

EXHIBIT A - Articulation Guide

Henry Ford College

Electrical/Computer Associate in Applied Science

University of Michigan - Dearborn

Bachelor of Science in Engineering in Robotics 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 Robotics Engineering

Requirement Description	HFC Course / Title	UMD Equivalent	Meets DDC	UMD Major Requirement
ENERAL EDUCATION (29-30 credits)				
MTA ENGLISH COMP/COMMUNICATIONS (6 credits)	ENG 131: Introduction to College Writing	COMP 105	√	√
	ENG 135: Business and Technical Writing	COMP 270	√	√
MTA SOCIAL SCIENCE (6 credits)		ECON 201 or ECON 202		
	BEC151 or 152	Behavioral and Social	√	√
	Behavioral and Social Sciences Course	Sciences Course	√	√
MTA HUMANITIES & FINE ARTS (6 credits)		Humanities and Arts		
		Course		
	Humanities and Arts Course	Humanities and Arts	√,	√.
	Humanities and Arts Course	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	CHEM 134	√	√
	PHYS 231: Engineering Physics I	PHYS 150	√	√
	Total MTA Cred	its 33		
OLLEGE DEGREE REQUIREMENT				
REQUIRED COURSES	Math 183: Calculus II	Math 116		√.
	Math 280: Calculus III	Math 215		√.
	MATH 275: Discrete Math	MATH 275/ ECE 276		√.
	Math 288: Diff Eq + Linear	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 100		√
	ENGR 201: Science of Materials	ENGR 250		
	ENGR 232: Statics and ENGR 235: Mechanics of Materials	ME 260		√.
	ENGR 240: Circuts	ECE 210		√
	Total Degree Cred	its 39		
	Total Associates Degree Cred	its 72		



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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*				
NTERSECTIONS	Take ONE Intersections DDC Courses		√	
	Total General Education Rec	quirement 3		
AJOR REQUIREMENT				
CORE COURSES	ECE 270: Computer Methods			
	ECE 273: Digital Systems			
	ECE 311: Electronics			
	ECE 3171: Analog and Discrete Sys.			
	ECE 3731: Microprocessors			
	ECE 347: Applied Dynamics			
	ECE 3641: Robotics 1			
	ECE 460: Operating Systems			√
	ECE 370: Advanced Software Tech.			'
	IMSE 381: Industrial Robots			
	ECE 4641: Mobile Robots			
	ECE 4987: RE Senior Design 1			
	ECE 4988: RE Senior Design 2			
	ENT 400: Entrepreneurship			
	Prof Elect (Upper Level)			
	Prof Elect (Upper Level)			
	Total Core Cour	se Credits 58-59		
	Totall Credits to be Take	en at UMD 61-62 Credits		