



MECHANICAL ENGINEERING MiTRANSFER PATHWAY

BACHELOR'S DEGREE PROGRAM INFORMATION

Institution	Oakland University
Degree/Program	Mechanical Engineering, B.S.E.
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.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 1554	Calculus I	4
Calculus II	MTH 1555	Calculus II	4
Calculus III	MTH 2554	Multivariable Calculus	4
Differential Equations	APM 2559	Intro to Differential Equations	4
Physics I (Calculus-based, w/lab)	PHY 1510/1100	Introductory Physics lec/lab	5
Physics II (Calculus-based, w/lab)	PHY 1520/1110	Introductory Physics lec/lab	5
Chemistry 1 (w/lab)	CHM 1440/1470	General Chemistry lec/lab	5
Statics	N/A		-
*Dynamics	ME 3200	Engineering Mechanics	4
*Mechanics of Solids/Strength of Materials (no lab required)	ME 3250	Mechanics of Materials	4
Computer Programming	EGR 1400	Computer Problem Solving in Engineering & Computer Science	4
Intro CAD/Graphics	EGR 1200	Engineering Graphics & CAD	1
TOTAL CREDITS			44
*Requires an additional one credit lab course at OU			

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
General Education	ECN 2000 or 2010	Macroeconomics or Microeconomics	4
General Education	Approved Math/Science Elective	Varies	4-5
Program Requirement	MTH 2775	Linear Algebra	4
TOTAL CREDITS			12-13