Grand Rapids Community College – Approved Technical Programs
Eastern Michigan University – Bachelor of Science in Technology Management

Grand Rapids Community College	Eastern Michigan University
MACRAO Requirements (30-32 credits)	**(30-32 credits)**
1. English Writing Requirement (6 credits)	(6 credits)
EN 100 or 101 College Writing or Composition I....................3	ENGL 120 Composition I..3
EN 102 Composition 2 3	ENGL 121 Composition II...3
2. Math/Science Requirement (8 credits)	(8 credits)
[*1] MA 127 Finite Math w/ Applications (complete at GRCC) 4	MATH 118 Linear Models and Probability (3)+1 4
Complete one course: 4	One course 4
Choose from the list of courses approved by GRCC to satisfy the MACRAO lab science requirement. (or see GRCC catalog)	Courses may transfer as equivalent courses, General Education transfer credit, or general transfer credit.
3. Humanities Requirement *See note below* (8-9 credits)	(8-9 credits)
Complete one course: 3	One course 3
COM 131 Fundamentals of Public Speaking (3)	CTAS 124 Fundamentals of Speech
COM 135 Interpersonal Communication (3)	CTAC 227 Interpersonal Communication
Complete two courses (one must be other than speech) :...5-6	Two courses: 5-6
Choose from courses approved by GRCC to satisfy the MACRAO humanities requirement. (or see GRCC catalog)	Courses may transfer as equivalent courses, General Education transfer credit, or general transfer credit.
4. Social Science Requirement (8-9 credits)	(8-9 credits)
PS 110 Survey of American Government 3	PLSC 112 American Government......................................3
[*]EC 251 Principles of Economics 1 3	ECON 201 Principles of Macroeconomics 3
[*]EC 252 Principles of Economics 2 3	ECON 202 Principles of Microeconomics 3
[2] *NOTE: In completing the Humanities Requirement, choose one course from the following to satisfy EMU's Global Awareness/US Diversity requirement: Humanities: COM 235, 236; EN 251, EN 270, EN 271, EN 278, EN 284; HU 281*	
GRCC Technical Concentration (30-46 credits)	**(30-46 credits)**
[*]Thirty to forty-six credits in technical courses from an approved GRCC program/discipline may be transferred as a block for the technical concentration. If the program has less than 30 technical credits, related technical courses may be taken at either institution. 30-46	Technical Concentration...30-46
Additional GRCC Requirements (1-2 credits)	**(1-2 credits)**
One Wellness (WE) credit and a total of 62 credits are required for an Associate Degree at GRCC.	
EMU Requirements that May be Taken at GRCC or EMU	**(14-34 Credits)**
[3]CO 101 Introduction to Computer Applications.....................2	STS 201 Microcomputer App in Technology (3)-1..............2
[4]Open Electives (not to exceed 94 credits at GRCC) 12-32	University Electives (to reach a minimum of 124............12-32
Students may transfer up to 94 credits toward the total credits for the program at EMU.	*Students should complete enough elective credit to reach a minimum of 124 credits required to graduate.*
Maximum Credits at GRCC: 94	**Maximum Credits that transfer to EMU.......... 94**

[*] *Required for EMU's Technology Management program.*

[1] *If completed at GRCC, MA 127 satisfies EMU's Quantitative Reasoning requirement. If completed at EMU, MATH 110 is required to satisfy QR, unless intermediate algebra has been completed with a "C" or better, in which case, STS 224 or MATH 118 will satisfy both the QR requirement and the major requirement.*

[2] *Satisfies EMU's Perspectives on a Diverse World requirement.*

[3] *Requirement may be satisfied by successful completion of STS 201 credit by examination at EMU.*

[4] *The number of open electives will vary depending on the number of credits completed for the technical concentration and for MACRAO.*

NOTE: To complete a certificate or associate degree, consult a Grand Rapids Community College counselor to select appropriate courses. See page 2 for list of approved programs.

NOTE: EMU will accept substitutions for courses that transfer as general transfer credit or university electives.

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Completion of EMU's Technology Management Program

Major Requirements   (30-33 credits)

Core Courses (18 credits)

TM 130   Intro to Technology Management...................... 3
TM 212   Management of Technological Change.............. 3
TM 311   Information Technology Mgmt & Organizations . 3
[1] TM 314W Sociotechnical Systems Appr to Proc Imprmt 3
TM 402   Technology Project Management...................... 3
TM 415   Senior Seminar in Technology Management 3

Technology Mgmt Electives (12-15 credits)

Choose from the following courses: 12-15
At least 3 hours at the 300/400 level must be completed.

ACC 130   Accounting for Non-business Majors (3)
ACC 240   Prin of Financial Accounting (3)
ACC 241   Prin of Managerial Accounting (3)
ACC 358   Analysis of Financial Statements (3)
FIN 350   Principles of Finance (3)
LAW 293   Legal Environment of Business (3)
LAW 403   Employment Law (3)
MKTG 360 Principles of Marketing (3)
MKTG 369 Advertising (3)
MKTG 473 Marketing and Product Innovation (3)
MGMT 384 Human Resource Management (3)
MGMT 386 Organizational Behavior & Theory (3)
MGMT 388 Intro to Entrepreneurship (3)
[1] MGMT 480W Management Responsibility & Ethics (3)
TM 308   Seminar in Technological Impacts (3)
TM 377/378/379 Special Topics (1/2/3)
[2] TM 387   Cooperative Education (3)
TM 477/478/479 Special Topics (1/2/3)

Additional Requirement   (0-3 credits)

One LBC course or noncredit experience must be completed at EMU. TM 387 Cooperative Education satisfies the LBC requirement.

Minimum Credits at EMU: 30-33

Minimum Credits to Graduate:....................124

Approved GRCC Programs/Disciplines

Air Conditioning, Refrigeration & Heating Technology
Architectural Technology
Automotive Servicing Technology
Chemical Technology
Computer Applications/Computer Applications Technology
Computer Information Systems (all tracks)
Corrections
Culinary Arts
Culinary Management
Dental Assisting
Dental Hygiene
Digital Graphics Communication
Electronics Technology
Fashion Merchandising
Industrial Maintenance Technology
Interior Decorating & Design
Landscape and Lawn Management
Marketing
Mechanical Design
Nursing (Associate Degree)
Occupational Therapy Assistant
Office Administration
Photography
Plastics Manufacturing Technology
Quality Science
Radiological Technology
Recording Technology
Tooling & Manufacturing Technology
Web Design/development
Web Technical Support
Welding Technology
Other programs with approval of the EMU Program Coordinator

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[1] *Satisfies EMU's Writing Intensive in the major requirement*
[2] *Satisfies EMU's Learning beyond the Classroom requirement*

NOTE: If less than ninety-four credits are 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. Courses indicated 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 EMU's three general education requirements, noted on the articulation guide and listed below:
   a) an approved course in Quantitative Reasoning: [at GRCC: MA 127 is required for this major.
   b) An approved course in US Diversity or Global Awareness: [at GRCC: **Social Science:** AN 210, 280; GE 135, 281; GO 262; HS 120, 121, 215, 225, 230, 251, 281, PS 201, 202, 215; SO 260; **Humanities** COM 235, 236; EN 251, 270, 271, 272, 278, 284; HU 281] or [at EMU: refer to the online catalog: 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 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. GRCC 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 enclose a copy of this articulation guide with their EMU admission application and bring a copy to all advising sessions.

Effective Dates: May 1, 2012 until April 30, 2015

This is a renewal of an agreement made in July 2005 and renewed in September 2008. 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 were already 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:

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