	3
MGMT 386	Organizational Behavior & Theory	3
MGMT 490	Business Policy	3
OM 374	Intro to Production/Operations Mgmt	3

Discipline Requirements (21 credits)

IS 320	Business Data Commun & 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)	

Additional Requirement (0-3 credits)

Students must complete one Learning Beyond the Classroom experience or course offered by EMU. Consult College of Business advisor for options.

Credits at EMU:..... 42-45

***Credits to Graduate:.....131-137**

NOTE: Students should consult with the COB advisor about completing a writing intensive course in this major.

Suggested Sequence for completing the program:

IS 215 (ITCS 1010 at Macomb CC) must be completed before taking DS 265.

Fall Semester (12 Credits)

ACC 240	Principles of Financial Accounting	3
DS 265	Business Statistics	3
IS 320	Business Data Commun & Comp Networks	3
LAW 293	Legal Environment of Business	3

Winter Semester (15 Credits)

ACC 241	Principles of Managerial Accounting	3
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

Fall Semester (12 Credits)

MGMT 386	Organizational Behavior & Theory	3
OM 374	Intro to Production/Operations Mgmt	3
IS 421	Enterprise Database Application	3
IS 425	Information Systems Project Management	3

Winter Semester (9 Credits)

IS 449	Information Systems Integration	3
MGMT 490	Business Policy	3
Restricted IS Elective		3

**The minimum total credits required to graduate is 124.*

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Additional information:

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 three general education requirements, noted with a “1” on the articulation 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: [MATH 1340 or MATH 1410 at MCC]
 - b) An approved course in US Diversity or Global Awareness: [ENGL 2800, 2810; HUMN 1270; ANTH 1000; GEOG 2000; HIST 1260, 1270, 1700, 2420, 2520 INTL 2000, 2010, 2300, 2500, 2700; POLS 1600; SOSC 2010 at MCC]
 - c) One Learning beyond the Classroom course or experience offered by EMU. [Contact the COB advisor for options to satisfy this requirement.]

To use MACRAO, students should request a MACRAO evaluation of their transcript from the community college Registrar’s Office. Students who do not satisfy MACRAO will have to satisfy EMU’s general education requirements as listed in the 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 hours must be in courses offered by EMU, with 15 hours in program requirements, at the 300-level or above. Of the last 30 hours completed before graduating, at least 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. A minimum cumulative GPA of 2.0 is required for admission to EMU. Students who have a cumulative GPA of 3.0 or higher at MCC and have completed at least 56 credits will be given priority admission to the COB. Students with a community college GPA of 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: November 1, 2008 until October 31, 2011. This agreement replaces the agreement of July 1, 2005 and all subsequent updates. Students who began this program prior to fall 2008 may continue to follow the guide that was in place at the time they started or may use this guide. 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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Eastern Michigan University

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