

**Macomb Community College – Approved Technical Programs  
Eastern Michigan University – Bachelor of Science in Technology Management**

<b>Macomb Community College Courses:</b>	<b>Transfer to Eastern Michigan University as:</b>
<b>MACRAO Requirements (30-32 credits)</b>	<b>(30-32 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 credits)</b> MATH 1000 Intermediate Algebra ..... 4 Complete one lab science course from below: ( <i>see note</i> )..... 4 BIOL 1000; CHEM 1050, 1060, 1170; GEOL 1140; NATS 1200, 1210, 1310; PHYS 1180, 2220	<b>(8 credits)</b> MATH 104 Intermediate Algebra (3)+1 (Univ Elec) ..... 4 One course:..... 4 Courses may transfer as equivalent courses, general education credit, or general transfer credit
<b>3. Humanities Requirement (<i>see note below</i>) (8 credits)</b> <sup>2</sup> Choose from two disciplines except for foreign language ..... 8 ARTT, creative writing, foreign language, HUMN, literature MUSC, PHIL, theater arts	<b>(8 credits)</b> Two or three courses 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: ( <i>see note below</i> )..... 8 Choose from at least two disciplines below: Anthropology, Economics, Geography, History, Political Science, Psychology, Sociology, or Social Science	<b>(8 credits)</b> Two or three courses ..... 8 Courses may transfer as equivalent courses, General Education credit, or general transfer credit.
<sup>1</sup> <b>NOTE:</b> In completing <u>one</u> 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, 2000; INTL 2000, 2300,2700; <b>Social Sciences:</b> ANTH 1000; GEOG 2000; HIST 1700, 2420, 2520, 2650; INTL 2010, 2500, 2700; POLS 1600; SOSC 2010; <b>Lab Science:</b> NATS 1310 or ENV5 1050. The MACRAO transfer guide for MCC can be found at <a href="http://it.emich.edu/service/online/tranequiv/">http://it.emich.edu/service/online/tranequiv/</a>	
<b>MCC Technical Concentration (30-46 credits)</b>	<b>(30-46 credits)</b>
* Thirty to forty-six credits in technical courses from an approved MCC program or discipline may be transferred as a block for the technical concentration. If the program has less than 30 technical credits, related courses may be taken at either institution. 30-46	Technical Concentration .....30-46
<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>(14-32 Credits)</b>
<sup>*</sup> ECON 1160 Principles of Economics 1 ..... 3 <sup>*</sup> ECON 1170 Principles of Economics 2 ..... 3 <sup>2</sup> ITCS 1010 Computer & Info Processing Principles ..... 4 <sup>3</sup> MATH 1360 Finite Math I (complete at MCC)..... 4 <sup>4</sup> Open Electives (not to exceed 94 credits at MCC).....0-18	ECON 201 Principles of Macroeconomics..... 3 ECON 202 Principles of Microeconomics..... 3 STS 201 Microcomputer Apps in Technology (3)+1 ..... 4 MATH 118 Linear Models & Prob (3)+1 ..... 4 University Electives.....0-18
<b>Maximum Credits at MCC:.....94</b>	<b>Maximum Credits that transfer to EMU..... 94</b>

\* Required for EMU's Technology Management program.  
<sup>1</sup> Satisfies EMU's Perspectives on a Diverse World requirement.  
<sup>2</sup> STS 201(ITCS 1010) may be waived by successful completion of STS 201 exam at EMU. See Technology Management advisor for details.  
<sup>3</sup> If completed at MCC, MATH 1360 satisfies both EMU's Quantitative Reasoning requirement and the TM major requirement. If completed at EMU, MATH 110 is also required for QR unless intermediate algebra has been completed with a "C" or better, in which case students may choose to complete MATH 118 or STS 224(preferred) at EMU to satisfy both the major and the QR requirement. Students who place into MATH 1360 don't need to complete MATH 1000.  
<sup>4</sup> The number of elective credits required will vary depending on the amount of credit completed for the concentration and other course choices. Additional electives may be completed if ECON courses are used to satisfy MACRAO.  
**NOTE:** Consult a MCC counselor to select the appropriate courses for an associate degree. See page 2 for a list of approved programs.

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<p><b><u>Completion of EMU’s Technology Management Program</u></b></p> <p><b>Major Requirements (30-33 credits)</b></p> <p><b>Core Courses (18 credits)</b></p> <p>TM 130 Intro to Technology Management..... 3</p> <p>TM 212 Management of Technological Change..... 3</p> <p>TM 311 Information Technology Mgmt &amp; Organizations ... 3</p> <p>TM 314W Sociotechnical Systems Appr to Proc Imprvmt .. 3</p> <p>TM 402 Technology Project Management..... 3</p> <p>TM 415 Senior Seminar in Technology Management ..... 3</p> <p><b>Technology Mgmt Electives (12-15 credits)</b></p> <p>Choose from the following courses:..... 12-15</p> <p><i>At least 3 hours at the 300/400 level must be completed.</i></p> <p>ACC 130 Accounting for Non-business Majors (3)</p> <p>ACC 240 Prin of Financial Accounting (3)</p> <p>ACC 241 Prin of Managerial Accounting (3)</p> <p>ACC 358 Analysis of Financial Statements (3)</p> <p>FIN 350 Principles of Finance (3)</p> <p>LAW 293 Legal Environment of Business (3)</p> <p>LAW 403 Employment Law (3)</p> <p>MGMT 384 Human Resource Management (3)</p> <p>MGMT 386 Organizational Behavior &amp; Theory (3)</p> <p>MGMT 388 Intro to Entrepreneurship (3)</p> <p>MGMT 480W Management Responsibility &amp; Ethics (3)</p> <p>MKTG 360 Principles of Marketing (3)</p> <p>MKTG 369 Advertising (3)</p> <p>MKTG 473 Marketing and Product Innovation</p> <p>TM 308 Seminar in Technological Impacts (3)</p> <p>TM 377/378/379 Special Topics (1/2/3)</p> <p><sup>1</sup>TM 387 Cooperative Education (3)</p> <p>TM 477/478/479 Special Topics (1/2/3)</p> <p><b>Additional Requirement (0-3 credits)</b></p> <p>One LBC course or noncredit experience must be completed at EMU. TM 387 Cooperative Education satisfies the LBC requirement. See program advisor for other choices.</p> <p><b>Minimum Credits at EMU:..... 30-33</b></p> <p><b>Minimum Credits to Graduate.....124</b></p>	<p>Approved Macomb Community College Programs:</p> <p>Accounting</p> <p>Applied Technology – All Options</p> <p>Architectural Technology – all options</p> <p>Automated Systems Technology - Mechatronics</p> <p>Automotive Technology – all options</p> <p>Business-all options</p> <p>Building Construction Technology</p> <p>Civil Technology</p> <p>Climate Control Technology – all options</p> <p>Clinical Laboratory Technology</p> <p>Computer Service Technology</p> <p>Construction Technology – All options</p> <p>Customer Energy Specialist</p> <p>Electronic Engineering Technology – All options</p> <p>EMS-EMT/Paramedic</p> <p>EMS-Paramedic/ Firefighter</p> <p>Engineering Technology</p> <p>Fire Science</p> <p>Fire Science with Fire Academy</p> <p>Health Information Technology</p> <p>Homeland Security</p> <p>Information Technology – all options</p> <p>Land Surveying Technology</p> <p>Law Enforcement &amp; Police Academy</p> <p>Legal Assistant</p> <p>Maintenance Technology</p> <p>Manufacturing Engineering</p> <p>Manufacturing Engineering Technology</p> <p>Manufacturing Technology</p> <p>Media and Communication Arts – all options</p> <p>Medical Assistant</p> <p>Nuclear Medicine Technology</p> <p>Nursing</p> <p>Occupational Therapy Assistant</p> <p>Physical Therapist Assistant</p> <p>Project Management – all options</p> <p>Product Development - all options</p> <p>Renewable Energy Technology</p> <p>Respiratory Therapy</p> <p>Restaurant Management</p> <p>Surgical Technology</p> <p>Veterinary Technician</p> <p>Other programs with approval of the Program Coordinator</p>
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<sup>1</sup> Meets EMU’s Learning beyond the Classroom General Education requirement.

**NOTE:** If 94 credits are not transferred from the community college, additional electives must be completed at EMU to reach the minimum of 124 credit hours required to graduate.

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**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. MCC courses with an \* are required for EMU's Technology Management Program.
2. Students whose transcripts are endorsed as "MACRAO Satisfied" will only be required to meet three of EMU's general education requirements, noted 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 1360 at MCC] or [MATH 118 or STS 224 (preferred) at EMU].
  - b) an approved course in Perspectives on a Diverse World: [at MCC: **Humanities:** ENGL 2800, 2810; HUMN 1700, 2000; INTL 2000, 2300, 2700; **Social Sciences:** ANTH 1000; GEOG 2000; HIST 1700, 2420, 2650; POLS 1600; SOSC 2010; SPCH 2300; **Lab Science:** NATS 1310, ENVS 1050] or [at EMU: refer to the catalog website: <http://www.emich.edu/gened/students/approved.php>].
  - c) an approved Learning Beyond the Classroom course or experience offered by EMU: [TM 387 or see EMU Program Coordinator for other options.]

*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 in courses offered by EMU, with 15 hours in program requirements, at the 300-level or above. Of the last 30 hours completed before graduating, at least 10 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. Courses listed in this guide may be completed at the most opportune time for students, whether before or after admission to EMU, as long as appropriate pre-requisites are satisfied.
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 Technology Management Program Coordinator early, before applying to EMU. To facilitate the evaluation of transcripts, students should indicate they are using this articulation agreement when applying to EMU 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: January 1, 2013 until January 1, 2016.**

This is a renewal of an agreement made June 2006 and renewed September 2009. Students who began this program prior to the new effective date have the option of changing to this guide. If this agreement is not renewed at the end of the effective period, students who already started the program at Macomb Community College will have an additional three years to be admitted to EMU under the terms of this agreement.

**Macomb Community College**

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**Eastern Michigan University**

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