



MECHANICAL ENGINEERING MiTRANSFER PATHWAY

BACHELOR'S DEGREE PROGRAM INFORMATION

Institution	Wayne State University
Degree/Program	Bachelor of Science – Mechanical Engineering
Credits Required	123

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	MAT 2010	Calculus I	4
Calculus II	MAT 2020	Calculus II	4
Calculus III	MAT 2030	Calculus III	4
Differential Equations*	MAT 2150 or MAT 2250 + 2350	Diff. Equations/Matrix Algebra Linear Algebra + Diff. Equations	4 or 6
Physics I (Calculus-based, w/lab)	PHY 2170 or PHY 2175	University Physics I Physics for Engineers I	4 or 4
Physics II (Calculus-based, w/lab)	PHY 2180 or PHY 2185	University Physics II Physics for Engineers II	4 or 4
Chemistry 1 (w/lab)	CHM 1070 or CHM 1220 or CHM 1100	<i>See Advising Notes</i> General Chemistry I	4 or 4
Statics	ME 2410	Statics	3
Dynamics	ME 3400	Dynamics	3
Mechanics of Solids/Strength of Materials (no lab required)	ME 2420	Elementary Mechanics of Material	3
<i>*Minimum 4 credits, linear algebra must be covered</i>			

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	BE 1500	Intro to Programming Computation for Engineers	3
Program Requirement	BE 1200	Basic Engineering: Design in Engineering	3
Program Requirement	PHI 1120	Professional Ethics	3
Program Requirement	ENG 3060	Technical Communications II	3

ADVISING NOTES

Please indicate any advising notes for students following this transfer pathway at your institution.

Starting in the Fall 2021 term, the Department of Chemistry will move to a new curriculum that includes a traditional two-semester general chemistry sequence completed prior to organic chemistry. This will put Wayne State in line with the general chemistry and organic chemistry sequence taught at most colleges and universities across the country.

The new general chemistry courses will be offered under the course numbers CHM 1100/1130 (General Chemistry I, lecture and laboratory) and CHM 1140/1150 (General Chemistry II, lecture and laboratory).

The older chemistry courses (CHM 1070 or 1220) will continue to satisfy the Chemistry I (w/lab) requirement for mechanical engineering.