



ASSOCIATE DEGREE PROGRAM INFORMATION

Institution	Henry Ford College
Degree/Program	AAS Pre-Engineering: Mechanical/Industrial
Credits Required	78

MICHIGAN TRANSFER AGREEMENT (MTA)

The MiTransfer Pathways builds on the Michigan Transfer Agreement (MTA). The MTA allows transfer students to select designated courses to complete a minimum of 30 credit hours fulfilling MTA distribution requirements. Students following MiTransfer Pathway agreements should complete the MTA in accordance with the sending institutions' course designations and consider whether any recommended MiTransfer Pathways major-specific courses will "double count" to fulfill MTA distribution requirements in planning their transfer. More information about the MTA is available at www.mitransfer.org.

The MTA Mathematics distribution area allows students to complete one of three math pathways. The Mechanical Engineering MiTransfer Pathways faculty recommended that students complete a course in the Calculus pathway.

MiTRANSFER PATHWAYS COURSES

These courses are commonly agreed upon for transfer in this program around the state among participating institutions.

Pathway Course	Subject/ Course Number	Course Title	Credit Hrs
Calculus I	MATH-180	Calculus I	5
Calculus II	MATH-183	Calculus II	5
Calculus III	MATH-280	Calculus III	5
Differential Equations*	MATH-288	Differential Equations	5
Physics I (Calculus-based, w/lab)	PHYS-231	Engineering Physics I	5
Physics II (Calculus-based, w/lab)	PHYS-232	Engineering Physics II	5
Chemistry 1 (w/lab)	CHEM-141	Principles of General and Inorganic Chemistry I	5
Statics	ENGR-232	Statics	3
Dynamics	ENGR-233	Dynamics	3
Mechanics of Solids/Strength of Materials (no lab required)	ENGR-235	Mechanics of Materials	2
<i>*Minimum 4 credits, linear algebra must be covered</i>			

REMAINING DEGREE REQUIREMENTS

These are additional associate degree requirements that are not MTA or MiTransfer Pathways courses. They might not be accepted for transfer by universities participating in the agreement.

General Education or Program Requirement	Subject/ Course Number	Course Title	Credit Hrs
Intro to Engineering	ENGR-130	Introduction to Engineering	3
Introduction to Material Science	ENGR-201	Science of Materials	3
Design and Drafting	ENGR-121	Engineering Design and 3D Printing	3
Computer Technology	ENGR-125	Introduction to Computation for Engineers	3
Second Chemistry	CHEM-142	General Chemistry II	5
		Remaining hours	16



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Statics			
Dynamics			
Mechanics of Solids/Strength of Materials (no lab required)			

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Computer Technology	ENGR-125	Introduction to Computation for Engineers	3
General electives	Any course	Elective	1