

ELECTRONIC ENGINEERING TECHNOLOGY ARTICULATION AGREEMENT GUIDE

Henry Ford College– AAS in Electrical Technology

Eastern Michigan University – BS in Electronic Engineering Technology

Henry Ford College Courses:	Transfer to Eastern Michigan University as:
Michigan Transfer Agreement (MTA) Requirements (32 credits)	
Students with an 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. <u>Courses listed below for the MTA will also satisfy degree or program requirements at HFC or EMU.</u> Students who started before fall 2014 may continue to follow the MACRAO Agreement until the end of August 2019. MACRAO versions of articulation guides are posted online at www.emich.edu/ccr/artguide.php . For courses approved to satisfy the MTA go to https://www.hfcc.edu/sites/main.aegirprod.hfcc/files/attachments/hfc_mta_july_2014.pdf .	
1. A course in English Composition Choose from the approved MTA list.....	3 University elective
2. A second course in English Composition or Communication Choose from the approved MTA list.....	3 University elective
3. A course in Mathematics * MATH 180 Calculus I.....	5 MATH 120 Calculus I (4)+1 (or MATH 140)
4. Two courses in Natural Sciences from different disciplines (one lab required)	
* PHYS 131 General Physics	4 PHY 221 Mechanics, Sound and Heat
* CHEM 141 Principles of General Inorganic Chem	5 CHEM 121/122 General Chemistry w/lab (4)+1
5. Two courses in Humanities from different disciplines Choose from the approved MTA list.....	6 University electives
6. Two courses in Social Sciences from different disciplines Choose from the approved MTA list.....	6 University electives
7. If needed, complete additional courses in any of the above categories to satisfy the 30 credit minimum for the MTA.	
EMU's Perspectives on a Diverse World requirement: Complete <u>one</u> course from the following list:	
<i>Courses on this list will satisfy an MTA area above: Natural Science: BIO 138; Humanities: ART 224, 225, 226, 227; ENG 243, 248; WR 233, 236; Social Science: ANTH 131, 151, 152, 154; GEOG 132; HIST 113, 243, 252, 261; POLS 152; SOC 152, or 251; WR 233, 236</i>	
HFC Program Requirements 47 credits)	
ELEC 103 Basic Electricity	4 University Elective
ELEC 106 Basic Electronics	3 University Elective
* ELEC 115 Digital Circuits I.....	3 ELEC 214 Digital Circuit Analysis I
* ELEC 120 Basic Hydraulics (3) and * ELEC 255 Instrumentation Systems (3).....	6 (ET 100 and MET 312 will be waived)
ELEC 145 AC/DC Rotating Machines.....	3 University Elective
* ELEC 155 Analog Electronics I.....	3 ELEC 300 Analog Circuit Analysis I
ELEC 185 Pneumatics	3 University Elective
* ELEC 195 AC/DC Circuit Analysis.....	3 ELEC 200 Circuit Analysis I
* ELEC 200 Ladder Diagrams & Motor Controls	3 ELEC 218 Motors and Controls.....
* ELEC 245 Program Logic Controllers.....	3 CET 427 Programmable Logic Controllers
ELEC 260 Automation Controls & Robotics.....	3 University Elective
* ELEC 295 Microprocessor Systems	3 ELEC 215 Computer Aided Electronics
Program Electives.....	7 University Electives
Computer Literacy Requirement	0-3 University Elective
EMU Requirements that may be taken at HFC or EMU (21 credits)	
<i>Students who want full time enrollment at EMU should complete at least two courses below at EMU. Calculus II is prerequisite to EMU courses.</i>	
* MATH 183 Calculus II.....	5 MATH 121 Calculus II (4)+1 (or MATH 141)
* MATH 283 Linear Algebra	3 MATH 122 Elementary Linear Algebra.....
* CIS 170 "C" Programming	3 Subs for COSC 246 Programming in C++
* DRAF 110 Intro Indust Drafting or DRAF 120 Intro to CAD	3 PDD 122 Engineering Graphics.....
* MPS 150 SPC in Manufacturing.....	3 QUAL 320 Industrial Quality Control
* PHYS 132 General Physics cont.....	4 PHY 222 Electricity and Light
¹Credits at HFC:.....	100 Credits that transfer to EMU.....

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

¹ All of the courses completed with a "C" or better will transfer to EMU, but no more than 94 credits will be applied toward graduation at EMU.

Sign up with us: if you let us know you are using this articulation agreement we can stay in touch with you and provide information and advising to you while you are still at your community college. Sign up at: www.emich.edu/ccr/trackingssystem/Enter.php

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Completion of the Electronic Engineering Technology Program at EMU

Major Requirements (30-33 credits)

ELEC 210	Circuit Analysis II	3
ELEC 310	Analog Circuit Analysis II	3
ELEC 314	Digital Circuit Analysis II	3
ELEC 320	Microcomputer Circuits	3
ELEC 326	Transform Circuit Analysis with Calc	3
¹ ELEC 387	Co-op in Electronic Technology (LBC).....	0-3
ELEC 415	Communication Circuits.....	3
ELEC 420	Advanced Microprocessors	3
ELEC 426	Control Systems Engineering	3
ELEC 450	Senior Design Project.....	3
SET 350W	Applied Technical Writing	3

Minimum Credits at EMU:30

Transfer Credits.....94

²Minimum Credits to Graduate:124

¹ ELEC 387 may be waived, however, one LBC experience or course must be completed to graduate. See program advisor for suggestions.

² A minimum of 124 credits is required to graduate.

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
COSC 246 (CIS 170 at HFC) is pre-requisite for ELEC 320*

Winter Semester (12 credits)

ELEC 210	Circuit Analysis II	3
ELEC 310	Analog Circuit Analysis II.....	3
ELEC 314	Digital Circuit Analysis II	3
SET 350W	Applied Technical Writing	3

Fall Semester (9 credits)

ELEC 320	Microcomputer Circuits.....	3
ELEC 326	Transform Circuit Analysis with Calc	3
ELEC 415	Communication Circuits.....	3

Winter Semester (9 credits)

ELEC 420	Advanced Microprocessors.....	3
ELEC 426	Control Systems Engineering	3
ELEC 450	Senior Design Project	3
ELEC Co-op or other LBC experience.....		0-3

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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 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. HFC courses indicated with an * are required for EMU's Electronic Engineering Technology Program.
2. Students whose transcripts have the "MTA Satisfied" endorsement will only be required to complete one "Perspectives on a Diverse World" course, one "Learning Beyond the Classroom" (LBC) experience, and a Writing Intensive course in the major. The Perspectives on a Diverse World requirement may be transferred to EMU.

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 their advisor in order to receive appropriate advising.

3. Only courses with a grade of "2.0" or better (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, 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 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 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.

Effective Dates: January 1, 2014 until December 31, 2016.

This is a renewal of an agreement made in April 2006 and renewed in 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 Henry Ford College will have an additional three years to be admitted to EMU under the terms of this agreement.

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Eastern Michigan University

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