

**Macomb 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 MCC have until September 2018 to transfer to EMU under this agreement.**

**Macomb Community College**

**Eastern Michigan University**

<b>MACRAO/Gen Ed Requirements (30-35 credits)</b>	<b>(30-35 credits)</b>
<b>1. English Writing Requirement (6-8 credits)</b> Complete a two-course sequence:.....6-8 ENGL 1180 & 1190 Communication I & II (8) ENGL 1210 & 1220 Composition I & II (6)	<b>(6-8 credits)</b> Two courses:.....6-8 ENGL 120 & 121 Composition I & II (6) +2 ENGL 120 & 121 Composition I & II (6)
<b>2. Math/Science Requirement (8-10 credits)</b> Complete one course: .....4 *CHEM 1050 Introduction to General Chemistry (4) *PHYS 1180 College Physics 1 (4) *Complete one math option: (complete at MCC).....4-6 <sup>1</sup> MATH 1410 College Algebra (3) AND MATH 1430 College Trigonometry (3) OR <sup>1</sup> MATH 1460 Precalculus (4)	<b>(8-10 credits)</b> One course:.....4 CHEM 117&118 Fund of Chemistry (4) PHY 221 Mechanics, Sound and Heat (4) One or two courses .....4-6 MATH 105 College Algebra (3) MATH 107 Plane Trigonometry (2)+1  MATH 105 and MATH 107 (4)
<b>3. Humanities Requirement (see note below) (8-9 credits)</b> Choose from two disciplines below (except if foreign lang)..8-9 Art, Creative Writing, Foreign Language, Humanities, Literature, Music, Philosophy, Theater Arts ( <b>See MCC                          counselor for approved MACRAO courses</b> )	<b>(8-9 credits)</b> Two or three courses:.....8-9 Courses may transfer as equivalent courses, General Education credit, or general transfer credit.
<b>4. Social Science Requirement (8 credits)</b> Complete a minimum of 8 credits: ( <b>see note below</b> ) .....8 Choose from at least two disciplines below: Anthro, Econ, Geog, Hist, Pol Sci, Psych, Sociology, or Social Sci ( <b>See MCC counselor for approved MACRAO courses</b> )	<b>(8 credits)</b> Two or three courses.....8 Courses will transfer as equivalent courses or General Education transfer credit or general transfer credit
<sup>2</sup> <b>NOTE:</b> In completing one MACRAO area above, choose a course from the following to satisfy EMU's Perspectives on a Diverse World requirement: <b>Humanities:</b> ENGL 2800, 2810; HUMN 1700, 1270, 2000; INTL 2000, 2300; <b>Social Sciences:</b> ANTH 1000; GEOG 2000; HIST 1700, 2420, 2520, 2650; INTL 2010, 2500, 2700; POLS 1600; SOSC 2010	
<b>MCC Technical Concentration (34 credits)</b>	<b>(34 credits)</b>
*Thirty-four (34) credits in technical courses from an approved MCC program 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.....34	
<b>MCC Graduation Requirement (2 credits)</b>	<b>(2 credits)</b>
PHED 2000 or above (except 2080).....2	PEGN 210 Lifetime Wellness & Fitness (Univ. Elective)..... 2
<b>EMU Requirements that May be Taken at MCC or EMU</b>	<b>(24-28 Credits)</b>
Complete the course not taken for MACRAO: .....4 *CHEM 1050 Introduction to General Chemistry (4) *PHYS 1180 College Physics 1 (4) *PHYS 1190 College Physics 2 .....4 <sup>3</sup> Open Electives (not to exceed 94 credits at MCC).....16-19	One course:.....4 CHEM 117&118 Fund of Chemistry (4) PHY 221 Mechanics, Sound and Heat (4) PHY 222 Electricity & Light .....4 University Electives .....16-20
<b>Maximum Credits at MCC:.....94</b>	<b>Maximum Credits that transfer to EMU..... 94</b>

\* Required for EMU's Applied Technology program.

<sup>1</sup> MATH 1410 or 1460 must be completed at MCC to satisfy EMU's Quantitative Reasoning Requirement. If completed at EMU, an additional QR course will be required. See pg. 3 for options.

<sup>2</sup> Satisfies EMU's Perspectives on a Diverse World requirement.

<sup>3</sup> The number of elective credits required will vary depending on the number of credits completed for the concentration and other requirements.

**NOTE:** Students who want to complete a certificate or associate degree should consult a Macomb Community College counselor to select the appropriate courses. See page 2 for approved MCC programs.

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<p><b>Completion of EMU's Applied Technology Program</b></p> <p><b>Major Requirements (24 credits)</b></p> <p>SET 350W Applied technical Writing ..... 3</p> <p>** Restricted Electives (see list below).....6 Select six hours at the 100 to 400-level in consultation with an Applied Technology program advisor.</p> <p>** Restricted Electives (see list below).....15 Select fifteen hours of restricted electives at the 300-400-level in consultation with an Applied Technology program advisor.</p> <p><b>Additional Requirement (0-3 credits)</b> One LBC course or noncredit experience must be completed. MFG 387 Coop in Manufacturing Technology (3) satisfies the LBC requirement or see 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>Approved MCC Programs/Disciplines</b></p> <p>Applied Technology and Apprenticeship – all options</p> <p>Architectural Technology – all options</p> <p>Automated Systems Technology - Mechatronics</p> <p>Automotive Technology – all options</p> <p>Civil Technology</p> <p>Climate Control Technology – all options</p> <p>Comprehensive Automotive Training</p> <p>Construction Technology</p> <p>Customer Energy Specialist – all options</p> <p>Electronic Engineering Technology – all options</p> <p>Information Tech – Networking Spec – all options</p> <p>Land Surveying Technology – all options</p> <p>Plant Maintenance</p> <p>Manufacturing Engineering</p> <p>Manufacturing Engineering Technology</p> <p>Media &amp; Communication Arts – all options</p> <p>Product Development – all options</p> <p>Quality Systems Technology – all options</p> <p>Renewable Energy Technology</p> <p>General Studies Degree may be used with 34 credits in any of the approved program areas above</p> <p>Other programs with approval of the Applied Technology Program Coordinator</p>
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\*\* All restricted electives must be approved by the Applied Technology Program Advisor.

*NOTE: If ninety-four credits are not transferred from the community college, additional electives must be completed at EMU to reach the*

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ARTICULATION GUIDE**

September 2010  
EXTENDED

*minimum of 124 credit hours required to graduate.*

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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. MCC 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: [MATH 1340, 1360, 1370, 1410, 1460, or 1760 at MCC] or [MATH 110 at EMU; or if MATH 104 Intermediate Algebra is completed with a "C" or better students may choose MATH 118, 119, 120, 170, PHIL 181, PLSC 210, SOCL 250, or STS 224.]
  - b) an approved course in Global Awareness or US Diversity: [**Humanities:** ENGL 2800, 2810; HUMN 1700, 1270, 2000; INTL 2000, 2300; **Social Sciences:** ANTH 1000; GEOG 2000; HIST 1260, 1270, 1700, 2420, 2520, 2650; INTL 2000, 2010, 2500, 2700; POLS 1600; SOSC 2010. **Lab Science:** NATS 1310 at MCC]
  - c) an approved Learning Beyond the Classroom course or experience offered by EMU. [MFG 387 at EMU] *To use MACRAO, students must request 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 meet all admission requirements at the time of application for admission to EMU, including submitting transcripts from all previously attended colleges. MCC 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 and bring a copy of this guide to all advising sessions. Copies of this articulation guide are available on EMU's webpage at [www.emich.edu/ccr/artguide.htm](http://www.emich.edu/ccr/artguide.htm).

**Effective Dates: September 1, 2010 until August 31, 2014.** This agreement is extended through August 31, 2014. Students who began this program prior to the new effective date have the option of using this agreement 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.

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**Eastern Michigan University**

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