

ARTICULATION GUIDE

Monroe County Community College – AAS in Internet Professional-Web Development  
 Eastern Michigan University – BBA in Computer Information Systems

**Monroe County Community College**

**Eastern Michigan University**

<b>MACRAO Requirements (32 Credits)</b>		<b>(32 Credits)</b>	
1. English Writing Requirement (6 credits)			
ENGL 151 English Composition I.....	3	ENGL 120 Composition I (University Elective).....	3
ENGL 152 English Composition II.....	3	ENGL 121 Composition II.....	3
2. Math/Science Requirement (8 credits)		(8 credits)	
MATH 151 Intermediate Algebra.....	4	MATH 104 Intermediate Algebra (University Elective).....	4
Complete one lab science course:.....	4	One course:.....	4
Choose a course from the list approved by MCCC to satisfy the MACRAO lab science requirement.		Courses transfer as equivalent courses or general education transfer credit or general transfer credit.	
3. Humanities Requirement (9 credits)		(courses must be from at least two disciplines) (9 credits)	
<sup>1</sup> ENGL 255 Women's Writing or ENGL 240 Afri Amer Lit.....	3	LITR GEUS US Diversity Requirement.....	3
Complete two courses:.....	6	Two courses:.....	6
Choose courses from the list approved by MCCC to satisfy the MACRAO humanities requirement. PHIL 151 is strongly recommended for EMU's program.		Courses transfer as equivalent courses or general education transfer credit or general transfer credit.	
4. Social Science Requirement (9 credits)		(9 credits)	
*ECON 251 Principles of Economics I.....	3	ECON 201 Principles of Macroeconomics.....	3
*ECON 252 Principles of Economics II.....	3	ECON 202 Principles of Microeconomics.....	3
POLSC 151 Introduction to Political Science.....	3	PLSC 112 American Government.....	3
<b>MCCC Program Requirements (37 credits)</b>		<b>(37 credits)</b>	
Required Core or Gen Ed courses: (7 credits)		(7 credits)	
ADMN 102 Keyboarding.....	1	BEDU 119 Keyboarding for Computers (univ elective).....	1
*CIS 130 Introduction to CIS.....	3	IS 215 End-User Computing.....	3
<sup>2</sup> CIS 177 Markup Languages.....	3	with CIS 150, 152, or 175 is equivalent to IS 247.....	3
Web Development Concentration: (30 credits)		(30 credits)	
CIS 112 Database Software.....	3	BEDU 000 University Elective.....	3
CIS 132 Introduction to Computer Programming.....	2	COSC 000 University Elective.....	2
<sup>2</sup> CIS 152 Visual Basic Programming.....	3	with CIS 177 is equivalent to IS 247 Web Application Devmt.....	3
CIS 179 Web Script Programming.....	3	AACR GEN University Elective.....	3
CIS 272 Database Web Development.....	3	IS 000 University Elective.....	3
CIS 274 Adv Database Web Dev with ASP.NET.....	3	IS 000 University Elective.....	3
CIS 155 Database Mgmt Systems (CIS Elective).....	3	IS 000 University Elective.....	3
<sup>1</sup> CIS 255 Microsoft SQL (CIS Elective).....	4	IS 380 Introduction to Databases.....	4
<sup>2</sup> Complete one CIS Elective:.....	3	One course.....	3
CIS 150 Computer Science I (3)		with CIS 177 is equivalent to IS 247 (3)	
CIS 175 Java Programming (3)		with CIS 177 is equivalent to IS 247 (3)	
* Complete one CIS Elective:.....	3-4	One course.....	3-4
CIS 250 Computer Science II		IS 315 Object-Oriented Application Development	
CIS 252 Adv. Visual Basic Programming		IS 315 Object-Oriented Application Development	
CIS 275 Adv. Java Programming		IS 315 Object-Oriented Application Development	
<b>EMU Requirements That May be Taken at MCCC or EMU</b>		<b>(18 credits)</b>	
*ACCTG 151 Accounting Principles.....	4	ACC 240 Principles of Financial Accounting (3) +1.....	4
*ACCTG 152 Accounting Principles.....	4	ACC 241 Principles of Managerial Accounting (3) +1.....	4
*BUSAD 151 Introduction to Business.....	4	COB 200 Introduction to Business (3) + 1.....	4
*ENGL 102 Business Writing.....	3	MGMT 202 Business Communication.....	3
<sup>1</sup> MATH 162 Introduction to Statistics (Complete at MCCC).....	3	MATH 170 Elementary Statistics.....	3
<b>Maximum Credits at MCCC:.....87</b>		<b>Credits that transfer to EMU..... 87</b>	

<sup>1</sup> Meets one of EMU's three general education requirements in addition to MACRAO. MATH 162 will also satisfy the requirement for DS 265, which will be waived. MATH 162 must be completed at MCCC to satisfy the quantitative reasoning requirement.

<sup>2</sup> CIS 177 plus any one of the following courses (CIS 150, CIS 152 or CIS 175) is equivalent to IS 247.

\* EMU program/major requirement, must be completed before formal admission to the College of Business.

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<p><b><u>Completion of the BBA Degree at EMU</u></b></p> <p><b>Additional Requirements (6 credits)</b></p> <p>*MATH 118 Linear Models and Probability or MATH 122..... 3 *LAW 293 Legal Environment of Business..... 3</p> <p><b>Business Core Courses (15 credits)</b></p> <p>FIN 350 Principles of Finance ..... 3 MGMT 386 Organizational Behavior &amp; Theory..... 3 MGMT 490 Business Policy ..... 3 MKTG 360 Principles of Marketing ..... 3 POM 374 Intro to Production/Operations Mgmt..... 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 &amp; 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</b></p> <p><sup>1</sup> Students must complete one Learning Beyond the Classroom experience or course at EMU. See the COB Advisor for options.</p> <p><b>Minimum Credits at EMU:.....42</b> <b>Credits to Graduate: ..... 129</b></p> <p>Minimum of 124 credits are required to graduate at EMU</p>	<p>Suggested Sequence for completing the program:</p> <p><b>semester one (Take before adm to COB) (6 Credits)</b></p> <p>*MATH 118 Linear Models and Probability .....3 *LAW 293 Legal Environment of Business .....3</p> <p><b>semester two (12 Credits)</b></p> <p>FIN 350 Principles of Finance .....3 MKTG 360 Principles of marketing .....3 IS 320 Business Data Commun &amp; Comp Networks .....3 IS Elective IS 350, 410, or 416 .....3</p> <p><b>semester three (15 Credits)</b></p> <p>MGMT 386 Organizational Behavior &amp; Theory.....3 POM 374 Intro to Production/Operations Mgmt.....3 IS 413 Information Tech Infrastructure &amp; Security .....3 IS 417 Systems Analysis and Design .....3 IS 421 Enterprise Database Application .....3</p> <p><b>semester four (9 Credits)</b></p> <p>MGMT 490 Business Policy .....3 IS 425 Information Systems Project Management.....3 IS 449 Information Systems Integration.....3</p>
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\*These courses must be successfully completed before student can be admitted formally to the College of Business.

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**Additional Information:**

1. Course substitutions should be made with the guidance of an advisor or counselor to assure that requirements are met at each institution.
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 may be completed at the most convenient time for the student, whether before or after admission to EMU.
  - a) A course in mathematical reasoning [MATH 162 at MCCC]
  - b) A US diversity or global awareness course [ENGL 240 or 255 at MCCC]
  - c) A learning beyond the classroom experience or course completed at EMU: [See COB Adviser]

*To use MACRAO, students should request a MACRAO evaluation of their transcript from the MCCC 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 completed at the four-year college level, of which 30 hours must be at EMU, with 15 hours in the program/major. 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 receive priority admission 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 transcripts, students should enclose a copy of this articulation guide in their application to EMU and bring a copy to all advising sessions.

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

If this agreement is not renewed at the end of the effective period students who have already begun the program will have an additional three years to be admitted to EMU under the terms of the agreement. WCC students who began the program prior to the effective date may use this agreement.

**Contacts:**

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