MECHANICAL ENGINEERING MITRANSFER PATHWAY

BACHELOR'S DEGREE PROGRAM INFORMATION

Institution	**University of Detroit Mercy**
Degree/Program	**BME/Mechanical Engineering**
Credits Required	**142**

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	MTH 1410	Analytic Geometry & Calculus I	4
Calculus II	MTH 1420	Analytic Geometry & Calculus II	4
Calculus III	MTH 2410	Analytic Geometry & Calculus III	4
Differential Equations*	MTH 3720	Differential Equations with Linear Algebra	4
Physics I (Calculus-based, w/lab)	PHY 1600 + PHY 1610	General Physics I + Physics Lab I	4
Physics II (Calculus-based, w/lab)	PHY 1620 + PHY 1630	General Physics II + Physics Lab II	4
Chemistry 1 (w/lab)	CHM 1070 + CHM 1100	General Chemistry I + Chemistry Lab 1	4
Statics	ENGR 3120	Statics	3
Dynamics	ENGR 3130	Dynamics	3
Mechanics of Solids/Strength of Materials (no lab required)	ENGR 3260	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. 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**
Intro to Engineering type course	ENGR 1000	Engineering Ethics	2
Intro to Engineering type course	ENGR 1080	Fundamentals of Engineering Design	2
Course meeting IT4 "Human Difference" requirement	Varies	Varies	3