ARCHIVED GUIDE. EXPIRED JANUARY 2015. FOR REFERENCE ONLY.

EASTERN MICHIGAN UNIVERSITY ARTICULATION GUIDE

January 2012

Macomb Community College – Associate of General Studies
Eastern Michigan University – Bachelor of Science in Computer Engineering Technology
Macomb College Eastern Michigan University

Maconib College		Eastern witchigan University
MACRAO Requirements	(30-32 credits)	(30-32 credits)
1. English Writing Requirement	(6-8 credits)	(6-8 credits)
Complete a two-course sequence:		Two courses:6-8
ENGL-1180 & 1190 Communication	` ,	ENGL 120 & 121 Composition I & II (6) +2
ENGL-1210 & 1220 Composition I &		ENGL 120 & 121 Composition I & II (6)
2. Math/Science Requirement	(8 credits)	(8 credits)
¹ MATH 1410 College Algebra (complete		MATH 105 College Algebra4
* PHYS 1180 College Physics 1	4	PHY 221 Mechanics, Sound and Heat4
3. Humanities Requirement (see note		(8 credits)
Complete a minimum of 8 credits from tw		
Arts, Creative Writing, Foreign Langu		Courses may transfer as equivalent courses,
Music, Philosophy, Theatre Arts, INT		General Education credit, or general transfer credit.
4. Social Science Requirement (see note		(8 credits)
		Two courses
Anthropology, Economics, Geograph		Courses will transfer as equivalent courses or General
or 2700, Political Science, Psycholog		Education transfer credit or general transfer credit om the following to satisfy EMU's Perspectives on a Diverse World
		INTL 2000, 2300; Social Sciences: ANTH 1000; GEOG 2000; HIST
1260, 1270, 1700, 2420, 2520, 2650; INTL.		
Macomb CC Courses	(31 credits)	(31 credits)
* CORE 1060 Industrial Computer Techn	ology 4	ET 100 Intro to ET and ET 101 Intro to ET Computing4
* ELEC 1161 Electronic Technology 1(3)	and	
		ELEC 200 Circuit Analysis I
	Devices 3	
	Circuits 3	
* ELEC 1211 Digital Electronics Basics	3	ELEC 214 Digital Circuit Analysis I
* ELEC 2005 Discrete Amplifiers & Intro	to Op-amps (was 1191) 3	
* ELEC 2270 Microcontroller Programmi	ng3	ELEC 320 Microcomputer Circuits
	or (MECT 2110 & 2112) 3	
		University Elective2
EMU Requirements that may be	Taken at MCC or EMU	(30-31 credits)
4 ITCS 1010 or ITCS 2335	4	IS 215 End-User Computing (3)+14
#*ITCS 1140 Intro to Program Design &	Development (3) and	
	with SQL & XML(4) 7	
		PDD 122 Engineering Graphics4
		PHY 222 Electricity and Light4
* Complete one CET Restricted Elective:	3-4	CET Restricted Elective3-4
ATMT 1300 & ATMT 1310 (4)		PDD 111 Materials (3)+1
PRDE 1300 Industrial and Materials I	Processing (4)	PDD 123 Manufacturing Processes (4)
MATH 2000 Intro to Linear Algebra (3		MATH 122 Elementary Linear Algebra
-		Or at EMU: CET 426, COSC 221, 321, ELEC 314,420. IS 315,
*1 Complete one method survey of free	0	MATH 325, MET 223, PHY 230
*1 Complete one math sequence from:		Two courses
MATH 1760 (4) and 1770 (4) Anal Ge		MATH 120 (4) and 121 (4) Calculus I and II
(First Calculus course must be comp	eleu belore slarting the	OR at EMU students may choose:
		MATH 140 (4) and 141 (3) Applied Trig & Calc for Tech I&II
Credits at Macomb:	91	Credits to transfer to EMU91

^{*} Required for EMU's Computer Engineering Technology program.

Note: Substitutions may be made for courses that transfer as university electives or general transfer credit.

If completed at Macomb with a "C" or better, MATH 1410 will satisfy EMU's Quantitative Reasoning Requirement.

²Satisfies EMU's "Perspectives on a Diverse World" requirement

³Satisfies the requirement for a Computer Engineering Technology restricted elective

⁴Prerequisite for ITCS 1170 (IS 380).

[#]ITCS 1140 is replacing ITCS 1130 because of discontinuation of the course at Macomb Community College (July 2012).

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Completion of the Computer Engineering **Technology Program at EMU** (33 credits) **Major Requirements** (9 credits) **Any Semester Required Courses** (33 Credits) CET 387 Co-op Educ in Computer Engin Tech (LBC).....3 Intro to Computing in Engineering Technology3 **CET 151** Web Develop for Engineering Applications..... 3 **CET 353** ²CET 387 Co-op Educ in Computer Engin Tech (LBC)... 3 (13 credits) First Semester Engineering Database Development 3 **CET 451** MATH 140 Applied Trigonometry & Calculus I for Tech4 **CET 453** Engineering Programming 3 **CET 491** Intro to Computing in Engineering Technology3 **CET 151** COSC 211 Programming Data Structures 3 OM 374 Intro to Operations Management3 Second Semester (12 credits) MATH 141 Applied Trigonometry & Calculus II for Tech3 OM 374 Intro to Operations Management 3 **CET 353** Web Develop for Engineering Applications......3 ³ SET 350W Applied Technical Writing 3 **CET 451** Minimum Credits at EMU:33 COSC 246 Programming in C++......3 Credits to Graduate:124 Third Semester Engineering Programming3 **CET 453** ¹ Satisfies the Quantitative Reasoning requirement. ² Satisfies the Learning beyond the Classroom requirement. Senior Design Capstone......3 **CET 491** ³ Consult program advisor for other writing intensive courses. COSC 311 Algorithms and Data Structures......3 * A minimum of 124 credits is required to graduate. If less than 91 credits are transferred from MCC, additional credits must be completed at EMU.

Community College Relations Posted: November 29, 2017

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Additional Information:

- 1. In completing the coordinated program of study for this articulation agreement, course substitutions may be made with the guidance of the advisors (indicated below) at both institutions to assure that all requirements are satisfied. MCC courses indicated with an * are required for EMU's Computer Engineering Technology Program. Each institution will determine the satisfaction of requirements for their own institution.
- 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]
 - 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: [CET 387 or see EMU Program Coordinator for other options.]

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 general education.

- 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. Macomb students will receive equal consideration with other students for course registration and financial aid.
- 6. Students are encouraged to contact the Computer Engineering 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 the articulation guide are available on EMU's webpage at www.emich.edu/ccr/artguide.htm.

Effective Dates: January 1, 2012 until January 1, 2015.

If this agreement is not renewed at the end of the effective period, students who have already begun the program at MCC will have an additional three years to be admitted to EMU under the terms of this agreement. Students, who began MCC's program prior to the effective date, may use this agreement.

Contacts:

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Community College Relations

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