

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

**This program has been discontinued effective September 2016. Students who have already started the program at WCC have until September 2018 to transfer to EMU under the agreement.**

<b>Washtenaw Community College</b>	<b>Eastern Michigan University</b>
<b>MACRAO Requirements (34-36 credits)</b>	<b>(34-36 credits)</b>
1. English Writing Requirement (7 credits)	(7 credits)
ENG 111 Composition I ..... 4	ENG 121 English Composition II (3)+1 ..... 4
ENG 226 Composition II ..... 3	ENGL 326 Research Writing ..... 3
2. Science/Math Requirement (9-11 credits)	(9-11 credits)
Complete one course: ..... 4	One course: ..... 4
* PHY 111 General Physics I (4)	PHY 221 Mechanics, Sound and Heat (4)
* CEM 105 Fundamentals of Chemistry (4)	CHEM 117&118 Fund of Chemistry (4)
* <sup>1</sup> Complete one of the following math options: ..... 5-7	One option: ..... 5-7
MTH 180 Precalculus with Trig (5) (complete at WCC)	MATH 105 and MATH 107 Plane Trig (5)
OR	
MTH 176 College Algebra (4)(complete at WCC) and	MATH 105 College Algebra (3)+1 and
MTH 178 Gen Trig (3)	MATH 107 Plane Trigonometry (2)+1
3. Humanities Requirement See note below (8-9 credits)	(8-9 credits)
Complete one course: (WCC speech requirement) ..... 3	One course ..... 3
COM 101, 102, 142, 183, 200, or 225	Courses may transfer as general transfer credit
<sup>2</sup> Complete 5-6 credits (from one additional discipline) : ..... 5-6	Five or six credits: ..... 5-6
Choose from courses approved by WCC to satisfy the MACRAO humanities requirement.	Courses may transfer as equivalent courses, General Education transfer credit, or general transfer credit.
4. Social Science Requirement See note below (8-9 credits)	(8-9 credits)
<sup>2</sup> Complete 8-9 credits from at least two disciplines: ..... 8-9	Eight or nine credits: ..... 8-9
Choose from courses approved by WCC to satisfy MACRAO social science requirement.	Courses may transfer as equivalent courses, General Education transfer credit, or general transfer credit.
<sup>3</sup> <i>NOTE: In completing the MACRAO requirements above, choose one course from the following to satisfy EMU's Global Awareness/US Diversity requirement: <b>Humanities:</b> ART 143, 150; COM 225; DAN 180; ENG 181, 187, 213, 214, 224, 242, 281; HUM 145, 150, 170, 175; MUS 180; <b>Social Science:</b> ANT 201; ECO 280; GEO 101; HST 123, 150, 210, 230, 235, 240, 270; PLS 211; PSY 107; SOC 205</i>	
<b>Technical Concentration (34 credits)</b>	
* Thirty-four (34) credits in technical courses from an approved WCC program/discipline may be transferred as a block for the technical concentration. If the program has less than 34 credits, approved technical courses may be taken at either institution to make up the difference ..... 34	<i>NOTE: See page 2 for list of approved WCC programs</i> Technical Concentration ..... 34
<b>WCC Graduation Requirement</b>	<b>(3 credits)</b>
Choose one: CIS 100 or CIS 110 ..... 3	University Elective ..... 3
<b>EMU Requirements that May be Taken at WCC or EMU</b>	<b>(21-23 credits)</b>
Complete the course not taken for MACRAO: ..... 4	One course: ..... 4
* PHY 111 General Physics I (4)	PHY 221 Mechanics, Sound and Heat (4)
* CEM 105 Fundamentals of Chemistry (4)	CHEM 117&118 Fund of Chemistry (4)
* PHY 122 General Physics II ..... 4	PHY 222 Electricity & Light ..... 4
Electives: (not to exceed 94 credits at WCC) ..... 13-15	University Electives ..... 13-15
<b>Maximum Credits at WCC: ..... 94</b>	<b>Credits that transfer to EMU ..... 94</b>

\* Required for EMU's Applied Technology program

<sup>1</sup> MTH 176 or MTH 180 must be completed at WCC to satisfy EMU's Quantitative Reasoning Requirement. If completed at EMU, MATH 110 is also required, unless intermediate algebra has been completed with a "C" or better, or if waived by ACT/SAT or math placement score.

<sup>2</sup> For approved MACRAO courses, look up the WCC MACRAO Transfer Guide at <http://it.emich.edu/service/online/tranequiv/>

<sup>3</sup> Satisfies EMU's Perspectives on a Diverse World requirement

Note: Students who want to complete a certificate or associate degree should consult a WCC counselor to select the appropriate courses. See page 2 for list of approved WCC programs.

**Washtenaw Community College – Approved Technical Programs/Disciplines  
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<p><b><u>Completion of EMU’s Applied Technology Program</u></b></p> <p><b>Major Requirements (24 credits)</b>          SET 350W Applied Technical Writing..... 3          ** Restricted Electives (see list below).....6          Select six hours at the 100 to 400-level in consultation with an Applied Technology program adviser.          ** Restricted Electives (see list below).....15          Select fifteen hours of restricted electives at the 300-400-level in consultation with an Applied Technology program adviser.</p> <p><b>Additional Requirement (0-3 credits)</b>          One LBC course or noncredit experience must be completed. MFG 387 Coop in Manufacturing Technology satisfies the LBC requirement. See the program advisor for other options.</p> <p><b>University Electives (3-6 credits)</b>          To bring the program total to 124 credits ..... 3-6</p> <p><b>Minimum Credits at EMU:..... 30</b></p> <p><b>Minimum Credits to Graduate..... 124</b></p> <p><b>On-line Applied Technology Restricted Electives</b>          EMU offers Applied Technology Program coursework on-line. Such courses will include the Restricted Electives for the major and additional university electives appropriate for this program. University electives may include courses from the School of Engineering Technology or any other department at EMU. Contact the program coordinator for a current list of online courses that may be used for this program.</p>	<p><b>Washtenaw Community College Approved Technical Programs/Disciplines</b></p> <ul style="list-style-type: none"> <li>3D Animation</li> <li>Automation Technology (any option)</li> <li>Automotive Services Technician</li> <li>Auto Body Repair</li> <li>Advanced Manufacturing</li> <li>Collision Repair</li> <li>Computer Forensics/Data Recovery &amp; Analysis</li> <li>Computer Networking</li> <li>Computer Science (any option)</li> <li>Computer Systems Security</li> <li>Computer Systems Technology</li> <li>Construction Management</li> <li>Construction Supervision</li> <li>Data Recovery and Analysis (any option)</li> <li>Digital Video Production</li> <li>Environmental Science</li> <li>Fluid Power</li> <li>Graphic Design</li> <li>HVAC and Refrigeration (any option)</li> <li>Industrial Electronics Technology</li> <li>Industrial Training</li> <li>Information Systems: Programming C++</li> <li>Internet Professional</li> <li>Linux/Unix Systems</li> <li>Machine Tool Technology</li> <li>Management Supervision</li> <li>Motorcycle Services Technology I &amp; II</li> <li>Network Security</li> <li>Numerical Control Programming</li> <li>Residential Construction</li> <li>Sustainable Technologies in HVAC</li> <li>Web Application Developer</li> <li>Web Graphic Design</li> <li>Web Technology</li> <li>Welding</li> <li>Welding Mechanics</li> <li>Occupational Studies with any disciplines above</li> <li>Other programs with approval of Program Coordinator</li> </ul>
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*\*\* All restricted electives must be approved by the Applied Technology Program Advisor.*

Washtenaw Community College – Approved Technical Programs/Disciplines  
Eastern Michigan University – Bachelor of Science in Applied Technology**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. WCC courses indicated with an \* are required for EMU's Applied Technology Program.
2. Students whose transcripts are endorsed as "MACRAO Satisfied" by the community college will only be required to satisfy three of EMU's general education requirements, noted on this 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: [MTH 176 or 180 at WCC]
  - b) an approved course in Global Awareness or US Diversity: [Humanities: ART 143, 150; COM 225; DAN 180; ENG 181, 187, 213, 214, 224, 242, 281; HUM 145, 150, 170, 175; MUS 180; Natural Science: ENV 101; Social Science: ANT 201; ECO 280; GEO 101; HST 123, 150, 210, 230, 235, 240, 270; PLS 211; PSY 107; SOC 205 at WCC]
  - c) an approved Learning Beyond the Classroom course or experience offered by EMU: [MFG 387 or other approved option at EMU]

*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 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 satisfy 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 are encouraged to contact the Applied Technology Program Coordinator early, before applying to EMU. To facilitate the evaluation of transcripts, students should indicate they are using this articulation agreement on their EMU application for admission and bring a copy of this guide to all advising sessions. Copies of the articulation guide are available on EMU's webpage at [www.emich.edu/ccr/artguide.php](http://www.emich.edu/ccr/artguide.php)

**Effective Dates: September 1, 2010 until August 31, 2014.**

This agreement is extended through August 2014. It is a renewal of an agreement made in November 2002 and renewed in September 2007. Students who began this articulated program prior to the new effective date have the option of changing to this guide or continuing to follow the agreement they are currently using. If this agreement is not renewed at the end of the effective period, students who already started the program will be given three additional years to be admitted to EMU under the terms of this agreement.

**Contacts:****Eastern Michigan University**

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