

**EASTERN MICHIGAN UNIVERSITY  
ARTICULATION GUIDE**

June 2006

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

**Purpose:**

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

This 3 + 1 articulation agreement is designed to provide a smooth curriculum transition for students who transfer to EMU to earn a Bachelor of Science in Construction Management. The agreement is designed to minimize loss of credits and duplication of coursework, while maximizing the number of credits that can be earned at the community college.

**Requirements:**

1. Complete the coordinated program of study for Construction Management Technology at MCCC and the Bachelor of Science in Construction Management at EMU, as indicated on this Guide.
2. Students whose transcripts are endorsed as “MACRAO Satisfied” by the community college will be required to meet EMU’s additional four general education requirements, indicated on the attached articulation guide with a “1”, and listed below:
  - a) A course in advanced written composition, speech, or a foreign language [ENGL 324 at EMU]
  - b) A course in mathematical reasoning [MATH 162 at MCCC]
  - c) A cross-cultural course [ENGL 255 at MCCC]
  - d) A course in computer literacy [CIS 130 at MCCC]*To use MACRAO, students should request a MACRAO evaluation of their transcript in the Community College Student Records or 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 less than 2.0, which is counted toward graduation at the community college, may be used to satisfy MACRAO. However, the course will not transfer and will have to be repeated if it is a requirement of the Construction Management Program.
4. Under this agreement, EMU will waive the 60-hour rule and require that a minimum of 30 credit hours must be taken in EMU courses, 15 hours of which must be in program requirements at the 300-level or above. Of the last 30 hours completed before graduating, at least 10 hours must be in EMU courses. A minimum of 124 credit hours, completed in-residence or accepted in transfer, is required for graduation.
5. Students must meet all admission requirements at the time of admission to EMU, including submitting transcripts from all previously attended colleges.
6. Students interested in transferring to EMU should contact the EMU Construction Management Program Coordinator early, before completing an admission application to EMU. Students should attach a copy of this articulation guide to their EMU application and bring a copy to all advising sessions.

**Effective Dates:** September 1, 2003. This agreement has been **extended until September 1, 2007.**

Students who started this program prior to the ending date will have three additional years to be admitted to EMU under the terms of the agreement. Students should check with an advisor each semester to find out if there are changes to the curriculum at either institution. Students who began this program prior to the effective date may use this agreement to the extent that the curriculum followed is consistent with the agreement.

**Contacts:**

**Monroe County Community College**  
Construction Management Technology Program  
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**Eastern Michigan University**  
Construction Management Program  
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**Monroe County Community College Courses:**

**Transfer to EMU as:**

**MACRAO Requirements (34 Credits)**

**(34 Credits)**

- 1. English Writing Requirement (6 credits)**  
ENGL 151 English Composition I.....3  
ENGL 152 English Composition II.....3
- 2. Math/science Requirements (10 Credits)**  
MATH 157 College Algebra.....3  
MATH 159 Trig & Analytical Geometry.....3  
Complete one course from the following:.....4  
    CHEM 150 Fund Principles of Chemistry (4)  
    PHY 151 General Physics I (4)
- 3. Social science Requirements (9 Credits)**  
ECON 251 Principles of Economics I.....3  
\*PSY 151 General Psychology.....3  
Complete one course from the following:.....3  
    POLS 101 American Institutions (3)  
    POLS 151 Intro to Political Science (3)
- 4. Humanities Requirements (9 Credits)**  
\*SPCH 151 Communication Fundamentals.....3  
\*<sup>1</sup>ENGL 255 Women’s Writing.....3  
\*PHIL 151 Introduction to Logic.....3

- ENGL 120 Composition I (Elective credit).....3  
ENGL 121 Composition II.....3
- MATH 105 College Algebra.....3  
MATH 107 Plane Trigonometry (2) +1.....3  
One Course:.....4  
    CHEM 117/118 Fund of Chemistry w/ Lab (4)  
    PHY 221 Mechanics, Sound, and Heat (4)
- ECON 201 Principles of Economics I.....3  
PSY 101 General Psychology.....3  
One Course:.....3  
    PLSC 112 American Government  
    PLSC 112 American Government
- CTAS 124 Fundamentals of Speech.....3  
LITR BASXBasic Studies Cross-Cultural.....3  
PHIL 130 Introduction to Logic.....3

**Required Courses (6 credits)**

**(6 credits)**

- <sup>1</sup>CIS 130 Intro to Computer Information Systems.....3  
\*<sup>1</sup>MATH 162 Introduction to Statistics.....3

- IS BAS Gen Ed Credit (Substitutes for CADM 105).....3  
MATH 170 Elementary Statistics.....3

**Construction Major Courses (36 credits)**

**(36 credits)**

- ACCT 151 Accounting Principles.....4  
BMGT 101 Principles of Management.....3  
CONM 100 Intro to Design & Construction.....3  
CONM 101 Materials of Construction.....3  
CONM 102 Construction Practices.....3  
CONM 103 Residence Drafting.....4  
CONM 105 Mechanical Building Systems & Equipment...4  
CONM 107 Surveying.....3  
CONM 110 Construction Blueprint Reading.....3  
CONM 120 Introduction to AutoCAD for Architecture.....3  
METC 208 Strength of Materials.....3

- ACC 240 Principles of Accounting I (3) +1.....4  
MGMT 000 Restricted Business Elective.....3  
CNST 125 Intro to Construction (2) +1.....3  
CNST 202 Construction Materials.....3  
CNST 201 Construction Systems.....3  
CNST 000 Meets requirement for CNST 228 (3) +1.....4  
CNST 303 Electrical, Mechanical & Equip Sys (3) +1.....4  
CNST 206 Surveying.....3  
CNST 229 Analysis of Commercial Prints.....3  
CONST GENRV (General Transfer Credit).....3  
MET 211 Statics (substitute for CNST 412).....3

**Credits at Monroe County CC: ..... 76**

**Credits that transfer to EMU ..... 76**

**Additional Courses That May be Taken at MCCC or EMU: (18 credits)**

These courses are not required for Monroe’s program but may be transferred to EMU for the BS in Construction Management.

- BSLW 251 Business Law.....3  
ECON 252 Principles of Economics II.....3  
<sup>1</sup>ENGL 155 Technical Writing.....3  
HPE 150 Personal Health.....2  
Approved Math or Science Elective (see program advisor).3  
Complete the course not already completed:.....4  
    CHEM 150 Fund Principles of Chemistry (4)  
    PHY 151 General Physics I (4)

- LAW 293 Legal Environment of Business.....3  
ECON 202 Principles of Economics II.....3  
ENGL 324 Principles of Tech Communication.....3  
PEGN 210 Lifetime Health and Fitness.....2  
Restricted Math/Science Elective.....3  
One Course:.....4  
    CHEM 117/118 Fund of Chemistry w/ Lab (4)  
    PHY 221 Mechanics, Sound, and Heat (4)

**Credits at MCCC:..... 94**

**Credits that transfer to EMU ..... 94**

\*These courses are not required for Monroe’s program, but are needed on the community college transcript to satisfy MACRAO.  
<sup>1</sup> Meets one of EMU’s four additional requirements for MACRAO.

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**Completion of the Bachelor of Science in  
Construction Management at EMU**

**Required Courses: (7 credits)**

ESSC 160 Physical Geology ..... 4  
MGMT 384 Human Resource Management ..... 3

**Major Requirements: (25 credits)**

CNST 213 Construction Safety ..... 3  
CNST 302 Contract Documents, Regulations & Specs .... 3  
CNST 304 Construction Estimating & Bidding ..... 3  
CNST 361 Planning & Scheduling ..... 3  
CNST 387 Cooperative Education in Constr. Mgmt ..... 3  
CNST 403 Production Control ..... 2  
CNST 406 Construction Law ..... 2  
CNST 450 Fundamentals of Construction Project Mgmt .. 3  
Three hours from the following: ..... 3

FIN 350 Principles of Finance (3)  
FIN 352 Financial Mgmt for Entrepreneurs (3)  
FIN 358 Analysis of Financial Statements (3)  
LAW 393 Law of Business Enterprises (3)  
LAW 403 Employment Law (3)  
MGMT 202 Business Communication (3)  
MGMT 386 Organizational Behavior and Theory (3)  
MGMT 460 Management Skills (3)  
MGMT 484 Management-Union Relations (3)  
MKTG 360 Principles of Marketing (3)  
DS 265 Business Statistics I (3)

**Credits at EMU:..... 32**

**<sup>2</sup>Credits to Graduate ..... 126**

<sup>2</sup> The minimum credits required for a bachelor's degree is 124.