



MECHANICAL ENGINEERING MITRANSFER PATHWAY

BACHELOR'S DEGREE PROGRAM INFORMATION

Institution	Michigan Technological University
Degree/Program	B.S. in 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 among participating institutions.

Pathway Course	Subject/ Course Number	Course Title	Credit Hrs
Calculus I	MA 1160 or MA 1161	Calculus with Technology I or Calculus Plus with Technology I	4 or 5
Calculus II	MA 2160	Calculus with Technology II	4
Calculus III	MA 3160	Multivariable Calculus with Technology	4
Differential Equations*	MA 2320 or MA 2330 AND MA 3520 or MA 3530	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)	PH 1100 PH 2100	Physics by Inquiry I (Lab) University Physics I - Mechanics	1 3
Physics II (Calculus-based, w/lab)	PH 1200 PH 2200	Physics by Inquiry II (Lab) Univ Physics II – Electricity & Magnetism	1 3
Chemistry 1 (w/lab)	CH 1150 CH 1151	University Chemistry I University Chemistry Lab I	3 1
Statics	MEEM 2110	Statics	3
Dynamics	MEEM 2700	Dynamics	3
Mechanics of Solids/Strength of Materials (no lab required)	MEEM 2150	Mechanics of Materials	3

**Minimum 4 credits, linear algebra must be covered*

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. Add additional lines as necessary.

General Education or Program Requirement	Subject/ Course Number	Course Title	Credit Hrs
Program Requirement	ENG 1101	Engineering Analysis & Problem Solving	3
Program Requirement	ENG 1102	Engineering Modeling and Design	3
Program Requirement	MSE 2100	Intro to Materials Science & Engineering	3

Program Requirement	MEEM 2201	Introductory Thermodynamics	3
Program Requirement	MEEM 2901	Mechanical Engineering Practice I	2
Program Requirement	MEEM 2911	Mechanical Engineering Practice II	3