

EASTERN MICHIGAN UNIVERSITY ARTICULATION GUIDE

September 2007

Monroe County Community College – AAS in Construction Management Technology
Eastern Michigan University – Bachelor of Science in Construction Management
Monroe County Community College **Eastern Michigan University**

MACRAO Requirements	(32-34 credits)	(32-34 credits)	
1. English Writing Requirement	(6 credits)	(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: Researching Pub Exp.....	3
2. Math/Science Requirement	(8-10 credits)	(8-10 credits)	
* Complete one math option:.....	4-6	One option:.....	4-6
^{1,2} MATH 157 College Algebra (3) (complete at MCCC) and		MATH 105 College Algebra (3) (CM Elective)	
² MATH 159 Trigonometry & Analytical Geometry (3)		MATH 107 Plane Trigonometry (2) (CM Elective)	
OR		MATH 105 & MATH 107 (5) (CM Elective)	
^{1,2} MATH 164 Precalculus (4) (complete at MCCC)		PHY 221 Mechanics, Sound and Heat.....	4
* PHY 151 General Physics I.....	4		(9 credits)
3. Humanities Requirement See note below	(9 credits)	(9 credits)	
Complete three courses from at least two disciplines:.....	9	Three courses:.....	9
Choose from courses approved by MCCC to satisfy the		Courses may transfer as equivalent courses, General	
MACRAO humanities requirement.		Education transfer credit, or general transfer credit.	
4. Social Science Requirement	(9 credits)	(9 credits)	
**ECON 251 Principles of Macroeconomics.....	3	ECON 201 Principles of Macroeconomics (Business Elec).....	3
**ECON 252 Principles of Microeconomics.....	3	ECON 202 Principles of Microeconomics (Business Elec).....	3
POLS 151 Introduction to Political Science.....	3	PLSC 112 American Government.....	3
¹NOTE: In completing the Humanities requirement above, choose one course from the following to satisfy EMU's Global Awareness/US Diversity requirement: ENGL 240 or ENG 255.			
MCCC Program Requirements	(46 credits)	(46 credits)	
Required Core Courses	(33 credits)	(33 credits)	
* CONM 100 Intro to Design & Construction.....	3	CNST 125 Introduction to Construction (2)+1.....	3
* CONM 101 Materials of Construction.....	3	CNST 201 Construction Systems.....	3
² CONM 102 Construction Practices.....	3	CNST 000 (Restricted CNST Elective).....	3
* CONM 103 Residence Drafting.....	4	CNST 000 (subs for CNST 228).....	4
* CONM 105 Mechanical Building Systems & Equipment.....	4	CNST 000 (subs for CNST 303).....	4
* CONM 107 Surveying.....	3	CNST 206 Surveying.....	3
* CONM 110 Construction Blueprint Reading.....	3	CNST 229 Analysis of Commercial Prints.....	3
² CONM 120 Introduction to AutoCAD for Architecture.....	3	CNST GEN (Restricted CNST Elective).....	3
* CONM 202 Construction Safety.....	3	CNST 213 Construction Safety.....	3
* METC 220 Statics & Strength of Materials (was METC 208) ...	4	MET 211 Statics (sub for CNST 412).....	4
Additional Requirements	(13 credits)	(13 credits)	
**ACCTG 151 Accounting Principles (sub for ACCTG 110).....	4	ACC 240 Princ of Accounting I (3)+1 (Business Elective).....	4
**BMGT 201 Principles of Management.....	3	MGMT 000 (Business Elective).....	3
**CIS 130 Intro to Computer Information Systems.....	3	IS 000 (Business Elective).....	3
ELEC 125 Fundamental of Electricity.....	3	ELEC 200 Circuit Analysis I (University Elective).....	3
EMU Requirements That May be Taken at MCCC or EMU	(14 credits)	(14 credits)	
** BSLW 251 Business Law.....	3	LAW 293 Legal Environment of Bus (Business Elective).....	3
* ESC 151 Earth Science.....	4	ESSC 108/109 Earth Sci Non Maj/Lab (sub for ESSC 110).....	4
¹ MATH 162 Introduction to Statistics.....	3	MATH 170 Elementary Statistics.....	3
* Complete one course:.....	4	One course.....	4
MATH 171 Calculus I (4) or		One course: MATH 120 Calculus I (3)+1 or	
CHEM 150 Fund Principles of Chemistry (4)		CHEM 117&118 Fund of Chemistry (4)	
Maximum Credits at MCCC:	92-94	Credits that transfer to EMU	92-94

* Required course or prerequisite in EMU's Construction Management program.

**Restricted Business Electives. May be applied to the required 18 credit hours of Business Electives

¹ Meets one of EMU's three General Education requirements in addition to MACRAO. MATH 157, 164, or 162 must be completed at MCCC to satisfy EMU's Quantitative Reasoning Requirement. If completed at EMU, MATH 110 will also be required unless waived by ACT/SAT or math placement score.

² Restricted Construction Management Elective. May be applied to the required 15 credit hours of Construction Mgmt Electives

NOTE: Substitutions will be accepted at EMU for courses on this page that transfer as university electives or general transfer credit.

**EASTERN MICHIGAN UNIVERSITY
ARTICULATION GUIDE**

September 2007

**Monroe County Community College – AAS in Construction Management Technology
Eastern Michigan University – Bachelor of Science in Construction Management**

Completion of EMU's Construction Management Program

Major Requirements (32 credits)

Required Courses (23 credits)

CNST 202 Construction Materials.....	3
CNST 302 Contract Documents, Regulations & Specs	3
CNST 304 Construction Estimating & Bidding	3
CNST 361 Planning & Scheduling	3
¹ CNST 387 Cooperative Education (LBC Requirement)	3
CNST 403 Production Control.....	2
*CNST 406 Construction Law.....	2
*CNST 446 Senior Seminar.....	1
CNST 450 Fundamentals of Construction Project Mgmt	3

Construction Management Restricted Electives (9 credits)

Students should complete CNST 436 and two additional courses.

CNST 436 Heavy/Highway Construction Contracting	3
Complete two courses from below	6
CNST 279 Civil Autocad (3)	
CNST 426 Mechanical & Elect Const Applications (3)	
CNST 479 Environmental Construction Contracting (3)	
CNST 479 Construction Business Ownership (3)	
CNST 479 Residential Land Development (3)	
Other courses by approval of Program Coordinator	

Credits at EMU: 32

Minimum Credits to Graduate:..... 124-126

Note: Students should consult their program adviser about options for completing the writing intensive requirement in this program.

Suggested Sequence for completing the program:

May take in any semester (6 credits)
CNST Restricted Electives

Fall Semester (9 credits)
CNST 202 Construction Materials..... 3
CNST 302 Contract Documents, Regulations & Specs

Winter Semester (8 credits)
CNST 304 Construction Estimating & Bidding

Fall Semester (9 credits)
CNST 403 Production Control..... 2
CNST 436 Heavy/Highway Construction Contracting

¹ Meets EMU's Learning beyond the Classroom requirement.

*CNST 406 is changing to 3 credits in winter 08. Students who take the 3 credit course are not required to take CNST 446.

**EASTERN MICHIGAN UNIVERSITY
ARTICULATION GUIDE**

September 2007

**Monroe County Community College – AAS in Construction Management Technology
Eastern Michigan University – Bachelor of Science in Construction Management**

Additional Information:

1. In completing the coordinated program of study for this articulation agreement, course substitutions may be made with the guidance of the advisers (indicated below) at both institutions to assure that all requirements are satisfied. Courses indicated with an * are required for EMU's Construction Management Program.
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 157, MATH 164, or MATH 162 at MCCC]
 - b) an approved course in Global Awareness or US Diversity: [ENGL 240 or 255 at MCCC]
(The following social science courses also satisfy the diversity requirement: ANTHR 152; GEOG 152; HIST 159, 255, 256; POLSC 211; SOC 153)
 - c) an approved Learning Beyond the Classroom course or experience offered by EMU. [CNST 387]

To use MACRAO, students should request a MACRAO evaluation of their transcript from the MCCC's Registration and Records 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. A course completed with a grade of less than 2.0, even though it is counted toward graduation at the community college and used to satisfy MACRAO, will not transfer and will have to be repeated if it is a requirement of the Construction Management program at EMU.
4. Under this agreement, EMU will waive the 60-hour rule and require that a minimum of 30 credit hours must be completed at EMU, 15 hours of which must be in program requirements at the 300-level or above. Of the last 30 hours completed before graduating, a minimum of 10 credit hours must be in courses offered by EMU.
5. Students must meet all admission requirements at the time of application for admission to EMU, including submitting transcripts from all previously attended colleges. MCCC students will receive equal consideration with other students for course registration and financial aid.
6. Students should contact the Construction Management Program Coordinator early, before applying to EMU. To facilitate the evaluation of transcripts, students should enclose a copy of this articulation guide with their EMU admission application and bring a copy to all advising sessions. Copies of the articulation guide are available on EMU's webpage 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 who have already begun the program at MCCC will have an additional three years to be admitted to EMU under the terms of this agreement. Students, who began this program prior to the effective date may use the agreement that was in place when they started or have the option of changing to this agreement.

Contacts:

Monroe County Community College
Construction Management Technology Program
Alex Babycz, Program Faculty
734.384.4116, office: W-170
ababycz@monroeccc.edu

Eastern Michigan University
Construction Management Program
James Stein, Program Coordinator
118 Sill Hall, 734-487-2040
james.stein@emich.edu