



BACHELOR'S DEGREE PROGRAM INFORMATION

Institution	Michigan Technological University
Degree/Program	Mechanical Engineering
Credits Required	128

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.mittransfer.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	MA1160 or MA1161	Calculus with Technology I or Calculus Plus with Technology I	4 or 5
Calculus II	MA2160	Calculus with Technology II	4
Calculus III	MA3160	Multivariable Calculus with Technology	4
Differential Equations <i>Minimum 4 credits, linear algebra must be covered</i>	MA2320 or MA2330 AND MA3520 or MA3530	Elementary Linear Algebra or Introduction to Linear Algebra AND Elementary Differential Equations or Introduction to Differential Equations	2 or 3 AND 2 or 3
Physics I (Calculus-based, w/lab)	PH1100 PH2100	Physics by Inquiry I (Lab) University Physics I-Mechanics	1 3
Physics II (Calculus-based, w/lab)	PH1200 PH2200	Physics by Inquiry II (Lab) Univ. Physics II-Electricity & Magnetism	1 3
General Chemistry I (w/lab)	CH1150 CH1151	University Chemistry I University Chemistry Lab I	3 1
Statics	MEEM2110	Statics	3
Dynamics	MEEM2700	Dynamics	3
Mechanics of Solids/Strength of Materials (no lab required)	MEEM2150	Mechanics of Materials	3

REMAINING DEGREE REQUIREMENTS

These are required, recommended, or optional courses that transfer students could complete at a community college to fulfill degree requirements at the university/ receiving institution.

General Education or Program Requirement	Subject/ Course Number	Course Title	Credit Hrs
Program Requirement	ENG1101	Engineering Analysis & Problem Solving	3
Program Requirement	ENG1102	Engineering Modeling and Design	3
Program Requirement	MSE2100	Intro to Materials Science & Engineering	3
Program Requirement	MEEM2201	Introductory Thermodynamics	3
Program Requirement	MEEM2901	Mechanical Engineering Practice I	2
Program Requirement	MEEM2911	Mechanical Engineering Practice II	3

