



EXHIBIT A - Articulation Guide
Henry Ford College
 Electrical/Computer Associate in Applied Science
University of Michigan - Dearborn
Bachelor of Science in Engineering in Electrical Engineering
Effective: April 1, 2023 to March 31, 2028



RECOMMENDED COURSES BY MAJOR

Students need not complete all recommended coursework prior to transfer.

Henry Ford College Electrical/Computer Associate in Applied Science degree and the University of Michigan Dearborn Bachelor of Science in Engineering in Electrical Engineering

Engineering	HFC Course / Title	UMD Equivalent	Meets DDC	UMD Major Requirement
GENERAL EDUCATION (29-30 credits)				
MTA ENGLISH COMP/COMMUNICATIONS (6 credits)	ENG 131: Introduction to College Writing ENG 135: Business and Technical Writing	COMP 105 COMP 270	✓ ✓	✓ ✓
MTA SOCIAL SCIENCE (6 credits)	BEC 151 or 152 Behavioral and Social Sciences Course	ECON 201 or ECON 202 Behavioral and Social Sciences Course	✓ ✓	✓ ✓
MTA HUMANITIES & FINE ARTS (6 credits)	Humanities and Arts Course Humanities and Arts Course	Humanities and Arts Course Humanities and Arts Course	✓ ✓	✓ ✓
MTA MATHEMATICS (3-4 credits)	MATH 180: Calculus I	MATH 115	✓	✓
MTA NATURAL SCIENCES (7-8 credits, course with lab)	CHEM 141: Prin of Gen & Inorganic Chem I PHYS 231: Engineering Physics I	CHEM 134 PHYS 150	✓ ✓	✓ ✓
Total MTA Credits		33		
COLLEGE DEGREE REQUIREMENT				
REQUIRED COURSES	MATH 183: Calculus II MATH 275: Discrete Math MATH 280: Calculus III MATH 288: Diff Eq + Linear	Math 116 ECE 276/MATH 275 Math 215 Math 228		✓ ✓ ✓ ✓
REQUIRED COURSES	PHYS 232: Engineering Physics II	PHYS 152		✓
REQUIRED COURSES	ENGR 130: Intro to Engr. and ENGR 125: Intro to Computation for Engr. ENGR 240: Circuits ENGR 232: Statics and ENGR 235: Mechanics of Materials	ENGR 100 ECE 210 ME 260		✓ ✓ ✓
Total Degree Credits		40		
Total Associates Degree Credits		73		



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COURSES TO BE TAKEN AT UMD

Requirement Description	UMD Course / Title	Credit Hours	Meets DDC	UMD Major Requirement
GENERAL EDUCATION REQUIREMENT*				
INTERSECTIONS	Take ONE Intersections DDC Courses	3	✓	
Total General Education Requirement		3		
UPPER LEVEL TECHNICAL ELECTIVES	ECE 270: Computer Methods	4		
	ECE 273: Digital Systems	4		
	ECE 311: Electronic Circuits 1	4		
	ECE 3171: Analog and Discrete Signals	4		
	ECE 3731: Microproc.& Embed. Sys	4		
	ECE 385: Elec Materials	3		
	ECE 460: Automatic Control	4		
	IMSE 317: Prob and Stat	3		
	ENT 400: Entrepreneurial Thinking	3		✓
	ECE 450: Analog and Digital Comm	4		
	ECE 480: Digital Processing	4		
	ECE 4951: System Design	3		
	ECE 4981: Senior Design 1	2		
	ECE 4983: Senior Design 2	2		
	Professional Elective	4		
	Professional Elective	4		
	Technical Elective	3		
Total Major Requirement		59		
Total Credits to be Taken at UMD		62 Credits		