MITRANSFER PATHWAYS

ARTICULATION AGREEMENT

MECHANICAL ENGINEERING

OVERVIEW

In Fall 2017, the Michigan Community College Association (MCCA) and the Michigan Association of State Universities (MASU) received a one-time appropriation from the state of Michigan to support the development of multi-institutional associate to bachelor's degree transfer pathways. MCCA and MASU in partnership with the Michigan Independent Colleges and Universities (MICU) and the Michigan Association of Collegiate Registrars and Admissions Officers (MACRAO) convened the Transfer Steering Committee with more than 30 representatives from colleges and universities from across the state to develop the MiTransfer Pathways project. The MiTransfer Pathways project plan selected 12 programs with high enrollment and/or high labor market demand. The goal of the project was to build multi-institutional transfer pathways so students can enroll at any participating community college, complete an associate degree, transfer, and complete a bachelor's degree in the identified program of study.

In fall 2018 and spring of 2019, mechanical engineering faculty from community colleges, public universities, and independent colleges and universities in Michigan met to identify courses that are required, recommended, optional or appropriate in the first and second year of the bachelor's degree programs at all participating universities. We refer to these commonly required courses as "MiTransfer Pathways courses." The MiTransfer Pathways courses in mechanical engineering are:

- Calculus I
- Calculus II
- Calculus III
- Chemistry I (w/lab)
- Differential Equations (minimum 4 credits, must cover linear algebra)
- Dynamics
- Mechanics of Solids/Strength of Materials (no lab required)
- Physics I (Calculus-based, w/lab)
- Physics II (Calculus-based, 1/lab)
- Statics

These courses have been reviewed by receiving institutions and will be accepted for transfer and applied to the mechanical engineering program at all participating institutions (unless otherwise indicated in this agreement). The participating institutions agreed to establish direct equivalencies between these courses. Direct equivalencies are established when a course at the sending institution transfers as a direct equivalent to the course at the receiving institution and the credit is transcripted as a department and number (i.e. MTH 105) instead of department and no number (i.e. MTH GEN or MTH 100X). Direct

equivalency is preferred because students can see how the transferred course applies to the degree program.

In addition to identifying MiTransfer Pathways courses as described above, the faculty also identified Remaining Degree Requirements. The Remaining Degree Requirements identified by receiving institutions (universities) include courses that students can transfer from the community college but were not identified as MiTransfer Pathways courses because they were not accepted at every participating receiving institution. The Remaining Degree Requirements identified by sending institutions (community colleges) included courses or requirements that meet community college degree requirements but will not necessarily transfer to participating universities. Participating institutions submitted program worksheets (see Appendices A and B) that outlined these courses. Participating institutions will use these worksheets to communicate requirements to students.

TERMS OF THE AGREEMENT

- 1. This agreement is effective on August 3, 2020.
- 2. Participating institutions agree that all courses must be completed with a grade of C (2.0) or better unless otherwise indicated by the receiving institution.
- 3. Participating institutions agree that to use this agreement, students must apply and be admitted to the participating institution and to the program if the program requires secondary admission.

 Receiving institutions agree to communicate the application process for institution and program admissions for transfer students on a publicly available website and through advising.
- 4. Participating institutions agree to accept the Michigan Transfer Agreement (MTA) in accordance with the institutions' MTA policy.
- 5. Participating institutions agree to award equivalent credit for MiTransfer Pathways courses (see Course Equivalency Matrices in Appendix C) and apply courses to the bachelor's degree requirements unless otherwise noted in the Course Equivalency Exceptions documented in Appendix D. If no direct equivalent exists because the course is not offered or required at the receiving institution, then the receiving institution agrees to accept the course and apply the course toward the Mechanical Engineering degree program. If the community college does not offer the course, the community college should communicate this information to students on a publicly available website and/or the Michigan Transfer Network at mitransfer.org and help students find an equivalent

course at other institutions.

- 6. Participating institutions agree to upload course equivalencies for MiTransfer Pathways courses to the Michigan Transfer Network at mitransfer.org.
- 7. Receiving institutions agree to accept the Remaining Degree Requirements as outlined in the receiving institutions' Program Worksheet included in Appendix B. Participating institutions agree to work toward awarding direct equivalency for Remaining Degree Requirements, apply courses to the bachelor's degree requirements, and add course equivalencies to the Michigan Transfer Network.
- 8. Sending institutions agree that Remaining Degree Requirements identified by community colleges that are not required by the receiving institution may not transfer or may not apply to bachelor's degree requirements at the receiving institution.
- 9. Alternative credit awarded by the sending institution through AP, CLEP, IB, credit earned through credit for prior learning, or other means may be accepted and applied to the degree program at the discretion of the university. Sending institutions may apply alternative credit to the associate degree, but students should confirm whether or not credit is acceptable at receiving institutions.
- 10. Students may earn credit from multiple institutions as long as the course was completed at a sending institution that is participating in the agreement. There is no assurance that credits earned from institutions not participating in the agreement will apply.
- 11. Participating institutions agree to maintain up-to-date course equivalencies and information about their participation with this agreement. This information will be made publicly available through their own systems and on the mitransfer.org website.
- **12.** In the performance of their respective duties and obligations under this Agreement, each Party is an independent contractor, and neither is the agent, employee, or servant of the other. Each is responsible only for its own conduct.

MAINTENANCE AND REVIEW

Modifications to Worksheets and Equivalencies

Colleges and universities will use the worksheets in Appendix A and B as the basis to advise transfer students. Any changes to program worksheets in Appendix A and B should be communicated to participating institutions as soon as possible to avoid students completing courses that will not transfer. Changes may include:

- Adding programs in the pathway (e.g., add Environmental Studies to the Biology pathway);
- Modifying, removing, or adding MiTransfer Pathways courses;
- Modifying, removing, or adding courses to the Remaining Degree Requirements;
- Materially modifying the educational experience or content of the MiTransfer Pathways courses.

If any of the aforementioned changes occur, participating institutions are expected to communicate with their sector representative from the Michigan Association of State Universities (MASU), Michigan Community College Association (MCCA), or Michigan Independent Colleges and Universities (MICU). These changes will be vetted among participating institutions, including reviewing and establishing equivalencies where needed. Changes to the worksheets and equivalencies will be documented and available at mitransfer.org website.

Joining the Agreement

Institutions can join the agreement at any time and should contact their sector representative at the Michigan Association of State Universities, the Michigan Community College Association, or the Michigan Independent Colleges and Universities. Institutions that join the agreement will be required to comply with the terms of the agreement.

Renewing the Agreement

This agreement will be up for renewal on June 30, 2022. The Michigan Community College Association, the Michigan Association of State Universities, and the Michigan Independent Colleges and Universities agree to coordinate renewal of this agreement during the 2021-2022 academic year. Participating institutions may choose to leave the agreement at that time.

SIGNATURES

By signing this agreement, institutions agree to the terms of the agreement and maintenance and review.

MICHIGAN COMMUNITY COLLEGE ASSOCIATION

SIGNATURE	NAME	TITLE	INSTITUTION
Deborah Bayer	Deborah Bayer	Vice President of Instruction	Alpena Community College
Dr. Don MacMaster	Dr. Don MacMaster	President	Alpena Community College
James Berles	James Berles	Faculty	Alpena Community College
Jeremy Belanger	Jeremy Belanger	Executive Director of Transfer & Advising	Bay College
Jean Goodnow, Ph.D.	Jean Goodnow, Ph.D.	President	Delta College
Reva Curry, Ph.D.	Reva Curry, Ph.D.	Vice President of Instruction/Learning Services	Delta College
David H. Devier, Ph.D.	David H. Devier, Ph.D.	President	Glen Oaks Community College
Míchael M. Goldín, Ph.D.	Michael M. Goldin, Ph.D.	Vice President of Academics	Glen Oaks Community College
David Darrow	David Darrow	Vice President of Academic Services	Gogebic Community College
George McNulty	George McNulty	President	Gogebic Community College
Bill Pink	Bill Pink	President	Grand Rapids Community College

Brian Knetl	Brian Knetl	Provost	Grand Rapids Community College
Míchael A. Nealon	Michael A. Nealon	Vice President of Academic Affairs	Henry Ford College
Daniel J. Phelan	Daniel J. Phelan	President	Jackson College
Kate Thirolf	Kate Thirolf	Vice President	Jackson College
Todd Butler	Todd Butler	Dean, Arts & Sciences	Jackson College
Adrien Bennings	Adrien Bennings	President	Kellogg Community College
Carole J. Davís	Carole J. Davis	Chair, Math and Science	Kellogg Community College
Paul R Watson II	Paul R Watson II	Vice President for Instruction	Kellogg Community College
Tonya P. Forbes	Tonya P. Forbes	Dean, Arts and Sciences	Kellogg Community College
Dr. Leslie Kellogg	Dr. Leslie Kellogg	Provost and Vice President of Academic Affairs	Lake Michigan College
Dr. Steve Robinson	Dr. Steve Robinson	President	Lansing Community College
Donald Ritzenhein	Donald Ritzenhein	Provost & VP for the Learning Unit	Macomb Community College
Jennifer Fager, PhD	Jennifer Fager, PhD	Vice President of Academic Affairs	Mid Michigan College
Richard Smith, EdD	Richard Smith, EdD	Associate Dean of Academic Outreach, Transfer Liaison	Mid Michigan College
Kojo Quartey	Kojo Quartey	President	Monroe County Community College

Grace Yackey	Grace Yackey	Vice President of Instruction	Monroe County Community College
Parmeshwar Coomar	Parmeshwar Coomar	Dean of Applied Science and Engineering Technology Division	Monroe County Community College
Dale Nesbary, Ph.D.	Dale Nesbary, Ph.D.	President	Muskegon Community College
Kelley Conrad	Kelley Conrad	Vice President	Muskegon Community College
David Roland Finley, Ph.D.	David Roland Finley, Ph.D.	President	North Central Michigan College
Peter Olson, Ph.D.	Peter Olson, Ph.D.	Vice President of Academic Affairs and Student Success	North Central Michigan College
Joseph Balínskí	Joseph Balinski	Director of Enrollment Services/ Registrar	North Central Michigan College
Debra Pharo	Debra Pharo	Science and Maths Academic Chair	Northwestern Michigan College
Gerald Dobek	Gerald Dobek	Science Department Head	Northwestern Michigan College
Nick Nissley	Nick Nissley	President	Northwestern Michigan College
Stephen Siciliano	Stephen Siciliano	Vice President for Educational Services	Northwestern Michigan College
Peter M. Provenzano Jr.	Peter M. Provenzano Jr.	Chancellor	Oakland Community College
Cheryl Hawkins, PhD	Cheryl Hawkins, PhD	Vice President and Chief Academic Officer	Schoolcraft College
Conway Jeffress, PhD	Conway Jeffress, PhD	President	Schoolcraft College
Michele Kelly, PhD	Michele Kelly, PhD	Dean Liberal Arts and Science	Schoolcraft College

Robert Leadley, PhD	Robert Leadley, PhD	Dean Occupational Programs and Economic Development	Schoolcraft College
David W Fleming	David W Fleming	Vice President of Instruction	Southwestern Michigan College
Tamara Kenny	Tamara Kenny	Chief Academic Officer - Occupational Studies and Health Sciences	St. Clair County Community College
Patrick J. McNally	Patrick J. McNally	Vice Chancellor, Curriculum and Distance Learning	Wayne County Community College District

MICHIGAN ASSOCIATION OF STATE UNIVERSITIES

SIGNATURE	NAME	TITLE	INSTITUTION
Jane M. Davison	Jane M. Davison	Interim Dean, College of Science and Engineering	Central Michigan University
Mary C. Schutten	Mary C. Schutten	Provost	Central Michigan University
Robert O. Davies	Robert O. Davies	President	Central Michigan University
James Smith	James Smith	President	Eastern Michigan University
Mohamad Qatu	Mohamad Qatu	Dean, College of Engineering and Technology	Eastern Michigan University
Rhonda Longworth	Rhonda Longworth	Provost and Executive Vice President	Eastern Michigan University
Dr. Davíd Eísler	Dr. David Eisler	President	Ferris State University
Jacqueline Huntoon	Jacqueline Huntoon	Provost and Senior Vice President for Academic Affairs	Michigan Technological University

Janet Callahan	Janet Callahan	Dean, College of Engineering	Michigan Technological University
Ríchard Koubek	Richard Koubek	President	Michigan Technological University
William Predebon	William Predebon	Department Chair, Mechanical Engineering Engineering Mechanics	Michigan Technological University
Kerrí Schuiling	Kerri Schuiling	Provost and Vice President for Academic Affairs	Northern Michigan University
Míchael Rudísíll	Michael Rudisill	Department Head- Engineering Technology	Northern Michigan University
C. Michelle Piskulich	C. Michelle Piskulich	Interim Provost	Oakland University
Deborah Huntley	Deborah Huntley	Provost and Vice President for Academic Affairs	Saginaw Valley State University
Susan E. Alcock	Susan E. Alcock	Provost and Executive Vice Chancellor for Academic Affairs	University of Michigan-Dearborn
James Alsup	James Alsup	Chair, Department of Computer Science, Engineering, Physics	University of Michigan-Flint
Shelby Newport	Shelby Newport	Associate Provost & Dean of Undergraduate Studies	University of Michigan-Flint
Susan Gano-Phillips	Susan Gano-Phillips	Dean, College of Arts and Sciences	University of Michigan-Flint

MICHIGAN INDEPENDENT COLLEGES AND UNIVERSITIES

SIGNATURE	NAME	TITLE	INSTITUTION
Amy Rebok Rosenthal	Amy Rebok Rosenthal	Dean, Undergraduate Education	Andrews University
Christon Arthur	Christon Arthur	Provost	Andrews University
James Z. Zhang	James Z. Zhang	Sr. VP for Academic Affairs and Provost	Kettering University
Dr. Chrís Ríedel	Dr. Chris Riedel	Assistant Department Chair in Mechanical Engineering	Lawrence Technological University
Jim Jolly	Jim Jolly	Assistant Provost	Lawrence Technological University
Antoine M. Garibaldi, Ph.D.	Antoine M. Garibaldi, Ph.D.	President	University of Detroit Mercy
Katherine E. Snyder, Ph.D.	Katherine E. Snyder, Ph.D.	Dean, College of Engineering & Science	University of Detroit Mercy
Pamela A. Zarkowskí, J.D., M.P.H.	Pamela A. Zarkowski, J.D., M.P.H.	Provost and Vice President for Academic Affairs	University of Detroit Mercy

APPENDIX A: Participating Community College MiTransfer Mechanical Engineering Pathway Worksheets



ASSOCIATE DEGREE PROGRAM INFORMATION

Institution	Alpena Community College
Degree/Program	Associate of Science/Pre-Engineering
Credits Required	60

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

Pathway Course	Subject/ Course Number	Course Title	Credit Hrs
Calculus I	MTH 131	Analytical Geometry and	MTA
		Calculus I	Math
Calculus II	MTH 132	Analytical Geometry and	5
		Calculus 2	
Calculus III	MTH 231	Analytical Geometry and	5
		Calculus 3	
Differential Equations*	MTH 232	Differential Equations (with	4
		linear algebra)	
Physics I (Calculus-based, w/lab)	PHY 221, PHY221R, AND PHY221L	Physics	MTA
			Natural
			Science
Physics II (Calculus-based, w/lab)	PHY 222, PHY222R, AND PHY222L	Physics	5
Chemistry 1 (w/lab)	CEM 121 and	General and Inorganic	MTA
	CEM 121L	Chemistry	Natural
			Science
Statics	EGR 221	Statics	3
Dynamics	not offered		
Mechanics of Solids/Strength of	not offered		
Materials (no lab required)			
*Minimum 4 credits, linear algebro			

REMAINING DEGREE REQUIREMENTS

General Education or Program	Subject/ Course Number	Course Title	Credit Hrs
Requirement			
Electives-selected based on			0
transfer institution requirements			
Additional Humanities/Fine	Students can select from the list		MTA Social
Arts/Social Science credits	of ACC Humanities/Fine		Science/
(minimum 10 credits of	Arts/Social Science -eligible		Humanities
Humanities/Fine Arts or Social	courses		
Science from more than one			
discipline)			
American Government	PLS 221 or 222; or HST 221 and	American Government and	MTA Social
requirement	222	Politics or State and Local	Science
		Government; US History I and	
		US History II	
English Composition II	ENG 112	English Composition II	MTA 2 nd
			writing
		Remaining hours	0



ASSOCIATE DEGREE PROGRAM INFORMATION

Institution	Bay de Noc Community College
Degree/Program	Associate in Science-Pre-Engineering
Credits Required	63

MICHIGAN TRANSFER AGREEMENT (MTA)

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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	MATH 141	Analytical Geometry & Calc I	5	
Calculus II	MATH 142	Analytical Geometry & Calc II	5	
Calculus III	MATH 243	Analytical Geometry & Calc III	5	
Differential Equations*	MATH 244	Differential Equations	3	
Physics I (Calculus-based, w/lab)	PHYS 205	Engineering Physics I	5	
Physics II (Calculus-based, w/lab)	PHYS 206	Engineering Physics II	5	
Chemistry 1 (w/lab)	CHEM 110	General Chemistry I	5	
Statics	PHYS 260	Statics	3	
Dynamics	PHYS 261	Dynamics	3	
Mechanics of Solids/Strength of				
Materials (no lab required)				
*Minimum 4 credits, linear algebra must be covered				

REMAINING DEGREE REQUIREMENTS

General Education or Program Requirement	Subject/ Course Number	Course Title	Credit Hrs
Linear Algebra (Program Req)	MATH 250	Linear Algebra	3
CS or Engineering Elective (Program Req)	CSCI 121 or CADD 120	C++ Programming, or AutoCAD	3
		Remaining hours	18



ASSOCIATE DEGREE PROGRAM INFORMATION

Institution	Delta College
Degree/Program	Associate in Science
Credits Required	62

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	Course Title Cred	
	Number		
Calculus I	MTH 161	Analytic Geom. and Calculus I	4 (MTA)
Calculus II	MTH 162	Analytic Geom. and Calculus I	4
Calculus III	MTH 261	Analytic Geom. and Calculus I	4
Differential Equations*	MTH 264	Intro. to Ordinary Differential Equations	3
Physics I (Calculus-based, w/lab)	PHY 211	Physics I	5 (MTA)
Physics II (Calculus-based, w/lab)	PHY 212	Physics II	5
Chemistry 1 (w/lab)	CHM 111	General Chemistry I	5 (MTA)
Statics	EGR 215	Engineering Mechanics, Statics	3
Dynamics	EGR 216	Engineering Mechanics, Dynamics	3
Mechanics of Solids/Strength of	EGR 320	Mechanics of Materials	3
Materials (no lab required)			
*Minimum 4 credits, linear algebro	must be covered		

REMAINING DEGREE REQUIREMENTS

General Education or Program Requirement	Subject/ Course Number	Course Title	Credit Hrs
Lifelong Wellness	LW 221 or LW & Any LWA	Fitness & Wellness or Lifelong Wellness and 1-LWA Activity	2
		Remaining hours	



ASSOCIATE DEGREE PROGRAM INFORMATION

Institution	Glen Oaks Community College
Degree/Program	Associate of General Studies
Credits Required	60

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	MATH 161	Calculus I & Geometry	4
Calculus II	MATH 162	Calculus II & Geometry	4
Calculus III			
Differential Equations*			
Physics I (Calculus-based, w/lab)	PHYS 251	Physics I	5
Physics II (Calculus-based, w/lab)	PHYS 253	Physics II	5
Chemistry 1 (w/lab)	CHEM 133	General Chemistry I	4
Statics			
Dynamics			
Mechanics of Solids/Strength of			
Materials (no lab required)			
*Minimum 4 credits, linear algebro	n must be covered		

REMAINING DEGREE REQUIREMENTS

General Education or Program Requirement	Subject/ Course Number	Course Title	Credit Hrs
Computer Literacy	CIS 101	Introduction to Computers & Software	4
		Remaining hours	7



ASSOCIATE DEGREE PROGRAM INFORMATION

Institution	Gogebic Community College
Degree/Program	Associate of Science
Credits Required	66

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	MTH150	Calculus & Analytical Geo I	5
Calculus II	MTH151	Calculus & Analytical Geo II	4
Calculus III	MTH152	Calculus III	4
Differential Equations*	MTH220	Ord Diff Equations w/Lin Alg	4
Physics I (Calculus-based, w/lab)	PHY251	General Physics I	5
Physics II (Calculus-based, w/lab)	PHY252	General Physics II	5
Chemistry 1 (w/lab)	CHM151	Gen & Ord Chemistry I	5
Statics	PHY261	Statics	3
Dynamics			
Mechanics of Solids/Strength of	PHY263	Mechanics of Materials	3
Materials (no lab required)			
*Minimum 4 credits, linear algebro	n must be covered		

REMAINING DEGREE REQUIREMENTS

General Education or Program Requirement	Subject/ Course Number	Course Title	Credit Hrs
Program Requirement	PHY110	Intro to Engineering	3
Program Requirement	DWG106	Advanced CAD	3
Program Requirement	COL101	College & Transfer Readiness	1
		Remaining hours	12



ASSOCIATE DEGREE PROGRAM INFORMATION

Institution	Grand Rapids Community College
Degree/Program	Associate of Arts/Associate of Science
Credits Required	60

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 133	Calculus with Analytic	5
		Geometry I	
Calculus II	MA 134	Calculus with Analytic	5
		Geometry II	
Calculus III	MA 255	Calculus with Analytic	4
		Geometry III	
Differential Equations*	MA 259 or	Differential Equations	4
	MA 257	Differential Equations and	
	[based on transfer requirements]	Linear Algebra	
Physics I (Calculus-based, w/lab)	PH 245	Calculus Physics I	5
Physics II (Calculus-based, w/lab)	PH 246	Calculus Physics II	5
Chemistry 1 (w/lab)	CHM 130	General Chemistry I	4
	CHM 131	General Chemistry I Lab	1
Statics	N/A	N/A	-
Dynamics	N/A	N/A	-
Mechanics of Solids/Strength of	N/A	N/A	-
Materials (no lab required)			
*Minimum 4 credits, linear algebro	a must be covered		

REMAINING DEGREE REQUIREMENTS

General Education or Program	Subject/ Course Number	Course Title	Credit Hrs
Requirement			
With advising, students may select an A.A. degree program from the GRCC Catalog, and select the above Mechanical			
Engineering Pathway Courses. GRCC has a specific Pre-Engineering, A.A. program that may have additional			
coursework outlined based on transfer institution requirements. However, besides MTA/General Education			
requirements, GRCC does not have any additional degree requirements (govt., wellness, etc.) for an A.A. degree.			
Above MTA/Gen. Ed. and Open Electives to reach at least 60 credits. 21 [Approximately]			21 [Annrovimately]



ASSOCIATE DEGREE PROGRAM INFORMATION

Institution	Henry Ford College
Degree/Program	AAS Pre-Engineering: Mechanical/Industrial
Credits Required	78

MICHIGAN TRANSFER AGREEMENT (MTA)

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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	Course Title	Credit Hrs
	Number		
Calculus I	MATH-180	Calculus I	5
Calculus II	MATH-183	Calculus II	5
Calculus III	MATH-280	Calculus III	5
Differential Equations*	MATH-288	Differential Equations	5
Physics I (Calculus-based, w/lab)	PHYS-231	Engineering Physics I	5
Physics II (Calculus-based, w/lab)	PHYS-232	Engineering Physics II	5
Chemistry 1 (w/lab)	CHEM-141	Principles of General and Inorganic	5
		Chemistry I	
Statics	ENGR-232	Statics	3
Dynamics	ENGR-233	Dynamics	3
Mechanics of Solids/Strength of	ENGR-235	Mechanics of Materials	2
Materials (no lab required)			
*Minimum 4 credits, linear algebro	n must be covered		

REMAINING DEGREE REQUIREMENTS

General Education or Program Requirement	Subject/ Course Number	Course Title	Credit Hrs
•			
Intro to Engineering	ENGR-130	Introduction to Engineering	3
Introduction to Material Science	ENGR-201	Science of Materials	3
Design and Drafting	ENGR-121	Engineering Design and 3D	3
		Printing	
Computer Technology	ENGR-125	Introduction to Computation	3
		for Engineers	
Second Chemistry	CHEM-142	General Chemistry II	5
		Remaining hours	16



ASSOCIATE DEGREE PROGRAM INFORMATION

Institution	Henry Ford College
Degree/Program	AS Pre-Engineering: Mechanical/Industrial
Credits Required	60

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	Course Title	Credit Hrs
	Number		
Calculus I	MATH-180	Calculus I	5
Calculus II	MATH-183	Calculus II	5
Calculus III	MATH-280	Calculus III	5
Differential Equations*	MATH-288	Differential Equations	5
Physics I (Calculus-based, w/lab)	PHYS-231	Engineering Physics I	5
Physics II (Calculus-based, w/lab)	PHYS-232	Engineering Physics II	5
Chemistry 1 (w/lab)	CHEM-141	Principles of General and Inorganic Chemistry I	5
Statics			
Dynamics			
Mechanics of Solids/Strength of Materials (no lab required)			
*Minimum 4 credits, linear algebro	must be covered		- 1

REMAINING DEGREE REQUIREMENTS

General Education or Program Requirement	Subject/ Course Number	Course Title	Credit Hrs
Intro to Engineering	ENGR-130	Introduction to Engineering	3
Computer Technology	ENGR-125	Introduction to Computation for Engineers	3
General electives	Any course	Elective	1



ASSOCIATE DEGREE PROGRAM INFORMATION

Institution	Jackson College
Degree/Program	Associate in Science
Credits Required	60

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	MAT 151	Calculus I	4 (MTA)
Calculus II	MAT 154	Calculus II	5
Calculus III	MAT 251	Calculus III	4
Differential Equations*	MAT 254	Differential Equations	4
Physics I (Calculus-based, w/lab)	PHY 251	University Physics I	5 (MTA)
Physics II (Calculus-based, w/lab)	PHY 252	University Physics II	5
Chemistry 1 (w/lab)	CEM 141	General Chemistry I	5 (MTA)
Statics			
Dynamics			
Mechanics of Solids/Strength of			
Materials (no lab required)			
*Minimum 4 credits, linear algebro	a must be covered		

REMAINING DEGREE REQUIREMENTS

General Education or Program Requirement	Subject/ Course Number	Course Title	Credit Hrs
First Year Experience	SEM 140	Seminar in Life Pathways	3
Communications (GEO 2)	COM 231 or COM 240	Communication Fund. Or Interpersonal Comm.	3
Diversity (GEO 7)	Selection from GEO 7 list		3
		Remaining hours	3



ASSOCIATE DEGREE PROGRAM INFORMATION

Institution	Kellogg Community College
Degree/Program	AS with a Concentration in Mechanical Engineering
Credits Required	60

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	MATH 141	Calculus I	5
Calculus II	MATH 142	Calculus II	5
Calculus III	MATH 241	Calculus III	4
Differential Equations*	MATH 242	Differential Equations with	4
		linear algebra	
Physics I (Calculus-based, w/lab)	PHYS 221	Physics for Engineers and	5
		Scientists I	
Physics II (Calculus-based, w/lab)	PHYS 222	Physics for Engineers and	5
		Scientists II	
Chemistry 1 (w/lab)	CHEM 110	General Chemistry I	4
Statics	ENGR 256	Statics	3
Dynamics	ENGR 258	Dynamics	4
Mechanics of Solids/Strength of	Not offered		
Materials (no lab required)			
*Minimum 4 credits, linear algebra must be covered			

REMAINING DEGREE REQUIREMENTS

General Education or Program	Subject/ Course Number	Course Title	Credit Hrs
Requirement			
Program Requirement	ENGL 151 or ENGL 151H	Freshman Composition	3
Program Requirement	Communication course	Several Options	3
Program Requirement	Humanities & Fine Arts/GE	Many options – 2 courses from	6
	Personal & Cultural Engagement	different disciplines	
Program Requirement	Social Science/GE Personal &	Many options – 2 courses from	6
	Cultural Engagement	different disciplines	
Program Requirement	FYS 101	First Year Seminar	1

Remaining hours (electives; see an academic advisor)

2



ASSOCIATE DEGREE PROGRAM INFORMATION

Institution	Lake Michigan College
Degree/Program	Associate in Science (AS) – Pre-Engineering
Credits Required	60

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	MATH 151	Calculus I	5
Calculus II	MATH 201	Calculus II	5
Calculus III	MATH 202	Calculus III	5
Differential Equations*	MATH 252	Differential Equations	4
Physics I (Calculus-based, w/lab)	PHYS 201	Engineering Physics I (Mechanics)	4
Physics II (Calculus-based, w/lab)	PHYS 202	Engineering Physics I (Electricity & Magnetism)	4
Chemistry 1 (w/lab)	CHEM 111	General Chemistry I	4
Statics			
Dynamics			
Mechanics of Solids/Strength of Materials (no lab required)			
*Minimum 4 credits, linear algebra must be covered			

REMAINING DEGREE REQUIREMENTS

General Education or Program Requirement	Subject/ Course Number	Course Title	Credit Hrs
Program Req	CIS 164	C++ Programming	3
Program Req	CHEM 112	General Chemistry II	4
		Remaining hours (Additional Credits to Fulfill Associate in Science)	7



ASSOCIATE DEGREE PROGRAM INFORMATION

Institution	Lansing Community College
Degree/Program	Engineering/Physics A.S.
Credits Required	60

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	MATH151	Calculus I	4
Calculus II	MATH152	Calculus II	4
Calculus III	MATH253	Calculus III	4
Differential Equations*	MATH254 + MATH250	Intro to Differential Equation + Linear Algebra	4 + 4
Physics I (Calculus-based, w/lab)	PHYS251	Physics I with Calculus	5
Physics II (Calculus-based, w/lab)	PHYS252	Physics II with Calculus	5
Chemistry 1 (w/lab)	CHEM151 + CHEM161	General Chemistry I Lecture + General Chemistry I Lab	4+1
Statics	PHYS260	Statics for Engineers	3
Dynamics			
Mechanics of Solids/Strength of Materials (no lab required)			
*Minimum 4 credits, linear algebra must be covered			

REMAINING DEGREE REQUIREMENTS

General Education or Program Requirement	Subject/ Course Number	Course Title	Credit Hrs
Program Requirement - Electives	BIOL 127; CPSC 131; CPSC 230; STAT 215	Cell Biology; Numerical Methods and Math Lab; Algorithms and Computing with C+; 4 / 4; Introduction to Probability and Statistics	4/6;3/ 4;4/4
		Remaining hours	3-8



ASSOCIATE DEGREE PROGRAM INFORMATION

Institution	Macomb Community College
Degree/Program	Associate of Science / Pre-Engineering
Credits Required	62

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	MATH 1760	Analytical Geometry and	4
		Calculus I	
Calculus II	MATH 1770	Analytical Geometry and	4
		Calculus 2	
Calculus III	MATH 2760	Analytical Geometry and	4
		Calculus 3	
Differential Equations*	MATH 2770	Differential Equations	4
Physics I (Calculus-based, w/lab)	PHYS 2220	Analytical Physics 1	5
Physics II (Calculus-based, w/lab)	PHYS 2230	Analytical Physics 2	5
Chemistry 1 (w/lab)	CHEM 1170	General Chemistry 1	4
Statics	n/a	n/a	n/a
Dynamics	n/a	n/a	n/a
Mechanics of Solids/Strength of	n/a	n/a	n/a
Materials (no lab required)			
*Minimum 4 credits, linear algebro	n must be covered		<u>. </u>

REMAINING DEGREE REQUIREMENTS

General Education or Program Requirement	Subject/ Course Number	Course Title	Credit Hrs
Program	ENGR 1000	Introduction to Engineering	3
Program	PHYS 1180	College Physics 1	4
Program	CHEM 1180	General Chemistry 2	4
Program	MATH 2000	Introduction to Linear Algebra	3
General Education	ECON 1160	Principles of Economics 1	3
		Remaining hours	17



ASSOCIATE DEGREE PROGRAM INFORMATION

Institution	Mid Michigan College
Degree/Program	Associate in Science/Math/Science Transfer
Credits Required	62

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	MAT 126	Calculus I	5
Calculus II	MAT 225	Calculus II	4
Calculus III	MAT 226	Calculus III	4
Differential Equations*			
Physics I (Calculus-based, w/lab)	PHY 211	University Physics I	5
Physics II (Calculus-based, w/lab)	PHY 212	University Physics II	5
Chemistry 1 (w/lab)	CHM 111	General College Chemistry I	5
Statics			
Dynamics			
Mechanics of Solids/Strength of			
Materials (no lab required)			
*Minimum 4 credits, linear algebro	a must be covered		

REMAINING DEGREE REQUIREMENTS

General Education or Program Requirement	Subject/ Course Number	Course Title	Credit Hrs
		Remaining hours - Elective credits to reach degree minimum of 62. These remaining credits should be chosen in consultation with an advisor.	7



ASSOCIATE DEGREE PROGRAM INFORMATION

Institution	Monroe County Community College
Degree/Program	Associate of Science
Credits Required	60

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	MATH/171	Calculus I	4
Calculus II	MATH/172	Calculus II	4
Calculus III	MATH/271	Calculus III	4
Differential Equations*	MATH/273	Introduction to Differential	3
		Equations	
	MATH/251	Linear Algebra	3
Physics I (Calculus-based, w/lab)	PHY/151	General Physics I	4
Physics II (Calculus-based, w/lab)	PHY/152	General Physics II	4
Chemistry 1 (w/lab)	CHEM/151	General College Chemistry I	4
Statics	METC/220	Statics & Strength of Materials	4
Dynamics	Not offered		
Mechanics of Solids/Strength of	Not offered		
Materials (no lab required)			
*Minimum 4 credits, linear algebro	n must be covered		

REMAINING DEGREE REQUIREMENTS

General Education or Program Requirement	Subject/ Course Number	Course Title	Credit Hrs
General Education	MDTC/160	Mechanical Drafting & CAD I	4
Degree Requirement	Additional Social Sciences Course		3
_			
		Remaining hours	0



ASSOCIATE DEGREE PROGRAM INFORMATION

Institution	Muskegon Community College
Degree/Program	AS Engineering
Credits Required	62

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	MATH 161	Calculus I	4
Calculus II	MATH 162A	Calculus II	4
Calculus III	MATH 283	Calculus III	4
Differential Equations*	MATH 295	Differential Equations with	4
		Linear Algebra	
Physics I (Calculus-based, w/lab)	PHYS 203L&L	Engineering Physics	5
Physics II (Calculus-based, w/lab)	PHYS 204L&L	Engineering Physics	5
Chemistry 1 (w/lab)	CHEM 101LEC & CHEM 101A	General & Inorganic Chemistry	5
		Lecture & Lab	
Statics	ENGR 202	Engineering Statics	3
Dynamics	ENGR 204	Engineering Dynamics	3
Mechanics of Solids/Strength of	Not offered		
Materials (no lab required)			
*Minimum 4 credits, linear algebro	a must be covered		_

REMAINING DEGREE REQUIREMENTS

These are additional associate degree requirements that are not MTA or MiTransfer Pathways courses. They might not be accepted for transfer by universities participating in the agreement.

General Education or Program Requirement	Subject/ Course Number	Course Title	Credit Hrs
		Remaining hours	

No



ASSOCIATE DEGREE PROGRAM INFORMATION

Institution	North Central Michigan College
Degree/Program	Associate of Science with a Concentration in Mechanical Engineering
Credits Required	60

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	MATH 150	Analytic Geometry & Calc. I	5
Calculus II	MATH 210	Analytic Geometry & Calc. II	5
Calculus III	MATH 215	Analytic Geometry & Calc. III	4
Differential Equations*	MATH 225	Differential Equations	3
Physics I (Calculus-based, w/lab)	PHY 230	Physics for Scientists &	5
		Engineers I	
Physics II (Calculus-based, w/lab)	PHY 231	Physics for Scientists &	5
		Engineers II	
Chemistry 1 (w/lab)	CEM 121	Principles of Chemistry	5
Statics			
Dynamics			
Mechanics of Solids/Strength of			
Materials (no lab required)			
*Minimum 4 credits, linear algebro	n must be covered		

REMAINING DEGREE REQUIREMENTS

General Education or Program Requirement	Subject/ Course Number	Course Title	Credit Hrs
		Remaining hours	0



ASSOCIATE DEGREE PROGRAM INFORMATION

Institution	Northwestern Michigan College
Degree/Program	Engineering, ASA + Engineering Certificate
Credits Required	70-80 (program dependent)

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	MTH141	Calculus I	5
Calculus II	MTH142	Calculus II	5
Calculus III	MTH241	Calculus III	5
Differential Equations*	MTH251	Linear Algebra & Diff. Eqns	4
Physics I (Calculus-based, w/lab)	PHY221	Prob/princ of Physics I	5
Physics II (Calculus-based, w/lab)	PHY222	Prob/Princ of Physics II	5
Chemistry 1 (w/lab)	CHM150	General Chemistry I	5
Statics	EGR201	Statics	3
Dynamics	EGR203	Dynamics	4
Mechanics of Solids/Strength of	EGR202	Mechanics of Materials	3
Materials (no lab required)			
*Minimum 4 credits, linear algebro	n must be covered		

REMAINING DEGREE REQUIREMENTS

General Education or Program	Subject/ Course Number	Course Title	Credit Hrs
Requirement			
Program Requirement	EGR101	Intro to Engineering	1
Program Requirement	EGR232	Introductory Thermodynamics	3
Program Requirement	EGR221	Material Science	3
		Remaining hours to equal 60	



ASSOCIATE DEGREE PROGRAM INFORMATION

Institution	Oakland Community College
Degree/Program	Associate in Science
Credits Required	60

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	MAT 1730	Calculus I	4 (MTA)
Calculus II	MAT 1740	Calculus II	4
Calculus III	MAT 2740	Calculus III	4
Differential Equations	MAT 2810	Differential Equations	4
Linear Algebra	MAT 2880	Linear Algebra	4
Physics I (Calculus-based, w/lab)	PHY 2400	Engineering Physics I	5 (MTA)
Physics II (Calculus-based, w/lab)	PHY 2500	Engineering Physics II	5
Chemistry 1 (w/lab)	CHE 1510	General Chemistry I	4 (MTA)
Statics			
Dynamics			
Mechanics of Solids/Strength of			
Materials (no lab required)			
*Minimum 4 credits, linear algebro	n must be covered		

REMAINING DEGREE REQUIREMENTS

General Education or Program Requirement	Subject/ Course Number	Course Title	Credit Hrs
		Remaining hours	



ASSOCIATE DEGREE PROGRAM INFORMATION

Institution	Schoolcraft College
Degree/Program	Associate in Science or Associate in General Studies or Associate in Arts
Credits Required	60

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	MATH 150	Calculus with Analytical	5
		Geometry 1	
Calculus II	MATH 151	Calculus with Analytical	5
		Geometry 2	
Calculus III	MATH 240	Calculus with Analytical	5
		Geometry 3	
Differential Equations*	MATH 252	Differential Equations	5
Physics I (Calculus-based, w/lab)	PHYS 211	Physics for Scientists/ Eng 1	5
Physics II (Calculus-based, w/lab)	PHYS 212	Physics for Scientists/ Eng 2	5
Chemistry 1 (w/lab)	CHEM 111	General Chemistry 1	4
Statics	ENGR 201	Statics	3
Dynamics	ENGR 203	Dynamics	3
Mechanics of Solids/Strength of	ENGR 202	Mechanics of Materials	3
Materials (no lab required)			
*Minimum 4 credits, linear algebro	a must be covered	·	•

REMAINING DEGREE REQUIREMENTS

General Education or Program Requirement	Subject/ Course Number	Course Title	Credit Hrs
		Remaining hours	11



ASSOCIATE DEGREE PROGRAM INFORMATION

Institution	Southwestern Michigan College	
Degree/Program	AS – Science, Engineering, and Math Professional	
Credits Required	63	

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	MATH 141	Analytical Geometry & Calc I	5
Calculus II	MATH 142	Analytical Geometry & Calc II	5
Calculus III	MATH 201	Calculus III	5
Differential Equations*	MATH 205	Differential Equations & Linear	4
		Algebra	
Physics I (Calculus-based, w/lab)	PHYS 201	General Physics I	5
Physics II (Calculus-based, w/lab)	PHYS 202	General Physics II	5
Chemistry 1 (w/lab)	CHEM 101	General Chemistry I	5
Statics	N/A		
Dynamics	N/A		
Mechanics of Solids/Strength of	N/A		
Materials (no lab required)			
*Minimum 4 credits, linear algebro	n must be covered	•	•

REMAINING DEGREE REQUIREMENTS

General Education or Program	Subject/ Course Number	Course Title	Credit Hrs
Requirement			
Program	CHEM 102	General Chemistry II	5
General Education	EDUC 120	Educational Exploration	1
		Remaining hours	6



ASSOCIATE DEGREE PROGRAM INFORMATION

Institution	St. Clair County Community College
Degree/Program	Associates in Science Transfer
Credits Required	60

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 114	Calculus I	4
Calculus II	MTH 215	Calculus II	4
Calculus III	MTH 216	Calculus III	4`
Linear Algebra	MTH 210	Linear Algebra	3
Differential Equations*	MTH 217	Differential Equations	4
Physics I (Calculus-based, w/lab)	PHY 221	Mechanics, Heat, and Sound	5
Physics II (Calculus-based, w/lab)	PHY 222	Electricity, Light, and Modern Physics	5
Chemistry 1 (w/lab)	CHM 101	Intro to Inorganic Chemistry	4
Statics	PHY 231	Statics	3
Dynamics			
Mechanics of Solids/Strength of			
Materials (no lab required)			
*Minimum 4 credits, linear algebro	n must be covered		

REMAINING DEGREE REQUIREMENTS

These are additional associate degree requirements that are not MTA or MiTransfer Pathways courses. They might not be accepted for transfer by universities participating in the agreement.

General Education or Program Requirement	Subject/ Course Number	Course Title	Credit Hrs
		Remaining hours	



ASSOCIATE DEGREE PROGRAM INFORMATION

Institution	Wayne County Community College District	
Degree/Program	AS - Pre Engineering	
Credits Required	64	

MICHIGAN TRANSFER AGREEMENT (MTA)

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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	MAT 171	Calculus I	4
Calculus II	MAT 172	Calculus II	4
Calculus III	MAT 271	Analytical Geometry and	4
		Calculus III	
Differential Equations*	MAT 273	Differential Equation	4
	MAT 272	Linear Algebra	4
Physics I (Calculus-based, w/lab)	PHY 265	Physics for Science and	4
		Engineer I	
Physics II (Calculus-based, w/lab)	PHY 275	Physics for Science and	4
		Engineer II	
Chemistry 1 (w/lab)	CHM 136	General Chemistry I	4
Statics	Not offered		
Dynamics	Not offered		
Mechanics of Solids/Strength of	Not offered		
Materials (no lab required)			
*Minimum 4 credits, linear algebro	a must be covered		_

REMAINING DEGREE REQUIREMENTS

These are additional associate degree requirements that are not MTA or MiTransfer Pathways courses. They might not be accepted for transfer by universities participating in the agreement.

General Education or Program Requirement	Subject/ Course Number	Course Title	Credit Hrs
		Remaining hours	28





BACHELOR'S DEGREE PROGRAM INFORMATION

Institution	Andrews University
Degree/Program	BSE Engineering, Mechanical Engineering Concentration
Credits Required	135 for bachelor's; 63 in major

MICHIGAN TRANSFER AGREEMENT (MTA)

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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	MATH 191	Calculus I	4
Calculus II	MATH 192	Calculus II	4
Calculus III	MATH 240	Calculus III	4
Differential Equations*	MATH 286	Differential Equations	3
Physics I (Calculus-based, w/lab)	PHYS 241, 271 (lab)	Physics for Scientists &	5
		Engineers I & Lab	
Physics II (Calculus-based, w/lab)	PHYS 242, 272 (lab)	Physics for Scientists &	5
		Engineers II & Lab	
Chemistry 1 (w/lab)	CHEM 131	General Chemistry	4
Statics	ENGR 185	Engineering Statics	3
Dynamics	ENGR 285	Engineering Dynamics	3
Mechanics of Solids/Strength of	ENGR 340	Mechanics of Materials	3
Materials (no lab required)			
*Minimum 4 credits, linear algebro	a must be covered (See below, Ma	ATH 215)	

REMAINING DEGREE REQUIREMENTS

General Education or Program Requirement	Subject/ Course Number	Course Title	Credit Hrs
Program Cognate	CPTR 151	Computer Science	3
Program Cognate	MATH 215	Intro to Linear Algebra	3
Program Cognate	STAT 340	Probability & Statistics	3
GE Writing Course	ENGL 220	Technical Writing	3



BACHELOR'S DEGREE PROGRAM INFORMATION

Institution	Central Michigan University
Degree/Program	Mechanical Engineering - BSME
Credits Required	130 – 134

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 132	Calculus I	4
Calculus II	MTH 133	Calculus II	4
Calculus III	MTH 233	Calculus III	4
Differential Equations*	MTH 232	Linear Algebra & Differential Equations	3
Physics I (Calculus-based, w/lab)	PHY 145	University Physics I	4
	PHY 175	University Physics I Laboratory	1
Physics II (Calculus-based, w/lab)	PHY 146	University Physics II	4
	PHY 176	University Physics II Laboratory	1
Chemistry 1 (w/lab)	CHM 131	Introduction to Chemistry I	4
Statics	EGR 251	Statics	3
Dynamics	EGR 253	Dynamics	3
Mechanics of Solids/Strength of Materials (no lab required)	EGR 255	Strength of Materials	3
Computer Programming	EGR 200	Computer Aided Problem Solving for Engineers	3
Intro CAD/Graphics	IET 154	Engineering Design Graphics	3
*Minimum 4 credits, linear algebro	n must be covered		
		TOTAL CREDITS	43

REMAINING DEGREE REQUIREMENTS

General Education or Program	Subject/ Course Number	Course Title	Credit Hrs
Requirement			
General Education	ENG 201	Intermediate Comp	3
Program Requirement	EGR 120	Introduction to Engineering	3
Program Requirement	EGR 190	Digital Circuits	3
		TOTAL CREDITS	9



BACHELOR'S DEGREE PROGRAM INFORMATION

Institution	Eastern Michigan University
Degree/Program	Mechanical Engineering, Bachelor of Science
Credits Required	124 Credit Hours

MICHIGAN TRANSFER AGREEMENT (MTA)

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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	MATH 120	Calculus I	4
Calculus II	MATH 121	Calculus II	4
Calculus III	MATH 223	Multivariable Calculus	4
Differential Equations*	MATH 325	Differential Equations	3
Physics I (Calculus-based, w/lab)	PHY 223	Mechanics and Sound	5
Physics II (Calculus-based, w/lab)	PHY 224	Electricity and Light	5
Chemistry 1 (w/lab)	CHEM 121/122	General Chemistry I & Lab	3/1
Statics	ME 211	Statics	3
Dynamics	ME 312	Dynamics	3
	or		
	PHY 230	Engineering Dynamics	
Mechanics of Solids/Strength of	ME 313	Mechanics of Materials	3
Materials (no lab required)			
*Minimum 4 credits, linear algebro	n must be covered	·	

REMAINING DEGREE REQUIREMENTS

General Education or Program Requirement	Subject/ Course Number	Course Title	Credit Hrs
Program Requirement	MATH 122	Elementary Linear Algebra	3
Program Requirement	ME 100	Introduction to Engineering	3
General Education Requirement	Perspectives on a Diverse World - De learning in either Global Awareness one course, which may be transferre EMU Undergraduate Catalog for a li	or U.S. Diversity by completing ed in as a part of the MTA. See	3



BACHELOR'S DEGREE PROGRAM INFORMATION

Institution	Ferris State University
Degree/Program	B.S. Mechanical Engineering Technology
Credits Required	132-133

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	MATH 220	Analytical Geometry–Calculus I	4
Calculus II	MATH 230	Analytical Geometry–Calculus 2	4
Calculus III	MATH 320	Analytical Geometry–Calculus 3	4
Differential Equations*	MATH 330	Differential Equations	3
Physics I (Calculus-based, w/lab)	PHYS 211	Introductory Physics 1	4
Physics II (Calculus-based, w/lab)	PHYS 212	Introductory Physics 2	4
Chemistry 1 (w/lab)	CHEM 121	General Chemistry 1	4
Statics	NO COURSE		
Dynamics	MECH 360	Dynamics	3
Mechanics of Solids/Strength of	NO COURSE		
Materials (no lab required)			
*Minimum 4 credits, linear algebro	must be covered		

REMAINING DEGREE REQUIREMENTS

General Education or Program	Subject/ Course Number	Course Title	Credit Hrs
Requirement			
General Education	CHEM 103	Preparatory Chemistry	3
General Education	MATH 126 or MATH 130	Varies	4
General Education	MATH 216 or MATH 220	Varies	4
General Education	MATH 226 or MATH 230	Varies	4
Program	MECH 111	MET Seminar	1
Program	MECH 122	Computer Apps 1 for Tech	2
Program	MECH 211	Fluid Mechanics	4
Program	MECH 222	Kinematics of Mechanisms	2
Program	MECH 223	Thermodynamics	3



BACHELOR'S DEGREE PROGRAM INFORMATION

Institution	Kettering University
Degree/Program	Mechanical Engineering
Credits Required	161

MICHIGAN TRANSFER AGREEMENT (MTA)

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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	MATH-101	Calculus I	4
Calculus II	MATH-102	Calculus II	4
Calculus III	MATH-203	Calculus III	4
Differential Equations*	MATH-204	Differential Equations*	4
Physics I (Calculus-based, w/lab)	PHYS-114/115	Newtonian Mechanics (Calc- based w/lab)	3+1=4
Physics II (Calculus-based, w/lab)	PHYS 224/225	Electricity and Magnetism (Calc-based, w/lab)	3+1=4
Chemistry 1 (w/lab)	CHEM-135/136	Principles of Chemistry (w/lab)	3+1=4
Statics	MECH-210	Statics	4
Dynamics	MECH-310	Dynamics	4
Mechanics of Solids/Strength of Materials (no lab required)	MECH-212	Mechanics of Materials	4
*Minimum 4 credits, linear algebro	must be covered		•

REMAINING DEGREE REQUIREMENTS

General Education or Program	Subject/ Course Number	Course Title	Credit Hrs
Requirement			
Degree Requirement	MECH-100	Engineering Graphical	4
		Communications	
Degree Requirement	IME-100	Interdisciplinary Design &	4
		Manufacturing	
Degree Requirement	EE-212/MECH-231L	Applied Electrical Circuits &	4
		Signals lab	
Degree Requirement	MATH-307	Matrix Algebra	4



BACHELOR'S DEGREE PROGRAM INFORMATION

Institution	Lawrence Technological University	
Degree/Program	Bachelor of Science in Mechanical Engineering	
Credits Required	132	

MICHIGAN TRANSFER AGREEMENT (MTA)

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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	MCS 1414	Calculus 1	4
Calculus II	MCS 1424	Calculus 2	4
Calculus III	MCS 2414	Calculus 3	4
Differential Equations*	MCS 2423	Differential Equations	3
Physics I (Calculus-based, w/lab)	PHY 2413+PHY 2421	University Physics I + Lab	4
Physics II (Calculus-based, w/lab)	PHY 2423+PHY 2431	University Physics II + Lab	4
Chemistry 1 (w/lab)	CHM 1213+CHM1221	University Chemistry I + Lab	4
Statics	EGE 2013	Statics	3
Dynamics	EME 3043	Dynamics	3
Mechanics of Solids/Strength of	EME 3013	Mechanics of Materials	3
Materials			
*Minimum 4 credits, linear algebro	n must be covered		
		TOTAL CREDITS	36

REMAINING DEGREE REQUIREMENTS

General Education or Program	Subject/ Course Number	Course Title	Credit Hrs
Requirement			
Program Requirement	EME 1011	Foundations of Mechanical Engr	1
Program Requirement	EGE 1001	Fundamentals of Eng. Design	1
		Projects	
Program Requirement	EGE 1102	Engr. Computer Applications Lab	2
Program Requirement	EME 2012	ME Graphics	
	•	TOTAL CREDITS	2



BACHELOR'S DEGREE PROGRAM INFORMATION

Institution	Michigan Technological University
Degree/Program	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.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	MA1160 or	Calculus with Technology I or	4 or
	MA1161	Calculus Plus with Technology I	5
Calculus II	MA2160	Calculus with Technology II	4
Calculus III	MA3160	Multivariable Calculus with Technology	4
Differential Equations	MA2320 or	Elementary Linear Algebra or	2 or
	MA2330 AND	Introduction to Linear Algebra AND	3 AND
Minimum 4 credits, linear algebra	MA3520 or	Elementary Differential Equations or	2 or
must be covered	MA3530	Introduction to Differential Equations	3
Physics I (Calculus-based, w/lab)	PH1100	Physics by Inquiry I (Lab)	1
	PH2100	University Physics I-Mechanics	3
Physics II (Calculus-based, w/lab)	PH1200	Physics by Inquiry II (Lab)	1
	PH2200	Univ. Physics II-Electricity & Magnetism	3
General Chemistry I (w/lab)	CH1150	University Chemistry I	3
	CH1151	University Chemistry Lab I	1
Statics	MEEM2110	Statics	3
Dynamics	MEEM2700	Dynamics	3
Mechanics of Solids/Strength of	MEEM2150	Mechanics of Materials	3
Materials (no lab required)			

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.

General Education or Program	Subject/ Course Number	Course Title	Credit Hrs
Requirement			
Program Requirement	ENG1101	Engineering Analysis & Problem Solving	3
Program Requirement	ENG1102	Engineering Modeling and Design	3
Program Requirement	MSE2100	Intro to Materials Science & Engineering	3
Program Requirement	MEEM2201	Introductory Thermodynamics	3
Program Requirement	MEEM2901	Mechanical Engineering Practice I	2
Program Requirement	MEEM2911	Mechanical Engineering Practice II	3



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,	College Physics I or,	5
	PH220	Introductory Physics I	
Physics II (Calculus-based, w/lab)	PH 202 or	College Physics II or,	5
	PH 221	Introductory Physics II	
Chemistry 1 (w/lab)	CH 105 or	Chemical Principles or,	4 or,
	CH 111	General Chemistry I	5
Statics	MET 211	Statics	4
Dynamics	MET 310	Dynamics	4
Mechanics of Solids/Strength of	MET 311	Strength of Materials	4
Materials (no lab required)			
*Minimum 4 credits, linear algebro	must be covered		

REMAINING DEGREE REQUIREMENTS

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



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 or	Intro to Differential Equations with Matrix Alg or	4
	APM 2555	Intro to Differential Equations	
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

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



BACHELOR'S DEGREE PROGRAM INFORMATION

Institution	Saginaw Valley State University
Degree/Program	B.S. in Mechanical Engineering (BSME)
Credits Required	124

MICHIGAN TRANSFER AGREEMENT (MTA)

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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	MATH 161	Calculus I	4	
Calculus II	MATH 162	Calculus II	4	
Calculus III	MATH 261	Calculus III	4	
Differential Equations*	MATH 262	Differential Equations	4	
Physics I (Calculus-based, w/lab)	PHYS 211 Lecture & lab	Analytical Physics I & Intro. Physics I Lab.	5	
Physics II (Calculus-based, w/lab)	PHYS 212 Lecture & lab	Analytical Physics II & Intro. Physics II Lab.	5	
Chemistry 1 (w/lab)	CHEM 111 Lecture & lab	General Chemistry I Lecture & Lab.	5	
Statics	ME 251	Engineering Statics	3	
Dynamics	ME 252	Engineering Dynamics	3	
Mechanics of Solids/Strength of Materials (no lab required)	ME 250/ME 353 Lecture & lab	Solid Mechanics / Principles of Engineering Materials	4/4	
*Minimum 4 credits, linear algebro	must be covered		•	

REMAINING DEGREE REQUIREMENTS

General Education or Program Requirement	Subject/ Course Number	Course Title	Credit Hrs.
Engineering Careers & Concepts	ME 101	Engineering Careers &	2
		Concepts	



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	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	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 algebro	a must be covered		

REMAINING DEGREE REQUIREMENTS

General Education or Program Requirement	Subject/ Course Number	Course Title	Credit Hrs	
Program Requirement	ENGR 1000	Engineering Ethics	2	
Program Requirement	ENGR 1080	Fundamentals of Eng. Design	2	
Course meeting IT4 "Human Difference" Core Curriculum Requirement	Varies	Varies	3	



BACHELOR'S DEGREE PROGRAM INFORMATION

Institution	University of Michigan-Dearborn
Degree/Program	BSE/ME
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	MATH 115	Calculus I	4	
Calculus II	MATH 116	Calculus II	4	
Calculus III	MATH 215	Calculus III	4	
Differential Equations*	MATH 216 or MATH 228	Intro to Diff Equations or Differential Equations w/Linear Algebra	4	
Physics I (Calculus-based, w/lab)	PHYS 150/150L	General Physics I lec/lab	4	
Physics II (Calculus-based, w/lab)	PHY 151/151L	General Physics II lec/lab	4	
Chemistry 1 (w/lab)	CHEM 134/134L	General Chemistry IB lec/lab	4	
Statics	ME 260 is both our Statics & Mechanics of Solids/Strengths course	Design Stress Analysis	4	
Dynamics	The Dynamics course is a junior/sen can not be brought in from the CC. Street to apply to the bachelor's degree to the bachelor degree	Students will earn ME general	-	
Mechanics of Solids/Strength of Materials (no lab required)*	ME 260 is both our Statics & Mechanics of Solids/Strengths course	Design Stress Analysis	-	
*Minimum 4 credits, linear algebro	must be covered			

REMAINING DEGREE REQUIREMENTS

General Education or Program Requirement	Subject/ Course Number	Course Title	Credit Hrs
General Education	ECON 201 or 202 (can be taken as part of MTA)	Macroeconomics or Microeconomics	4

General Education	Comp 270 (can be taken as part of	Technical Writing	3					
	MTA)	VITA)						
Program Requirement	ENGR 250	Principles of Engineering	3					
		Materials						
Program Requirement	ENGR 100/100L	Introduction to Engineering	2					



BACHELOR'S DEGREE PROGRAM INFORMATION

Institution	University of Michigan-Flint
Degree/Program	BSE
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 121	Calculus I	4	
Calculus II	MTH 122	Calculus II	4	
Calculus III	MTH 222	Multi-variate Calculus	4	
Differential Equations*	MTH 303	Introduction to Differential	4	
		Eqns		
Physics I (Calculus-based, w/lab)	PHY 243	Principles of Physics I	5	
Physics II (Calculus-based, w/lab)	PHY 245	Principles of Physics II	5	
Chemistry 1 (w/lab)	CHM 260	Principles of Chemistry I	4	
Statics	EGR 230	Statics 3		
Dynamics	EGR 370	Dynamics	3	
Mechanics of Solids/Strength of	EGR 260	Mechanics of Deformable	3	
Materials (no lab required)		Solids		
*Minimum 4 credits, linear algebro	must be covered		•	

REMAINING DEGREE REQUIREMENTS

General Education or Program Requirement	Subject/ Course Number	Course Title	Credit Hrs	
Program Requirement	EGR 102	Introduction to Engineering	3	



MECHANICAL ENGINEERING MiTransfer Pathway Calculus I By Receiving Institution	Central Michigan University	Eastern Michigan University	Ferris State University	Michigan Technological University	Michigan Technological University	Northern Michigan University	Oakland University	Saginaw Valley State University	University of Michigan- Dearborn	University of Michigan-Flint	Andrews University	Kettering University	Lawrence Technological University	University of Detroit Mercy
	MTH 132	MATH 120	MATH 220	MA 1160	MA 1161	MA 161	MTH 1554	MATH 161	MATH 115	MTH 121	MATH 191	MATH 101	MCS 1414	MTH 1410
				MA 1160 C	R MA 1161									
Community College ¹ Alpena Community														
College	MTH 131	MTH 131	MTH 131	MTH 131		MTH 131	MTH 131	MTH 131	MTH 131	MTH 131 MATH	MTH 131	MTH 131	MTH 131	MTH 131
Bay de Noc Community College	MATH 141	MATH 141	MA 141 MATH 141	MATH 141		MA 141 MATH 141	MA 141 MATH 141	MATH 141	MA 141	141 MA 142	MATH 141	MA 141	MATH 141	MATH 141
Delta College N	MTH 161	MTH 161	MTH 161	MTH 161		MTH 161	MTH 161	MTH 161	MTH 161	MTH 161	MTH 161	MTH 161	MATH 170 MTH 161	MTH 161
Glen Oaks Community College	MATH 161	MATH 161	MATH 161 NSM 161	MATH 161		MATH 161	MATH 161 NSM 161	MATH 161	MATH 161 NSM 161	NSM 161 MATH 161	MATH 161	MATH 161 NSM 161	MATH 161	MATH 161 NSM 161
Gogebic Community College	MTH 150	MTH 150	MTH 150	MTH 150		MTH 150	MTH 150	MTH 150	MTH 150	MTH 150	MTH 150	MTH 150	MTH 150	MTH 150
Grand Rapids Community College	MA 133	MA 133	MA 133	MA 133		MA 133	MA 133	MA 133	MA 133	MA 133	MA 133	MA 133	MA 133	MA 133
Henry Ford College	MATH 180	MATH 180	MATH 180		MATH 180	MATH 180	MATH 180	MATH 180	MATH 180 MATH 42	MATH 180 MATH 42	MATH 180	MATH 180	MATH 180	MATH 180
Jackson College	MAT 151	MAT 151	MAT 151 MTH 151	MAT 151		MAT 151 MTH 151	MAT 151	MAT 151	MAT 151 MTH 151 MATH	MAT 151 MTH 151	MTH 151 MAT 151	MTH 151	MAT 151	MAT 151 MTH 151
Kellogg Community College	MATH 141	MATH 141	MATH 141	MATH 141		MATH 141	MATH 141	MATH 141	141 MATH 141A	MATH 141	MATH 141	MATH 141	MATH 141	MATH 141
Lake Michigan College	MATH 151	MATH 151	MATH 151	MATH 151		HONR 150 MATH 151	MATH 151	MATH 151	MATH 151	MATH 151 HONR 150	MATH 151	MATH 151	MATH 151	MATH 151
Lansing Community College	MATH 151	MATH 151	MATH 151 MATH 161 MTH 214	MATH 161 MATH 151		MATH 151 MATH 161	MATH 151 MATH 161	MATH 161 MATH 151	MATH 151 MATH 161	MATH 151 MTH 214 MATH 161	MATH 151	MATH 151 MATH 161	MATH 151 MATH 151	MATH 151 MATH 161
Macomb Community College	MATH 1760	MATH 1760	MATH 1760 MTH 176	MATH 1760		MATH 1760 MTH 176	MATH 1760 MTH 155 MTH 166 MTH 176	MATH 1760	MATH 1760 MTH 155 MTH 166 MTH 176 MTH 1760	MATH 1760 MTH 176	MATH 1760	MATH 1760	MATH 1760	MATH 1760 MTH 176
Mid Michigan College	MAT 126	MAT 126	MAT 126		MAT 126	MAT 126		MAT 126	MAT 126	MAT 126	MAT 126	MAT 126	MAT 126	MAT 126
Monroe County Community College	MATH 171	MATH 171	MATH 171	MATH 171		MATH 171	MATH 171 MATH 250	MATH 171	MATH 171	MATH 171	MATH 171	MATH 171	MATH 171	MATH 171
Muskegon Community College	MATH 161	MATH 161	MATH 161	MATH 161		MATH 161	MATH 161	MATH 161	MATH 161	MATH 161	MATH 161	MATH 161	MATH 161	MATH 161
North Central Michigan College	MATH 150	MATH 150	MATH 150 MTH 122	MATH 150		MATH 150 MTH 122	MATH 150	MATH 150	MATH 150 MTH 122	MATH 150 MTH 122	MATH 150	MTH 122	MATH 150	MATH 150 MTH 122
Northwestern Michigan College	MTH 141	MTH 141	MTH 141 SMMA 143	MTH 141		MTH 141	MTH 141	MTH 141	MTH 141 SMMA 142	MTH 141	MTH 141	MTH 141	MTH 141	MTH 141
Oakland Community College	MAT 1730	MAT 1730	MAT 1710 MAT 1714 MAT 172 MAT 1730	MAT 1730		MAT 1730	MAT 171 MAT 1710 MAT 1730	MAT 1730	MAT 171 MAT 1710 MAT 173 MAT 1730	MAT 1730 MAT 1710	MAT 1730	MAT 1730	MAT 1730	MAT 1570 MAT 1710 MAT 1730
Schoolcraft College	MATH 150	MATH 150	MATH 150		MATH 150	MATH 150	MATH 150	MATH 150	MATH 133 MATH 150	MATH 150	MATH 150	MATH 150	MATH 150	MATH 150
Southwestern Michigan College	MATH 141	MATH 141	MATH 141	MATH 141		MATH 141	MATH 141	MATH 141	MATH 141	MATH 141	MATH 141	MATH 141	MATH 141	MATH 141
St. Clair County		MTH 114	MTH 114	MTH 114		MTH 114	MTH 114	MTH 114	MTH 114	MTH 114	MTH 114	MTH 114	MTH 114	MTH 114
Wayne County	MAT 171	MAT 171	MAT 171	MAT 171		MAT 171	MAT 171	MAT 171	MAT 171	MAT 171	MAT 171	MAT 171	MAT 171	MAT 171

MECHANICAL ENGINEERING MiTransfer Pathway Calculus II By Receiving Institution	Central Michigan University	Eastern Michigan University	Ferris State University	Michigan Technological University	Northern Michigan University	Oakland University	Saginaw Valley State University	University of Michigan-Dearborn	University of Michigan-Flint	Andrews University	Kettering University	Lawrence Technological University	University of Detroit Mercy
_,g	MTH 133	MATH 121	MATH 230	MA 2160	MA 163	MTH 1555	MATH 162	MATH 116	MTH 122	MATH 192	MATH 102	MCS 1424	MTH 1420
Community College ¹													
Alpena Community College	MTH 132	MTH 132	MTH 132	MTH 132	MTH 132	MTH 132	MTH 132	MTH 132	MTH 132	MTH 132	MTH 132	MTH 132	MTH 132
Bay de Noc Community College	MATH 142	MATH 142	MA 142 MATH 142	MATH 142	MA 142 MATH 142	MA 142 MATH 142	MATH 142	MA 142	MATH 142	MATH 142	MA 142	MATH 142	MATH 142
Delta College	MTH 162	MTH 162	MTH 162	MTH 162	MTH 162		MTH 162	MTH 162	MTH 162	MTH 162	MTH 162	MATH 180 MTH 162	MTH 162
Glen Oaks Community College	MATH 162	MATH 162	MATH 162 NSM 162	MATH 162	MATH 162	MATH 162	MATH 162	NSM 162	NSM 162 MATH 162	MATH 162	MATH 162 NSM 162	MATH 162	MATH 162 NSM 162
Gogebic Community College	MTH 151	MTH 151	MTH 151	MTH 151	MTH 151	MTH 151 MTH 152 MTH 151	MTH 151	MTH 151	MTH 151	See Appendix D	MTH 151	MTH 151	MTH 151
Grand Rapids Community College	MA 134	MA 134	MA 134	MA 134	MA 134	MA 134	MA 134	MA 134	MA 134	MA 134	MA 134	MA 134	MA 134
Henry Ford College	MATH 183	MATH 183	MATH 183	MATH 183	MATH 183	MATH 183	MATH 183	MATH 183 MATH 48	MATH 183	MATH 183	MATH 183	MATH 183	MATH 183
Jackson College	MAT 154	MAT 154	MAT 154 MTH 154	MAT 154	MAT 154 MTH 154	MAT 154	MAT 154	MAT 154 MTH 154	MTH 154 MAT 154	MAT 154 MTH 154	MTH 154	MAT 154	MAT 154 MTH 154
Kellogg Community College	MATH 142	MATH 142	MATH 142	MATH 142	MATH 142	MATH 142	MATH 142	MATH 141B MATH 142	MATH 142	MATH 162	MATH 142	MATH 142	MATH 142
Lake Michigan College	MATH 201	MATH 201	MATH 201	MATH 201	MATH 201	MATH 201	MATH 201	MATH 201	MATH 201	MATH 201	MATH 201	MATH 201	MATH 201
Lansing Community College	MATH 152	MATH 152	MATH 152 MATH 162 MTH 215	MATH 162 MATH 152	MATH 152 MATH 162	MATH 152 MATH 162	MATH 162 MATH 152	MATH 152 MATH 162	MATH 152 MATH 162 MTH 215	MATH 152	MATH 152 MATH 162	MATH 152	MATH 152 MATH 162
Macomb Community College	MATH 1770	MATH 1770	MATH 1770 MTH 177	MATH 1770	MATH 1770 MTH 177	MATH 1770 MTH 156 MTH 167 MTH 177	MATH 1770	MATH 1770 MTH 156 MTH 167 MTH 177	MTH 177 MATH 1770	MATH 1770	MATH 1770	MATH 1770	MATH 1770 MTH 177
Mid Michigan College	MAT 225	MAT 225	MAT 225	MAT 225	MAT 225	MAT 225	MAT 225	MAT 225	MAT 225	MAT 225	MAT 225	MAT 225	MAT 225
Monroe County Community College	MATH 172	MATH 172	MATH 172	MATH 172	MATH 172	MATH 172	MATH 172	MATH 172	MATH 172	MATH 172	MATH 172	MATH 172	MATH 172
Muskegon Community College	MATH 162A	MATH 162A	MATH 162 MATH 162A	MATH 162A MATH 162	MATH 162 MATH 162A	MATH 162 MATH 162A MATH 272	MATH 162	MATH 162 MATH 272	MATH 162	MATH 162	MATH 162	MATH 162	MATH 162
North Central Michigan College	MATH 210	MATH 210	MATH 210 MTH 211	MATH 210	MATH 210 MTH 211	MATH 210	MATH 210	MTH 211	MATH 210	MATH 210 MATH 250	MATH 210 MTH 211	MATH 210	MATH 210 MTH 211
Northwestern Michigan College	MTH 142	MTH 142	MTH 142 MTH 211 SMMA 242 MAT	MTH 142	MTH 142		MTH 142	MTH 142 SMMA 143	MTH 142	MTH 142	MTH 142	MTH 142	MTH 142
Oakland Community College	MAT 1740	MAT 1740	MAT 1720 MAT 2710 MAT 1740 MAT 271	MAT 1740	MAT 1740	MAT 1740 MAT 172 MAT 271 MAT 273 MAT 271 MAT 172	MAT 1740	MAT 172 MAT 1720 MAT 174 MAT 1740	MAT 1740 MAT 1720	MAT 174 MAT 1740	MAT 1740	MAT 1740	MAT 1720 MAT 1740
Schoolcraft College	MATH 151	MATH 151	MATH 151	MATH 151	MATH 151	MATH 151	MATH 151	MATH 134 MATH 151	MATH 151	MATH 151	MATH 151	MATH 151	MATH 151
Southwestern Michigan College	MATH 142	MATH 142	MATH 142	MATH 142	MATH 142	MATH 142	MATH 142	MATH 142 MATH 142	MATH 142	MATH 142	MATH 142	MATH 142	MATH 142
St. Clair County Community College	MTH 215	MTH 215	MTH 215	MTH 215	MTH 215	MTH 215	MTH 215	MTH 215	MTH 215	MTH 215	MTH 215	MTH 215	MTH 215
Wayne County Community College	MAT 172	MAT 172	MAT 172	MAT 172	MAT 172	MAT 172	MAT 172	MAT 172	MAT 172	MAT 172	MAT 172	MAT 172	MAT 172
District											nmunity Colleg		
							ical Engineerir		.,		,		

MECHANICAL ENGINEERING	gan	gan	σ.	<u></u>	igan	rsity	ley sity	of rbom	n J	rsity		- Eq.	o cy
MiTransfer Pathway Calculus III	Central Michigan University	Eastern Michigan University	Ferris State University	Michigan Technological University	Northern Michigan University	Oakland University	Saginaw Valley State University	University of Michigan-Dearbom	University of Michigan-Flint	Andrews University	Kettering University	Lawrence Technological University	University of Detroit Mercy
By Receiving Institution	MTH 233	MATH	MATH	MA 3160	Ž MA 265	MTH	MATH	MATH	MTH 222	MATH	MATH	MCS	MTH 2410
Community College ^{1, 2}		223	320			2554	261	215		240	203	2414	
Alpena Community College	MTH 231	MTH 231	MTH 231	MTH 231	MTH 231	MTH 231	MTH 231	MTH 231	MTH 231	MTH 231	MTH 231	MTH 231	MTH 231
Bay de Noc Community College	MATH 243	MATH 243	MA 243 MATH 243	MATH 243	MA 243 MATH 243	MA 243 MATH 243	MATH 243	MA 243	MATH 243	MATH 243	MA 243 MATH 243	MATH 243	MATH 243
Delta College	MTH 261	MTH 261	MTH 261	MTH 261	MTH 261	MTH 261	MTH 261	MTH 261	MTH 261	MTH 261	MTH 261	MATH 250 MTH 261	MTH 261
Gogebic Community College	MTH 152	MTH 152	MTH 152	MTH 152	MTH 152	MTH 152 MTH 151 MTH 152	MTH 152	MTH 152	MTH 152	MTH 152	See Appendix D	MTH 152	MTH 152
Grand Rapids Community College	MA 255	MA 255	MA 255	MA 255	MA 255	MA 255	MA 255	MA 255	MA 255	MA 255	MA 255	MA 255	MA 255
Henry Ford College	MATH 280	MATH 280	MATH 280	MATH 280	MATH 280	MATH 280	MATH 280	MATH 280 MATH 53 MATH 54	See Appendix D	MATH 280	MATH 280	MATH 280	MATH 280
Jackson College	MAT 251	MAT 251	MAT 251 MTH 251	MAT 251	MAT 251 MTH 251	MAT 251	MAT 251	MAT 251 MTH 251	See Appendix D	MAT 251	MTH 251	MAT 251	MAT 251 MTH 251
Kellogg Community College	MATH 241	MATH 241	MATH 241	MATH 241	MATH 241	MATH 241	MATH 241	MATH 241 MATH 241A	MATH 241	MATH 241 MATH 241A MATH 241B	MATH 241	MATH 241	MATH 241
Lake Michigan College	MATH 202	MATH 202	MATH 202	MATH 202	MATH 202	MATH 202	MATH 202	MATH 202	MATH 202	MATH 202 MATH 202	MATH 202	MATH 202	MATH 202
Lansing Community College	MATH 253	MATH 253	MATH 253 MTH 216	MATH 253	MATH 253	MATH 253	MATH 253	MATH 253	MATH 253 MTH 216	MATH 253	MATH 253	MATH 253	MATH 253
Macomb Community College	MATH 2760	MATH 2760	MATH 2760 MTH 276	MATH 2760	MATH 2760 MTH 276	MATH 2760 MTH 266 MTH 276	MATH 2760	MATH 2760 MTH 276 MTH 267 MTH 266	MATH 2760	MATH 2760	MATH 2760	MATH 2760	MATH 2760
Mid Michigan College	MAT 226	MAT 226	MAT 226	MAT 226	MAT 226	MAT 226	MAT 226	MAT 226	See Appendix D	MAT 226	MAT 226	MAT 226	MAT 226
Monroe County Community College	MATH 271	MATH 271	MATH 271	MATH 271	MATH 271	MATH 252 MATH 271	MATH 271	MATH 271	MATH 271	MATH 271	MATH 271	MATH 271	MATH 271
Muskegon Community College	MATH 283	MATH 283	MATH 283	MATH 283	MATH 283	MATH 283	MATH 283	MATH 283	See Appendix D	See Appendix D	MATH 283	MATH 283	MATH 283
North Central Michigan College	MATH 215	MATH 215	MATH 215 MTH 212	MATH 215	MATH 215 MTH 212	MATH 215	MATH 215	MTH 212	MATH 215	MATH 215	MATH 215 MTH 212	MATH 215	MATH 215 MTH 212
Northwestern Michigan College	MTH 241	MTH 241	MTH 241 SMMA 243	MTH 241	MTH 241	MTH 241	MTH 241	MTH 241 MTH 241B	MTH 241	MTH 241	MTH 241	MTH 241 MTH 131	MTH 241
Oakland Community College	MAT 2740	MAT 2740	MAT 2710 MAT 2730 MAT 273 MAT 2740		MAT 2740	MAT 2740 MAT 271 MAT 273 MAT 273 MAT 271 MAT 172	MAT 2740	MAT 2710 MAT 274 MAT 2740 MAT 271 MAT 273 MAT 2710 MAT 2730	MAT 2740	MAT 2740 MAT 271		MAT 2740	MAT 2740
Schoolcraft College	MATH 240	MATH 240	MATH 240	MATH 240	MATH 240	MATH 240	MATH 240	MATH 233 MATH 240	MATH 240	MATH 240	MATH 240	MATH 240	MATH 240
Southwestern Michigan College	MATH 201	MATH 201	MATH 201	MATH 201	MATH 201	MATH 201	MATH 201	MATH 201 MATH 201	See Appendix D	MATH 201	MATH 201	MATH 201	MATH 201
St. Clair County Community College	MTH 216	MTH 216	MTH 216	MTH 216	MTH 216	MTH 216	MTH 216	MTH 216	MTH 216	MTH 216	MTH 216	MTH 216	MTH 216
Wayne County Community College District	MAT 271	MAT 271	MAT 271	MAT 271	MAT 271	MAT 271	MAT 271	MAT 271	MAT 271	See Appendix D		MAT 271	MAT 271
		and West Sho	re Community	College are not	ty College, Moi participating in hanical Enginee	the Mechanic	al Engineering F	athway.	College, Wash	teriaw Commur	mry college,		

MECHANICAL ENGINEERING MiTransfer Pathway Chemistry I	Central Michigan University	Eastern Michigan University	Eastern Michigan University	Ferris State University	Michigan Technological University	Michigan Technological University	Northern Michigan University	Oakland University	Oakland University	Saginaw Valley State University	University of Michigan-Dearborn	University of Michigan-Flint	Andrews University	Kettering University	Kettering University	Lawrence Technological University	Lawrence Technological University	University of Detroit Mercy	University of Detroit Mercy
Bv Receiving Institution	CHM 131	CHEM 121	CHEM 122	CHEM 121		CH 1151	Ď CH 111	CHM 1440	CHM 1470	CHEM	E CHEM 134	CHM 260	CHEM 131	CHEM 135	CHEM 135	CHM 1213	CHM 1221	CHM 1070	CHM 1100
Community College ¹ Alpena Community	CEM 121	CEM 121	CEM 121	CEM 121	CEM 121	CEM 121	CEM 121	CEM 121	CEM 121	CEM 121	CEM 121	CEM 121	CEM 121	CEM 111	CEM 111	CEM 121	CEM 121	CEM 121	CEM 121
College Bay de Noc Community College	CHEM 110	CHEM 110	CHEM 110	CH 105 CHEM 110	CHEM 108 CHEM 110	CHEM 108 CHEM 110	CH 105 CHEM 108 CHEM 110	CH 105 CHEM 110	CH 105 CHEM 110	CHEM 110	CHEM 110	CHEM 110 CH 103 CH 105	CHEM 110 CH 105	CEM 121	CEM 121	CHEM 110	CHEM 110	CHEM 110	CHEM 110
Delta College	CHM 111 CHM 111H	CHM 111 CHM 111H	CHM 111 CHM 111H	CHM 111 CHM 111H	CHM 111	CHM 111	CHM 111 CHM 111H	CHM 111 CHM 111	CHM 111 CHM 111	CHM 111 CHM 111H	CHM 111	HM 111 CHM 111 CHM 111H	CHM 111H CHM 111	CHM 100W CHM 105W CHM 111 CHM	CHM 100W CHM 105W CHM 111	CHEM 131 CHEM 132 CHM 111	CHEM 131L CHM 111	CHM 111	CHM 111
Glen Oaks Community	CHEM 133	CHEM 133	CHEM 133	CHEM 133	СНЕМ	СНЕМ	CHEM 133	CHEM 133	CHEM 133	СНЕМ	CHEM	NSC 133	NSC 133	111H CHEM 130	CHM 111H CHEM 130	СНЕМ	CHEM 133	CHEM 133	CHEM 133
College Gogebic Community College	133 CHM 151	133 CHM 151	133 CHM 151	NSC 133 CHM 151	133 CHM 151	133 CHM 151	133 CHM 151	NSC 133 CHM 151	NSC 133 CHM 151	133 CHM 151	133 CHM 151	CHEM 133 CHM 151	CHEM 133 CHM 151	NSC 133 CHM 151	NSC 133 CHM 151	133 CHM 151	133 CHM 151	CHM 151	CHM 151
Grand Rapids Community College	CHM 130 CHM 131	CHM 130	CHM 131	CHM 130 CHM 131 CHM 150 CHM 151 CM 103 CM 113	CHM 130	CHM 131	CHM 130 CHM 131 CM 103 CM 113	CHM 130 CHM 150	CHM 131 CHM 151	CHM 130	CHM 131 CHM 130 CHM 151 CHM 150	CM 103	CM 103 CM 113 CHM 130	CHM 130	CHM 130	СНМ 130	CHM 131	CHM 130	CHM 131
Henry Ford College	CHEM 141	CHEM 141	CHEM 141	CHEM 141	CHEM 141	CHEM 141	CHEM 141	CHEM 141	CHEM 141	CHEM 141	CHEM 141	CHEM 141	CHEM 141 CHEM 141	CHEM 131	CHEM 131	CHEM 141	CHEM 141	CHEM 141	CHEM 141
Jackson College	CEM 141	CEM 141	CEM 141	CEM 141 CEM 151	CEM 141	CEM 141	CEM 141 CEM 151	CEM 141 CEM 151	CEM 141 CEM 151	CEM 141	CEM 141	CEM 130 CEM 141	CEM 141	CEM 141 CEM 151	CEM 141 CEM 151	CEM 141	CEM 141 CEM 142	CEM 141	CEM 141
Kellogg Community College	CHEM 110	CHEM 110	CHEM 110	CHEM 110	CHEM 110	CHEM 110	CHEM 110	CHEM 110	CHEM 110	CHEM 110	CHEM 110L CHEM 110	CHEM 110	CHEM 110A CHEM 110B CHEM 110C CHEM 110	CHEM 100 CHEM 110	CHEM 100 CHEM 110	CHEM 110	CHEM 110 CHEM 111	CHEM 110	CHEM 110
Lake Michigan College	CHEM 111	CHEM 111	CHEM 111	CHEM 111	CHEM 111	CHEM 111	CHEM 111	CHEM 111	CHEM 111	CHEM 111	CHEM 111	CHEM 111	CHEM 111 CHEM 101	CHEM 101	CHEM 101	chem 111	chem 111	CHEM 111	CHEM 111
Lansing Community College	CHEM 151 CHEM 161	CHEM 151	CHEM 161	CEM 110 CEM 111 CEM 181 CHEM 151 CHEM 161	CHEM 151	CHEM 161	CHEM 161 CHEM 151	CHEM 151	CHEM 161	CHEM 151	CHEM 161 CHEM 151	CHEM 151 CEM 171	CHEM 151	CHEM 125 CHEM 151	CHEM 125 CHEM 151	CHEM 151	CHEM 161	CHEM 151	CHEM 161
Macomb Community College	CHEM 1170	CHEM 1170	CHEM 1170	CHEM 1170 CHM 117	CHEM 1170	CHEM 1170	CHEM 1170 CHM 117	CHEM 1170 CHM 117	CHEM 1170 CHM 117	CHEM 1170	CHEM 1170	CHEM 1170	CHM 117 CHEM	CHEM 1170	CHEM 1170	CHEM 1170	CHEM 1170	CHEM 1170	CHEM 1170
Mid Michigan College	CHM 111	CHM 111	CHM 111	CHM 111	CHM 111	CHM 111	CHM 111	CHM 111	CHM 111	CHM 111	CHM 111	CHM 111	1170 CHM 111	CHM 111	CHM 111	CHM 111	CHM 111	CHM 111	CHM 111
Monroe County Community College	CHEM 151	CHEM 151	CHEM 151	CHEM 151	CHEM 151	CHEM 151	CHEM 151	CHEM 151	CHEM 151	CHEM 151	CHEM 151	CHEM 151	CHEM 151	CHEM 145 CHEM	CHEM 145 CHEM 151	CHEM 151	CHEM 151	CHEM 151	CHEM 151
Muskegon Community College	CHEM 101LE CHEM 101A	CHEM 101LEC	CHEM 101A	CHEM 101A	CHEM 101	CHEM 101A	CHEM 101A 101A 101A 101A 101A 101A 101A 101	CHEM 101	CHEM 101A	CHEM 101	CHEM 101A CHEM 101L	CHEM 101LEC	CHEM 190 CHEM 101LEC	151 CHEM 100 LEC CHEM 101 LEC	CHEM 100 LEC CHEM 101 LEC	CHEM 101	CHEM 101A	CHEM 101LEC	CHEM 101A
North Central Michigan College	CEM 121	CEM 121	CEM 121	CEM 121	CEM 121	CEM 121	CEM 121	CEM 121	CEM 121	CEM 121	CEM 121	CEM 121	CEM 121	CEM 121	CEM 121	CEM 121	CEM 121 CEM 122	CEM 121	CEM 121
Northwestern Michigan College	CHM 150 CHM 150L	CHM 150	CHM 150L	CHM 150 CHM 150L CHM 150R SMCH 101 SMCH 102 SMCH 103 SMCH 104	СНМ 150	CHM 150	CHM 150R CHM 150 CHM 150L	CHM 150 CHM 150R CHM 150 CHM 150 CHM 150L CHM 150R	CHM 150 CHM 150R CHM 150 CHM 150 CHM 150L CHM 150R	СНМ 150	CHM 150 CHM 150R CHM 150	CHM 150	CHM 150L CHM 150	CHM 150	CHM 101 CHM 150	CHM 150 CHM 150L	CHM 150 CHM 150L	CHM 150	CHM 150
Oakland Community College	CHE 1510	CHE 1510	CHE 1510	CHE 151 CHE 1510	CHE 1510 CHEM 1510	CHE 1510 CHEM 1510	CHE 1510	CHE 151 CHE 1510	CHE 151	CHE 1510	CHE 1510	CHE 1510	CHE 1510	CHE 1000 CHE 1510	CHE 1000 CHE 1510	CHE 1510	CHE 1510	CHE 1510	CHE 1510
Schoolcraft College	CHEM 111	CHEM 111	CHEM 111	CHEM 111	CHEM 111	CHEM 111	CHEM 111	CHEM 111	CHEM 111	CHEM 111	CHEM 111	CHEM 111	CHEM 111 CHEM 111	CHEM 051 CHEM 111	CHEM 051 CHEM 111	CHEM 111	CHEM 111	CHEM 111	CHEM 111
Southwestern Michigan College	CHEM 101	CHEM 101	CHEM 101	CHEM 101	CHEM 101	CHEM 101	CHEM 101	CHEM 101	CHEM 101 CHEM 102	CHEM 101	CHEM 101 CHEM 101	CHEM 101	CHEM 101 CHEM	CHEM 101	CHEM 101	CHEM 101	CHEM 101	CHEM 101	CHEM 101
St. Clair County Community College	CHM 111	CHM 111	CHM 111	CHM 111	CHM 111	CHM 111	CHM 111	CHM 111	102 CHM 111	CHM 111	101 CHM 111	CHM 111	101 CHM 111	CHM 101 CHM 111	CHM 101 CHM 111	CHM 111 CHM 111	CHM 111	CHM 111	CHM 111
Wayne County Community College District	CHM 136		CHM 136 unity College, I nical Engineeri	CHM 130 CHM 131 CHM 136 CHM 151 Girtland Communit ng Pathway.	CHM 136 cy College, Mor	CHM 136	CHM 136	CHM 136	CHM 136	CHM 136	CHM 136 munity College	CHM 136 e, and West Sh	CHM 136	CHM 136	CHM 136	CHM 136	СНМ 136	CHM 136	CHM 136

MECHANICAL ENGINEERING MiTransfer Pathway Differential Equations By Receiving Institution	Central Michigan University	Eastern Michigan University	Ferris State University	Michigan Technological University	Michigan Technological University	Michigan Technological University	Michigan Technological University	Northern Michigan University	Oakland University	Oakland University	Saginaw Valley State University	University of Michigan-Dearborn	University of Michigan-Dearborn	University of Michigan-Flint	Andrews University	Kettering University	Lawrence Technological University	University of Detroit Mercy
	MTH 334	MATH 325	MATH 330	MA 2320	MA 2330	MA 3520 O	MA 3530	MA 361		APM 2559	MATH 262	MATH 216 MATH 216 0	MATH 228	MTH 303	MATH 286	MATH 204	MCS 2423	MTH 3720
Community College ^{1, 2}				WIA 2320 C	M W 2330	WIA 3320 C	W W 2330		Ar W 2555 C	N. A. W. 2333		WATTE	WWATT 220					
Alpena Community College	MTH 232	MTH 232	MTH 232	MTH 231			MTH 232	MTH 232		MTH 232	MTH 232	MTH 232		See Appendix D	MTH 232	MTH 232	MTH 232	MTH 232
Bay de Noc Community College	MATH 244	MATH 244	MA 244 MATH 244		MATH 250		MATH 244	MA 244 MATH 244		MA 244 MATH 244	MATH 244	MA 244		See Appendix D	MATH 244	MA 244	MATH 244 MATH	MATH 244
Delta College	MTH 264	MTH 264	MTH 264		MTH 263		MTH 264	MTH 264		MTH 264	MTH 264	MTH 264		See Appendix D	MTH 264	MTH 264	280 MTH 264	MTH 264
Gogebic Community College	MTH 220	MTH 220	MATH 220 MTH 220	MTH 220		MTH 220		MTH 220	MTH 220		MTH 220		MTH 220	See Appendix D	MTH 220	See Appendix D	MTH 220	MTH 220
Grand Rapids Community College	MA 259	MA 259	MA 257 MA 259	MA 257		MA 257		MA 259	MA 257	MA 259	MA 257	MA 257		See Appendix D	MA 257	MA 257	MA 257	MA 257
Henry Ford College	MATH 288	MATH 288	MATH 289		MAT 283		MATH 288	MATH 288 MATH 289		MATH 288 MATH 289	MATH 289	MATH 286 MATH 289 MATH 58	MATH 288	See	MATH 288	MATH 289	MATH 288 MATH 289	MATH 288 MATH 289
Jackson College	MAT 254	MAT 254	MAT 254 MTH 254				MAT 254	MAT 254 MTH 254		MAT 254	MAT 254	MAT 254 MTH 254		See Appendix D	MAT 254	MTH 254	MAT 254	MAT 254 MTH 254
Kellogg Community College	MATH 242	MATH 242	MATH 242				MATH 242	MATH 242	MATH 242		MATH 242	MATH 241B	MATH 242	MATH 242	MATH 242 MATH 242A MATH 242B	MATH 242	MATH 242	MATH 242
Lake Michigan College	MATH 252	MATH 252	MATH 252 MTH 252	MATH 252		MATH 252		MATH 252		MATH 252	MATH 252	MATH 252		MATH 252	MATH 252	MATH 252	MATH 252	MATH 252
Lansing Community College	MATH 254	MATH 254	MATH 254		MATH 260		MATH 254	MATH 254		MATH 254	MATH 254	MATH 254		MATH 254	MATH 254	MATH 254	MATH 254	MATH 254
Macomb Community College	MATH 2770	MATH 2770	MATH 2770 MTH 277		MATH 2000		MATH 2770	MATH 2770 MTH 277		MATH 2770 MTH 277	MATH 2770	MATH 2770 MTH 270 MTH 277		See Appendix D	MATH 2770	MATH 2770	MATH 2770	MATH 2770
Monroe County Community College	MATH 273	MATH 273	MATH 273		MATH 251		MATH 273	MATH 273		MATH 273	MATH 273	MATH 272 MATH 273		See Appendix D	MATH 273	MATH 273	MATH 273	MATH 273
Muskegon Community College	MATH 295	MATH 295	MATH 294 MATH 295	MATH 276			MATH 295	MATH 295	MATH 295	MATH 294	MATH 295	MATH 294		MATH 295	MATH 295	MATH 295	MATH 295	MATH 295
North Central Michigan College	MATH 225	MATH 225	MATH 225 MTH 215		MATH 235		MATH 225	MATH 225 MTH 215		MATH 225 MTH 215	MATH 225	MATH 225		See Appendix D	MATH 225	MTH 215	MATH 225	MATH 225 MTH 215
Northwestern Michigan College	MTH 251	MTH 251	MTH 251	MTH 251		MTH 251		MTH 251	MTH 251		MTH 251	MTH 251		MTH 251	MTH 251	MTH 251	MTH 251	MTH 251
Oakland Community College	MAT 2810	MAT 2810	MAT 281		MAT 2880	MAT 2810	MAT 2810	MAT 2810		MAT 281	MAT 2810	MAT 2720 MAT 281 MAT 2810		See Appendix D	MAT 2810	MAT 2810	MAT 2810	MAT 2810
Schoolcraft College	MATH 252	MATH 252	MATH 252		MATH 230		MATH 252	MATH 252		MATH 252	MATH 252	MATH 235 MATH 252		See Appendix D	MATH 252	MATH 252	MATH 252	MATH 252
Southwestern Michigan College	MATH 205	MATH 205	MATH 204 MATH 205	MATH 205		MATH 205		MATH 204 MATH 205	MATH 205	MATH 204	MATH 204		MATH 205	MATH 205	MATH 204 MATH 205	MATH 204	MATH 205	MATH 204
St. Clair County Community College	MTH 217	MTH 217	MTH 217		MTH 210		MTH 217	MTH 217		MTH 217	MTH 217	MTH 217		See Appendix D	MTH 217	MTH 217	MTH 217	MTH 217
Wayne County Community College District		MAT 273		No. of C	MAT 272		MAT 273		Calla		MAT 273	MAT 273		See Appendix D		MAT 273	MAT 273	MAT 273
		in the Mechai	nity College, Kir nical Engineerin ege and Mid Mi	g Pathway.								d West Shore C	ommunity Coll	ege are not par	ticipating			

MECHANICAL ENGINEERING MiTransfer Pathway Dynamics By Receiving Institution	Central Michigan University	Eastern Michigan University	Eastern Michigan University	Ferris State University	Michigan Technological University	Northern Michigan University	Oakland University	Saginaw Valley State University	University of Michigan-Dearborn	University of Michigan-Flint	Andrews University	Kettering University	Lawrence Technological University	University of Detroit Mercy
	EGR 253	ME 312	PHY 230	MECH 360	MEEM 2700	MET 310	ME 3200	ME 252	ME 345	EGR 370	ENGR 285	MECH 310	EME 3043	ENGR 3130
Community College ^{1, 2}		ME 312 O	R PHY 230											
Bay de Noc Community College	PHYS 261		PHYS 261	PHYS 261	PHYS 261	PH 261 PHYS 261	PHYS 261	PHYS 261	See Appendix D	PHYS 261	See Appendix D	See Appendix D	PHYS 261	PHYS 261
Delta College	EGR 216	EGR 216		EGR 216	EGR 216	EGR 216	EGR 216	EGR 216	See Appendix D	EGR 216	EGR 216	EGR 216	EGR 216	EGR 216
Henry Ford College	ENGR 233	ENGR 232 ENGR 233 PHYS 231 ENGR 233 PHYS 231		ENGR 233	ENGR 233	ENGR 233	ENGR 233	ENGR 233	See Appendix D	ENGR 233	ENGR 233	ENGR 233	ENGR 233	ENGR 233
Kellogg Community College	ENGR 258	ENGR 258		See Appendix D	PHYS 243 ENGR 258	ENGR 258	ENGR 258	ENGR 258	See Appendix D	ENGR 258	See Appendix D	ENGR 258	ENGR 258	ENGR 258
Muskegon Community College	ENGR 204	ENGR 204		ENGR 204	ENGR 204	ENGR 204	ENGR 204	ENGR 204	See Appendix D	ENGR 204	ENGR 204	ENGR 204	ENGR 204	ENGR 204
Northwestern Michigan College	EGR 203	EGR 201 EGR 203 PHY 221 PHY 221L EGR 203 PHY 221 PHY 221L		EGR 203	EGR 203	EGR 203	EGR 203	EGR 203	See Appendix D	EGR 203	EGR 203	EGR 203	EGR 203	EGR 203
Schoolcraft College	ENGR 203	ENGR 203		ENGR 203	ENGR 203	ENGR 203	ENGR 203	ENGR 203	See Appendix D	ENGR 203	See Appendix D	ENGR 203	ENGR 203	ENGR 203

^{1.} Kalamazoo Valley Community College, Kirtland Community College, Montcalm Community College, Mott Community College, Washtenaw Community College, and West Shore Community College

are not participating in the Mechanical Engineering Pathway.

2. Alpena Community College, Glen Oaks Community College, Gogebic Community College, Grand Rapids Community College, Jackson College, Lake Michigan College, Lansing Community College, Macomb Community College, Michigan College, Monroe County Community College, North Central Michigan College, Oakland Community College, St. Clair County Community College, and Wayne County Community College District, are participating in the Mechanical Engineering Pathway, but do not offer a Dynamics course.

MECHANICAL ENGINEERING MiTransfer Pathway Physics I (Calc-based, w/lab) By Receiving Institution	Central Michigan University	Central Michigan University	Eastern Michigan University	Ferris State University	Michigan Technological University	Michigan Technological University	Northern Michigan University	Oakland University	Oakland University	Saginaw Valley State University	Saginaw Valley State University	University of Michigan-Dearborn	University of Michigan - Flint	Andrews University	Andrews University	Kettering University	Kettering University	Lawrence Technological University	Lawrence Technological University	University of Detroit Mercy	University of Detroit Mercy
Community College ¹	PHY 1450R	PHY 175	PHY 223	PHYS 211	PH 1100	PH 2100	PH 220	PHY 1100	PHY 1510	PHYS 211	PHYS 211L	PHYS 150	PHY 243	PHYS 241	PHYS 271	PHYS 114	PHYS 115	PHY 2413	PHY 2421	PHY 1600	PHY 1610
Alpena Community College	PHY 221	PHY 221	PHY 221	PHY 121	PHY 221	PHY 221	PHY 221	PHY 121 PHY 221	PHY 221	PHY 221	PHY 221	PHY 221	PHY 221	PHY 221	PHY 221	PHY 221	PHY 221	PHY 221	PHY 221	PHY 221	PHY 221
Bay de Noc Community College	PHYS 205	PHYS 205	PHYS 205	PH 201 PHYS 701	PHYS 205	PHYS 205	PH 201 PH 203 PH 201 PH 203 PH 205 PHYS	PH 201 PH 205 PHYS 201 PHYS 205	PH 205 PHYS 205	PHYS 205	PHYS 205	PH 203	PHYS 205	PHYS 205	PHYS 205	PH 201 PH 203 PH 205	PH 201 PH 203 PH 205	PHYS 205	PHYS 205	PHYS 205	PHYS 205
Delta College	PHY 211	PHY 211	PHY 211	PHY 111	PHY 211	PHY 211	205 PHY 211	PHY 111 PHY 211	PHY 211	PHY 211	PHY 211	PHY 211	PHY 211	PHY 211	PHY 211	PHY 211	PHY 211	PHYS 287 PHY 211	PHYS 2871 PHY 211	PHY 211	PHY 211
Glen Oaks Community College	PHYS 251	PHYS 251	PHYS 251	NSP 151 NSP 152 NSP 241 PHYS 155	PHYS 251	PHYS 251	PHYS 251 PHYS 252	PHYS 251 PHYS 252	PHYS 251	PHYS 251	PHYS 251	PHYS 251	NSP 251 NSP 252 PHYS 251 PHYS 252 NSP 155	PHYS 251 NSP 241	PHYS 251	PHYS 251	PHYS 251	PHYS 251	PHYS 252	NSP 154 NSP 251 PHYS 251 PHYS 155 PHYS 251	NSP 252 NSP 253 PHYS 252 PHYS 253
Gogebic Community College	PHY 251	PHY 251	PHY 251	PHY 201	PHY 251	PHY 251	PHY 251	PHY 201 PHY 251	PHY 251	PHY 251	PHY 251	PHY 251	PHY 251	PHY 251	PHY 251	PHY 251	PHY 251	PHY 251	PHY 251	PHY 251	PHY 251
Grand Rapids Community College	PH 245	PH 245	PH 245	PH 125	PH 245	PH 245	PH 245	PH 125 PH 245	PH 245	PH 245	PH 245	PH 245	PH 245	PH 247 PH 245 PH 146	PH 245	PH 245	PH 245	PH 245	PH 245	PH 245	PH 245
Henry Ford College	PHYS 231	PHYS 231	ENGR 737 ENGR 733 PHYS 231 ENGR 737 PHYS 731 ENGR 733 PHYS 231 PHYS 231 PHYS 231	PHYS 131	PHYS 711 PHYS 731	PHYS 711 PHYS 731	PHYS 731 PHYS 741 PHYS 243 PHYS 747	PHYS 131 PHYS 231	PHYS 231	PHYS 231	PHYS 231	PHYS 231 PHYS 241 PHYS 53	PHYS 231	See Appendix D	See Appendix D	PHYS 231	PHYS 231	PHYS 231	PHYS 231	PHYS 733 PHYS 741 PHYS 243 PHYS 731	PHYS 733 PHYS 741 PHYS 243 PHYS 731
Jackson College	PHY 251	PHY 251	PHY 251	PHY 231	PHY 251	PHY 251	PHY 251	PHY 231 PHY 251	PHY 251	PHY 251	PHY 251	PHY 251	PHY 251	See Appendix D	See Appendix D	PHY 251	PHY 251	PHY 251	PHY 251	PHY 251	PHY 251
Kellogg Community College	PHYS 221	PHYS 221	PHYS 221	PHYS 111	PHYS 221	PHYS 221	PHYS 201 PHYS 221	PHYS 111 PHYS 221	PHYS 221	PHYS 221	PHYS 221	PHYS 201 PHYS 221	PHYS 221	PHYS 221	PHYS 221	PHYS 201	PHYS 201	PHYS 221	PHYS 221	PHYS 221	PHYS 221
Lake Michigan College	PHYS 201	PHYS 201	PHYS 201	PHYS 101	PHYS 201	PHYS 201	PHYS 201	PHYS 101 PHYS 201	PHYS 201	PHYS 201	PHYS 201	PHYS 201	PHYS 201	PHYS 201	PHYS 201	PHYS 201	PHYS 201	phys 201	phys 201	PHYS 201	PHYS 201
Lansing Community College	PHYS 251	PHYS 251	PHYS 251	PHY 201 PHY 202 PHY 203 PHYS 201 PHYS 275 PHYS	PHYS 251	PHYS 251	PHYS 775 PHYS 715 PHYS 775 PHYS 215 PHYS 751	PHYS 771 PHYS 751 PHYS 751 PHYS 751 PHYS 221	PHYS 251 PHYS 251 PHYS 271	PHYS 251	PHYS 251	PHYS 215 PHYS 251 PHYS 215 PHYS 225	PHYS 215 PHYS 225 PHYS 251 PHY 201	PHYS 251 PHYS 251	PHYS 251	PHYS 251	PHYS 251	PHY 251	PHY 251	PHYS 251	PHYS 251
Macomb Community College	PHYS 2220	PHYS 2220	PHYS 2220	PHY 111 PHY 116 PHY 116 PHYS 1160 PHYS 1180	PHYS 2220	PHYS 2220	PHY 219 PHY 291 PHYS 2190 PHYS 2220	PHYS 1180 PHY 117 PHY 117 PHY 218 PHY 219 PHY 219 PHYS 1160 PHYS 2190 PHYS 2190 PHYS 2190 PHY 117 PHYS 1180 PHY 105	PHYS 7270 PHY 218 PHY 219 PHYS 2180 2180 2190 PHYS 7190 PHYS 7190 PHY 218 PHYS 7190 PHY 218 PHYS 7190 PHYS	PHYS 2220	PHYS 2220	PHY 125 PHY 218 PHYS 2180 PHYS 2220	PHYS 2220	PHYS 2220	PHYS 2220	PHYS 2220	PHYS 2220	PHYS 2220	PHYS 2220	PHYS 2220	PHYS 2220
Mid Michigan College Monroe County	PHY 211	PHY 211	PHY 211 METC 220	PHY 105	PHY 211	PHY 211	PHY 211	PHY 211 PHY 151	PHY 211	PHY 211	PHY 211	PHY 211	PHY 211	PHY 211	PHY 211	PHY 211	PHY 211	PHY 211	PHY 211	PHY 211	PHY 211
Community College	PHY 251	PHY 251	PHY 251	PHY 151 PHYS	PHY 251	PHY 251	PHY 251	PHY 251 PHYS	PHY 251	PHY 251	PHY 251	PHY 251	PHY 251 PHYS	PHY 251	PHY 251	PHY 251	PHY 251	PHY 251	PHY 251	PHY 251	PHY 251
Muskegon Community College North Central Michigan College	PHYS 203L&L PHY 230	PHYS 203L&L PHY 230	PHYS 203L&L PHY 230	201 PHYS 201CLL PHY 210	PHYS 203 PHY 230	PHYS 203 PHY 230	PHYS 203 PHY 210 PHY 212 PHY 210 PHY 212	201 PHYS 203 PHY 210 PHY 230	PHYS 203 PHY 230	PHYS 203 PHY 230	PHYS 203 PHY 230	PHYS 203 PHY 230	203 PHYS 201 PHY 230	PHYS 203L&L See Appendix	PHYS 203L&L See Appendix	PHYS 203 PHY 230	PHYS 203 PHY 230	PHYS 203 PHY 230	PHYS 203L PHY 230	PHYS 203 WBL 297 PHA 251 PHA 252 CEM 111	PHYS 203 WBL 297 PHA 251 PHA 252 CEM 111
			EGR 201 PHY 221	PHY 121 PHY			PHY 230 PHY 221 PHY 771R	PHY 121 PHY 221	PHY 221 PHY 222			PHY 221R PHY 221		D	D	PHY 221 PHY 221R	PHY 221 PHY 221R	PHY 221 PHY 221R	PHY 221 PHY 771R	CEM 211 PHY 230 PHY 221 PHY 7711	CEM 211 PHY 230 PHY 221 PHY 2211
Northwestern Michigan College	PHY 221	PHY 221	PHY 7711 EGR 201 EGR 203 PHY 221 PHY 7711 EGR 203 PHY 221 PHY 7711 PHY 7711 PHY 7711 PHY 7211	1711 SMPS 171 SMPS 177 SMPS 123 SMPS 123 SMPS 174	PHY 221	PHY 221	791R PHY 7911 PHY 2211 PHY 2211 PHY 7911 PHY 2211 PHY 221L	PHY 222 PHY 121 PHY 121L		PHY 221	PHY 221		PHY 221	PHY 221	PHY 221	221R	221R	221R	271R	PHY 121 PHY 1711 PHY 122 PHY 1771 PHY 221 PHY 221L	7711 PHY 121 PHY 1711 PHY 122 PHY 1771 PHY 221 PHY 221L
Oakland Community College	PHY 2400	PHY 2400	PHY 2400	PHY 161 PHY 1610	PHY 2400	PHY 2400	PHY 2400	PHY 154 PHY 161 PHY 1610 PHY 2400 PHY 2400 PHY 2400 PHY 1610 PHY	PHY 154 PHY 240 PHY 2400 PHY 2400 PHY 1610	PHY 2400	PHY 2400	PHY 154 PHY 1540 PHY 240 PHY 7400	PHY 2400	PHY 2400	PHY 2400	PHY 2400	PHY 2400	PHY 2400	PHY 2400	PHY 2400	PHY 2400
Schookraft College	PHYS 211	PHYS 211	PHYS 211	PHYS 181	PHYS 211	PHYS 211	PHYS 211	181 PHYS 211 PHYS 211 PHYS 181	211 PHYS 711 PHYS 181	PHYS 211	PHYS 211	PHYS 211	PHYS 211	PHYS 211	PHYS 211	PHYS 211	PHYS 211	PHYS 211	PHYS 211	PHYS 211	PHYS 211
Southwestern Michigan College	PHYS 201	PHYS 201	PHYS 201	PHYS 101	PHYS 201	PHYS 201	PHYS 201	PHYS 101 PHYS 201	PHYS 201 PHY 221	PHYS 201	PHYS 201	PHYS 201	PHYS 201	PHYS 201	PHYS 201	PHYS 201	PHYS 201	PHYS 201	PHYS 201	PHYS 201	PHYS 201 PHY 115
St. Clair County Community College	PHY 221	PHY 221	PHY 221	PHY 121	PHY 221	PHY 221	PHY 221	PHY 171 PHY 221 PHY 121 PHY 221 PHY 235	PHY 121 PHY 221	PHY 221	PHY 221	PHY 221	PHY 221	PHY 221	PHY 221	PHY 221	PHY 221	PHY 221	PHY 221	PHY 115 PHY 121 PHY 122 PHY 221	PHY 115 PHY 121 PHY 122 PHY 221
Wayne County Community College District	PHY 265	PHY 265	PHY 265	PHY 235	PHY 265	PHY 265	PHY 265i PHY 265 PHY 265L munity College	PHY 265	PHY 265	PHY 265 Vashtenaw Cor	PHY 265	PHY 261 PHY 260	PHY 265	See Appendix D	See Appendix D	PHY 265	PHY 265	PHY 265	PHY 265	PHY 265	PHY 265

MECHANICAL ENGINEERING MiTransfer Pathway Physics II (Calc-based, w/lab)	Central Michigan University	Central Michigan University	Eastern Michigan University	Ferris State University	Michigan Technological University	Michigan Technological University	Northem Michigan University	Oakland University	Oakland University	Saginaw Valley State University	Saginaw Valley State University	University of Michigan-Dearborn	University of Michigan-Flint	Andrews University	Andrews University	Kettering University	Kettering University	Lawrence Technological University	Lawrence Technological University	University of Detroit Mercy	University of Detroit Mercy
By Receiving Institution	PHY 146	PHY 176	PHY 224	PHYS 212	PH 1200	PH 2200	PH 221	PHY 1110	PHY 1520	PHYS 212	PHYS 212L	PHYS 151	PHY 245		PHYS 272	PHYS 224	PHYS 225	PHY 2423	PHY 2431	PHY 1620	PHY 1630
Community College ¹ Alpena Community College	PHY 222	PHY 222	PHY 222	PHY 122	PHY 122	PHY 222	PHY 222	PHY 122	PHY 222	PHY 222	PHY 222	PHY 222	PHY 222	PHY 222	PHY 222	PHY 222	PHY 222	PHY 222	PHY 222	PHY 222	PHY 222
				PH 202 PHYS 202	PHY 222		PH 202 PH 204	PHY 222 PH 202 PH 206	PH 206 PHYS 206							PH 202 PH 204	PH 202 PH 204				
Bay de Noc Community College	PHYS 206	PHYS 206	PHYS 206	202	PHYS 206	PHYS 206	PH 202	PHYS 202 PHYS		PHYS 206	PHYS 206	PH 204	PHYS 206		See Appendix	PH 206 PHYS	PH 206 PHYS	PHYS 206	PHYS 206	PHYS 206	PHYS 206
Contage	200	200	200		200		PH 204 PH 206 PHYS	206					200	D	D	206	206	200	200		
Delta College	PHY 212	PHY 212	PHY 212	PHY 112	PHY 112	PHY 212	206 PHY 212	PHY 112	PHY 212	PHY 212	PHY 212	PHY 212	PHY 212	PHY 212	PHY 212	PHY 212	PHY 212	PHYS 288	PHYS 288L	PHY 212	PHY 212
				NSP 153	PHY 212		PHYS 254	PHY 212 PHYS 253	PHYS 253				NSP 253					PHY 212	PHY 212	NSP 253	NSP 254
Glen Oaks Community College	PHYS 253	PHYS 253	PHYS 253	NSP 154 NSP 242 PHYS 153 PHYS 154	PHYS 253	PHYS 253	PHYS 253	PHYS 254	PHYS 253	PHYS 253	PHYS 253	PHYS 252	NSP 254 PHYS 253 PHYS 254	See Appendix D	See Appendix D	PHYS 253	PHYS 253	PHYS 253	PHYS 254	PHYS 253	PHYS 254
Gogebic Community College	PHY 252	PHY 252	PHY 252	PHY 202	PHY 252	PHY 252	PHY 252	PHY 202 PHY 252	PHY 252	PHY 252	PHY 252	PHY 252	PHY 252	See Appendix D	See Appendix D	PHY 252	PHY 252	PHY 252	PHY 252	PHY 252	PHY 252
Grand Rapids Community College	PH 246	PH 246	PH 246	PH 126	PH 126 PH 246	PH 246	PH 246	PH 126 PH 246	PH 246	PH 246	PH 246	PH 246	PH 246	See Appendix D	See Appendix D	PH 246	PH 246	PH 246	PH 246	PH 246	PH 246
					PHYS 132 PHYS		PHYS 232 PHYS	PHYS 132 PHYS				PHYS 232 PHYS									
Henry Ford College	PHYS 232	PHYS 232	PHYS 232	PHYS 132	232	PHYS 232	241 PHYS 243 PHYS 242	PHYS 232	PHYS 232	PHYS 232	PHYS 232	243	PHYS 232	D	See Appendix D	PHYS 232	PHYS 232	PHYS 232	PHYS 232	PHYS 232	PHYS 232
Jackson College	PHY 252	PHY 252	PHY 252	PHY 232	PHY 252	PHY 252	PHY 252	PHY 232 PHY 252	PHY 252	PHY 252	PHY 252	PHY 252	PHY 252	See Appendix D	See Appendix D	PHY 252	PHY 252	PHY 252	PHY 252	PHY 252	PHY 252
Kellogg Community College	PHYS 222	PHYS 222	PHYS 222	PHYS 112	PHYS 112 PHYS 222	PHYS 222	PHYS 202 PHYS 222	PHYS 112 PHYS 222	PHYS 222	PHYS 222	PHYS 222	PHYS 202 PHYS 222	PHYS 222	See Appendix D	See Appendix D	PHYS 202	PHYS 202	PHYS 222	PHYS 222	PHYS 222	PHYS 222
Lake Michigan College	PHYS 202	PHYS 202	PHYS 202	PHYS 102	PHYS 202	PHYS 202	PHYS 202	PHYS 102 PHYS	PHYS 202	PHYS 202	PHYS 202	PHYS 202	PHYS 202		See Appendix	PHYS 202	PHYS 202	phys 202	phys 202	PHYS 202	PHYS 202
				PHY 201			PHYS 216	202 PHYS 222	PHYS 252			PHYS 216	PHYS 216	D	D						
				PHY 202 PHY 203			PHYS 226 PHYS	PHYS 252 PHYS	PHYS 222 PHYS 252			PHYS 252	PHYS 226 PHYS								
Lansing Community College	PHYS 252	PHYS 252	PHYS 252	PHYS 202 PHYS 216 PHYS 226 PHYS 226 PHYS	PHYS 252	PHYS 252	216 PHYS 226 PHYS 252	222 PHYS 252		PHYS 252	PHYS 252		252 PHY 202	PHYS 252	PHYS 252	PHYS 252	PHYS 252	PHY 252	PHY 252	PHYS 252	PHYS 252
Macomb Community	DHYS	DHYS	DHYS	PHY 117 PHYS 1170 PHYS 1190	DHYS	DHYS	PHY 218 PHYS 2180 PHYS 2230	PHYS 1190 PHYS 2730 PHY 116 PHY 117 PHY 218 PHY 219 PHYS 1160 PHYS	PHYS 2230 PHY 218 PHY 219 PHYS 2180 PHYS 2190 PHYS 2190 PHY 218	DHYS	DHYS	PHY 219 PHYS 2190 PHYS 2230	DHYS	See	See	DHYS	DHYS	DHYS	DHYS	DHYS	DHYS
Macomb Community College	PHYS 2230	PHYS 2230	PHYS 2230		PHYS 2230	PHYS 2230		PHYS 1170 PHYS 2180 PHYS 2190 PHYS 2190 PHY 218 PHYS 1160 PHY 117 PHYS 2230 PHYS 1190	PHYS 2230 PHYS 1190	PHYS 2230	PHYS 2230		PHYS 2230	Appendix D	Appendix D	PHYS 2230	PHYS 2230	PHYS 2230	PHYS 2230	PHYS 2230	PHYS 2230
Mid Michigan College	PHY 212	PHY 212	PHY 212	PHY 106	PHY 212	PHY 212	PHY 212	PHY 106 PHY 212	PHY 212	PHY 212	PHY 212	PHY 212	PHY 212	See Appendix D	See Appendix D	PHY 212	PHY 212	PHY 212	PHY 212	PHY 212	PHY 212
Monroe County Community College	PHY 252	PHY 252	PHY 252	PHY 152	PHY 152 PHY 146	See Appendi x D	PHY 252	PHY 152 PHY 252	PHY 252	PHY 252	PHY 252	PHY 252	PHY 252	PHY 252	PHY 252	PHY 252	PHY 252	PHY 252	PHY 252	PHY 252	PHY 252
Muskegon Community College	PHYS 204L&L	PHYS 204L&L	PHYS 204L&L	PHYS 202 PHYS	PHYS 202 PHYS	PHY 162 PHYS	PHYS 204	PHYS 202 PHYS	PHYS 204	PHYS 204	PHYS 204	PHYS 204	PHYS 204 PHYS	PHYS 204L&L	PHYS 204L&L	PHYS 204	PHYS 204	PHYS 204	PHYS 204L	PHYS 204	PHYS 204
				202CLL	204L&L PHY 211 PHY 231	204L&L	PHY 211 PHY 213	204 PHY 211 PHY 231					202	See	See	See	See				
North Central Michigan College	PHY 231	PHY 231	PHY 231	PHY 211		PHY 231	PHY 211 PHY 213 PHY 231		PHY 231	PHY 231	PHY 231	PHY 231	PHY 231		Appendix D			PHY 231	PHY 231	PHY 231	PHY 231
Northwestern Michigan College	PHY 222	PHY 222	PHY 222 PHY 222L	PHY 122 PHY 122L SMPS 125 SMPS 126	PHY 122 PHY 222	PHY 222	PHY 222L PHY 222 PHY 222R PHY 222L PHY 222 PHY 222R PHY 222R PHY	PHY 122 PHY 221 PHY 222	PHY 221 PHY 222	PHY 222	PHY 222	PHY 222R PHY 222	PHY 222	See Appendix D	See Appendix D	PHY 222 PHY 222R	PHY 222 PHY 222R	PHY 222 PHY 222R	PHY 222 PHY 222R	PHY 222L PHY 222	PHY 222L PHY 222
							PHY 222R														
Oakland Community College	PHY 2500	PHY 2500	PHY 2500	PHY 162 PHY 1620	PHY 2500	PHY 2500	PHY 2500	PHY 162 PHY 1620 PHY 250 PHY 2500 PHY 1620 PHY	PHY 250 PHY 2500 PHY 1620 PHY 2500	PHY 2500	PHY 2500	PHY 250 PHY 2500	PHY 2500	See Appendix D	See Appendix D	PHY 2500	PHY 2500	PHY 2500	PHY 2500	PHY 2500	PHY 2500
Schoolcraft College	PHYS 212	PHYS 212	PHYS 212	PHYS 182	PHYS 182 PHYS 212	PHYS 212	PHYS 212	2500 PHYS 182 PHYS 212 PHYS 212 PHYS 182	PHYS 212 PHYS 212 PHYS 182	PHYS 212	PHYS 212	PHYS 212	PHYS 212	PHYS 212	PHYS 212	PHYS 212	PHYS 212	PHYS 212	PHYS 212	PHYS 212	PHYS 212
Southwestern Michigan College	PHYS 202	PHYS 202	PHYS 202	PHYS 102	PHYS 102 PHYS	PHYS 202	PHYS 202	PHYS 102 PHYS	PHYS 202	PHYS 202	PHYS 202	PHYS 202	PHYS 202	PHYS 202	PHYS 202	PHYS 202	PHYS 202	PHYS 202	PHYS 202	PHYS 202	PHYS 202
St. Clair County	PHY 222	PHY 222	PHY 222	PHY 122	202 PHY 222	PHY 222	PHY 222	202 PHY 122 PHY 222 PHY 222	PHY 222 PHY 222 PHY 122	PHY 222	PHY 222	PHY 222	PHY 222	PHY 222	PHY 222	PHY 222	PHY 222	PHY 222	PHY 222	PHY 222	PHY 222
Community College				PHY 240			PHY	PHY 222 PHY 122 PHY 245	711 122			PHY 275									
Wayne County Community College District	PHY 275		PHY 275	PHY 241 PHY 245	PHY 275	PHY 275	275L PHY 275 PHY 275L PHY 275	PHY 275	PHY 275	PHY 275	PHY 275	PHY 270 PHY 271	PHY 275		PHY 275	PHY 275		PHY 275 Pathway.	PHY 275	PHY 275	PHY 275

MECHANICAL ENGINEERING MiTransfer Pathway Mechanics of Solids/Strengths of Materials By Receiving Institution	Central Michigan University	Eastern Michigan University	Ferris State University	Michigan Technological University	Northern Michigan University	Oakland University	Saginaw Valley State University	University of Michigan- Dearborn	University of Michigan- Flint	Andrews University	Kettering University	Lawrence Technological University	University of Detroit Mercy
	EGR 255	ME 313	NO COURSE	MEEM 2150	MET 311	ME 3250	ME 250	ME 260	EGR 260	ENGR 340	MECH 212	EME 3013	ENGR 3260
Community College ^{1, 2}													
Delta College	EGR 320	EGR 320	NO COURSE See Appendix D	EGR 320	EGR 320	EGR 320	EGR 320	EGR 320 EGR 215	EGR 320	EGR 320	EGR 320	EGR 320	EGR 320
Henry Ford College	ENGT 245	ENGR 235	NO COURSE See Appendix D	ENGR 235	ENGR 235	ENGR 235	ENGR 201	ENGR 232 ENGR 235 ENGR 232	ENGR 201	ENGR 235	ENGR 201 ENGR 235	ENGR 235	ENGR 235
Northwestern Michigan College	EGR 202	EGR 202	NO COURSE See Appendix D	EGR 202	EGR 202	EGR 202	EGR 202	EGR 201 EGR 202	EGR 202	EGR 202	EGR 202	EGR 202	EGR 202
Schoolcraft College	ENGR 202	ENGR 202	NO COURSE See Appendix D	ENGR 202	ENGR 202	ENGR 202	ENGR 202	ENGR 202 ENGR 201	ENGR 202	ENGR 202	ENGR 202	ENGR 202	ENGR 202

Kalamazoo Valley Community College, Kirtland Community College, Montcalm Community College, Mott Community College, Washtenaw Community College, and West Shore Community Collegeare not participating in the Mechanical Engineering Pathway.

^{2.} Alpena Community College, Glen Oaks Communty College, Gogebic Community College, Grand Rapids Community College, Jackson College, Kellogg Community College, Lake Michigan College, Lansing Community College, Macomb Community College, Mid Michigan College, Monroe County Community College, Muskegon Community College, North Central Michigan College, Oakland Community College, Southwestern Michigan College, St. Clair County Community College, and Wayne County Community College District, are participating in the Mechanical Engineering Pathway, but do not offer a Solids/Strengths of Materials course.

MECHANICAL ENGINEERING MiTransfer Pathway Statics	Central Michigan University	Eastern Michigan University	Ferris State University	Michigan Technological University	Northern Michigan University	Oakland University	Saginaw Valley State University	University of Michigan- Dearborn	University of Michigan-Flint	Andrews University	Kettering University	Lawrence Technological University	University of Detroit Mercy
By Receiving Institution	EGR 251	ME 211	NO	MEEM	MET 211	NO	ME 251	ME 260	EGR 230	ENGR	MECH	EGE 2013	ENGR
Community College ^{1, 2}			COURSE	2110		COURSE				185	210		3120
Alpena Community College	EGR 221	EGR 221	NO COURSE See Appendix	EGR 221	EGR 221	NO COURSE See Appendix D	EGR 221	See Appendix D	EGR 221	EGR 221	EGR 221	EGR 221	EGR 221
Bay de Noc Community College	PHYS 260	PHYS 260	D NO COURSE See Appendix D	PHYS 260	PH 260 PHYS 260	D NO COURSE See Appendix D	PHYS 260	See Appendix D	PHYS 260	PHYS 260	PH 260	PHY 260	PHYS 260
Delta College	EGR 215	EGR 215	NO COURSE See Appendix D	EGR 215	ARC 211 EGR 215	NO COURSE See Appendix D	EGR 215	EGR 320 EGR 215	EGR 215	EGR 215	EGR 215	ENGR 247 EGR 215	EGR 215
Gogebic Community College	PHY 261	PHY 261	NO COURSE See Appendix D	PHY 261	PHY 261	NO COURSE See Appendix D	PHY 261	See Appendix D	PHY 261	PHY 261	See Appendix D	PHY 261	PHY 261
Henry Ford College	ENGR 232	ENGR 232 ENGR 233 PHYS 231 ENGR 232 PHYS 231	NO COURSE See Appendix D	ENGR 232	ENGR 232	NO COURSE See Appendix D	ENGR 232	ENGR 232 ENGR 235 ENGR 232	ENGR 232	ENGR 232	ENGR 232	ENGR 232	ENGR 232
Kellogg Community College	ENGR 256	ENGR 256	NO COURSE See Appendix D	ENGR 256	ENGR 256	NO COURSE See Appendix D	ENGR 256	See Appendix D	ENTE 220	ENGR 256	ENGR 256	PHYS 241	PHYS 241
Lansing Community College	PHYS 260	PHYS 260	NO COURSE See Appendix D	PHYS 260	PHYS 260	NO COURSE See Appendix D	PHYS 260	See Appendix D	PHYS 260	PHYS 260	PHYS 260	PHYS 260	PHYS 260
Monroe County Community College	METC 220	METC 220 PHY 251	NO COURSE See Appendix D	See Appendix D	METC 180 METC 220	NO COURSE See Appendix D	METC 220	See Appendix D	METC 220	See Appendix D	See Appendix D	enr 251	METC 220
Muskegon Community College	ENGR 202	ENGR 202	NO COURSE See Appendix D	ENGR 202	ENGR 202	NO COURSE See Appendix D	ENGR 202	See Appendix D	ENGR 202	ENGR 202	ENGR 202	ENGR 202	ENGR 202
Northwestern Michigan College	EGR 201	EGR 201 PHY 221 PHY 221L EGR 201 EGR 203 PHY 221 PHY 221L	NO COURSE See Appendix D	EGR 201	EGR 201	NO COURSE See Appendix D	EGR 201	EGR 201 EGR 202	EGR 201	EGR 201	EGR 201	egr 201	EGR 201
Schoolcraft College	ENGR 201	ENGR 201	NO COURSE See Appendix D	ENGR 201	ENGR 201	NO COURSE See Appendix D	ENGR 201	ENGR 202 ENGR 201	ENGR 201	ENGR 201	ENGR 201	ENGR 201	ENGR 201
St. Clair County Community College	PHY 231	PHY 231 Valley Commu	NO COURSE See Appendix D nity College, Ki	PHY 231		NO COURSE See Appendix D Montcalm Comi	PHY 231	See Appendix D		PHY 231 Vashtenaw Cor	PHY 231	PHY 231	PHY 231

Kalamazoo Valley Community College, Kirtland Community College, Montcalm Community College, Mott Community College, Washtenaw Community College, and
 West Shore Community College are not participating in the Mechanical Engineering Pathway.

Glen Oaks Communty College, Grand Rapids Community College, Jackson College, Lake Michigan College, Macomb Community College,
 Mid Michigan College, North Central Michigan College, Oakland Community College, Southwestern Michigan College, and Wayne County Community College District are participating in the Mechanical Engineering Pathway, but do not offer a Statics course.



MECHANICAL ENGINEERING

Course	College/ University	Community College	Explanation
Calculus II	ANDREWS UNIVERSITY	GOGEBIC COMMUNITY COLLEGE	Course does not cover Infinite Series
Calculus III	ANDREWS UNIVERSITY	GOGEBIC COMMUNITY COLLEGE	No syllabus provided; will be reviewed for the Nov. 1 signing deadline
Calculus III	ANDREWS UNIVERSITY	MUSKEGON COMMUNITY COLLEGE	Cannot confirm the course covers Green's, Stoke's, divergence theorems
Calculus III	ANDREWS UNIVERSITY	WAYNE COUNTY COMMUNITY COLLEGE DISTRICT	Cannot confirm the course covers Green's, Stoke's theorems
Calculus III	KETTERING UNIVERSITY	GOGEBIC COMMUNITY COLLEGE	No syllabus provided; will be reviewed for the Nov. 1 signing deadline
Calculus III	KETTERING UNIVERSITY	GOGEBIC COMMUNITY COLLEGE	No syllabus provided; will be reviewed for the Nov. 1 signing deadline
Calculus III	N/A	GLEN OAKS COMMUNITY COLLEGE	No Course
Calculus III	UNIVERSITY OF MICHIGAN-FLINT	HENRY FORD COLLEGE	Topics missing that are covered in MTH 222 includes all regular Mutivariable Calculus plus the entire chapter in Vector Calculus
Calculus III	UNIVERSITY OF MICHIGAN-FLINT	JACKSON COLLEGE	Topics missing that are covered in MTH 222 includes all regular Mutivariable Calculus plus the entire chapter in Vector Calculus
Calculus III	UNIVERSITY OF MICHIGAN-FLINT	MID MICHIGAN COLLEGE	Topics missing that are covered in MTH 222 includes all regular Mutivariable Calculus plus the entire chapter in Vector Calculus
Calculus III	UNIVERSITY OF MICHIGAN-FLINT	MUSKEGON COMMUNITY COLLEGE	Topics missing that are covered in MTH 222 includes all regular Mutivariable Calculus plus the entire chapter in Vector Calculus
Calculus III	UNIVERSITY OF MICHIGAN-FLINT	SOUTHWESTERN MICHIGAN COLLEGE	Topics missing that are covered in MTH 222 includes all regular Mutivariable Calculus plus the entire chapter in Vector Calculus
Differential Equations	ANDREWS UNIVERSITY	GOGEBIC COMMUNITY COLLEGE	No syllabus provided; will be reviewed for the Nov. 1 signing deadline
Differential Equations	KETTERING UNIVERSITY	GOGEBIC COMMUNITY COLLEGE	No syllabus provided; will be reviewed for the Nov. 1 signing deadline
Differential Equations	N/A	GLEN OAKS COMMUNITY COLLEGE	No Course

Differential Equations	N/A	GOGEBIC COMMUNITY	No Course
Differential	N/A	COLLEGE MID MICHIGAN	No Course
Equations		COLLEGE	
Differential Equations	UNIVERSITY OF MICHIGAN-FLINT	ALPENA COMMUNITY COLLEGE	Their content lacks the intense Linear Algebra components that are covered in UM-F's MTH 303 including linear independence and dependence, matrix operations, invertibility, determinants, gaussian elimination, eigen values/vector, using the eigenvalue method to solve/analyze linear systems od ODEs, linearization of non-linear systems, stability of autonomous 2X2 systems
D:CC 11 - 1	LININ (EDCITY OF	DAY COLLECT	
Differential Equations	UNIVERSITY OF MICHIGAN-FLINT	BAY COLLEGE	Their content lacks the intense Linear Algebra components that are covered in UM-F's MTH 303 including linear independence and dependence, matrix operations, invertibility, determinants, gaussian elimination, eigen values/vector, using the eigenvalue method to solve/analyze linear systems od ODEs, linearization of non-linear systems, stability of autonomous 2X2 systems
Differential	UNIVERSITY OF	DELTA COLLEGE	Their content lacks the intense Linear Algebra
Equations	MICHIGAN-FLINT		components that are covered in UM-F's MTH 303 including linear independence and dependence, matrix operations, invertibility, determinants, gaussian elimination, eigen values/vector, using the eigenvalue method to solve/analyze linear systems od ODEs, linearization of non-linear systems, stability of autonomous 2X2 systems
Differential	UNIVERSITY OF	GOGEBIC	No equivalency to Gogebic's MTH 220. An out of
Equations	MICHIGAN-FLINT	COMMUNITY COLLEGE	print textbook is used; in the course description they mention Laplace Transforms, but in the course schedule they do not cover chapters 10 and 11 from the book that is covered at UM-F.
Differential Equations	UNIVERSITY OF MICHIGAN-FLINT	GRAND RAPIDS COMMUNITY COLLEGE	Their content lacks the intense Linear Algebra components that are covered in UM-F's MTH 303 including linear independence and dependence, matrix operations, invertibility, determinants, gaussian elimination, eigen values/vector, using the eigenvalue method to solve/analyze linear systems od ODEs, linearization of non-linear systems, stability of autonomous 2X2 systems
Differential Equations	UNIVERSITY OF MICHIGAN-FLINT	HENRY FORD COLLEGE	Their content lacks the intense Linear Algebra components that are covered in UM-F's MTH 303 including linear independence and dependence, matrix operations, invertibility, determinants, gaussian elimination, eigen values/vector, using the eigenvalue method to solve/analyze linear systems od ODEs, linearization of non-linear systems, stability of autonomous 2X2 systems
Differential Equations	UNIVERSITY OF MICHIGAN-FLINT	JACKSON COLLEGE	Their content lacks the intense Linear Algebra components that are covered in UM-F's MTH 303

Differential Equations	UNIVERSITY OF MICHIGAN-FLINT	MACOMB COMMUNITY COLLEGE	including linear independence and dependence, matrix operations, invertibility, determinants, gaussian elimination, eigen values/vector, using the eigenvalue method to solve/analyze linear systems od ODEs, linearization of non-linear systems, stability of autonomous 2X2 systems Their content lacks the intense Linear Algebra components that are covered in UM-F's MTH 303 including linear independence and dependence, matrix operations, invertibility, determinants, gaussian elimination, eigen values/vector, using the eigenvalue method to solve/analyze linear systems od ODEs, linearization of non-linear systems, stability of autonomous 2X2 systems
Differential Equations	UNIVERSITY OF MICHIGAN-FLINT	MONROE COUNTY COMMUNITY COLLEGE	Their content lacks the intense Linear Algebra components that are covered in UM-F's MTH 303 including linear independence and dependence, matrix operations, invertibility, determinants, gaussian elimination, eigen values/vector, using the eigenvalue method to solve/analyze linear systems od ODEs, linearization of non-linear systems, stability of autonomous 2X2 systems
Differential Equations	UNIVERSITY OF MICHIGAN-FLINT	NORTH CENTRAL MICHIGAN COLLEGE	Their content lacks the intense Linear Algebra components that are covered in UM-F's MTH 303 including linear independence and dependence, matrix operations, invertibility, determinants, gaussian elimination, eigen values/vector, using the eigenvalue method to solve/analyze linear systems od ODEs, linearization of non-linear systems, stability of autonomous 2X2 systems
Differential Equations	UNIVERSITY OF MICHIGAN-FLINT	OAKLAND COMMUNITY COLLEGE	Their content lacks the intense Linear Algebra components that are covered in UM-F's MTH 303 including linear independence and dependence, matrix operations, invertibility, determinants, gaussian elimination, eigen values/vector, using the eigenvalue method to solve/analyze linear systems od ODEs, linearization of non-linear systems, stability of autonomous 2X2 systems
Differential Equations	UNIVERSITY OF MICHIGAN-FLINT	SCHOOLCRAFT COLLEGE	Their content lacks the intense Linear Algebra components that are covered in UM-F's MTH 303 including linear independence and dependence, matrix operations, invertibility, determinants, gaussian elimination, eigen values/vector, using the eigenvalue method to solve/analyze linear systems od ODEs, linearization of non-linear systems, stability of autonomous 2X2 systems
Differential Equations	UNIVERSITY OF MICHIGAN-FLINT	ST. CLAIR COUNTY COMMUNITY COLLEGE	Their content lacks the intense Linear Algebra components that are covered in UM-F's MTH 303 including linear independence and dependence, matrix operations, invertibility, determinants,

			gaussian elimination, eigen values/vector, using the eigenvalue method to solve/analyze linear systems
			od ODEs, linearization of non-linear systems, stability of autonomous 2X2 systems
Differential Equations	UNIVERSITY OF MICHIGAN-FLINT	WAYNE COUNTY COMMUNITY COLLEGE DISTRICT	Their content lacks the intense Linear Algebra components that are covered in UM-F's MTH 303 including linear independence and dependence, matrix operations, invertibility, determinants,
			gaussian elimination, eigen values/vector, using the eigenvalue method to solve/analyze linear systems od ODEs, linearization of non-linear systems, stability of autonomous 2X2 systems
Dynamics	ANDREWS UNIVERSITY	BAY COLLEGE	Not adequate, no vibration or 3D being covered
Dynamics	ANDREWS UNIVERSITY	KELLOGG COMMUNITY COLLEGE	Not adequate, no 3D, chapters don't correlate to the book
Dynamics	ANDREWS UNIVERSITY	SCHOOLCRAFT COLLEGE	No 3D and no vibrations covered
Dynamics	FERRIS STATE UNIVERSITY	KELLOGG COMMUNITY COLLEGE	Parts of the syllabus do not align with the text being used; Kinematics topic is covered in a different course at FSU; Vibrations topic lacks detail
Dynamics	KETTERING UNIVERSITY	BAY COLLEGE	Limited coverage of planar rigid Kinematics and Kinetics
Dynamics	N/A	ALPENA COMMUNITY COLLEGE	No Course
Dynamics	N/A	GLEN OAKS COMMUNITY COLLEGE	No Course
Dynamics	N/A	GOGEBIC COMMUNITY COLLEGE	No Course
Dynamics	N/A	GRAND RAPIDS COMMUNITY COLLEGE	No Course
Dynamics	N/A	JACKSON COLLEGE	No Course
Dynamics	N/A	LAKE MICHIGAN COLLEGE	No Course
Dynamics	N/A	LANSING COMMUNITY COLLEGE	No Course
Dynamics	N/A	MACOMB COMMUNITY COLLEGE	No Course
Dynamics	N/A	MID MICHIGAN COLLEGE	No Course
Dynamics	N/A	MONROE COUNTY COMMUNITY COLLEGE	No Course

Dynamics	N/A	NORTH CENTRAL	No Course
•		MICHIGAN	
		COLLEGE	
Dynamics	N/A	OAKLAND	No Course
,	,	COMMUNITY	
		COLLEGE	
Dynamics	N/A	SOUTHWESTERN	No Course
		MICHIGAN	
		COLLEGE	
Dynamics	N/A	ST. CLAIR COUNTY	No Course
·		COMMUNITY	
		COLLEGE	
Dynamics	N/A	WAYNE COUNTY	No Course
·		COMMUNITY	
		COLLEGE DISTRICT	
Dynamics	UNIVERSITY OF	BAY COLLEGE	Junior/Senior class that requires advance standing;
-	MICHIGAN-		course will apply to general elective credit.
	DEARBORN		
Dynamics	UNIVERSITY OF	DELTA COLLEGE	Junior/Senior class that requires advance standing;
	MICHIGAN-		course will apply to general elective credit.
	DEARBORN		
Dynamics	UNIVERSITY OF	HENRY FORD	Junior/Senior class that requires advance standing;
	MICHIGAN-	COLLEGE	course will apply to general elective credit.
	DEARBORN		
Dynamics	UNIVERSITY OF	KELLOGG	Junior/Senior class that requires advance standing;
	MICHIGAN-	COMMUNITY	course will apply to general elective credit.
	DEARBORN	COLLEGE	
Dynamics	UNIVERSITY OF	MUSKEGON	Junior/Senior class that requires advance standing;
	MICHIGAN-	COMMUNITY	course will apply to general elective credit.
	DEARBORN	COLLEGE	
Dynamics	UNIVERSITY OF	NORTHWESTERN	Junior/Senior class that requires advance standing;
	MICHIGAN-	MICHIGAN	course will apply to general elective credit.
	DEARBORN	COLLEGE	
Dynamics	UNIVERSITY OF	SCHOOLCRAFT	Junior/Senior class that requires advance standing;
	MICHIGAN-	COLLEGE	course will apply to general elective credit.
	DEARBORN		
Physics I	ANDREWS	HENRY FORD	Course did not include waves or thermal
	UNIVERSITY	COLLEGE	
Physics I	ANDREWS	JACKSON COLLEGE	Course did not include thermal; used algebra-based
	UNIVERSITY		text
Physics I	ANDREWS	NORTH CENTRAL	Course did not include waves or thermal
	UNIVERSITY	MICHIGAN	
		COLLEGE	
Physics I	ANDREWS	WAYNE COUNTY	Course is algebra-based
	UNIVERSITY	COMMUNITY	
		COLLEGE DISTRICT	
Physics II	ANDREWS	BAY COLLEGE	Modern Physics topics not covered (basic levels of
	UNIVERSITY		atomic, quantum physics, relativity)
Physics II	ANDREWS	GLEN OAKS	Modern Physics topics not covered (basic levels of
	UNIVERSITY	COMMUNITY	atomic, quantum physics, relativity)
		COLLEGE	

Physics II	ANDREWS	GOGEBIC	Only E&M, limited topics
	UNIVERSITY	COMMUNITY	
61	AA10.0514/6	COLLEGE	N. A. J. St. :
Physics II	ANDREWS	GRAND RAPIDS	No Modern Physics
	UNIVERSITY	COMMUNITY	
Dhysias II	ANDREWC	COLLEGE	No Madam Physics
Physics II	ANDREWS UNIVERSITY	HENRY FORD COLLEGE	No Modern Physics
Physics II	ANDREWS	JACKSON COLLEGE	Algebra based Physics Text
1 Trysics II	UNIVERSITY	JACKSON COLLEGE	Augesta basea i nysies rext
Physics II	ANDREWS	KELLOGG	Only Bohr for Modern
,	UNIVERSITY	COMMUNITY	
		COLLEGE	
Physics II	ANDREWS	LAKE MICHIGAN	Too limited in Modern Physics
,	UNIVERSITY	COLLEGE	,
Physics II	ANDREWS	MACOMB	Only E&M and Optics
	UNIVERSITY	COMMUNITY	
		COLLEGE	
Physics II	ANDREWS	MID MICHIGAN	Only E&M
	UNIVERSITY	COLLEGE	
Physics II	ANDREWS	NORTH CENTRAL	No Physical Optics, Algebra based text
	UNIVERSITY	MICHIGAN	
		COLLEGE	
Physics II	ANDREWS	NORTHWESTERN	No Modern Physics
	UNIVERSITY	MICHIGAN	
DI : 11	AA10.051476	COLLEGE	
Physics II	ANDREWS UNIVERSITY	OAKLAND COMMUNITY	Only E&M and waves. Good for electronics but not for foundational course
	UNIVERSITY	COLLEGE	Tor Touridational Course
Physics II	KETTERING	NORTH CENTRAL	Course is not calculus-based
i ilysics ii	UNIVERSITY	MICHIGAN	Course is not calculus based
	OTTIVE NOTTI	COLLEGE	
Physics II	MICHIGAN	MONROE COUNTY	Approved for PH 1200 (lab); unable to approve for
,	TECHNOLOGICAL	COMMUNITY	PH 2200 (lecture) because content is only a 50%
	UNIVERSITY	COLLEGE	match.
Solids/Strengths	FERRIS STATE	DELTA COLLEGE	No Course
	UNIVERSITY		
Solids/Strengths	FERRIS STATE	HENRY FORD	No Course
	UNIVERSITY	COLLEGE	
Solids/Strengths	FERRIS STATE	NORTHWESTERN	No Course
	UNIVERSITY	MICHIGAN	
0 11 1 /0		COLLEGE	
Solids/Strengths	FERRIS STATE	SCHOOLCRAFT	No Course
Calida/Ct	UNIVERSITY	COLLEGE	No Course
Solids/Strengths	N/A	ALPENA	No Course
		COMMUNITY COLLEGE	
Solids/Strengths	N/A	BAY COLLEGE	No Course
Solids/Strengths	N/A	GLEN OAKS COMMUNITY	No Course
		COLLEGE	
	I	COLLEGE	

6 1: 1 /6:	11/0	COCEDIO	lu o
Solids/Strengths	N/A	GOGEBIC	No Course
		COMMUNITY	
		COLLEGE	
Solids/Strengths	N/A	GRAND RAPIDS	No Course
	'	COMMUNITY	
		COLLEGE	
Solids/Strengths	N/A	JACKSON COLLEGE	No Course
Solids/Strengths	N/A	KELLOGG	No Course
Johns/Julenguis	IN/A	COMMUNITY	No Course
		COLLEGE	
Solids/Strengths	N/A	LAKE MICHIGAN	No Course
		COLLEGE	
Solids/Strengths	N/A	LANSING	No Course
		COMMUNITY	
		COLLEGE	
Solids/Strengths	N/A	MACOMB	No Course
Johas/Strengths		COMMUNITY	ivo course
		COLLEGE	
C 1: 1 /C: 11	1 1/4		N 6
Solids/Strengths	N/A	MID MICHIGAN	No Course
		COLLEGE	
Solids/Strengths	N/A	MONROE COUNTY	No Course
		COMMUNITY	
		COLLEGE	
Solids/Strengths	N/A	MUSKEGON	No Course
, ,	'	COMMUNITY	
		COLLEGE	
Solids/Strengths	N/A	NORTH CENTRAL	No Course
Johas/Strengths	14/7	MICHIGAN	ivo course
		COLLEGE	
Calida/Ctuanatha	N1 / A		No Course
Solids/Strengths	N/A	OAKLAND	No Course
		COMMUNITY	
		COLLEGE	
Solids/Strengths	N/A	SOUTHWESTERN	No Course
		MICHIGAN	
		COLLEGE	
Solids/Strengths	N/A	ST. CLAIR COUNTY	No Course
		COMMUNITY	
		COLLEGE	
Solids/Strengths	N/A	WAYNE COUNTY	No Course
Johas/Jarchigans		COMMUNITY	ivo course
		COLLEGE DISTRICT	
Ctation	ANDREWC		Not anough Station assumed
Statics	ANDREWS	MONROE COUNTY	Not enough Statics covered
	UNIVERSITY	COMMUNITY	
		COLLEGE	
Statics	KETTERING	GOGEBIC	No syllabus provided; will be reviewed for the Nov. 1
	UNIVERSITY	COMMUNITY	signing deadline
		COLLEGE	
Statics	KETTERING	MONROE COUNTY	Course blends statics and solids; not enough course
	UNIVERSITY	COMMUNITY	time dedicated to statics
		COLLEGE	
L	L	1 33222	

Statics	MICHIGAN	MONROE COUNTY	We require 3 credits of Statics. This is a combined
	TECHNOLOGICAL	COMMUNITY	Statics and Strength of Materials course. It is
	UNIVERSITY	COLLEGE	equivalent to our ENG 2120, Statics-Strength of
	Olive Literature	0022202	Material.
Statics	N/A	GLEN OAKS	No Course
		COMMUNITY	
		COLLEGE	
Statics	N/A	GOGEBIC	No Course
		COMMUNITY	
		COLLEGE	
Statics	N/A	GRAND RAPIDS	No Course
		COMMUNITY	
		COLLEGE	
Statics	N/A	JACKSON COLLEGE	No Course
Statics	N/A	LAKE MICHIGAN	No Course
		COLLEGE	
Statics	N/A	MACOMB	No Course
		COMMUNITY	
		COLLEGE	
Statics	N/A	MID MICHIGAN	No Course
		COLLEGE	
Statics	N/A	NORTH CENTRAL	No Course
		MICHIGAN	
		COLLEGE	
Statics	N/A	OAKLAND	No Course
		COMMUNITY	
		COLLEGE	
Statics	N/A	SOUTHWESTERN	No Course
		MICHIGAN	
		COLLEGE	
Statics	N/A	WAYNE COUNTY	No Course
		COMMUNITY	
		COLLEGE DISTRICT	
Statics	UNIVERSITY OF	ALPENA	UM-D course is a combined Solids/Strengths and
	MICHIGAN-	COMMUNITY	Statics course; Statics course will be accepted as
	DEARBORN	COLLEGE	general elective credit
Statics	UNIVERSITY OF	BAY COLLEGE	UM-D course is a combined Solids/Strengths and
	MICHIGAN-		Statics course; Statics course will be accepted as
	DEARBORN		general elective credit
Statics	UNIVERSITY OF	GOGEBIC	UM-D course is a combined Solids/Strengths and
	MICHIGAN-	COMMUNITY	Statics course; Statics course will be accepted as
	DEARBORN	COLLEGE	general elective credit.
Statics	UNIVERSITY OF	KELLOGG	UM-D course is a combined Solids/Strengths and
	MICHIGAN-	COMMUNITY	Statics course; Statics course will be accepted as
	DEARBORN	COLLEGE	general elective credit
Statics	UNIVERSITY OF	LANSING	UM-D course is a combined Solids/Strengths and
	MICHIGAN-	COMMUNITY	Statics course; Statics course will be accepted as
	DEARBORN	COLLEGE	general elective credit
Statics	UNIVERSITY OF	MONROE COUNTY	UM-D course is a combined Solids/Strengths and
	MICHIGAN-	COMMUNITY	Statics course; Statics course will be accepted as
	DEARBORN	COLLEGE	general elective credit

Statics	UNIVERSITY OF	MUSKEGON	UM-D course is a combined Solids/Strengths and
	MICHIGAN-	COMMUNITY	Statics course; Statics course will be accepted as
	DEARBORN	COLLEGE	general elective credit
Statics	UNIVERSITY OF	ST. CLAIR COUNTY	UM-D course is a combined Solids/Strengths and
	MICHIGAN-	COMMUNITY	Statics course; Statics course will be accepted as
	DEARBORN	COLLEGE	general elective credit