## ARCHIVED GUIDE, EXPIRED JANUARY 2015. FOR REFERENCE ONLY.

## **EASTERN MICHIGAN UNIVERSITY ARTICULATION GUIDE**

January 2012

Macomb Community College - AAS in Electronic Engineering Technology Eastern Michigan University - BS in Electronic Engineering Technology

**Eastern Michigan University Macomb College** 

Maconib College		Lastern wildingan 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:	
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)
<sup>1</sup> MATH 1410 College Algebra (complete	e at MCC)4	MATH 105 College Algebra	4
*PHYS 1180 College Physics 1	4	PHY 221 Mechanics, Sound and Heat	
3. Humanities Requirement (see note b			(8 credits)
Complete a minimum of 8 credits from t		A minimum of 8 credits	
Arts, Creative Writing, Foreign Lang		Courses may transfer as equivalent cour	
Music, Philosophy, Theatre Arts, IN		General Education credit, or general tran	
4. Social Science Requirement (see not		A minimum of 8 credits	(8 credits)
Complete a minimum of 8 credits from			
Anthropology, Economics, Geograp			
or 2700, Political Science, Psycholo			
		om the following to satisfy EMU's Perspectives	
		000; INTL 2000, 2300; <b>Social Sciences</b> : ANTI	1 1000; GEOG 2000;
HIST 1260, 1270, 1700, 2420, 2520, 26	50; INTL 2000, 2010, 2500, 2	700; POLS 1600; SOSC 2010.	
Macomb CC Program Require	ments (49 credits)		(49 credits)
*CORE 1060 Industrial Computer Tech	nology4	ET 100 Intro to ET and ET 101 Intro to ET (	Computing 4
*ELEC 1161 & 1171 Electronic Technology	ogy 1 & 2 and (6)		, , , , , , , , , , , , , , , , , , ,
		ELEC 200 and ELEC 210 (6) Circuit Analys	sis I & II +410
		ELEC 300 Analog Circuit Analysis I	
		ELEC 218 Motors & Controls	
*ELEC 1211 Digital Electronics Basics	3	ELEC 214 Digital Circuit Analysis I	3
	otic Applications3	University Elective	3
*ELEC 2005 Discrete Amplifiers & Intro	to Op-amps (was 1191) 3	ELEC 215 Comp-Aided Electronics	3
ELEC 2010 Instrumentation 1 & Trans	sducer Theory3		
ELEC 2150 LabView Basics 1	3	University Elective	3
		University Elective	
* ELEC 2270 Microcontroller Programm	ning3	ELEC 320 Microcomputer Circuits	3
* ELEC 2400 Microprocessor Interfacing	g3	subs for COSC 246 Programming in C++	3
ELEC 2490 Instrumentation 2 Adv Op	Amps & Linear Int Cir3	University Elective	3
PHED 2000 or above (except 2080)	2	University Elective	2
EMU Requirements that May be Taken at Macomb or EMU		(27 Credits)	
*PRDF 1000 Fundamentals of Design	4	PDD 122 Engineering Graphics	4
		QUAL 320 Industrial Quality Control (3)+1	
		PHY 222 Electricity and Light	
*MECT 2640 Programmable Logic Con			
*CHEM 1170 General Chemistry 1			
*1 Complete one math sequence from:			
MATH 1760 (4) and 1770 (4) Anal (		MATH 120 (4) and 121 (4) Calculus I and	
(First Calculus course must be complete		OR at EMU students may choose:	
EET sequence at EMU.)	<b>J</b>	MATH 140 (4) and 141 (3) Applied Trig 8	& Calc for Tech I&II.
•	106_100	Credits to transfer to EMU	
CIECILO AL MACUIID	100-106	CIECILO LO LIGITOTE LO ENIO	100-108

<sup>\*</sup> Required for EMU's Electronic Engineering Technology program.

1 If completed at Macomb with a "C" or better, MATH 1410 or 1760 will satisfy EMU's Quantitative Reasoning Requirement.

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

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

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## Completion of the Electronic Engineering **Technology Program at EMU Major Requirements** (33 Credits) Engineering Product Information ...... 3 ELEC 326 Transform Circuit Analysis with Calc ............... 3 <sup>2</sup> ELEC 387 Co-op in Electronic Technology (LBC)............ 3 MET 312 Applied Dynamics Principles...... 3 Credits at EMU:.....33 \*Credits to Graduate:.....138 <sup>2</sup> Satisfies the Learning beyond the Classroom requirement. <sup>3</sup> Students may consult the program advisor for other writing intensive courses.

\* A minimum of 124 credits is required to graduate.

Suggested Sequence for completing the program: Students should consult with the EET Advisor to plan a program of study. MATH 121 or MATH 141 must be completed before registering for ELEC 310 Any Semester (6 credits) Winter Semester **Fall Semester** (9 credits) ELEC 415 Communication Circuits......3 MET 312 Applied Dynamics Principles......3 Winter Semester Engineering Product Information (ELEC 479)....3 CET 426 

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 Electronic 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] or MATH 140 or 120 at EMU]
  - 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: [ELEC 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. Although 40 hours at EMU is listed on the articulation guide, it may be possible to transfer additional courses from a community college. 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 Electronic 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.php.

### 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:**

Eastern Michigan University
Community College Relations
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