MECHANICAL ENGINEERING MITRANSFER PATHWAY

BACHELOR'S DEGREE PROGRAM INFORMATION

Institution	**Northern Michigan University**
Degree/Program	**BS Mechanical Engineering Technology**
Credits Required	**126**

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	MA 161	Calculus I	4
Calculus II	MA 163	Calculus II	4
Calculus III	MA 265	Calculus III	4
Differential Equations*	MA 361	Differential Equations	3
Physics I (Calculus-based, w/lab)	PH201 or, PH220	College Physics I or, Introductory Physics I	5
Physics II (Calculus-based, w/lab)	PH 202 or PH 221	College Physics II or, Introductory Physics II	5
Chemistry 1 (w/lab)	CH 105 or CH 111	Chemical Principles or, General Chemistry I	4 or, 5
Statics	MET 211	Statics	4
Dynamics	MET 310	Dynamics	4
Mechanics of Solids/Strength of Materials (no lab required)	MET 311	Strength of Materials	4
**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. Specifically, universities should include courses like Introduction to Engineering, and additional Linear Algebra courses as applicable.

General Education or Program Requirement	**Subject/ Course Number**	**Course Title**	**Credit Hrs**
Program Requirement (rec'd)	MET 213	Material Science I	3
Program Requirement (rec'd)	MA 211	Linear Algebra	3