ELECTRONIC ENGINEERING TECHNOLOGY ARTICULATION AGREEMENT GUIDE

Henry Ford Community College –**AAS in Electrical Engineering Technology** Eastern Michigan University – **BS in Electronic Engineering Technology**

Henry Ford College Courses:

Eastern Michigan University Courses:

	ransfer Agreement (MTA) Require		credits) satisfied EMU's General Education Core Requirements and will be
			e Perspectives on a Diverse World course, one Learning beyond the
			d below for the MTA also satisfy program requirements at EMU and/or
			ist fulfill EMU's General Education program. For courses approved by
HFC to satisfy the	e MTA go to <u>HFC's website</u> .		
	English Composition		
	n the approved MTA list		University Elective
	ourse in English Composition or Communi		
* Choose one	from: ENG 132 or ENG 132H	3	WRTG 121 Composition II (pre-req for SET 350W)
3. A course in			
* MATH 180	Calculus I	5	MATH 120 Calculus I (sub for MATH 140)5
	es in Natural Sciences from different discip		
	Principles of General Inorganic Chemistry		CHEM 121/122 General Chemistry w/lab (4)+15
	General Physics II	4	PHY 222 Electricity and Light4
	es in Humanities from different disciplines		
Choose from	n the approved MTA list	6	University Electives6
6. Two course	es in Social Sciences from different discipli	nes	
Choose fron	n the approved MTA list	6	University Elective
If needed, comp	lete additional credits in any of the above c	ategories to s	atisfy the 30 credit minimum for the MTA
EMU's Perspect	ives on a Diverse World requirement: Comple	ete one course	from the following list:
			Humanities: ART 224, 225, 226, 227; ENG 243, 248; PHIL 201; WR
			2; HIST 113, 243, 252, 261; POLS 152; PSY 296; SOC 152, 251.
	plies, but does not satisfy the MTA: BBA 250;		
HFC Electr	ical Engineering Technology Program Re	equirements ((50 credits)
CIS 100	Introduction to Information Technology		IS 215 University Elective
ELEC 103	Basic Electricity		ELEC 000 University Elective
ELEC 106	Basic Electronics		ELEC 000 University Elective
* ELEC 115	Digital Circuits I		ELEC 214 Digital Circuit Analysis I
ELEC 120	Basic Hydraulics		ELEC 000 University Elective
ELEC 145	AC/DC Rotating Machinery		ELEC 000 University Elective
ELEC 185	Pneumatics		ELEC 000 University Elective
* ELEC 195	AC/DC Circuit Analysis		ELEC 200 Circuit Analysis I
* ELEC 200	Ladder Diagrams & Motor Controls		ELEC 218 Motors and Controls
ELEC 235	Siemens PLC/HMI Programming		CET 000 University Elective
ELEC 245	Programmable Controllers	3	CET 000 University Elective
ELEC 255	Instrumentation Systems		ELEC 000 University Elective
* ELEC 260	Automation Controls and Robotics		CET 427 Programmable Logic Controllers
ELEC 270	Instrumentation II LabVIEW Programming		SET 000 University Elective
Electrical Te	chnology Support		University Electives
	am Requirements that may be taken at H		
* ENGR 130	Introduction to Engineering		ET 100 Introduction to Engineering Technology
	v v		
* ENGR 232	Statics (3) and	7	MET 211 + DHV 221 Station + Machanian Sound & Heat 7
* PHYS 131 * MATH 192	General Physics I (4)		MET 211 + PHY 221 Statics + Mechanics, Sound & Heat
* MATH 183 * MATH 282	Calculus II		MATH 121 Calculus II (sub for MATH 141)5
* MATH 283	Linear Algebra		MATH 122 Elementary Linear Algebra
Credits at	HFC	98	Credits that Transfer to EMU 79

*Required for EMU's EET program. If not transferred from HFC, must be completed at EMU.

Sign up to use this articulation agreement. EMU will keep in touch with you and provide information and advising to you while you are still at the community college.

(9 credits)

(12 credits)

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Completion of the BS in Electronic Engineering Technology Program at EMU

Major Requ	uirements (4	45-46 credits)
CET 151	Intro to Computing in Engineering	g Tech 3
ELEC 210	Circuit Analysis II	
ELEC 300	Analog Circuit Analysis I	
ELEC 310	Analog Circuit Analysis II	3
ELEC 314	Digital Circuit Analysis II	
ELEC 320	Microcomputer Circuits	3
ELEC 326	Transform Circuit Analysis with C	alculus3
¹ ELEC 387L	4Co-op in Electronic Technology.	3
ELEC 415	Communication Circuits	3
ELEC 420	Advanced Microprocessors	3
ELEC 426	Control Systems Engineering	3
ELEC 450	Senior Design Project	3
QUAL 320	Industrial Quality Control	
SET 350W	Engineering Communication	3
Choose one	e course from the following:	
CET 120	Engr Graphics Essentials w/Elect	ronics Apps
CET 220	Computer Aided Electronics	
CET 252	Engineering Programming	
COSC 24	6 Programming in C++	

Minimum Credits at EMU:	45-46
Transfer Credits	79
Credits to Graduate:	124

Suggested Sequence for completing the program:

Courses may not be offered every semester. Consult with the program coordinator to develop a program of study.

MATH 120 (MATH 180 at HFC) is pre or co-requisite to ELEC 210. MATH 121 (MATH 183 at HFC) is pre or co-requisite to ELEC 310

Fall Semest	er	(12 credits)
CET 151	F,W	
ELEC 300	F, pre-req: ELEC 210	3
ELEC 314	F, pre-req: ELEC 214	3
ELEC 320	F, pre-reqs: ELEC 214 and CET 15	13

Winter Semester

ELEC 210	W, pre-reg: ELEC 200	Ś
ELEC 310	W, pre-req: ELEC 300	3
ELEC 420	W, pre-req: ELEC 320	3

Fall Semester

1

ELEC 326	F, pre-reqs: ELEC 210 and MATH 12	203
ELEC 415	F, pre-req: ELEC 310	3
QUAL 320	F, W	3
Choose one	e from: CET 120, 220, 252; COSC 246	63

Winter Semester (12 credits)

ELEC 387L	4F,W	3
ELEC 426	W, pre-reqs: ELEC 326 and MATH 121	3
ELEC 450	W, pre-reqs: ELEC 420 and 415	3
SET 350W	F, W, pre-req: WRTG 121	3

¹ ELEC 387 may be waived if student has work experience in this field, however, one LBC experience or course must be completed to graduate. See program advisor for suggestions.

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Additional Information:

- Each institution will determine the satisfaction of their individual program and degree requirements. Both
 institutions agree to accept transferrable courses from each other and from other regionally accredited
 institutions. HFC courses indicated with an * are required for EMU's BS in Electronic Engineering
 Technology program. Substitutions for these courses must be approved by the EMU program coordinator.
- 2. Students with the MTA endorsement on their community college transcript have satisfied EMU's General Education Core Requirements and will be required to complete only the General Education Application Requirements of one Perspectives on a Diverse World course, one Learning beyond the Classroom experience, and a Writing Intensive course in the major. The Perspectives on a Diverse World requirement may be satisfied at the community college as part of the MTA requirements.

To use the Michigan Transfer Agreement (MTA), students must have an official community college transcript, with the "MTA Satisfied" endorsement sent to EMU's Admissions Office. Students who do not have "MTA Satisfied" on their community college transcript, will be required to satisfy EMU's general education requirements as listed in the Undergraduate Catalog. The MTA may be completed after admission to EMU, however, students should inform advisors or they may be advised to complete additional courses for the general education program. If already on the transcript, the MACRAO designation will be accepted at EMU after August 2019.

- 3. Only courses with a grade of "C" or better (2.0 on a 4.0 scale) will be accepted for transfer to either institution.
- 4. Under this Agreement, the 60 hour rule at a four year college level is waived and a minimum of 45 semester hours must be completed at the four-year college level, of which 30 hours must be completed at EMU, with at least 15 hours at the 300- level or above. Of the last 30 semester hours prior to graduation, at least 10 hours must be completed 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 satisfy all admission requirements at the time of application for admission to EMU, including submitting transcripts from all previously attended colleges. HFC 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 before applying to EMU. To facilitate advising and the evaluation of transcripts, <u>sign up for this articulation</u> <u>agreement</u>, and bring a copy of this articulation guide to all advising sessions.
- 7.

Effective Dates: September 1, 2020 until August 31, 2023

This is a renewal of an agreement made in April 2006 and renewed in September 2009, January 2014, and updated in September 2014. This agreement is consistent with the 2020-2021 catalog. Students have until summer 2028 to graduate from Eastern Michigan University following this Agreement. In the event that a student does not complete the program within seven years, they may be required to have their credits reevaluated using the requirements of the current articulation guide.

Contacts:

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