

**EASTERN MICHIGAN UNIVERSITY**  
**ARTICULATION GUIDE**

September 2006

**Washtenaw Community College – Approved Technical Programs**  
**Eastern Michigan University – Bachelor of Science in Applied Technology**

**Purpose:**

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

This 3 + 1 agreement was developed to provide a smooth curriculum transition for students who want to complete a technical program at Washtenaw Community College and transfer to EMU to earn a Bachelor of Science in Applied Technology. The agreement is designed to minimize loss of credits and duplication of coursework in transferring and provides the convenience of completing up to 94 credit hours at the community college.

**Requirements:**

1. Complete an approved technical program or 34 hours in an approved technical discipline at WCC and the coordinated program of study for the Applied Technology program at EMU as indicated in this articulation guide. 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” by the community college will only be required to meet EMU’s additional four general education requirements, indicated in the articulation guide with a “1” and listed below:
  - a) a course in advanced composition, advanced speech, or a foreign language [ENGL 226 at WCC]
  - b) a course in mathematical reasoning [MATH 160 at WCC]
  - c) a cross-cultural course [ART 143,150 or ENG 181,214 at WCC]
  - d) a course in computer literacy [CIS 100 at WCC]

*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 2.0 or better (on a 4.0 scale) will be accepted for transfer to EMU. A Course completed with a grade of less than 2.0 will not transfer to EMU, even though it may be used to satisfy MACRAO at the community college.
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. 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 application for admission to EMU, including submitting transcripts from all previously attended colleges. WCC students will receive equal consideration with other students for course registration and financial aid.
6. Students should contact the Applied Technology 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](http://www.emich.edu/ccr/artguide.htm).

**Effective Date:** March 1, 2003. This agreement has been **extended until September 1, 2007**. Students who started this program agreement prior to the ending date will have an additional three years to be admitted to EMU under the terms of this agreement. Students who started programs at WCC prior to the effective date may use this agreement.

**Contacts:**

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September 2006

**Approved Technical Programs  
Washtenaw Community College**

**Applied Technology  
Eastern Michigan University**

<b>MACRAO Requirements (33 credits)</b>	<b>(33 credits)</b>
<p><b>1. English Writing Requirement (7 credits)</b>            ENG 111 Composition I ..... 4  <sup>1,2</sup>ENG 226 Composition II ..... 3</p> <p><b>2. Science/Math Requirement (8 credits)</b>  <sup>1</sup>MTH 160 Basic Statistics ..... 4            Choose one course: ..... 4                PHY 111 General Physics I (4)                CEM 105 Fundamentals of Chemistry (4)</p> <p><b>3. Humanities Requirement (9 credits)</b>            Choose one course from the following: ..... 3                COM 101 Fundamentals of Speaking (3)                COM 102 Interpersonal Communication (3)            PHL 205 Ethics ..... 3  <sup>1</sup>Choose one course: ..... 3                ART 143 Art and Culture of Afro-America (3)                ART 150 Monuments Around the World (3)                ENG 181 African American Literature (3)                ENG 214 Literature of the Nonwestern World (3)</p> <p><b>4. Social Science Requirement (9 credits)</b>            ECO 211 Principles of Economics I ..... 3            Choose two courses ..... 6                Complete two courses from WCC's list of                Courses approved for the MACRAO social                Science requirement. (See the WCC catalog)</p>	<p>ENG 121 English Composition (3)+1 .....4            ENGL 326 Research Writing (sub for ENGL 324)....3</p> <p>MATH 170 Elementary Statistics (3)+1 .....4            One Course: .....4                PHY 221 Mechanics, Sound &amp; Heat (4)                CHEM 117/118 Fund of Chemistry &amp; Lab (4)</p> <p>One course:.....3                CTAS 121 Fundamentals of Speech (2) +1                CTAC 227 Interpersonal Communication (3)</p> <p>PHIL 220 Ethics .....3            One course: .....3                LITR BASX General Education Cross-Cultural                LITR BASX General Education Cross-Cultural                LITR 260 African American Literature                LITR BASX General Education Cross-Cultural</p> <p>ECON 201 Principles of Economics I .....3            Two courses .....6                Courses should transfer as equivalent courses,                general education transfer credit, or general                transfer credit.</p>
<b>Technical Concentration (34 credits)</b>	<b>(34 credits)</b>
<p>Thirty-four (34) credits in technical courses from an approved WCC program/discipline will be transferred as a block for the technical concentration. If the program has less than 34 technical credits, related courses may be completed at either institution to make up the difference..... 34</p>	
<b>Requirements That May be Taken at WCC or EMU</b>	<b>(27 credits)</b>
<p><sup>1</sup> CIS 100 Intro to Software Applications ..... 3            PHY 122 General Physics II ..... 4            PEA 102 Cardiovascular Training (1) and            PEA/YOG activity course (1) ..... 2            Choose one of the following options: ..... 5-7                MTH 180 Precalculus with Trigonometry (5) or                MTH 176 College Algebra (4) and                MTH 178 Gen Trig (3)            Complete the course not taken for MACRAO above: 4                PHY 111 General Physics I (4)                CEM 105 Fundamentals of Chemistry (4)            Electives: (not to exceed 94 credits at WCC) ..... 7-9</p>	<p>COSC 136 (subst for CADM 105) .....3            PHY 222 Electricity &amp; Light .....4            PEGN 210 Lifetime Wellness and Fitness .....2            One option: ..... 5-7                MATH 105 and MATH 107 Plane Trig (5)                MATH 105 College Algebra (3)+1and                MATH 107 Plane Trigonometry (2)+1            One Course: .....4                PHY 221 Mechanics, Sound &amp; Heat (4)                CHEM 117/118 Fund of Chemistry &amp; Lab (4)            University Electives ..... 7-9</p>
<b>Maximum Credits at WCC: ..... 94</b>	<b>Credits that transfer to EMU ..... 94</b>

<sup>1</sup> Satisfies one of EMU's four additional requirements for MACRAO. See #2 on page one for more information.

<sup>2</sup> Students who completed ENG 111 and 122 at WCC will receive credit for ENGL 121 plus four elective credits. Additionally, ENGL 324 Principles of Technical Communication should be completed at EMU to satisfy the advanced composition requirement.

**Washtenaw Community College – Approved Technical Programs  
EMU – Applied Technology**

**Completion of the Applied Technology  
Program at EMU**

<b>Major Requirements</b>	<b>(21 credits)</b>
**Restricted Electives (100-400 level) .....	6
**Restricted Electives (300-400 level) .....	15
<b>University Electives</b>	<b>(9 credits)</b>
Enough electives to bring the program total to 124 hours .....	9
<b>Minimum Credits at EMU:.....</b>	<b>30</b>
<b>Minimum Credits to Graduate .....</b>	<b>124</b>

**Approved WCC Technical Programs/Disciplines**

Occupational Studies (in combination with any of the following program disciplines)

Architectural Technology

Automation Technology (any option)

Automotive Mechanics

Autobody Repair

Computer Aided Drafting

Computer Forensics

Computer Information Systems

Computer Networking

Computer Programming (any certificate)

Computer Systems Security

Construction Management

Construction Supervision

Fluid Power

Graphic Design Technology

Heating, Ventilation, Air Conditioning, and Refrigeration (any option)

Industrial Electronics Technology

Industrial Training

Java Developer

Linux/Unix Systems

Machine Tool Technology

Management Supervision

Manufacturing and Industrial Computing

Microcomputer System Support

Numerical Control Programming

Residential Construction/Adv Residential Construction

Web Graphic Design

Web Technology

Welding

Welding Mechanics

Other programs may be used with approval of the Program Coordinator