

ALERT!

Students who begin college in September 2014 must follow the Michigan Transfer Agreement (MTA) requirements rather than the MACRAO requirements listed here. New MTA articulation guides will be posted to the EMU Community College Relations website soon. In the meantime, please see a community college counselor for more information about the MTA or look for more information at <http://www.macrao.org/mcm.asp?floor=4>

January 2012

Macomb Community College – AAS in Information Technology (Programming Specialty)

Eastern Michigan University – BBA in Computer Information Systems

Macomb Community College:

Eastern Michigan University:

MACRAO Requirements	(31-33 credits)	(31-33 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 & 2 (8)	ENGL 120 & 121 Composition I & II (6) +2	
ENGL 1210 & 1220 Composition I & 2 (6)	ENGL 120 & 121 Composition I & II (6)	
2. Math/Science Requirement	(8 credits)	(8 credits)
¹ Complete one math course: (Complete at Macomb CC).....4	One course.....4	
MATH 1340,1360, 1370, 1410, 1460, or 1760	If taken at MCC, satisfies EMU's QR math requirement	
Choose one lab science course from below:.....4	One course.....4	
ASTR 1030&1040; BIOL 1000; CHEM 1050, 1060, 1170; GEOL 1140; NATS 1200, 1210 1310; PHSA 1050; PHYS 1180, 2220	Courses will transfer as equivalent courses or general education credit or general transfer credit.....	
3. Humanities Requirement (see note below)	(8 credits)	(8 credits)
Choose from the disciplines below (must choose from two disciplines except if foreign language is chosen).....8	Two or three courses:.....8	
ARTT, creative writing, foreign language, HUMN, literature, MUSC, PHIL, theater arts (see note below)	Courses may transfer as equivalent courses, general education credit, or general transfer credit.	
(See MCC counselor for approved MACRAO courses)		
4. Social Science Requirement	(9 credits)	(9 credits)
*ECON 1160 Principles of Economics 1.....3	ECON 201 Principles of Macroeconomics.....3	
*ECON 1170 Principles of Economics 2.....3	ECON 202 Principles of Microeconomics.....3	
Complete one course: (see note below).....3	One course.....3	
Choose from the following disciplines: Anthropology, Geography, History, Political Science, Psychology, Sociology, or Social Science	Courses will transfer as equivalent courses, General Education transfer credit or general transfer credit	
² NOTE: In completing the MACRAO requirements choose one course from the following to satisfy EMU's Perspectives on a Diverse World requirement: Humanities: ENGL 2800, 2810; HUMN 1700, 2000; INTL 2000, 2300, 2700; Social Sciences: ANTH 1000; GEOG 2000; HIST 1700, 2420, 2650; POLS 1600; SOSOC 2010; SPCH 2300; Lab Science: NATS 1310		
MCC Program Requirements	(47 credits)	(47 credits)
* ACCT 1080 Principles of Accounting 1.....4	ACC 240 Principles of Financial Accounting (3) +1.....4	
* BCOM 2050 Business Communications.....4	MGMT 202 Business Communication (3)+1.....4	
BCOM 2070 Tech Business Comm & Project Mgmt Principles3	University Elective.....3	
* BUSN 1010 Business Enterprise.....3	COB 200 Introduction to Business.....3	
* ITCS 1010 Computer & Information Processing Principles ..4	IS 215 End-User Computing (3) +1.....4	
* ITCS 1130 Intro to Program Design & Development (3) and		
* ITCS 1170 Data Design & Implement with SQL & XML(4) ...7	IS 380 Introduction to Databases.....7	
* ITCS 2530 C++ Programming 1 (4) and		
* ITCS 2550 C++ Programming 2 (3).....7	Substitutes for IS 315 (3)+4.....7	
ITCS 2830 Applications Implementation & Testing.....4	University Elective.....4	
* ITWP 1000 Introduction to Web Programming (3) and		
* ³ ITWP 1100 Web Prog with JavaScript & Dyn HTML (3) and		
* ITWP 2300 Bldg Dynamic, Web Based Sol w/ ASP.NET(3)..9	IS 247 Intro to Web Application Development (3)+6.....9	
Any PHED Wellness course 2000 or above.....2	University Elective.....2	
EMU Requirement (may be completed at MCC or EMU)		(4 credits)
* BLAW 1080 Business Law 1.....4	LAW 293 Legal Environment of Business (3) +1.....4	
Maximum Credits at MCC:.....82-84	Credits that transfer to EMU:.....82-84	

* This course is required for EMU's BBA in Computer Information Systems degree program.

¹ MATH course must be completed at MCC to satisfy EMU's QR requirement. If completed at EMU MATH 110 is required unless MATH 104 has been completed with a C or better, in which case students may choose any course that satisfies the Quantitative Reasoning requirement.

² Satisfies EMU's Perspectives on a Diverse World requirement.

³ ITWP 1100 is not required for Macomb's program but is required along with ITSP 1000 and 2300 to receive credit for IS 247 at EMU. Students should see their MCC program advisor to request a substitution of ITWP 1100 in place of ITCS 1230 or 2590.

**EASTERN MICHIGAN UNIVERSITY
ARTICULATION GUIDE**

January 2012

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

Completion of the BBA Degree with an approved major at EMU

Business Core (21 credits)

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

Discipline Requirements (21 credits)

IS 320	Business Data Comm & 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 449W	Information Systems Integration	3
Choose one course:		3
IS 339	Google Analytics & Landing pg Optimization (3)	
IS 350	Enterprise Resource Planning (3)	
IS 410	Business Intelligence (3)	
IS 416	System Software Administration (3)	
IS 427	Business Process and Identity Mgmt (3)	
IS 437	Intro to Bus Information Technology Audit (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: 124-127**

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

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

Suggested Sequence for completing the program:

(Courses may not be offered every semester. Consult with a COB advisor to make a course plan)

Semester 1 (12 Credits)

ACC 241	Principles of Managerial Accounting	3
DS 265	Business Statistics	3
IS 320	Business Data Comm & Comp Networks	3
MKTG 360	Principles of Marketing	3

Semester 2 (12 Credits)

FIN 350	Principles of Finance	3
IS 413	Information Tech Infrastructure Security	3
IS 417	Systems Analysis and Design	3
Restricted IS Elective		3

Semester 3 (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

Semester 4 (9 Credits)

IS 449W	Information Systems Integration	3
MGMT 490	Business Policy	3

EASTERN MICHIGAN UNIVERSITY ARTICULATION GUIDE

January 2012

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

Additional Information:

1. In completing the coordinated program of study for this articulation agreement, course substitutions should be made with the guidance of the advisors (indicated below) at both institutions to assure that all requirements are satisfied. Each institution will determine the satisfaction of their individual program and degree requirements. MCC courses with an *are required for EMU's BBA Program and Computer Information Systems Major.
2. Students whose transcripts are endorsed as "MACRAO Satisfied" will only be required to satisfy EMU's three general education requirements, noted on the articulation guide and listed below. These requirements may be completed at the most appropriate time for the student, whether before or after enrollment at EMU:
 - a) an approved course in Quantitative Reasoning: [at MCC: MATH 1340, 1360, 1370, 1410, 1460, or 1760] or [at EMU: MATH 110; or if Intermediate Algebra is completed with a 2.0 or better, COSC106; MATH 105, 118, 119, 120, 140, 170; PHIL 181; PLSC 210; SOCL 250 or STS 224 can be chosen]
 - b) an approved course in Global Awareness or US Diversity: [at MCC: **Humanities:** ENGL 2800, 2810; HUMN 1700, 2000; INTL 2000, 2300, 2700; **Social Sciences:** ANTH 1000; GEOG 2000; HIST 1700, 2420, 2650; POLS 1600; SOSOC 2010; SPCH 2300; **Lab Science:** NATS 1310] or [at EMU: see the website: <http://catalog.emich.edu/>]
 - c) an approved Learning beyond the Classroom course or experience offered by EMU. See COB advisor for options.
To use MACRAO, students must request that an official community college transcript, with the "MACRAO Satisfied" stamp, be sent to EMU's Admissions Office. Students who do not have "MACRAO Satisfied" on their community college transcript, will be required to satisfy EMU's general education requirements as listed in the Undergraduate Catalog. The MACRAO stamp may be completed after admission to EMU, however, students should inform advisors at EMU that they intend to complete MACRAO or they may be advised to complete additional courses for the general education program.
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 42 semester hours must be completed at the four-year college level, with at least 30 hours in courses offered by EMU, of which 15 hours are 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. Courses listed in this guide may be completed at the most opportune time for students, whether before or after admission to EMU, as long as appropriate pre-requisites are satisfied
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 receive priority admission to the College of Business. Students whose community college GPA's are less than 3.0 may apply and be conditionally admitted to the College of Business 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 are encouraged to 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 indicate use of this articulation guide in their application to EMU and bring a copy of the articulation guide to all advising sessions.

Effective Dates: January 1, 2012 until December 31, 2014.

This is a renewal of an agreement made in September 2005 and renewed in November 2008. Students who began this program prior to the new effective date have the option of changing to this guide. If this agreement is not renewed at the end of the effective period, students who already started the program will be given an additional three years to be admitted to EMU under the terms of this agreement.

Contacts:

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Eastern Michigan University

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