MITRANSFER PATHWAYS

ARTICULATION AGREEMENT

**BIOLOGY** 

TO: MiTransfer Pathway Biology Participating Institutions

FROM: Michigan Community College Association, Michigan Association of State Universities, Michigan

**Independent Colleges and Universities** 

SUBJECT: MiTransfer Join/Modify Summary

The MiTransfer Pathways agreement, signed on December 9, 2019 provides for institutions to modify worksheets and equivalencies or join the MiTransfer Pathways agreement. The MCCA, MASU, and MICU worked with institutions to make the following adjustments to the Biology Pathway:

# BIOLOGY

# FALL 2020 JOIN/MODIFY

		APPENDIX A	APPENDIX B	APPENDIX C	APPENDIX D
INSTITUTION	JOINING/ MODIFYING	COMMUNITY COLLEGE WORKSHEET CHANGE	UNIVERSITY WORKSHEET CHANGE	EQUIVALENCY CHANGE	EXCEPTION CHANGE
Ferris State University	Joining		X	X	Х
Kellogg Community College	Modifying	Х			
Michigan Technological University	Modifying		Х		
Mid Michigan College	Modifying	Х			
North Central Michigan College	Modifying	Х			
Saginaw Valley State University	Joining		Х	Х	Х
University of Michigan-Dearborn	Modifying		Х		

# **BIOLOGY**

# SPRING 2021 JOIN/MODIFY

INSTITUTION	JOINING/ MODIFYING	APPENDIX A  COMMUNITY  COLLEGE  WORKSHEET  CHANGE	APPENDIX B  UNIVERSITY  WORKSHEET  CHANGE	APPENDIX C  EQUIVALENCY CHANGE	APPENDIX D  EXCEPTION  CHANGE
Andrews University	Joining		X	X	
Concordia University-Ann Arbor	Joining		Х	Х	
Muskegon Community College	Modifying	Х			

# BIOLOGY

# FALL 2021 JOIN/MODIFY

INSTITUTION	JOINING/ MODIFYING	APPENDIX A  COMMUNITY  COLLEGE  WORKSHEET  CHANGE	APPENDIX B UNIVERSITY WORKSHEET CHANGE	APPENDIX C  EQUIVALENCY  CHANGE	APPENDIX D  EXCEPTION  CHANGE
Cornerstone University	Joining		Х	X	Х
Kellogg Community College	Modifying	Х			
Macomb Community College	Modifying	Х			
North Central Michigan College	Modifying	Х			
Siena Heights University	Joining		Х	Х	Х

# BIOLOGY

# SPRING 2022 JOIN/MODIFY

		APPENDIX A	APPENDIX B	APPENDIX C	APPENDIX D
INSTITUTION	JOINING/ MODIFYING	COMMUNITY COLLEGE WORKSHEET CHANGE	UNIVERSITY WORKSHEET CHANGE	EQUIVALENCY CHANGE	EXCEPTION CHANGE
Jackson College	Modifying	Х			

# BIOLOGY

# FALL 2022 JOIN/MODIFY

		APPENDIX A	APPENDIX B	APPENDIX C	APPENDIX D
INSTITUTION	JOINING/ MODIFYING	COMMUNITY COLLEGE WORKSHEET CHANGE	UNIVERSITY WORKSHEET CHANGE	EQUIVALENCY CHANGE	EXCEPTION CHANGE
Kellogg Community College	Modifying	Х			
Kirtland Community College	Modifying	Х			

#### **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 spring and fall of 2018, biology 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 biology are:

- Cell/Molecular Biology
- Organismal Biology
- General Chemistry I
- General Chemistry II
- Organic Chemistry I
- Organic Chemistry II

These courses have been reviewed by receiving institutions and will be accepted for transfer and applied to the biology 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. BIO 105) instead of department and no number (i.e. BIO GEN or BIO 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 December 6, 2019.
- 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 Biology 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 A. Bayer, MS	Deborah A. Bayer, MS	Vice President of Instruction	Alpena Community College
Deborah J. Hautau	Deborah J. Hautau	Biology Faculty	Alpena Community College
Donald C. MacMaster, Ed.D.	Donald C. MacMaster, Ed.D.	President	Alpena Community College
Jeremy Belanger	Jeremy Belanger	Executive Director of Transfer & Student 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
Virginia Przygocki	Virginia Przygocki	Dean, Career Education and Learning Partnerships	Delta College
David H. Devier	David H. Devier	President	Glen Oaks Community College
Michael Goldin	Michael Goldin	Interim Dean of Academics	Glen Oaks Community College
George McNulty	George McNulty	President	Gogebic Community College
Bill Pink	Bill Pink	President	Grand Rapids Community College

Brian Knetl	Brian Knetl	Provost and Executive Vice President, Academic and Student Affairs	Grand Rapids Community College
Janice Gilliland	Janice Gilliland	Dean of the School of Science, Technology, Engineering and Mathematics	Henry Ford College
Michael A. Nealon	Michael A. Nealon	Vice President of Academic Affairs	Henry Ford College
Dr. Daniel J. Phelan	Dr. Daniel J. Phelan	President/CEO	Jackson College
Dr. Kate Thirolf	Dr. Kate Thirolf	Vice President for Instruction	Jackson College
Dr. Todd Butler	Dr. Todd Butler	Dean, Arts & Sciences	Jackson College
Marshall Washington, Ph.D.	Marshall Washington, Ph.D.	President	Kalamazoo Valley Community College
Peter Linden	Peter Linden	Provost and Vice President for Instruction and Student Services	Kalamazoo Valley Community College
Carole J. Davis	Carole J. Davis	Chair, Math and Science	Kellogg Community College
Mark P. O'Connell	Mark P. O'Connell	President	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
Julie Lavender	Julie Lavender	Vice President of Instructional Services	Kirtland Community College
Thomas Quinn	Thomas Quinn	President	Kirtland Community College

Dr. Leslie Kellogg	Dr. Leslie Kellogg	Provost and Vice President of Academic Affairs	Lake Michigan College
Brent Knight	Brent Knight	President	Lansing Community College
Donald Ritzenhein, Ph.D.	Donald Ritzenhein, Ph.D.	Provost and Vice President of the Learning Unit	Macomb Community College
Christine M. Hammond, Ph.D.	Christine M. Hammond, Ph.D.	President	Mid Michigan College
Jennifer Fager, Ph.D.	Jennifer Fager, Ph.D.	Vice President for Academic Affairs	Mid Michigan College
Richard J. Smith, Ed.D.	Richard J. Smith, Ed.D.	Associate Dean and Transfer Liaison	Mid Michigan College
Grace Yackee	Grace Yackee	Vice President of Instruction	Monroe County Community College
Kevin Cooper	Kevin Cooper	Dean of Science/Mathematics	Monroe County Community College
Kojo Quartey	Kojo Quartey	President	Monroe County Community College
Robert Ferrentino	Robert Ferrentino	President	Montcalm Community College
Robert Spohr	Robert Spohr	Vice President for Academic Affairs	Montcalm Community College
Beverly Walker-Griffea	Beverly Walker-Griffea	President	Mott Community College
Chuck Wade	Chuck Wade	Biology Faculty	Mott Community College
Michelle Glenn	Michelle Glenn	Interim Vice President of Academic Affairs	Mott Community College
Todd Troutman	Todd Troutman	Dean of Science & Mathematics	Mott Community College
Dale Nesbary, Ph.D.	Dale Nesbary, Ph.D.	President	Muskegon Community College

Kelley Conrad	Kelley Conrad	Vice President for Academic Affairs	Muskegon Community College
David Roland Finley, Ph.D.	David Roland Finley, Ph.D.	President	North Central Michigan College
Debra Pharo	Debra Pharo	Science and Mathematics Academic Area Chair	Northwestern Michigan College
Stephen N. Siciliano	Stephen N. Siciliano	Vice President for Educational Services	Northwestern Michigan College
Timothy J. Nelson	Timothy J. Nelson	President	Northwestern Michigan College
M. Cathey Maze	M. Cathey Maze	Vice Chancellor for Academic Affairs	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
David W Fleming	David W Fleming	Vice President of Instruction	Southwestern Michigan College
Julie Armstrong	Julie Armstrong	Chief of Staff	St. Clair County Community College
Kimberly Hurns, DM	Kimberly Hurns, DM	Vice President for Instruction	Washtenaw Community College
Patrick J. McNally	Patrick J. McNally	Vice Chancellor, Curriculum and Distance Learning	Wayne County Community College District
Dr. Brooke Portmann	Dr. Brooke Portmann	Dean of Arts and Sciences	West Shore Community College
Dr. Mark Kinney	Dr. Mark Kinney	Vice President of Academics and Student Services	West Shore Community College
Dr. Paul Bilinski	Dr. Paul Bilinski	Associate Professor of Biology	West Shore Community College

Scott Ward	Scott Ward	President	West Shore Community College

## MICHIGAN ASSOCIATION OF STATE UNIVERSITIES

SIGNATURE	NAME	TITLE	INSTITUTION
Dr. Jane M. Davison	Dr. Jane M. Davison	Acting Dean, College of Science and Engineering	Central Michigan University
Dr. Mary Schutten	Dr. Mary Schutten	Provost and Executive Vice President	Central Michigan University
Dr. Robert O. Davies	Dr. Robert O. Davies	President	Central Michigan University
Dana Heller, Ph.D.	Dana Heller, Ph.D.	Dean, College of Arts & Sciences	Eastern Michigan University
James M. Smith, Ph.D.	James M. Smith, Ph.D.	President	Eastern Michigan University
Marianne Laporte, Ph.D.	Marianne Laporte, Ph.D.	Department Head, Biology	Eastern Michigan University
Rhonda Longworth, Ph.D.	Rhonda Longworth, Ph.D.	Provost and Executive Vice President	Eastern Michigan University
Dr. Leonard Johnson	Dr. Leonard Johnson	Associate Provost, Academic Affairs	Ferris State University
Philomena V. Mantella	Philomena V. Mantella	President	Grand Valley State University
Maria C. Cimitile	Maria C. Cimitile	Provost and Executive Vice President for Academic and Student Affairs	Grand Valley State University
Chandrashekhar Joshi	Chandrashekhar Joshi	Department Chair, Biological Sciences	Michigan Technological University
David Hemmer	David Hemmer	Dean, College of Sciences and Arts	Michigan Technological University

#### MITRANSFER PATHWAYS ARTICULATION AGREEMENT: BIOLOGY Jacqueline Huntoon Jacqueline Huntoon Michigan Technological University Provost and Senior Vice President for Academic Affairs Richard Koubek Michigan Technological University Richard Koubek President Dr. John Rebers Professor & Department Dr. John Rebers Northern Michigan University Head Biology Kerri D. Schuiling Kerri D. Schuiling Northern Michigan University Provost & VPAA Rob Winn Dean College of Arts & Northern Michigan University Rob Winn Sciences James P. Lentini, D.M.A. Senior Vice President for Oakland University James P. Lentini, D.M.A. Academic Affairs and Provost Deborah Huntley Deborah Huntley Saginaw Valley State University Provost Catherine A. Davy Catherine A. Davy Provost and Vice Chancellor University of Michigan-Dearborn

#### MICHIGAN INDEPENDENT COLLEGES AND UNIVERSITIES

SIGNATURE	NAME	TITLE	INSTITUTION
Christon Arthur	Christon Arthur	Provost	Andrews University
Amy Rebok Rosenthal	Amy Rebok Rosenthal	Dean, Undergraduate Education	Andrews University
Robert Zdor	Robert Zdor	Biology Department Chair	Andrews University
Steven Montreal, Ph.D.	Steven Montreal, Ph.D.	Dean of School of Arts and Sciences	Concordia University Ann Arbor

for Academic Affairs

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Johnathan Marko	Johnathan Marko	Dean of Undergraduate Education	Cornerstone University
Gilda Gely, Ph.D.	Gilda Gely, Ph.D.	Executive Vice President for Academics and Provost	Davenport University
Richard J. Pappas, Ed.D.	Richard J. Pappas, Ed.D.	President	Davenport University
Fredi deYampert	Fredi deYampert	VP, Academic Affairs	Finlandia University
Maria Vaz	Maria Vaz	Vice President for Academic Affairs/Provost	Lawrence Technological University
Dr. Srini Kambhampati	Dr. Srini Kambhampati	Dean of the College of Arts and Science	Lawrence Technological University
Dr. Brian Stogner	Dr. Brian Stogner	President	Rochester University
Dr. David Brackney	Dr. David Brackney	Chair, Department of Science and Mathematics	Rochester University
Dr. Remylin Bruder	Dr. Remylin Bruder	Provost	Rochester University
Sharon Weber	Sharon Weber	Vice President of Academic Affairs	Siena Heights University
Ronald Delap	Ronald Delap	Associate Vice President of Academic Affairs	Spring Arbor 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 and Science	University of Detroit Mercy
Pamela Zarkowski, J.D., MPH	Pamela Zarkowski, J.D., MPH	Provost and Vice President of Academic Affairs	University of Detroit Mercy





## **DEGREE PROGRAM INFORMATION**

Institution	Alpena Community College
Degree/Program	Biology
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 <a href="https://www.mitransfer.org">www.mitransfer.org</a>.

The MTA Mathematics distribution area allows students to complete one of three math pathways. The Biology 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
Cell/Molecular Biology	BIO 161	Gen. College Biology I	4
Organismal Biology	BIO 162	Gen. College Biology II	4
General Chemistry I	CEM 121	Gen. and Inorg. Chemistry I	4
General Chemistry II	CEM 122	Inorg. Chem & Quan. Analysis	4
Organic Chemistry I	CEM 221	Organic Chem I	4
Organic Chemistry II	CEM 222	Organic Chem II	4
		TOTAL CREDITS	24

## REMAINING DEGREE REQUIREMENTS

General Education or Program	Subject/ Course Number	Course Title	Credit Hrs
Requirement			
American Government	PLS 221 or 222; or HST 221 and	American Government and	MTA
requirement	222	Politics or State and Local	Social
		Government; US History I and	Science
		US History II	
Elective	MTH 131 or 223	Calculus I or Statistical	5 or 4
		Methods	
Elective	PHY 121	College Physics I	4
Elective	PHY 122	College Physics II	4
Elective			1-2
		CC Only: Add remaining hours	14
		TOTAL CREDITS	60



## **DEGREE PROGRAM INFORMATION**

Institution	Bay College
Degree/Program	AS-Biology
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 <a href="https://www.mitransfer.org">www.mitransfer.org</a>.

The MTA Mathematics distribution area allows students to complete one of three math pathways. The Biology 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
Cell/Molecular Biology	BIOL 112	Cells and Molecules	4
Organismal Biology	BIOL 110	Evolution and Diversity	4
General Chemistry I	CHEM 110	General Chemistry I	5
General Chemistry II	CHEM 112	General Chemistry II	5
Organic Chemistry I	CHEM 201	Organic Chemistry I	4
Organic Chemistry II	CHEM 202	Organic Chemistry II	4
		TOTAL CREDITS	26

## REMAINING DEGREE REQUIREMENTS

General Education or Program	Subject/ Course Number	Course Title	Credit Hrs
Requirement			
Program Recommendation	MATH 210	Statistics	4
Program Electives	Choice	Choice	12
		CC Only: Add remaining hours	16
		TOTAL CREDITS	60



## DEGREE PROGRAM INFORMATION

Institution	Delta College
Degree/Program	A.S. Biology
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 <a href="https://www.mitransfer.org">www.mitransfer.org</a>.

The MTA Mathematics distribution area allows students to complete one of three math pathways. The Biology 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	<b>Subject/ Course Number</b>	Course Title	Credit Hrs
Cell/Molecular Biology	BIO 171	Integrated General Biology I	4
Organismal Biology	BIO 172W	Integrated General Biology II	4
General Chemistry I	CHM 111	General and Inorganic Chemistry I	5
General Chemistry II	CHM 112	General and Inorganic Chemistry II	5
Organic Chemistry I	CHM 210 and 210LW	Organic Chemistry I and Laboratory	5
Organic Chemistry II	CHM 220 and 220LW	Organic Chemistry II and Laboratory	5
		TOTAL CREDITS	28

## REMAINING DEGREE REQUIREMENTS

General Education or Program	Subject/ Course Number	Course Title	Credit Hrs
Requirement			
Lifelong Wellness (from list)			2
		CC Only: Add remaining hours	2
		TOTAL CREDITS	62



# **BIOLOGY MITRANSFER PATHWAY**

## **DEGREE PROGRAM INFORMATION**

Institution	Glen Oaks Community College
Degree/Program	Associate of Science/ 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 <a href="https://www.mitransfer.org">www.mitransfer.org</a>.

The MTA Mathematics distribution area allows students to complete one of three math pathways. The Biology 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
Cell/Molecular Biology	BIO 121	Gen Bio I	4
Organismal Biology	BIO 122	Gen Bio II	4
General Chemistry I	CHEM 133	General Chemistry I	4
General Chemistry II	CHEM 134	General Chemistry II	4
Organic Chemistry I	CHEM 210	Organic Chemistry I	4
Organic Chemistry II	CHEM 211	Organic Chemistry II	4
		TOTAL CREDITS	24

## REMAINING DEGREE REQUIREMENTS

General Education or Program	Subject/ Course Number	Course Title	Credit Hrs
Requirement			
	MATH 161	Calculus I	4
Math and/or Science Electives	BIO, GEOL, GEOG, PHYS, and MATH prefix		8 or 9
		Remaining hours	
		TOTAL CREDITS	60 or 61



#### **DEGREE PROGRAM INFORMATION**

Institution	GOGEBIC COMMUNITY COLLEGE
Degree/Program	Biological Sciences
Credits Required	64-66

# 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 <a href="https://www.mitransfer.org">www.mitransfer.org</a>.

The MTA Mathematics distribution area allows students to complete one of three math pathways. The Biology 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
Cell/Molecular Biology	BIO101	Principles of Biology	4
Organismal Biology	BIO102	Biological Diversity	4
General Chemistry I	CHM151	General & Inorganic Chemistry	5
General Chemistry II	CHM152	Gen & Inorganic Chemistry II	5
Organic Chemistry I	CHM201	Organic Chemistry I	4
Organic Chemistry II	CHM202	Organic Chemistry II	4
	•	TOTAL CREDITS	22

## REMAINING DEGREE REQUIREMENTS

General Education or Program	Subject/ Course Number	Course Title	Credit Hrs
Requirement			
Program Requirement	MTH150	Calculus I	5
Program Requirement	ORI100	College Experience	1
Math/Science Electives			12-14
		CC Only: Add remaining hours	18-20
		TOTAL CREDITS	64-66



## 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 <a href="https://www.mitransfer.org">www.mitransfer.org</a>.

The MTA Mathematics distribution area allows students to complete one of three math pathways. The Biology 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
Cell/Molecular Biology	BI 151	Introduction to Cells,	4
		Molecules, and Genes	
Organismal Biology	BI 152	Biological Diversity	4
General Chemistry I	CHM 130 and CHM 131	General Chemistry I and	4+1
		General Chemistry I Lab	
General Chemistry II	CHM 140 and CHM 141	General Chemistry II and	4+1
		General Chemistry II Lab	
Organic Chemistry I	CHM 260 and CHM 261	Organic Chemistry I and	4+1
		Organic Chemistry I Lab	
Organic Chemistry II	CHM 270 and CHM 271	Organic Chemistry II and	4+1
		Organic Chemistry II Lab	
	•	TOTAL CREDITS	28

#### REMAINING DEGREE REQUIREMENTS

General Education or Program	Subject/ Course Number	Course Title	Credit Hrs
Requirement			
GRCC currently has a specific Pre-Biology program in its <u>Catalog</u> that may have additional coursework			
outlined based primarily on transfer institution requirements. However, besides MTA, GRCC does not			
have any additional degree requirements (such as government, wellness, etc).			
		CC Only: Add remaining hours	10
		TOTAL CREDITS	60



#### **DEGREE PROGRAM INFORMATION**

Institution	Henry Ford College
Degree/Program	Associate in Science / Biology
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 <a href="https://www.mitransfer.org">www.mitransfer.org</a>.

The MTA Mathematics distribution area allows students to complete one of three math pathways. The Biology 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
Cell/Molecular Biology	BIO 152	Cells and Molecular Biology	4
Organismal Biology	BIO 150	Biology: Organisms, Genes, and	4
		Ecology	
General Chemistry I	CHEM 141	Principles of General and	5
		Inorganic Chemistry I	
General Chemistry II	CHEM 142	Principles of General and	5
		Inorganic Chemistry II	
Organic Chemistry I	CHEM 241 AND CHEM 243	Organic Chemistry I AND	6
		Microscale Organic Chemistry	
		Laboratory I	
Organic Chemistry II	CHEM 242 AND 244	Organic Chemistry II AND	6
		Microscale Organic Chemistry	
		Laboratory II	
TOTAL CREDITS			30

## REMAINING DEGREE REQUIREMENTS

General Education or Program Requirement	Subject/ Course Number	Course Title	Credit Hrs
Computer Technology	Choose from list of approved courses		3
		CC Only: Add remaining hours	4
		TOTAL CREDITS	7



## 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 <a href="https://www.mitransfer.org">www.mitransfer.org</a>.

The MTA Mathematics distribution area allows students to complete one of three math pathways. The Biology MiTransfer Pathways faculty recommended that students complete a course in the Calculus pathway.

## MITRANSFER PATHWAYS COURSES

These courses are commonly agreed upon for transfer in this program among participating institutions.

Pathway Course	Subject/ Course Number	Course Title	Credit Hrs
Cell/Molecular Biology	BIO 161	General Biology I	4 (MTA)
Organismal Biology	BIO 162	General Biology II	4
General Chemistry I	CEM 141	General Chemistry I	5 (MTA)
General Chemistry II	CEM 142	General Chemistry II	5
Organic Chemistry I	CEM 241	Organic Chemistry I	5
Organic Chemistry II	CEM 242	Organic Chemistry II	5

## 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. Add additional lines as necessary.

General Education or Program	Subject/ Course Number	Course Title	Credit Hrs
Requirement			
First Year Experiencer	SEM 140	Seminar in Life Pathways	3
GEO 2: Equity and Inclusion in a	Selection for GEO 2 list	Some MTA courses meet this	3
Diverse Society		req.	
			17
		Remaining hours (transfer electives)	

#### **ADVISING NOTES**

Please indicate any advising notes for students following this transfer pathway at your institution. Click or tap here to enter text.



#### **DEGREE PROGRAM INFORMATION**

Institution	Kalamazoo Valley Community College	
Degree/Program	Associate of Science (AS), Biological Sciences	
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 <a href="https://www.mitransfer.org">www.mitransfer.org</a>.

The MTA Mathematics distribution area allows students to complete one of three math pathways. The Biology 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
Cell/Molecular Biology	BIO 101	Cellular Biology	4
Organismal Biology	BIO 104	Organismal Biology	4
General Chemistry I	CHM 120	General Chemistry I	4
General Chemistry II	CHM 130	General Chemistry II	4
Organic Chemistry I	CHM 220	Organic Chemistry I	5
Organic Chemistry II	CHM 230	Organic Chemistry II	5
		TOTAL CREDITS	26

## REMAINING DEGREE REQUIREMENTS

General Education or Program	Subject/ Course Number	Course Title	Credit Hrs
Requirement			
Mathematics	MATH 160	Calculus I	5
Mathematics	MATH 220	Probability & Statistics	4
		CC Only: Add remaining hours	1
		TOTAL CREDITS	62



## ASSOCIATE DEGREE PROGRAM INFORMATION

Institution	Kellogg Community College
Degree/Program	Associate in Science - Biology
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 <a href="https://www.mitransfer.org">www.mitransfer.org</a>.

The MTA Mathematics distribution area allows students to complete one of three math pathways. The Biology MiTransfer Pathways faculty recommended that students complete a course in the Calculus pathway.

## MiTransfer Pathways Courses

These courses are commonly agreed upon for transfer in this program among participating institutions.

Pathway Course	Subject/ Course Number	Course Title	Credit Hrs
Cell/Molecular Biology	BIOL 110	Principles of Biology: Cellular	4
Organismal Biology	BIOL 109	Principles of Biology:	4
		Organismal	
General Chemistry I	CHEM 110	General Chemistry 1	4
General Chemistry II	CHEM 111	General Chemistry 2	4
Organic Chemistry I	CHEM 201	Organic Chemistry 1	4
Organic Chemistry II	CHEM 202	Organic Chemistry 2	4

## 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. Add additional lines as necessary.

General Education or Program	Subject/ Course Number	Course Title	Credit Hrs
Requirement			
Program Requirement	FYS 101	First Year Seminar	1
Program Requirement	ENGL 151 or ENGL 151H	Freshman Composition or	3
		Freshman Comp Honors	
Program Requirement	ENGL/COMM options	Many Options	3
Program Requirement	Personal & Cultural Engagement	Many Options – 2 different	6
	Core – MTA Humanities/Fine Arts	disciplines	
Program Requirement	Personal & Cultural Engagement –	Many Options – 2 different	6
	MTA Social Science	disciplines	
Program Requirement	MTA Mathematics	Many options	3-4
Program Requirement	Math	Many Options	4
Program Requirement	Service Learning Endorsement	Service Learning	0-3
	(SERV 100 or SERV 200 or		
	completed in another course)		
	Ren	naining hours (transfer electives)	8-11

## **ADVISING NOTES**

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

Students should seek an appointment with an Academic Advisor to determine courses which best meet individual academic goals and to discuss transfer options including verification of courses towards the completion of the Michigan Transfer Agreement (MTA). Students must complete a minimum of 60 credit in approved courses to earn a degree at Kellogg Community College with a minimum cumulative grade point average of 2.0 or higher. Contact Academic Advising at kellogg.edu/advising or call 269-965-4124.

Service-Learning endorsement is required! Additional required degree criteria is listed in the KCC Academic Catalog under degree and certificate requirements.

Students should work with an academic advisor to determine the best elective courses based on individual academic and transfer goals.



#### **DEGREE PROGRAM INFORMATION**

Institution	Kirtland Community College
Degree/Program	Associate in Science and 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 <a href="https://www.mitransfer.org">www.mitransfer.org</a>.

The MTA Mathematics distribution area allows students to complete one of three math pathways. The Biology 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
Cell/Molecular Biology	BIO 11700	Biology I for STEM Majors	4
Organismal Biology	BIO 11800	Biology II for STEM Majors	4
General Chemistry I	CHE 10101/CHE 10102	General Chemistry I & Lab	4/1
General Chemistry II	CHE 10201/CHE 10202	General Chemistry II & Lab	4/1
Organic Chemistry I	CHE 20101/CHE 20102	Organic Chemistry II & Lab	4/1
Organic Chemistry II	CHE 20201/CHE 20202	Organic Chemistry II & Lab	4/1
	·	TOTAL CREDITS	28

#### REMAINING DEGREE REQUIREMENTS

These are additional associate degree requirements that are not MTA or MiTransfer Pathways courses. They may not be accepted for transfer by universities participating in the agreement. If there are remaining hours, use the Remaining Degree Requirements in Appendix B identified by the university to which the student plans to transfer to select courses that meet bachelor's degree requirements.

#### Students can choose from theses courses as possible electives until they reach a total of 60 credits.

General Education or Program Requirement	Subject/ Course Number	Course Title	Credit Hrs
	BIO 10100	Biology for Non-STEM Majors	4
	BIO 10700	Essentials of Anatomy & Physiology	4
	BIO 20100	General Zoology	4
	BIO 21002/BIO 21003	Microbiology & Lab	3/1
	BIO 23500	Anatomy & Physiology I	4
	BIO 23600	Anatomy & Physiology II	4
	CHE 10000	Chemical Science	4
		CC Only: Add remaining hours	Varies
		TOTAL CREDITS	60



#### **DEGREE PROGRAM INFORMATION**

Institution	Lake Michigan College
Degree/Program	Assoc. in Science/Biology
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 <a href="https://www.mitransfer.org">www.mitransfer.org</a>.

The MTA Mathematics distribution area allows students to complete one of three math pathways. The Biology 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
Cell/Molecular Biology	BIOL 111	Principles of Biology I	4
Organismal Biology	BIOL 112	Principles of Biology II	4
General Chemistry I	CHEM 111	General Chemistry I	4
General Chemistry II	CHEM 112	General Chemistry II	4
Organic Chemistry I	CHEM 203	Organic Chemistry I	4
Organic Chemistry II	CHEM 204	Organic Chemistry II	4
	·	TOTAL CREDITS	24

## REMAINING DEGREE REQUIREMENTS

General Education or Program	Subject/ Course Number	Course Title	Credit Hrs
Requirement			
Biology	BIOL 205	Human Anatomy	4
Physical Education	PHED 200, 212 or 214	Healthful Living, Health &	1
		Fitness, or Personal Health	
	General Electives		12
		CC Only: Add remaining hours	17
		TOTAL CREDITS	60



#### **DEGREE PROGRAM INFORMATION**

Institution	Lansing Community College
Degree/Program	Biology AS
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 <a href="https://www.mitransfer.org">www.mitransfer.org</a>.

The MTA Mathematics distribution area allows students to complete one of three math pathways. The Biology 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
Cell/Molecular Biology	BIOL 127	Cell biology	4
Organismal Biology	BIOL 128	Organismal biology	4
General Chemistry I	CHEM 151/161	General Chemistry I	5
General Chemistry II	CHEM 152/162	General Chemistry II	4
Organic Chemistry I	CHEM 251	Organic Chemistry I	4
Organic Chemistry II	CHEM 252/272	Organic Chemistry II and lab	6
		TOTAL CREDITS	27

## REMAINING DEGREE REQUIREMENTS

General Education or Program	Subject/ Course Number	Course Title	Credit Hrs
Requirement			
Elective from list (choose one)	BIOL 270	Human Genetics	3
	BIOL 275	Molecular Biology I	4
	BIOL 210	Natural Resource Conservation	4
	BIOL 260	Botany	4
	BIOL 265	Zoology	4
		TOTAL CREDITS	60 or 61



## ASSOCIATE DEGREE PROGRAM INFORMATION

Institution	Macomb 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 <a href="https://www.mitransfer.org">www.mitransfer.org</a>.

The MTA Mathematics distribution area allows students to complete one of three math pathways. The Biology MiTransfer Pathways faculty recommended that students complete a course in the Calculus pathway.

## MITRANSFER PATHWAYS COURSES

These courses are commonly agreed upon for transfer in this program among participating institutions.

Pathway Course	Subject/ Course Number	Course Title	Credit Hrs
Cell/Molecular Biology	BIOL 1000	General Biology I	4
Organismal Biology	BIOL 1010	General Biology II	4
General Chemistry I	CHEM 1170	General Chemistry I	4
General Chemistry II	CHEM 1180	General Chemistry II	4
Organic Chemistry I	CHEM 2260	Organic Chemistry I	4
Organic Chemistry II	CHEM 2280	Organic Chemistry II	4
Organic Chemistry Lab	CHEM 2270	Organic Chemistry Lab	2

## 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. Add additional lines as necessary.

General Education or Program Requirement	Subject/ Course Number	Course Title	Credit Hrs
			34
		Remaining hours (transfer electives)	

#### **ADVISING NOTES**

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



## 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 <a href="https://www.mitransfer.org">www.mitransfer.org</a>.

The MTA Mathematics distribution area allows students to complete one of three math pathways. The Biology 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	<b>Credit Hrs</b>
Cell/Molecular Biology	BIO 111	Fundamentals of Cellular and Molecular Biology	4
Organismal Biology	BIO 112	Fundamentals of Evolution and Diversity	4
General Chemistry I	CHM 111	General College Chemistry I	5
General Chemistry II	CHM 112	General College Chemistry II	5
Organic Chemistry I	CHM 245/255	Organic Chemistry and Lab I	5
Organic Chemistry II	CHM 246/256	Organic Chemistry and Lab II	5

## REMAINING DEGREE REQUIREMENTS

General Education or Program Requirement	Subject/ Course Number	Course Title	Credit Hrs
		Remaining hours - Elective credits to meet degree minimum of 62	10



# **BIOLOGY MITRANSFER PATHWAY**

## **DEGREE PROGRAM INFORMATION**

Institution	Monroe County Community College
Degree/Program	Associate of Science/ Transfer Pathway- Biology
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 <a href="https://www.mitransfer.org">www.mitransfer.org</a>.

The MTA Mathematics distribution area allows students to complete one of three math pathways. The Biology 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
Cell/Molecular Biology	BIOL 151	Biological Sciences I	4
Organismal Biology	BIOL 153	Biological Sciences II	4
General Chemistry I	CHEM 151	General College Chemistry I	4
General Chemistry II	CHEM 152	General College Chemistry II	4
Organic Chemistry I	CHEM 251	Organic Chemistry I	4
Organic Chemistry II	CHEM 252	Organic Chemistry II	4
		TOTAL CREDITS	24

## REMAINING DEGREE REQUIREMENTS

General Education or Program Requirement	Subject/ Course Number	Course Title	Credit Hrs
General Education	CIS 130	Introduction to Computer Information Systems	3
		Remaining hours	
_		TOTAL CREDITS	60



#### **DEGREE PROGRAM INFORMATION**

Institution	Montcalm Community College	
Degree/Program	MITransfer Pathway Biology 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 Biology 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
Cell/Molecular Biology	BIOL121	College Biology I	4
Organismal Biology	BIOL122	College Biology II	4
General Chemistry I	CHEM220	College Chemistry I	5
General Chemistry II	CHEM221	College Chemistry II	5
Organic Chemistry I	CHEM251	Organic Chemistry I	5
Organic Chemistry II	CHEM252	Organic Chemistry II	5
		TOTAL CREDITS	28

## REMAINING DEGREE REQUIREMENTS

General Education or Program	Subject/ Course Number	Course Title	Credit Hrs
Requirement			
Elective credits for a total of 60			
English Requirement	ENGL 100	Freshman English 1	3
MTA Math requirement	MATH 159	College Algebra	4
MTA Social Science requirement	POLI 240	American Political System	3
Communication Requirement	COMM 220 or 210	Interpersonal Communications or Speech	3
		CC Only: Add remaining hours	
		TOTAL CREDITS	60



#### **DEGREE PROGRAM INFORMATION**

Institution	Mott Community college
Degree/Program	Associates in Science/Biology
Credits Required	63 or 64

# 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 <a href="https://www.mitransfer.org">www.mitransfer.org</a>.

The MTA Mathematics distribution area allows students to complete one of three math pathways. The Biology 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
Cell/Molecular Biology	Biol 111	Fundamentals of Biology	4
Organismal Biology	Biol 112	Diversity of life	4
General Chemistry I	Chem 131	General Chemistry I	5
General Chemistry II	Chem 132	General Chemistry II	5
Organic Chemistry I	Chem 237	Organic Chemistry I	5
Organic Chemistry II	Chem 238	Organic Chemistry II	5
TOTAL CREDITS			28

## REMAINING DEGREE REQUIREMENTS

General Education or Program Requirement	Subject/ Course Number	Course Title	Credit Hrs
		CC Only: Add remaining hours	
		TOTAL CREDITS	



#### **DEGREE PROGRAM INFORMATION**

Institution	Muskegon Community College
Degree/Program	Associate in Science and Arts
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 <a href="https://www.mitransfer.org">www.mitransfer.org</a>.

The MTA Mathematics distribution area allows students to complete one of three math pathways. The Biology 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	<b>Credit Hrs</b>
Cell/Molecular Biology	BIOL 130L&L	General Biology I	4
(MTA Course)			
Organismal Biology	BIOL 131L&L	General Biology II	4
General Chemistry I	CHEM 101LEC and CHEM 100A	Gen and Inorganic Chem 1 and	5
(MTA Course)		Lab	
General Chemistry II	CHEM 102LEC and CHEM 102A	Gen and Inorganic Chem 2 and	5
		lab	
Organic Chemistry I	CHEM 201E and CHEM 201F	Organic Chem 1 and Lab	5
Organic Chemistry II	CHEM 202F and CHEM 202G	Organic Chem 2 and Lab	5
		TOTAL CREDITS	28

## REMAINING DEGREE REQUIREMENTS

General Education or Program Requirement	Subject/ Course Number	Course Title	Credit Hrs
General Education	CIS 110 or CIS 120A	Computer Concepts or Intro to Computer Information Systems	3
General Education	Physical Education	Selection of Courses	2
General Education	Selection of Courses	Selection of Courses	3
Electives	Selection of Courses	Selection of Courses	5
	·	TOTAL CREDITS	13



## ASSOCIATE DEGREE PROGRAM INFORMATION

Institution	North Central Michigan College	
Degree/Program	Associate of Science with a Concentration in Biology	
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 <a href="https://www.mitransfer.org">www.mitransfer.org</a>.

The MTA Mathematics distribution area allows students to complete one of three math pathways. The Biology MiTransfer Pathways faculty recommended that students complete a course in the Calculus pathway.

## MITRANSFER PATHWAYS COURSES

These courses are commonly agreed upon for transfer in this program among participating institutions.

Pathway Course	Subject/ Course Number	Course Title	Credit Hrs
Cell/Molecular Biology	BIO 151	General Biology I (MTA)	4
Organismal Biology	BIO 152	General Biology II	4
General Chemistry I	CEM 121	Principles of Chemistry I (MTA)	5
General Chemistry II	CEM 122	Principles of Chemistry II	5
Organic Chemistry I	CEM 231	Organic Chemistry I	5
Organic Chemistry II	CEM 232	Organic Chemistry II	5

## 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. Add additional lines as necessary.

General Education or Program	Subject/ Course Number	Course Title	Credit Hrs
Requirement			
General Education	ENG 112	English Composition II	3
General Education	COM 111 or COM 170	Public Speaking or	3
		Interpersonal Communications	
			7-12
Remaining hours (transfer electives)			

#### **ADVISING NOTES**

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

- -MATH 130-College Algebra or higher satisfies the Associate of Science math requirement and can be used in the additional Science and Math electives section of the A.S. degree.
- -A minimum of 60 earned credits required to complete degree.



### **DEGREE PROGRAM INFORMATION**

Institution	Northwestern Michigan College
Degree/Program	Associate in Science & Arts (ASA)/ Biology
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 <a href="https://www.mitransfer.org">www.mitransfer.org</a>.

The MTA Mathematics distribution area allows students to complete one of three math pathways. The Biology 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
Cell/Molecular Biology	BIO 115	Cell, Plant & Ecosystem Biology	4
Organismal Biology	BIO 116	Genetic, Evolution & Animal	4
<i>G</i>		Biology	
General Chemistry I	CHM 150	General Chemistry I	5
General Chemistry II	CHM 151	General Chemistry II	5
Organic Chemistry I	CHM 250	Organic Chemistry I	5
Organic Chemistry II	CHM 251	Organic Chemistry II	5
	·	TOTAL CREDITS	28

### REMAINING DEGREE REQUIREMENTS

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



#### **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 <a href="https://www.mitransfer.org">www.mitransfer.org</a>.

The MTA Mathematics distribution area allows students to complete one of three math pathways. The Biology 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
Cell/Molecular Biology	BIO 1530	Molecular Biology	4
Organismal Biology	BIO 1560	Organismal Biology	4
General Chemistry I	CHE 1510	General Chemistry I	4
General Chemistry II	CHE 1520	General Chemistry II	4
Organic Chemistry I	CHE 2610	Organic Chemistry I	4
Organic Chemistry II	CHE 2620	Organic Chemistry II	4
		TOTAL CREDITS	24

### REMAINING DEGREE REQUIREMENTS

General Education or Program Requirement	Subject/ Course Number	Course Title	Credit Hrs
		CC Only: Add remaining hours	14
		TOTAL CREDITS	60



#### **DEGREE PROGRAM INFORMATION**

Institution	Schoolcraft 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 <a href="https://www.mitransfer.org">www.mitransfer.org</a>.

The MTA Mathematics distribution area allows students to complete one of three math pathways. The Biology 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
Cell/Molecular Biology	BIOL 120	Principles of Biology 1	5
Organismal Biology	BIOL 130	Principles of Biology 2	5
General Chemistry I	CHEM 111	General Chemistry 1	4
General Chemistry II	CHEM 117	General Chemistry 2 and	5
		Qualitative Analysis	
Organic Chemistry I	CHEM 213	Organic Chemistry 1	5
Organic Chemistry II	CHEM 214	Organic Chemistry 2	5
		TOTAL CREDITS	29

## REMAINING DEGREE REQUIREMENTS

General Education or Program	Subject/ Course Number	Course Title	Credit Hrs
Requirement			
Select 7 additional credits from			7
the MTA list			
		CC Only: Add remaining hours	7
		TOTAL CREDITS	60



#### DEGREE PROGRAM INFORMATION

Institution	Southwestern Michigan College
Degree/Program	A.S. Biology
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 Biology 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
Cell/Molecular Biology	BIOL 101	Gen. Biology I	5
Organismal Biology	BIOL 102	Gen. Biology II	5
General Chemistry I	CHEM 101	General Chemistry I	5
General Chemistry II	CHEM 102	General Chemistry II	5
Organic Chemistry I	CHEM 201	Organic Chem I	5
Organic Chemistry II	CHEM 202	Organic Chem II	5
	•	TOTAL CREDITS	30

#### REMAINING DEGREE REQUIREMENTS

General Education or Program	Subject/ Course Number	Course Title	Credit Hrs
Requirement			
Mathematics	MATH 130	Precalculus	5
Physics	PHYS 101	Intro Physics I	5
Physics	PHYS 102	Intro Physics II	5
		CC Only: Add remaining hours	15
		TOTAL CREDITS	63



### **DEGREE PROGRAM INFORMATION**

Institution	St. Clair County Community College	
Degree/Program	Associate in Science/ Biology	
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 <a href="https://www.mitransfer.org">www.mitransfer.org</a>.

The MTA Mathematics distribution area allows students to complete one of three math pathways. The Biology 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
Cell/Molecular Biology	BIO 120	Cellular and Molecular Biology	4
Organismal Biology	BIO 121	Organismal Biology	4
General Chemistry I	CHM 111	Chemistry Theory and	5
		Principles with Analysis	
General Chemistry II	CHM 112	Chemistry Theory and	5
		Principles with Analysis	
Organic Chemistry I	CHM 215	Organic Chemistry I	5
Organic Chemistry II	CHM 216	Organic Chemistry II	5
		TOTAL CREDITS	28

### REMAINING DEGREE REQUIREMENTS

General Education or Program	Subject/ Course Number	Course Title	Credit Hrs
Requirement			
		Remaining hours	2
		TOTAL CREDITS	60



#### **DEGREE PROGRAM INFORMATION**

Institution	Washtenaw Community College
Degree/Program	Associate in Science in Math and Science – Biology Concentration
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 <a href="https://www.mitransfer.org">www.mitransfer.org</a>.

The MTA Mathematics distribution area allows students to complete one of three math pathways. The Biology 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
Cell/Molecular Biology	BIO 162	General Biology II Cells &	4
		Molecules	
Organismal Biology	BIO 161	General Biology I Ecology and	4
		Evolution	
General Chemistry I	CEM 111	General Chemistry I	4
General Chemistry II	CEM 122	General Chemistry II	4
Organic Chemistry I	CEM 211	Organic Chemistry I	4
Organic Chemistry II	CEM 222	Organic Chemistry II	4
	·	TOTAL CREDITS	16

### REMAINING DEGREE REQUIREMENTS

General Education or Program	Subject/ Course Number	Course Title	Credit Hrs
Requirement			
Program Requirement - Select	BIO 111,	Anatomy & Physiology –	5
one course from the following:		Normal Structure & Function	
	BIO 208,	Genetics	Or 4
	BIO 215,	Cell & Molecular Biology	
	BIO 227,	Biology of Animals	
	or BIO 237	Microbiology	
Open Electives			7 - 8
		CC Only: Add remaining hours	
		TOTAL CREDITS	60



#### **DEGREE PROGRAM INFORMATION**

Institution	Wayne County Community College District
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 <a href="https://www.mitransfer.org">www.mitransfer.org</a>.

The MTA Mathematics distribution area allows students to complete one of three math pathways. The Biology 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
Cell/Molecular Biology	BIO 155	Introductory Biology	4
Organismal Biology			
General Chemistry I	CHM 136	General Chemistry I	4
General Chemistry II	CHM 145	General Chemistry II	4
Organic Chemistry I	CHM 250	Organic Chemistry I	4
Organic Chemistry II	CHM 252	Organic Chemistry II	4
		TOTAL CREDITS	20

### REMAINING DEGREE REQUIREMENTS

General Education or Program Requirement	Subject/ Course Number	Course Title	Credit Hrs
General Educations	Humanities	Dance, Philosophy, Music, Languages, MWS 102, Humanities, English 200 level	3
General Educations	Social Science	Economics, Geography, History, Psychology,	3
General Educations	Electives	CC Only: Add remaining hours	4
		TOTAL CREDITS	60



## **DEGREE PROGRAM INFORMATION**

Institution	West Shore Community College
Degree/Program	Associate of Science/ Biology
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 Biology 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	<b>Credit Hrs</b>
Cell/Molecular Biology	BIO 122	General Biology I	4
Organismal Biology	BIO 123	General Biology II	4
General Chemistry I	CHM 122	General Chemistry I	4
General Chemistry II	CHM 123	General Chemistry II	4
Organic Chemistry I	CHM 232	Organic Chemistry I	4
Organic Chemistry II	CHM 233	Organic Chemistry II	4
		TOTAL CREDITS	24

## REMAINING DEGREE REQUIREMENTS

General Education or Program	Subject/ Course Number	Course Title	Credit Hrs
Requirement			
Social Science/ Category C	Category C	Diverse Disciplines	3
Communications III/ Category C	SPE 101, 110, or 206	Principles of Public Speaking,	3
		Interpersonal Comm, Small	
		Group Comm	
Humanities & Fine Arts	Category C	Diverse Disciplines	3
AS	BIS 160, BIO 245	Desktop Apps, Genetics	3-4
		Remaining hours	
		TOTAL CREDITS	

APPENDIX B: Participating Four-Year College and University MiTransfer Biology Pathway Worksheets



#### **DEGREE PROGRAM INFORMATION**

Institution	Andrews University
Degree/Program	BS Biology
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 Biology MiTransfer Pathways faculty recommended that students complete a course in the College Algebra pathway.

#### MITRANSFER PATHWAYS COURSES

Add the commonly agreed upon "pathways courses" which were identified at the MiTransfer Pathways Summit. If a course also fulfills an MTA distribution requirement, please list here but only count the hours in the MTA section.

Pathway Course	Subject/ Course Number	Course Title	Credit Hrs
Cell/Molecular Biology	BIOL 165	Fundamentals of Biology	5
Organismal Biology	BIOL 166	Fundamentals of Biology	5
General Chemistry I	CHEM 131	General Chemistry I	4
General Chemistry II	CHEM 132	General Chemistry II	4
Organic Chemistry I	CHEM 231, Chem 241 (lab)	Organic Chemistry I	3, 1
Organic Chemistry II	CHEM 232, Chem 242 (lab)	Organic Chemistry II	3, 1
		TOTAL CREDITS	26

#### REMAINING DEGREE REQUIREMENTS

General Education or Program Requirement	Subject/ Course Number	Course Title	Credit Hrs
Program Cognate	PHYS 241	General Physics I	4
Program cognate	PHYS 242	General Physics II	4
Program Elective	HORT 226	Plant Systematics & ID	3
Program Cognate	MATH 195	Calculus I for Biology	4
		CC Only: Add remaining hours	
		TOTAL CREDITS	15



Institution	Central Michigan University
Degree/Program	Biology
Credits Required	120

## **MICHIGAN TRANSFER AGREEMENT (MTA)**

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The MTA Mathematics distribution area allows students to complete one of three math pathways. The Biology 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
Cell/Molecular Biology	BIO 112	Foundations of Cell Biology	4
Organismal Biology	BIO 111	Foundations of Evolution and Diversity	4
General Chemistry I	CHM 131	General Chemistry I	4
General Chemistry II	CHM 132	General Chemistry II	4
Organic Chemistry I	CHM 345	Organic Chemistry I	3
Organic Chemistry II	CHM 346	Organic Chemistry II	3
		TOTAL CREDITS	22

#### **REMAINING DEGREE REQUIREMENTS**

General Education or Program Requirement	Subject/ Course Number	Course Title	Credit Hrs
Program Requirement	MTH 130	Pre-Calculus Mathematics	4
General Education	ENG 201	Intermediate Composition	3
		CC Only: Add remaining hours	
		TOTAL CREDITS	7



Institution	Concordia University Ann Arbor
Degree/Program	BS/Biology
Credits Required	126

## MICHIGAN TRANSFER AGREEMENT (MTA)

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The MTA Mathematics distribution area allows students to complete one of three math pathways. The Biology MiTransfer Pathways faculty recommended that students complete a course in the Calculus pathway.

### MITRANSFER PATHWAYS COURSES

These courses are commonly agreed upon for transfer in this program among participating institutions.

Pathway Course	Subject/ Course Number	Course Title	Credit Hrs
Cell/Molecular Biology	BIO151	Functional Human Biology I	4
Organismal Biology	BIO152	Functional Human Biology II	4
General Chemistry I	CHEM141	General Chemistry I	4
General Chemistry II	CHEM142	General Chemistry II	4
Organic Chemistry I	CHEM241	Organic Chemistry I	4
Organic Chemistry II	CHEM242	Organic Chemistry II	4

#### REMAINING DEGREE REQUIREMENTS

These are required, recommended, or optional courses that transfer students could complete at a community college to fulfill degree requirements at the university/ receiving institution. Add additional lines as necessary.

General Education or Program	Subject/ Course Number	Course Title	Credit Hrs
Requirement			
Core Requirement	HHP100	Stewardship of the Body	1
Core Requirement	HHP1XX	Activity Course	1
Major Requirement	BIO240	Zoology	4
Major Requirement	BIO244	Botany	4
Major Requirement	PHYS151	General Physics I	4
Major Requirement	PHYS152	General Physics II	4
Major Requirement	BIO260	Microbiology	4

#### **ADVISING NOTES**

Please indicate any advising notes for students following this transfer pathway at your institution. Click or tap here to enter text.

### DEGREE PROGRAM INFORMATION

Institution	Cornerstone University
Degree/Program	Bachelor of Science – Pre Medical Major
Credits Required	120

## MICHIGAN TRANSFER AGREEMENT (MTA)

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The MTA Mathematics distribution area allows students to complete one of three math pathways. The Biology 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
Cell/Molecular Biology	BIO 151	General Biology	4
Organismal Biology	N/A		
General Chemistry I	CHM 121	General Chemistry I	4
General Chemistry II	CHM 122	General Chemistry II	4
Organic Chemistry I	CHM 230 and CHM-231	Organic Chemistry I (Org Chem Lab)	5
Organic Chemistry II	CHM 232 and CHM 233	Organic Chemistry II (Org Chem II lab)	5
		TOTAL CREDITS	22

### REMAINING DEGREE REQUIREMENTS

General Education or Program	Subject/ Course Number	Course Title	Credit Hrs
Requirement			
Program Requirement	BIO 233	Zoology	4
Program Requirement			
Program Requirement			
	•	TOTAL CREDITS	4

### DEGREE PROGRAM INFORMATION

Institution	Davenport University
Degree/Program	Bachelor of Science in Biological Laboratory Science
Credits Required	120

# 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 <a href="https://www.mitransfer.org">www.mitransfer.org</a>.

The MTA Mathematics distribution area allows students to complete one of three math pathways. The Biology 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
Cell/Molecular Biology	BIOL110/BIOL110L	Foundations of Cell Biology/Lab	4
Organismal Biology	BIOL111/BIOL111L	Organisms and Populations/Lab	4
General Chemistry I	CHEM160/CHEM160L	General Chemistry I/Lab	4
General Chemistry II	CHEM161/CHEM161L	General Chemistry II/Lab	4
Organic Chemistry I	CHEM250/CHEM250L	Organic Chemistry I/Lab	6
Organic Chemistry II	CHEM255/CHEM255L	Organic Chemistry II/Lab	6
		TOTAL CREDITS	28

### REMAINING DEGREE REQUIREMENTS

General Education or Program	Subject/ Course Number	Course Title	Credit Hrs
Requirement			
Program Requirement	BIOL221/221L	Anatomy & Physiology I/Lab	4
Program Requirement	BIOL222/222L	Anatomy & Physiology II/Lab	4
General Education	MATH150	Pre-Calculus	4
Program Requirement	PHYS210/PHYS210L	Required Science Course	4
Program Requirement	PHYS220/PHYS220L	Required Science Course	4
		TOTAL CREDITS	20



#### **DEGREE PROGRAM INFORMATION**

Institution	Eastern Michigan University
Degree/Program	Biology, Bachelor of Science
Credits Required	124 hours

#### MICHIGAN TRANSFER AGREEMENT (MTA)

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The MTA Mathematics distribution area allows students to complete one of three math pathways. The Biology MiTransfer Pathways faculty recommended that students complete a course in the College Algebra pathway.

#### **MITRANSFER PATHWAYS COURSES**

Add the commonly agreed upon "pathways courses" which were identified at the MiTransfer Pathways Summit. If a course also fulfills an MTA distribution requirement, please list here but only count the hours in the MTA section.

Pathway Course	Subject/ Course Number	Course Title	<b>Credit Hrs</b>
Cell/Molecular Biology	BIO 110/111	Introductory Biology I & Lab	3/2
Organismal Biology	BIO 120/121	Introductory Biology II & Lab	3/2
General Chemistry I	CHEM 121/122	General Chemistry I & Lab	3/1
General Chemistry II	CHEM 123/124	General Chemistry II & Lab	3/1
Organic Chemistry I	CHEM 371	Organic Chemistry I	3
Organic Chemistry II	CHEM 372/373	Organic Chemistry II & Lab	3/2
		TOTAL CREDITS	26

#### **REMAINING DEGREE REQUIREMENTS**

General Education or Program	Subject/ Course Number	Course Title	Credit Hrs
Requirement			
Program Requirement	PHY 221	Mechanics, Sound and Heat	4
(Concentration)			
Program Requirement	PHY 222	Electricity and Light	4
(Concentration)			
Program Requirement	STAT 170	Elementary Statistics	3
(Concentration)			
		CC Only: Add remaining hours	
		TOTAL CREDITS	11



Institution	Ferris State University
Degree/Program	Bachelor of Science/Biology
Credits Required	120

## MICHIGAN TRANSFER AGREEMENT (MTA)

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The MTA Mathematics distribution area allows students to complete one of three math pathways. The Biology MiTransfer Pathways faculty recommended that students complete a course in the Calculus pathway.

### MITRANSFER PATHWAYS COURSES

These courses are commonly agreed upon for transfer in this program among participating institutions.

Pathway Course	Subject/ Course Number	Course Title	Credit Hrs
Cell/Molecular Biology	BIOL 121	General Biology 1	4
Organismal Biology	BIOL 122	General Biology II	4
General Chemistry I	CHEM 121	General Chemistry I	5
General Chemistry II	CHEM 122	General Chemistry II	5
Organic Chemistry I	CHEM 321	Organic Chemistry I	5
Organic Chemistry II	CHEM 322	Organic Chemistry II	5

### REMAINING DEGREE REQUIREMENTS

General Education or Program	Subject/ Course Number	Course Title	Credit Hrs
Requirement			
General Education	ENGL 250 or COMM 121		3
General Education	ENGL 311, 321 or 323		3
General Education	Culture Competency Elective (200 Level)		3
General Education	Self and Society Competency Elective (200 Level)		3
Major Requirements	Select 36 credits from major requirement list		36
Supporting Sciences	24-37 credits required (MATH 120 or higher, minimum of 17 credits in CHEM courses including biochemistry, minimum of 4 credits in PHYS courses)		24-37
Biology Application Area	Additional courses in Biology (must be advisor approved)		5
Electives	13-26 credits required		13-26

## **DEGREE PROGRAM INFORMATION**

Institution	Finlandia University
Degree/Program	Bachelor of Arts in Biology
Credits Required	120

## MICHIGAN TRANSFER AGREEMENT (MTA)

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The MTA Mathematics distribution area allows students to complete one of three math pathways. The Biology 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
Cell/Molecular Biology	BIO 111	Biology: Essentials for Life	4
Organismal Biology	BIOL 113	Biology: Diversity of Life	4
General Chemistry I	CHM 115	General Chemistry I	4
General Chemistry II	CHM 116	General Chemistry II	4
Organic Chemistry I	CHM 215	Organic Chemistry I	4
Organic Chemistry II	CHM 216	Organic Chemistry II	4
		TOTAL CREDITS	20

### REMAINING DEGREE REQUIREMENTS

General Education or Program Requirement	Subject/ Course Number	Course Title	Credit Hrs
General Education	REL or FNS	Any Religion or Finnish Studies Course	3
Program Requirement	BIO 171	Anatomy & Physiology I	4
Program Requirement	BIO 172	Anatomy & Physiology II	4
		TOTAL CREDITS	11



Institution	Grand Valley State University
Degree/Program	BS and BA in Biology (all programs)
Credits Required	120

## MICHIGAN TRANSFER AGREEMENT (MTA)

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The MTA Mathematics distribution area allows students to complete one of three math pathways. The Biology 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	<b>Credit Hrs</b>
Cell/Molecular Biology	BIO 120	General Biology I with Lab	4
Organismal Biology	BIO 121	General Biology II with Lab	4
General Chemistry I	CHM 115	Principles of Chemistry I w/Lab	4
General Chemistry II	CHM 116	Principles of Chemistry II w/Lab	5
Organic Chemistry I	CHM 241	*Organic Chemistry I	4
Organic Chemistry II	CHM 242	*Organic Chemistry II	4
		TOTAL CREDITS	26

<sup>\*</sup>GVSU Biology majors have two upper level chemistry sequences to choose from:

- CHM 231 (Introductory Organic Chemistry w/Lab) and CHM 232 (Introductory Biochemistry w/lab)
- · CHM 241 and 242 (Organic Chemistry I and II) for students interested in Pre-Medical, Pre-Vet, Pre-professional and Graduate School Programs

#### REMAINING DEGREE REQUIREMENTS

General Education or Program Requirement	Subject/ Course Number	Course Title	Credit Hours
Minimum required prerequisite for chemistry and physics	MTH 122	**College Algebra	3
Minimum required prerequisite for PHY 220	MTH 123	**Trigonometry	3
Math Cognate Option	STA 215	Introductory Applied Statistics	3
Required/Core Course	BIO 215	Ecology w/Lab	4
Required/Core Course	BIO 210	Evolutionary Biology	3
Physics Option	PHY 220	***General Physics I w/lab	5

Physics Option	PHY 221	***General Physics II w/lab	5
TOTAL CREDITS			26

- \*\*Math course selection will depend on required Chemistry and Physics options:
- MTH 122 or MTH 125 or MTH 201 required for CHM 116
- · MTH 122 or MTH 201 required for PHY 200
- · MTH 122 (College Algebra) and MTH 123 (Trigonometry) (or placement test) required for PHY 220
- · MTH 201 (Calculus I) required for PHY 230
- MTH 202 (Calculus II) required for PHY 231
- · MTH 122 (College Algebra) and MTH 123 (Trigonometry) (or placement test) required for MTH 201 (Calculus I)
- \*\*\* GVSU Biology majors have three Physics sequences to choose from:
- PHY 200 (Physics for the Life Sciences w/lab)
- · PHY 220 and 221 (algebra-based Physics w/labs) for students interested in Pre-Medical, Pre-Vet, Pre-professional and Graduate School Programs
- · PHY 230 and 231 (calculus based Physics w/labs) for students interested in some select Pre-medical and Pre-professional programs. Students should consult university websites for program admission standards.



### DEGREE PROGRAM INFORMATION

Institution	Lawrence Technological University
Degree/Program	Bachelor of Science in Molecular & Cell Biology
Credits Required	123

## MICHIGAN TRANSFER AGREEMENT (MTA)

The MiTransfer Pathways builds on the Michigan Transfer Agreement (MTA). The MTA allows transfer students to select designated courses to complete a minimum of 30 credit hours fulfilling MTA distribution requirements. Students following MiTransfer Pathway agreements should complete the MTA in accordance with the sending institutions' course designations and consider whether any recommended MiTransfer Pathways major-specific courses will "double count" to fulfill MTA distribution requirements in planning their transfer. More information about the MTA is available at <a href="https://www.mitransfer.org">www.mitransfer.org</a>.

The MTA Mathematics distribution area allows students to complete one of three math pathways. The Biology 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
Cell/Molecular Biology	BIO 1213/BIO 1221	Biology 1/Lab	4
Organismal Biology	BIO 1223/BIO 1231	Biology 2/Lab	4
General Chemistry I	CHM 1213/BIO 1221	University Chemistry 1/Lab	4
General Chemistry II	CHM 1223/1231	University Chemistry 2/Lab	4
Organic Chemistry I	CHM 2313/2311	Organic Chemistry I/Lab	4
Organic Chemistry II	CHM 2323/2321	Organic Chemistry 2/Lab	4
		TOTAL CREDITS	24

### REMAINING DEGREE REQUIREMENTS

General Education or Program	Subject/ Course Number	Course Title	Credit Hrs
Requirement			
Program Requirement	MCS 2124	Statistics	4
Program Requirement	SSC/PSY 1000	Social Science/Psychology	3
		Elective	
Program Requirement	BIO 2313/2321	Microbiology/Lab	4
Program Requirement	MCS 1414	Calculus 1	4
Program Requirement	PHY 2213/1221	College Physics I/Lab	4
Program Requirement	PHY 2223/1221	College Physics II/Lab	4
		TOTAL CREDITS	23



Institution	Michigan Technological University
Degree/Program	Bachelor of Science in Biological Sciences (All concentrations: General Biology, Ecology, & Pre-Professional)
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 or not any recommended MiTransfer Pathways major-specific courses will "double count" to fulfill MTA distribution requirements in planning their transfer. Be aware that "double count" policies differ from institution to institution. More information about the MTA is available at <a href="https://www.mitransfer.org">www.mitransfer.org</a>.

The MTA Mathematics distribution area allows students to complete one of three math pathways. The Biology 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
Organismal Biology	BL 1110/1110	General Biology I	4
Cell/Molecular Biology	BL 1200/1210	General Biology II	4
General Chemistry I	CH 1150	University Chemistry I	3
	CH 1151	University Chemistry Lab I	1
General Chemistry II	CH 1160	University Chemistry II	3
	CH 1161	University Chemistry Lab II	1
Organic Chemistry I	CH 2410	Organic Chemistry I	3
	CH 2411	Organic Chemistry Lab I	1
Organic Chemistry II	CH 2420	Organic Chemistry II	3
	CH 2421	Organic Chemistry Lab II	2
		TOTAL CREDITS	25

#### REMAINING DEGREE REQUIREMENTS

General Education or Program	Subject/ Course Number	Course Title	Credit Hrs
Requirement			
Program Requirement (All)	PH 1110 (Lecture) and	College Physics I and	3
	PH 1111 (Lab)	College Physics Lab I	1
Program Requirement (All)	PH 1210 (Lecture) and	College Physics II and	3
	PH 1200 (Lab)	Physics by Inquiry II (Lab)	1
Program Requirement (All)	MA1135	Calculus for Life Sciences	4
		CC Only: Add remaining hours	
		TOTAL CREDITS	12



Institution	Northern Michigan University
Degree/Program	Biology (with concentrations in Botany, Ecology, General Biology, Microbiology, Physiology, or Zoology)
Credits Required	120

### 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 or not any recommended MiTransfer Pathways major-specific courses will "double count" to fulfill MTA distribution requirements in planning their transfer. Be aware that "double count" policies differ from institution to institution. More information about the MTA is available at <a href="https://www.mitransfer.org">www.mitransfer.org</a>.

The MTA Mathematics distribution area allows students to complete one of three math pathways. The Biology 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	<b>Credit Hrs</b>
Cell/Molecular Biology	BI 111	Introductory Biology -	4
		Principles	
Organismal Biology	BI 112	Introductory Biology – Diversity	4
General Chemistry I	CH 111	General Chemistry I	5
General Chemistry II	CH 112	General Chemistry II	5
Organic Chemistry I	CH 315/CH 317 (lecture/lab) or	Organic Chemistry I	4/
	CH 220	Intro to Organic Chemistry	5
Organic Chemistry II	CH 325/CH 327 (lecture/lab): required for Botany, Microbiology, Physiology & Zoology concentrations	Organic Chemistry II	4
		TOTAL CREDITS	26-27

### **REMAINING DEGREE REQUIREMENTS**

General Education or Program	Subject/ Course Number	Course Title	Credit Hrs
Requirement			
Program requirement	PH 201	College Physics I	5
Program requirement	PH 202	College Physics II	5
Many students take physics in the physics in their first two years.  Only 1 semester of physics is required General Biology concentrations.	,		
		CC Only: Add remaining hours	
		TOTAL CREDITS	10



Institution	Oakland University
Degree/Program	Biology BA or BS
Credits Required	124 total credits

## 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 or not any recommended MiTransfer Pathways major-specific courses will "double count" to fulfill MTA distribution requirements in planning their transfer. Be aware that "double count" policies differ from institution to institution. More information about the MTA is available at <a href="https://www.mitransfer.org">www.mitransfer.org</a>.

The MTA Mathematics distribution area allows students to complete one of three math pathways. The Biology 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
Cell/Molecular Biology	BIO 1200 + BIO 1201	Biology I + Biology Lab	5
Organismal Biology	BIO 1300	Biology II	4
General Chemistry I	CHM 1440 + 1470	General Chemistry I + lab	5
General Chemistry II	CHM 1450 + 1480	General Chemistry II + lab	5
Organic Chemistry I	CHM 2340	Organic Chemistry I	4
Organic Chemistry II (B.S. Only)	CHM 2350	Organic Chemistry II	4
		TOTAL CREDITS	27

#### **REMAINING DEGREE REQUIREMENTS**

General Education or Program	Subject/ Course Number	Course Title	Credit Hrs
Requirement			
Program Requirement	STA 2220	Introduction to Statistics	4
Program Requirement	MTH 1441	Pre-calculus	4
Program Requirement (B.S. Only)	MTH 1554	Calculus I	4
Program Requirement	PHY (1010 or 1510) + 1100	(Gen or Intro) Physics I + Lab	5
Program Requirement	PHY (1020 or 1520) + 1110	(Gen or Intro) Physics II + Lab	5
BIO elective	BIO 3520	Intro to Human Microbiology	4
BIO elective	BIO 2100, 2101, and 2600	Human Anatomy & Physiology	9
		CC Only: Add remaining hours	
		TOTAL CREDITS	35



### DEGREE PROGRAM INFORMATION

Institution	Rochester University
Degree/Program	Bachelor of Science in Biology
Credits Required	120

## 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 Biology 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
Cell/Molecular Biology	BIO 1013/1011 Lab or BIO 1014	Biological Science I w/Lab	4
Organismal Biology	BIO 1024	Biological Science II w/Lab	4
General Chemistry I	CHE 1514	College Chemistry I I w/Lab	4
General Chemistry II	CHE 1524	College Chemistry II w/Lab	4
Organic Chemistry I	CHE 2514	Organic Chemistry I	4
Organic Chemistry II	CHE 2524	Organic Chemistry II	4
		TOTAL CREDITS	24

## REMAINING DEGREE REQUIREMENTS

General Education or Program	Subject/ Course Number	Course Title	Credit Hrs
Requirement			
Program Requirement	BIO 2114	Human A and P I w/ Lab	4
Program Requirement	BIO 2124	Human A and P II w/ Lab	4
Program Requirement	BIO 3323/BIO 3321 Lab	Microbiology and Micro Lab	4
Program Requirement	PHS 2014	General Physics I	4
Program Requirement	PHS 2024	General Physics II	4
Program Requirement	MAT 1334	Pre-Calculus	4
		TOTAL CREDITS	24



Institution	Saginaw Valley State University
Degree/Program	Biological Science (B.S)
Credits Required	124 credits (33 foundation credits – 43 required credits – 12 required electives)

## 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 <a href="https://www.mitransfer.org">www.mitransfer.org</a>.

The MTA Mathematics distribution area allows students to complete one of three math pathways. The Biology MiTransfer Pathways faculty recommended that students complete a course in the Calculus pathway.

### MITRANSFER PATHWAYS COURSES

These courses are commonly agreed upon for transfer in this program among participating institutions.

Pathway Course	Subject/ Course Number	Course Title	Credit Hrs
Cell/Molecular Biology	BIOL*182	Intro to Cell and Molecular	3 credits
	BIOL*182L	Biology	1 credit
		Cell and Molecular Biology Lab	
Organismal Biology	BIOL*181	Intro to Ecology, Evolution,	3 credits
	BIOL*181L	Diversity/Ecology, Evolution,	1 credit
		Diversity Lab	
General Chemistry I	CHEM*111	General Chemistry I Lecture	4 credits
	CHEM*111L	General Chemistry I Lab	1 credit
General Chemistry II	CHEM*112	General Chemistry II Lecture	4 credits
	CHEM*112L	General Chemistry II Lab	1 credit
Organic Chemistry I	CHEM*230	Organic Chemistry I Lecture	4 credits
	CHEM*231	Organic Chemistry I Lab	1 credit
Organic Chemistry II	CHEM*330	Organic Chemistry II Lecture	4 credits
	CHEM*331	Organic Chemistry II Lab	1 credit

### REMAINING DEGREE REQUIREMENTS

General Education or Program	Subject/ Course Number	Course Title	Credit Hrs
Requirement			
General Education Category 3	MATH*132B	Statistical Methods:	4 credits
and Program Requirement		Biostatistics	
General Education Category 3	MATH*140 <u>OR</u> MATH*161	Precalculus OR Calculus I	4 credits
and Program Requirement			
General Education Category 4	PHYS*111/PHYS*111L and	General Physics I (with lab) and	10 credits
and Program Requirement	PHYS*112/PHYS*112L <b>OR</b>	General Physics II (with lab) OR	<u>OR</u>
	PHYS*211/PHYS*211L and		10 credits
	PHYS*212/PHYS*212L		

Analytical Physics I (with lab)	
and Analytical Physics II (with	
lab)	

# Advising Notes

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

A minor is required.



Institution	Saginaw Valley State University
Degree/Program	Cell Biology, Molecular Biology, and Biomedical Sciences (B.S.)
Credits Required	124 credits (42 foundation credits – 29 required credits – 20 elective credits)

## 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 Biology MiTransfer Pathways faculty recommended that students complete a course in the Calculus pathway.

### MITRANSFER PATHWAYS COURSES

These courses are commonly agreed upon for transfer in this program among participating institutions.

Pathway Course	Subject/ Course Number	Course Title	Credit Hrs
Cell/Molecular Biology	BIOL*182	Intro to Cell and Molecular	3 credits
	BIOL*182L	Biology	1 credit
		Cell and Molecular Biology Lab	
Organismal Biology	BIOL*181	Intro to Ecology, Evolution,	3 credits
	BIOL*181L	Diversity/Ecology, Evolution,	1 credit
		Diversity Lab	
General Chemistry I	CHEM*111	General Chemistry I Lecture	4 credits
	CHEM*111L	General Chemistry I Lab	1 credit
General Chemistry II	CHEM*112	General Chemistry II Lecture	4 credits
	CHEM*112L	General Chemistry II Lab	1 credit
Organic Chemistry I	CHEM*230	Organic Chemistry I Lecture	4 credits
	CHEM*231	Organic Chemistry I Lab	1 credit
Organic Chemistry II	CHEM*330	Organic Chemistry II Lecture	4 credits
	CHEM*331	Organic Chemistry II Lab	1 credit

### REMAINING DEGREE REQUIREMENTS

General Education or Program	Subject/ Course Number	Course Title	Credit Hrs
Requirement			
General Education Category 3	MATH*132B	Statistical Methods:	4 credits
and Program Requirement		Biostatistics	
General Education Category 3	MATH*140 <u>OR</u> MATH*161	Precalculus OR Calculus I	4 credits
and Program Requirement			
General Education Category 4	PHYS*111/PHYS*111L and	General Physics I (with lab) and	10 credits
and Program Requirement	PHYS*112/PHYS*112L <b>OR</b>	General Physics II (with lab) OR	<u>OR</u>
	PHYS*211/PHYS*211L and		10 credits
	PHYS*212/PHYS*212L		

Analytical Physics I (with lab)	
and Analytical Physics II (with	
lab)	

# Advising Notes

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

As an interdisciplinary major, the Cell Biology, Molecular Biology, and Biomedical Major does not require a minor. Biology and Chemistry minors may not be earned with this major.



Institution	Saginaw Valley State University
Degree/Program	Ecology, Evolution and Organismal Biology (B.S.)
Credits Required	124 credits (38 foundation credits – 38 require credits – 12 min elective credits)

# 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 Biology MiTransfer Pathways faculty recommended that students complete a course in the Calculus pathway.

### MITRANSFER PATHWAYS COURSES

These courses are commonly agreed upon for transfer in this program among participating institutions.

Pathway Course	Subject/ Course Number	Course Title	Credit Hrs
Cell/Molecular Biology	BIOL*182	Intro to Cell and Molecular	3 credits
	BIOL*182L	Biology	1 credit
		Cell and Molecular Biology Lab	
Organismal Biology	BIOL*181	Intro to Ecology, Evolution,	3 credits
	BIOL*181L	Diversity/Ecology, Evolution,	1 credit
		Diversity Lab	
General Chemistry I	CHEM*111	General Chemistry I Lecture	4 credits
	CHEM*111L	General Chemistry I Lab	1 credit
General Chemistry II	CHEM*112	General Chemistry II Lecture	4 credits
	CHEM*112L	General Chemistry II Lab	1 credit
Organic Chemistry I	CHEM*230	Organic Chemistry I Lecture	4 credits
	CHEM*231	Organic Chemistry I Lab	1 credit
Organic Chemistry II	N/A	N/A	N/A

#### REMAINING DEGREE REQUIREMENTS

General Education or Program	Subject/ Course Number	Course Title	Credit Hrs
Requirement			
General Education Category 3	MATH*132B	Statistical Methods:	4 credits
and Program Requirement		Biostatistics	
General Education Category 4	PHYS*111	General Physics I	4 credits
and Program Requirement	PHYS*111L	General Physics I Lab	1 credit
General Education Category 3	MATH*140 <b>OR</b> MATH*161	Precalculus OR Calculus I	4 credits
and Program Requirement			
General Education Category 4	PHYS*106A <b>OR</b> PHYS*112	Earth & Space Science: Physical	4 credits
and Program Requirement		Geology OR General Physics II	

٠	General Education Category 8 OR	GEOG*201 <u>OR</u> GEOG*202	World Cultural/Regional	3 credits	
	General Education Category 6		Geography OR North America		
	and Program Requirement		Regional Geography		

# Advising Notes

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

A minor is required. Biology minors may not be earned with this major.



Institution	Saginaw Valley State University
Degree/Program	Environmental Science (B.S.)
Credits Required	124 credits (22 foundation credits – 52 required core credits – 13 elective credits
	<ul><li>– 6 field research experience credits)</li></ul>

# MICHIGAN TRANSFER AGREEMENT (MTA)

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The MTA Mathematics distribution area allows students to complete one of three math pathways. The Biology MiTransfer Pathways faculty recommended that students complete a course in the Calculus pathway.

#### MITRANSFER PATHWAYS COURSES

These courses are commonly agreed upon for transfer in this program among participating institutions.

Pathway Course	Subject/ Course Number	Course Title	Credit Hrs
Cell/Molecular Biology	BIOL*182	Intro to Cell and Molecular	3 credits
	BIOL*182L	Biology	1 credit
		Cell and Molecular Biology Lab	
Organismal Biology	BIOL*181	Intro to Ecology, Evolution,	3 credits
	BIOL*181L	Diversity	1 credit
		Ecology, Evolution, Diversity	
		Lab	
General Chemistry I	CHEM*111	General Chemistry I Lecture	4 credits
	CHEM*111L	General Chemistry I Lab	1 credit
General Chemistry II	CHEM*112	General Chemistry II Lecture	4 credits
	CHEM*112L	General Chemistry II Lab	1 credit
Organic Chemistry I	CHEM*230	Organic Chemistry I Lecture	4 credits
Organic Chemistry II			

#### REMAINING DEGREE REQUIREMENTS

General Education or Program	Subject/ Course Number	Course Title	Credit Hrs
Requirement			
General Education Category 3	MATH*132B	Statistical Methods:	4 credits
and Program Requirement		Biostatistics	
General Education Category 3	MATH*140 <u>OR</u> MATH*161	Precalculus OR Calculus I	4 credits
and Program Requirement			
Partial General Education	PHYS*111/PHYS*111L and	General Physics I w/ Lab and	10 credits
Category 4 and Program	PHYS*112/PHYS*112L	General Physics II w/ Lab	
Requirement	OR	OR	
·	PHYS*211/PHYS*211L and	Analytical Physics I w/ Lab and	
	PHYS*212/PHYS*212L	Analytical Physics II w/ Lab	

General Education Category 4	PHYS*106A	Earth & Space Science: Physical	4 credits
and Program Requirement		Geology	
Program Requirement	BIOL*211	Botany	3 credits
General Education Category 4	GEOG*101	Intro to Physical Geography	3 credits
and Program Requirement			

## **ADVISING NOTES**

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

This is an interdisciplinary major and does not require a minor.

The Bachelor of Science in Environmental Science offers comprehensive training in a variety of disciplines including Biology, Chemistry, and Geography. Students will be prepared for careers with government agencies, non-profit organizations, and businesses, as well as for graduate studies. Required classes provide both a firm scientific foundation and an environmental context for the science. Additionally, the major is characterized with extensive hands-on field and laboratory experiences as well as a required internship. Several electives provide an opportunity for students to customize their degree.



Institution	Siena Heights University
Degree/Program	Bachelor of Science
Credits Required	120 sh

# MICHIGAN TRANSFER AGREEMENT (MTA)

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The MTA Mathematics distribution area allows students to complete one of three math pathways. The Biology MiTransfer Pathways faculty recommended that students complete a course in the Calculus pathway.

## MITRANSFER PATHWAYS COURSES

These courses are commonly agreed upon for transfer in this program among participating institutions.

Pathway Course	Subject/ Course Number	Course Title	Credit Hrs
Cell/Molecular Biology	BIO 141	Basic Concepts of the Cell	4
Organismal Biology	BIO 241	Animal Biology	4
General Chemistry I	CHE 141	General Chemistry 1	4
General Chemistry II	CHE 142	General Chemistry 2	4
Organic Chemistry I	CHE 241	Organic Chemistry 1	4
Organic Chemistry II	CHE 242	Organic Chemistry 2	4

### REMAINING DEGREE REQUIREMENTS

These are required, recommended, or optional courses that transfer students could complete at a community college to fulfill degree requirements at the university/ receiving institution. Add additional lines as necessary.

General Education or Program	Subject/ Course Number	Course Title	Credit Hrs
Requirement			
Program Requirement	BIO 242	Plant Biology	4
Program Requirement	PHY 141	General Physics 1	4
Program Requirement	PHY 142	General Physics 2	4
Program Requirement	TSC 101	Fundamentals of Speech	3
		Communication	

#### **ADVISING NOTES**

Please indicate any advising notes for students following this transfer pathway at your institution. Click or tap here to enter text.



### DEGREE PROGRAM INFORMATION

Institution	Spring Arbor University
Degree/Program	BA/BS: Biology, Environmental Biology, Biology Pre-med, Biology Secondary
	Teaching Certification
Credits Required	120

# 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 <a href="https://www.mitransfer.org">www.mitransfer.org</a>.

The MTA Mathematics distribution area allows students to complete one of three math pathways. The Biology 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
Cell/Molecular Biology	BIO 112	Introduction to Biology II	4
Organismal Biology	BIO 111	Introduction to Biology I	4
General Chemistry I	CHE 111	General Chemistry I	4
General Chemistry II	CHE 112	General Chemistry II	4
Organic Chemistry I	CHE 201	Organic Chemistry I	5
Organic Chemistry II	CHE 202	Organic Chemistry II	5
		TOTAL CREDITS	26

### REMAINING DEGREE REQUIREMENTS

General Education or Program	Subject/ Course Number	Course Title	Credit Hrs
Requirement			
Program Requirement	HES/MAT/SWK/PSY 351	Statistics	3
Program Requirement	BIO 352	Microbiology	4
Program Requirement	BIO 263	Human Anat. And Physiol.	4
Program Requirement	BIO 281 or 362	Env. Science or Prin. Ecology	4
Program Requirement	BIO 206 or 321	Genes and Speciation or Parasitology	4
Program Requirement	BIO 330 or 345	Plant Organismal Biology or Cell/Mole.	4
	·	TOTAL CREDITS	23

### DEGREE PROGRAM INFORMATION

Institution	University of Detroit Mercy
Degree/Program	Bachelor of Science in Biology
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 <a href="https://www.mitransfer.org">www.mitransfer.org</a>.

The MTA Mathematics distribution area allows students to complete one of three math pathways. The Biology 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
Cell/Molecular Biology	BIO 1200, BIO 1210	General Biology I/Lab	5
Organismal Biology	BIO 1220, BIO 1230	General Biology II/Lab	5
General Chemistry I	CHM 1070/CHM 1100	General Chemistry I/Lab	4
General Chemistry II	CHM 1080/CHM 1120	General Chemistry II/Lab	4
Organic Chemistry I	CHM 2270/CHM 2250	Organic Chemistry I/Lab	4
Organic Chemistry II	CHM 2290/CHM 2260	Organic Chemistry II/Lab	4
		TOTAL CREDITS	26

### REMAINING DEGREE REQUIREMENTS

General Education or Program	Subject/ Course Number	Course Title	Credit Hrs
Requirement			
Program Requirement	PHY 1300, PHY 1310	Physics I/Lab	4
Program Requirement	PHY 1320, PHY 1330	Physics II/Lab	4
Program Requirement	MTH 1400	Elementary Functions	3
Program Requirement	BIO 2900 or STA 2250	Biostatistics Statistics	3
		TOTAL CREDITS	14



Institution	University of Michigan-Dearborn
Degree/Program	BS/Biology
Credits Required	120

## 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 <a href="https://www.mitransfer.org">www.mitransfer.org</a>.

The MTA Mathematics distribution area allows students to complete one of three math pathways. The Biology MiTransfer Pathways faculty recommended that students complete a course in the Calculus pathway.

### MITRANSFER PATHWAYS COURSES

These courses are commonly agreed upon for transfer in this program among participating institutions.

Pathway Course	Subject/ Course Number	Course Title	Credit Hrs
Cell/Molecular Biology	BIOLOGY 140/140L	Intro Molec & Cellular Biology	4
Organismal Biology	BIOLOGY 130/130L	Intro Org & Environ Biology	4
General Chemistry I	CHEMISTRY 134/134L	General Chemistry 1A	4
General Chemistry II	CHEMISTRY 136/136L	General Chemistry IIA	4
Organic Chemistry I	CHEMISTRY 225	Organic Chemistry I	3
Organic Chemistry II	CHEMISTRY 226	Organic Chemistry II	3

#### REMAINING DEGREE REQUIREMENTS

These are required, recommended, or optional courses that transfer students could complete at a community college to fulfill degree requirements at the university/ receiving institution. Add additional lines as necessary.

General Education or Program Requirement	Subject/ Course Number	Course Title	Credit Hrs
Foreign Language	Foreign Language 101	Ancient Greek, Arabic, Armenian, French, German, Latin, Spanish, Chinese	4
Foreign Language	Foreign Language 102	Ancient Greek, Arabic, Armenian, French, German, Latin, Spanish, Chinese	4
Pre-Major	Physics 125/125L or Physics 150/150L	Introductory Physics I or General Physics I	4
Pre-Major	Physics 126/126L or Physics 151/151L	Introductory Physics II or General Physics II	4
Pre-Major	Math 116	Calculus II	4

#### **ADVISING NOTES**

Please indicate any advising notes for students following this transfer pathway at your institution. Only one Organic Chemistry is required.

## APPENDIX C: MiTransfer Biology Pathway Course Equivalencies Find live versions of each of these reports in the secure user area at <a href="https://www.mitransfer.org">www.mitransfer.org</a>.

BIO MiTransfer Pathway Biology I Cell/Molecular By Receiving Institution	Central Michigan University	Eastern Michigan University	Eastern Michigan University	Ferris State University	Grand Valley State University	Michigan Technologic al University		Northern Michigan University	Oakland University	Oakland University	Saginaw Valley State University	Saginaw Valley State University	University of Michigan- Dearborn	Andrews University	Concordia University Ann Arbor	Cornerstone University	Davenport University	Davenport University	Finlandia University	Lawrence Technologic al University			Siena Heights University	Spring Arbor University	University of Detroit Mercy	University of Detroit Mercy
Community College  Alpena Community College	BIO 112	BIO 110	BIO 111	BIOL 121 BIO 150 BIO 210 BIO 211 BIO 161 BIO 162	BIO 120 BIO 161 BIO 162 BIO 161 BIO 210 BIO 211	BL 1200	BL 1210	BI 111 BIO 150 BIO 161	BIO 1200 BIO 161 BIO 162 BIO 161	BIO 1201 BIO 162 BIO 161	BIOL 181	BIOL 181L	BIOL 140 BIO 161 BIO 217	BIOL 165	BIO 151	BIO 151	BIOL 110 BIO 114 BIO 161	BIOL 110L BIO 114 BIO 161	BIO 111	BIO 1213	BIO 1221	BIO 1014	BIO 141	BIO 112	BIO 1200	BIO 1210
Bay de Noc Community College	BIOL 112	BIOL 112	BIOL 112	BI 110 BI 112	BI 110 BI 112 BI 200 BI 220 BIOL 112 BIOL 220 BIOL 220 BIOL 200	BIOL 112	BIOL 112	BI 112 BI 200 BIOL 112 BIOL 110 BIOL 200	BI 112 BIOL 112 BI 112 BI 110 BIOL 112 BIOL 110	BI 112 BI 110 BIOL 112 BIOL 110	BIOL 110	BIOL 110	BIOL 112	BIOL 112	BIO 112	BIOL 112	BIOL 104	BIOL 104	BIOL 112	BIOL 112	BIOL 112	BIOL 112	BIOL 112	BIOL 112	BIOL 112	BIOL 112
Delta College	BIO 171 BIO 171	BIO 171	BIO 171	BIO 171 BIO 172	BIO 111 BIO 111H BIO 130 BIO 171 BIOL 101 BIOL 102 BIOL 104	BIO 171	BIO 171	BIO 171	BIO 171 BIO 171 BIO 172 BIO 171 BIO 172W	BIO 171 BIO 172 BIO 171 BIO 172W	BIO 172	BIO 172	BIO 171	BIO 171 BIO 171	BIO 171	BIO 171	BIO 111W BIO 130W	BIO 111W BIO 130W	BIO 171	BIO 171	BIO 171 bio 172w	BIO 171	BIO 171 BIO 171	BIO 171	BIO 171	BIO 171
Glen Oaks Community College	BIO 121	BIO 121	BIO 121	BIO 121 BIO 122 NSB 121 NSB 122	BIOL 103 BIOL 111 BIO 121 BIO 121 NSB 121	BIO 121	BIO 121	BIO 121 NSB 121	BIO 121 NSB 121 NSB 122 NSB 121 BIO 121	NSB 122 NSB 121 BIO 121 BIO 122	BIO 122	BIO 122	BIO 121	BIO 121 NSB 121	BIO 121 BIO 101	BIO 121	BIO 121	BIO 121	BIO 121	BIO 121	BIO 121	BIO 121	BIO 121	BIO 120 BIO 121	BIO 121 NSB 121	BIO 121
Gogebic Community College	BIO 101	See Appendix D	See Appendix D	BIO 101 BIO 102	BIO 101 BIO 101	BIO 101	BIO 101	BIO 101	BIO 122 BIO 101 BIO 101 BIO 102	BIO 101 BIO 102	BIO 102	BIO 102	BIO 101	BIO 101	BIO 101	BIO 101	BIO 101	BIO 101	BIO 101	BIO 101	BIO 101	BIO 101	BIO 101	BIO 101	BIO 101	BIO 101
Grand Rapids Community College	BI 151	BI 151	BI 151	BI 103 BI 104 BI 151 BI 151 BI 152 BI 153 BI 153 BI 154	BI 104 BI 103 BI 151 BI 103 BI 104 BI 104 BI 103 BI 103 BI 104 BI 154 BI 1551 BI 151	BI 151	BI 151	BI 103 BI 104 BI 103 BI 151	BI 151 BI 151 BI 151 BI 152	BI 151 BI 152	BI 152	BI 152	BI 151	BI 151 BI 101 BI 103	BI 151 BI 101	BI 151	BI 101 BI 151	BI 101 BI 151	BI 151	BI 151	BI 151	BI 151	BI 151	BI 151	BI 151	BI 151
Henry Ford College	BIO 152	BIO 152	BIO 152	BIO 141 BIO 143 BIO 150 BIO 152	BIO 100 BIO 131 BIO 152 BIO 150 BIO 152 BIO 32	BIO 152	BIO 152	BIO 152	BIO 152 BIO 152 BIO 150	BIO 152 BIO 150	BIO 150	BIO 150	BIO 152	BIO 152	BIO 131	BIO 152	BIO 131 BIO 152	BIO 131 BIO 152	BIO 152	BIO 152	BIO 152	BIO 152	BIO 152 BIO 131	BIO 152	BIO 152	BIO 152
Jackson College	BIO 162	BIO 162	BIO 162	BIO 131 BIO 151 BIO 152 BIO 131 BIO 131 BIO 231 BIO 232 BIO 252 BIO 151 BIO 152 BIO 161	BIO 151 BIO 131 BIO 152 BIO 131 BIO 161	BIO 162	BIO 162	BIO 131 BIO 162 BIO 232	BIO 131 BIO 162 BIO 162 BIO 161	BIO 162 BIO 161	BIO 161	BIO 161	BIO 162 BIOL 162	BIO 162 BIO 131	BIO 132	BIO 162	BIO 162	BIO 162	BIO 162	BIO 162	BIO 162	BIO 131 BIO 162	BIO 162	BIO 162	BIO 131 BIO 162	BIO 131 BIO 162
Kalamazoo Valley Community College	BIO 101	BIO 101	BIO 101	BIO 162 BIO 101 BIO 104	BIO 101	BIO 101	BIO 101	BIO 101	BIO 101 BIO 101 BIO 104	BIO 101 BIO 104	BIO 104	BIO 104	BIO 101	BIO 104 BIO 100 BIO 101 BIO 102	BIO 101 BIO 100	BIO 101	BIO 101	BIO 101	BIO 101	BIO 101	BIO 101	BIO 101	BIO 101	BIO 101	BIO 101	BIO 101
Kellogg Community College	BIOL 110	BIOL 110	BIOL 110	BIOL 110 BIOL 111 BIOL 111	BIOL 110 BIOL 110 BIOL 110 BOL 110	BIOL 110	BIOL 110	BIOL 110 BIOL 111	BIOL 110 BIOL 109 BIOL 110	BIOL 110	BIOL 109	BIOL 109	BIOL 110	BIOL 110 BIOL 110A BIOL 110B BIOL 111A BIOL	BIO 110	BIOL 110	BIOL 110	BIOL 110	BIOL 110	BIOL 110	BIOL 110	BIOL 110	BIOL 110	BIOL 110	BIOL 109	BIOL 109
Kirtland Community College	BIO 11700	BIO 10100 BIO 11700 BIO 11800	BIO 10100 BIO 11700 BIO 11800	BIO 10100 BIO 20100 BIO 20200 BIO 11700 BIO 11800	BIO 10100 BIO 11700 BIO 202 BIO 201 BIO 2020 BIO 20100	BIO 117	BIO 117	BIO 11700 BIO 20100 BIO 20200	BIO 11700 BIO 11800 BIO 11700	BIO 11800 BIO 11700	BIO 11800	BIO 11800	BIO 11800	BIO 11700	BIO 11700	BIO 11700	BIO 10100	BIO 10100	BIO 11700	BIOL 11700	BIOL 11700	BIO 11700	BIO 11700	BIO 11700	BIO 10100 BIO 11700	BIO 10100 BIO 11700
Lake Michigan College	BIOL 111 HONR 111	BIOL 111 HONR 111	BIOL 111 HONR 111	BIOL 111 BIOL 112 BIOL 111 HONR 112 HONR 111 HONR 112 BIOL 112 HONR 111	BIOL 103 BIOL 101 BIOL 102 BIOL 103 BIOL 101 BIOL 111 HONR 111	BIOL 111	BIOL 111	BIOL 112 BIOL 111 BIOL 112 BIOL 111 HONR 112 HONR 111	BIOL 111 HONR 111 BIOL 112 BIOL 111	BIOL 112 BIOL 111	BIOL 112	BIOL 112	BIOL 111	HONR 101 BIOL 111 BIOL 102	Biol 111	BIOL 111	BIOL 101 BIOL 111 HONR 101 HONR 111	BIOL 101 BIOL 111 HONR 101 HONR 111	BIOL 111	biol 111	biol 111	BIOL 101	BIOL 111	BIOL 111	BIOL 111	BIOL 111
Lansing Community College	BIOL 127	BIOL 127 BIOL 128	BIOL 127 BIOL 128	BIOL 127 BIOL 128	RTO 100	BIOL 127	BIOL 127	BIOL 127	BIOL 127 BIOL 128 BIOL 127	BIOL 128 BIOL 127	BIOL 128	BIOL 128	BIOL 127	BIOL 121 BIOL 125 BIOL 127	BIOL 121 BIOL 145 BIOL 127 BIOL 145	BIOL 127	BIOL 121 BIOL 127	BIOL 121 BIOL 127	BIOL 127	BIOL 121 BIO 127	BIOL 121 BIO 127	BIOL 127	BIOL 127	BIOL 127	BIOL 127	BIOL 127
Macomb Community College	BIOL 1000	BIOL 1000	BIOL 1000	BIO 101 BIOL 1000 BIOL 1010	BIO 100 BIO 120 BIO 110 BIOL 1000	BIOL 1000	BIOL 1000	BIOL 1000	BIO 100 BIOL 1000 BIOL 1010 BIOL 1000 BIO 101 BIO 101	BIOL 1010 BIOL 1000 BIO 101 BIO 100	BIOL 1010	BIOL 1010	BIO 100 BIOL 1000	BIOL 1000	BIOL 1000	BIOL 1000	BIOL 1000	BIOL 1000	BIOL 1000	BIOL 1000	BIOL 1000	BIOL 1000	BIOL 1000	BIOL 1000	BIO 100 BIOL 1000	BIO 100 BIOL 1000
Mid Michigan College	BIO 111	BIO 111 BIO 112	BIO 111 BIO 112	BIO 101 BIO 201 BIO 203 BIO 111 BIO 112 BIO 201 BIO 203	BIO 101 BIO 111	BIO 111 BIO 101	BIO 111 BIO 101	BIO 101 BIO 111	BIO 111 BIO 111 BIO 112	BIO 111 BIO 112	BIO 112	BIO 112	BIO 111	BIO 111	BIO 111	BIO 111	BIO 101 BIO 111	BIO 101 BIO 111	BIO 111	BIO 111	BIO 111	BIO 111	BIO 111		BIO 111	BIO 111
Monroe County Community College	BIOL 151	BIOL 151	BIOL 151	BIO 155 BIO 156 BIOL 151 BIOL 153	-	BIOL 151	BIOL 151	BIOL 151	BIOL 151 BIOL 153 BIOL 151	BIOL 151	BIOL 153	BIOL 153		BIOL 151	BIOL 151	BIOL 151			BIOL 151	BIOL 151	BIOL 151	BIO 151	BIOL 152 BIOL 151	BIOL 151	BIOL 151	BIOL 151
Montcalm Community College	BIOL 121	BIOL 121	BIOL 121	BIOL 110 BIOL 115 BIOL 121 BIOL 122 NS 121 NS 122	BIOL 115 BIOL 122	BIOL 121	BIOL 121	BIOL 121	BIOL 121 BIOL 121 BIOL 122	BIOL 121 BIOL 122	BIOL 122	BIOL 122	BIOL 121 BIOL 122	BIOL 121	BIOL 121	BIOL 121	BIOL 100 BIOL 121	BIOL 100 BIOL 121	BIOL 121	BIOL 121	BIOL 121	BIOL 121	BIOL 1000 BIOL 121	BIOL 121	BIOL 121	BIOL 121
Mott Community College	BIOL 111	BIOL 111	BIOL 111	BIOL 111 BIOL 111L BIOL 125 BIOL 125L BIOL 126L BIOL 126L	BIOL 111	BIOL 111	BIOL 111	BIOL 111	BIOL 111 BIOL 126 BIOL 111 BIOL 125 BIOL 111 BIOL 112	BIOL 126 BIOL 111 BIOL 125 BIOL 111 BIOL 112	BIOL 112	BIOL 112	BIOL 111	BIOL 111	BIOL 111 BIOL 111L	BIOL 111 BIOL 111L	BIOL 111	BIOL 111	BIOL 107 BIOL 111	BIOL 111	BIOL 111L	BIOL 111/111L	BIOL 111	BIOL 111	BIOL 111	BIOL 111

	BIOL 103			BIOL 103	BIOL	BIOL 103	BIOL 103	BIOL 103	BIOL 103	BIOL 104			BIOL 104	BIOL 103	BIOL 130					BIOL 103	BIOL 103L		BIOL 103			
Muskegon Community College	BIOL 130L&L	See Appendix D	See Appendix D	BIOL 104 BIOL 10B BIOL 10C BIOL 10G BIOL 10H	103L&L BIOL 10H BIOL 10B BIOL 10C BIOL 10C BIOL 10C BIOL 10F BIOL 10F BIOL 10G BIOL 10F BIOL 10G BIOL	BIOL 130L&L	BIOL 130L&L	BIOL 10D BIOL 10A BIOL 10C BIOL 10B BIOL 10C BIOL 10H BIOL 10B BIOL 10D BIOL 130	BIOL 1931&L BIOL 1301&L BIOL 104 BIOL 103 BIOL 1031&L BIOL 1311&L BIOL 1311&L 1311&L	BIOL 103 BIOL 1031.8L BIOL 1041.8L BIOL 1311.8L BIOL 1310.8L	BIOL 131	See Appendix D	BIOL 130	BIOL 103LE	BIOL 105	BIOL 103	BIOL 103	BIOL 103	BIOL 103	BIOL 130L&L	biol 104L BIOL 130L&L	BIOL 103L&L	BIOL 130L&L	BIOL 103L&L	BIOL 103	BIOL 103
North Central Michigan College	BIO 151	BIO 151	BIO 151	BIO 151 BIO 152	130L&L BIO 151 BIO 152	BIO 151	BIO 151	BIO 151	BIO 151 BIO 152	BIO 152 BIO 151	BIO 152	BIO 152	BIO 151	BIO 151	BIO 151	BIO 151	BIO 101 BIO 151	BIO 101 BIO 151	BIO 151	BIO 151	BIO 151	BIO 151	BIO 151	BIO 151	BIO 151	BIO 151
Northwestern Michigan College	BIO 115	BIO 115	BIO 115L	BIO 115 BIO 115L BIO 116L BIO 116L SMBI 110 SMBI 111 SMBI 112 SMBI 113 SMBI 114 SMBI 114	BIO 115 BIO 115L BIO 115L BIO 115L BIO 115 BIO 115 SC 112 SC 111 SC 113	BIO 115	BIO 115	BIO 115	BIO 151 BIO 115 BIO 116 BIO 115	BIO 116 BIO 115	BIO 116	BIO 116	BIO 116 BIO 115	BIO 115	BIO 106	BIO 115 BIO 115L	BIO 115	BIO 115	BIO 115 BIO 115L	BIO 110 BIO 110L BIO 115 BIO 115L	BIO 110 BIO 110L BIO 115 BIO 115L	BIO 115	BIO 110	BIO 115	BIO 115 BIO 115L	BIO 115 BIO 115L
Oakland Community College	BIO 1530	BIO 1530	BIO 1530	BIO 1530 BIO 1560 BIO 154 BIO 155 BIO 1540 BIO 1550	BIO 153 BIO 1530 BIO 1530 BIO 1530	BIO 1530	BIO 1530	BIO 1530	BIO 153 BIO 1530 BIO 1530 BIO 1560	BIO 1530 BIO 1560	BIO 1560	BIO 1560	BIO 153 BIO 1530	BIO 1530 BIO 153	BIO 1530	BIO 1530	BIO 1511 BIO 1530	BIO 1511 BIO 1530	BIO 1530	BIO 1530	BIO 1530	BIO 1530	BIO 1530	BIO 1530	BIO 1530	BIO 1530
Schoolcraft College	BIOL 120	BIOL 120	BIOL 120	BIOL 120 BIOL 130 BIOL 211 BIOL 212	BI 110 BIOL 101 BIOL 102 BIOL 120 BIOL 132 BIOL 131	BIOL 120	BIOL 120	BIOL 120	BIOL 120 BIOL 130 BIOL 120	BIOL 130 BIOL 120	BIOL 130	BIOL 130	BIOL 120 BIOL 131 BIOL 132	BIOL 120	BIOL 120	BIOL 120	BIOL 101 BIOL 120	BIOL 101 BIOL 120	BIOL 101 BIOL 120	BIOL 120	BIOL 120	BIOL 120	BIOL 120	BIOL 120	BIOL 120	BIOL 120
Southwestern Michigan College	BIOL 101	BIOL 101	BIOL 101	BIOL 101 BIOL 102	BIOL 102 BIOL 101 BIOL 101 BIOL 212 BIOL 211 BISC 111	BIOL 101	BIOL 101	BIOL 101	BIOL 101 BIOL 102 BIOL 101	BIOL 102 BIOL 101	BIOL 102	BIOL 102	BIOL 102	BIOL 101 BIOL 101	BIOL 110 BIOL 101	BIOL 101	BIOL 101 BISC 111	BIOL 101 BISC 111	BIOL 101	BIOL 101	BIOL 101	BIOL 101	BIOL 101	BIOL 101	BIOL 101	BIOL 101
St. Clair County Community College	BIO 120	See Appendix D	See Appendix D	BIO 100 BIO 200 BIO 250 BIO 200 BIO 250	BIO 100 BIO 120	BIO 120	BIO 120	BIO 120 BIO 250	BIO 100 BIO 120 BIO 120 BIO 121 BIO 121 BIO 100	BIO 120 BIO 121 BIO 121 BIO 100	BIO 121	BIO 121	BIO 121	BIO 120	BIO 120	BIO 120	BIO 100 BIO 101	BIO 100 BIO 101	BIO 120	BIO 100 BIO 120	BIO 120	BIO 120 BIO 100/110	BIO 120	BIO 120	BIO 100 BIO 120	BIO 100 BIO 120
Washtenaw Community College	BIO 162	BIO 162	BIO 162	BIO 101 BIO 103 BIO 161 BIO 162	BIO 101 BIO 103 BIO 128 BIO 127 BIO 162 BIO 227 BIO 228 BIO 227 BIO 228 BIO 228 BIO 228	BIO 162	BIO 162	BIO 162	BIO 162 BIO 161 BIO 162	BIO 161 BIO 162	BIO 161	BIO 161	BIO 162 BIO 215	BIO 162 BIO 101 BIO 101	BIO 162 BIO 102	BIO 162	BIO 101 BIO 162	BIO 101 BIO 162	BIO 162	BIO 102 BIO 162	BIO 102 BIO 162	BIO 162	BIO 162	BIO 162	BIO 101 BIO 161	BIO 101 BIO 161
Wayne County Community College District	BIO 165 BIO 175	See Appendix D	See Appendix D	BIO 155 BIO 165 BIO 175	BIO 227 BIO 175 BIO 165 BIO 105 BIO 105 BIO 105 BIO 175 BIO 105 BIO 110 BIO 111 BIO 155	BIO 155	BIO 155	BIO 155	BIO 155 BIO 155 BIO 165 BIO 175	BIO 155 BIO 165 BIO 175	BIO 165 BIO 175	BIO 155	BIO 298	BIO 155	BIO 155	BIO 155	BIO 155	BIO 155	BIO 155	BIO 155	BIO 155	BIO 155	BIO 155	BIO 175/165	BIO 110 BIO 155	BIO 111 BIO 155
West Shore Community College	BIO 123	BIO 123	BIO 123	BIO 122 BIO 123 MBIO 122	BIO 122 MBIO 122	BIO 122	BIO 122	BIO 123 BIO 122	BIO 122 MBIO 122 MBIO 122 MBIO 123 BIO 123 BIO 122	MBIO 122 MBIO 123 BIO 123 BIO 122	BIO 123	BIO 123	BIO 123	BIO 122 BIO 122	BIO 122 ANP 118	BIO 122	BIO 122	BIO 122	BIO 122	BIO 122	BIO 122	BIO 122 BIO 123	BIO 122 BIO 123	BIO 123	BIO 122 MBIO 122	BIO 122 MBIO 122

BIO MiTransfer Pathway Biology II Organismal By Receiving Institution	Central Michigan University	Eastern Michigan University	Eastern Mchigan University	Perris State University	Grand Valley State University	PE Michigan 011 Technologica 0 I University	Michigan Technologica 1 University	Northern Michigan University	Oakland University	Saginaw Valley State University	Saginaw Valley State University	University of Michigan- Dearborn	Andrews University	Concordia University Ann Arbor	Cornerstone	Davenport University	Davenport University	Finlandia University	Lawrence Technologica	Lawrence Technologica	Rochester University	Siena Heights University	Spring Arbor University	University of Detroit Mercy	University of Detroit Mercy
Community College				BIO 150	BIO 161				BIO 162						NO COURSE										
Alpena Community College	BIO 162		BIO 162	BIO 210 BIO 211 BIO 161 BIO 162	BIO 162 BIO 210 BIO 211	BIO 162	BIO 162	BIO 162	BIO 162 BIO 161	BIO 161	BIO 161	BIO 162	BIO 162	BIO 162	See Appendix D		BIO 162	BIO 162	BIO 162	BIO 162	BIO 162	BIO 211	BIO 162	BIO 162	BIO 162
Bay de Noc Community College	BIOL 110	BIOL 110 BIOL 202	BIOL 110 BIOL 202	BI 110 BI 112	BI 110 BI 200 BI 220 BIOL 110 BIOL 220 BIOL 200	BIOL 110	BIOL 110	BI 110 BI 220 BIOL 112 BIOL 110 BIOL 220	BI 110 BIOL 110 BI 112 BI 110 BIOL 112 BIOL 110	BIOL 112	BIOL 112	BIOL 110	BIOL 110	BIO 213	NO COURSE See Appendix D	BIOL 110	BIOL 110	BIOL 110	BIOL 110	BIOL 110	BIOL 110	BIOL 202	BIOL 110	See Appendix D	See Appendix D
Delta College	BIO 172W		BIO 172W	BIO 171 BIO 172	BIO 172	BIO 172W	BIO 172W	BIO 172	BIO 172 BIO 172W BIO 171 BIO 172 BIO 171 BIO 172W	BIO 171	BIO 171	BIO 172	BIO 172	BIO 172	NO COURSE See Appendix D		BIO 172W	BIO 172W	bio 172w	BIO 172W	BIO 172W	BIO 172W	BIO 172	BIO 172	BIO 172
Glen Oaks Community College	BIO 122	BIO 122	BIO 122	BIO 121 BIO 122 NSB 121 NSB 122	BIO 122 BIO 122 NSB 122	BIO 122	BIO 122	BIO 122 NSB 122	BIO 122 NSB 122 NSB 122 NSB 121 BIO 121 BIO 122	BIO 121	BIO 121	BIO 122	BIO 122 NSB 122	BIO 122	NO COURSE See Appendix D	BIO 122	BIO 122	BIO 122	BIO 122	BIO 122	BIO 122	BIO 122	BIO 122	BIO 122 NSB 122	BIO 122 NSB 122
Gogebic Community College	BIO 102	See Appendix D	See Appendix D	BIO 101 BIO 102	BIO 102 BIO 102	BIO 102	BIO 102	BIO 102	BIO 102 BIO 101 BIO 102	BIO 101	BIO 101	BIO 102	BIO 102	BIO 105	NO COURSE See Appendix D	BIO 102	BIO 102	BIO 102	BIO 102	BIO 102	BIO 102	BIO 102	BIO 102	BIO 102	BIO 102
Grand Rapids Community College	BI 152	BI 152	BI 152	BI 103 BI 104 BI 151 BI 151 BI 152 BI 151 BI 153 BI 153	BI 104 BI 103 BI 151 BI 103 BI 104 BI 104 BI 104 BI 104 BI 104 BI 105 BI 105 BI 151 BI 152 BI 152 BI 153 BI 153 BI 153	BI 152	BI 152	BI 104 BI 103 BI 152	BI 152 BI 151 BI 152	BI 151	BI 151	BI 152	BI 152 BI 104	BIO 152	NO COURSE See Appendix D	BI 152	BI 152	BI 152	BI 152	BI 152	BI 152	BIO 104 BI 154	BI 152	BI 152	BI 152
Henry Ford College	BIO 150		BIO 150	BIO 141 BIO 143 BIO 150 BIO 152	BI 154 BIO 141 BIO 152 BIO 150 BIO 150 BIO 41	BIO 150	BIO 150	BIO 150	BIO 150 BIO 152 BIO 150	BIO 152	BIO 152	BIO 150 BIO 143 BIO 141	BIO 150	BIO 150	NO COURSE See Appendix D	BIO 130 BIO 150	BIO 130 BIO 150	BIO 150	BIO 150	BIO 150	BIO 150	BIO 143	BIO 150	BIO 150	BIO 150
Jackson College	BIO 161		BIO 161	BIO 131 BIO 151 BIO 152 BIO 131 BIO 152 BIO 131 BIO 231 BIO 232 BIO 151 BIO 152 BIO 161 BIO 162	BIO 43 BIO 151 BIO 131 BIO 152 BIO 162 BIO 232 BIO 231	BIO 161	BIO 161	BIO 161 BIO 231	BIO 161 BIO 162 BIO 161	BIO 162	BIO 162	BIO 161	BIO 161	BIO 161	NO COURSE See Appendix D		BIO 161	BIO 161	bio 161	bio 161	BIO 162	BIO 152 BIO 232 BIO 161	BIO 161	BIO 152 BIO 161 BIO 232	BIO 152 BIO 161 BIO 232
Kalamazoo Valley Community College	BIO 104	BIO 104	BIO 104	BIO 101 BIO 104	BIO 102 BIO 103 BIO 104	BIO 104	BIO 104	BIO 104	BIO 104 BIO 101 BIO 104	BIO 101	BIO 101	BIO 104	BIO 101 BIO 103	BIO 104	NO COURSE See Appendix D	BIO 104	BIO 104	BIO 104	BIO 104	BIO 104	BIO 104	BIO 104	BIO 102	BIO 104	BIO 104
Kellogg Community College	BIOL 109	BIOL 109	BIOL 109	BIOL 109 BIOL 110 BIOL 111 BIOL 112	BIOL 109 BIOL 109 BIOL 112 BIOL 111	BIOL 109	BIOL 109	BIOL 109 BIOL 112	BIOL 109 BIOL 112 BIOL 109 BIOL 110	BIOL 110	BIOL 110	BIOL 109	BIOL 112A BIOL 112B BIOL 109 BIOL 112C	BIO 109	NO COURSE See Appendix D	BIOL 109	BIOL 109	BIOL 109	BIOL 109	BIOL 109	BIOL 109	BIO 112 BIOL 109	BIOL 109	BIOL 110	BIOL 110
Kirtland Community College	BIO 10100 BIO 11800		BIO 11700 BIO 11800	BIO 10100 BIO 20100 BIO 20200 BIO 11700 BIO 11800	BIO 11800 BIO 202 BIO 201 BIO 20200 BIO 20100	BIO 118	BIO 118	BIO 11800 BIO 20100 BIO 20200	BIO 11800 BIO 11800 BIO 11700	BIO 11700	BIO 11700	BIO 11700	BIO 11800	BIO 10100	NO COURSE See Appendix D		BIO 11800	BIO 11800	bio 11800	bio 11800	BIO 10100	BIO 20100	BIO 11800	See Appendix D	See Appendix D
Lake Michigan College	BIOL 112	BIOL 112 HONR 112	BIOL 112 HONR 112	BIOL 111 BIOL 112 BIOL 111 HONR 112 HONR 111 HONR 112 BIOL 112 HONR 111	BIOL 103 BIOL 101 BIOL 102 BIOL 112 HONR 112	BIOL 112	BIOL 112	BIOL 112 BIOL 111 BIOL 112 BIOL 111 HONR 112 HONR 111	BIOL 112 HONR 112 BIOL 112 BIOL 111	BIOL 111	BIOL 111	BIOL 112	BIOL 112 BIOL 103	Biology 112	NO COURSE See Appendix D	BIOL 112 HONR 112	BIOL 112 HONR 112	BIOL 112	biol 112	biol 112	BIOL 112	BIO 103	BIOL 112	BIOL 112	BIOL 112
Lansing Community College	BIOL 128	BIOL 127 BIOL 128 BIOL 128 BIOL 260 BIOL 265	BIOL 127 BIOL 128 BIOL 128 BIOL 260 BIOL 265	BIOL 127 BIOL 128	BIO 109 BIO 108 BIO 107 BIOL 127 BIOL 128 BIOL 127 BIOL 128 BIOL 265 BIOL 260	BIOL 128	BIOL 128	BIOL 128	BIOL 128 BIOL 128 BIOL 127	BIOL 127	BIOL 127	BIOL 128	BIOL 128	BIOL 128	NO COURSE See Appendix D	BIOL 128	BIOL 128	BIOL 128	BIOL 128	BIOL 128	BIOL 128	BIOL 265	BIOL 128 BIOL 201	BIOL 128	BIOL 128
Macomb Community College	BIOL 1010		BIOL 1010	BIO 100 BIOL 1000 BIOL 1010	BIO 101 BIO 120	BIOL 1010	BIOL 1010	BIOL 1010	BIO 101 BIOL 1010 BIOL 1010 BIOL 1000 BIO 101 BIO 100	BIOL 1000	BIOL 1000	BIO 101 BIOL 1010	BIOL 1010	BIOL 1010	NO COURSE See Appendix D		BIOL 1010	BIOL 1010	BIOL 1010	BIOL 1010	BIOL 1010	BIOL 1010	BIOL 1010	BIO 101 BIOL 1010	BIO 101 BIOL 1010
Mid Michigan College	BIO 112	BIO 111 BIO 112	BIO 111 BIO 112	BIO 101 BIO 201 BIO 203 BIO 111 BIO 112 BIO 201 BIO 203	BIO 112 BIO 203 BIO 201	BIO 112	BIO 112	BIO 112	BIO 112 BIO 111 BIO 112	BIO 111	BIO 111	BIO 112	BIO 112	BIO 138	NO COURSE See Appendix D	BIO 112	BIO 112	BIO 112	BIO 112	BIO 112	BIO 112 BIO 203	BIO 203	BIO 112	BIO 101	BIO 101
Monroe County Community College	BIOL 153	BIOL 153	BIOL 153	BIO 155 BIO 156 BIOL 151	BIOL 153	BIOL 153	BIOL 153	BIOL 153	BIOL 153 BIOL 153 BIOL 151	BIOL 151	BIOL 151	BIOL 153 BIOL 251 BIOL 252	BIOL 153	BIOL 153	NO COURSE See Appendix D	BIOL 153	BIOL 153	BIOL 153	BIOL 153	BIOL 153	BIO 153	BIO 252	BIOL 153	BIOL 153	BIOL 153
Montcalm Community College	BIOL 122		BIOL 122	BIOL 153 BIOL 110 BIOL 115 BIOL 121 BIOL 122 NS 121 NS 122	BIOL 110 BIOL 115 BIOL 122 BIOL 121 BIOL 122 NS 115 NS 110 NS 121	BIOL 122	BIOL 122	BIOL 122	BIOL 122 BIOL 121 BIOL 122	BIOL 121	BIOL 121	BIOL 121	BIOL 122	BIOL 122	NO COURSE		BIOL 122	BIOL 122	BIOL 122	BIOL 122	BIOL 122	BIOL 115	BIOL 122	BIOL 122	BIOL 122
Mott Community College	BIOL 112	BIOL 112	BIOL 112	BIOL 111 BIOL 111L BIOL 125 BIOL 125L BIOL 126L BIOL 126L	NS 122 BIOL 125 BIOL 126	BIOL 112	BIOL 112	BIOL 112 BIOL 126 BIOL 125	BIOL 112 BIOL 125 BIOL 126 BIOL 126 BIOL 111 BIOL 125 BIOL 111 BIOL 111 BIOL 112	BIOL 111	BIOL 111	BIOL 125 BIOL 126	BIOL 112	BIO 150	NO COURSE See Appendix D	BIOL 107	BIOL 107	BIOL 107	biol 125 biol 125L biol 126 bio I 126L BIO 112	biol 125 biol 125L biol 126 bio I 126L BIO 112L	BIO 112 BIOL 107/107/	BIOL 125 BIOL 112	BIOL 107	BIOL 125	BIOL 125

Muskegon Community College	BIOL 104 BIOL 131L&L	BIOL 131L&L	BIOL 131L8L	BIOL 103 BIOL 104 BIOL 10A BIOL 10B BIOL 10E BIOL 10F	BIOL 10A BIOL 10C BIOL 10E BIOL 10E BIOL 10F BIOL 10G BIOL 10G BIOL 10B BIOL 10D BIOL 10D BIO	BIOL 104L8L BIOL 131L8L	BIOL 104L&L BIOL 131L&L	BIOL 104	BIOL 1041&L BIOL 1311&L BIOL 104 BIOL 103 BIOL 1031&L BIOL 1041&L 1311&L 1301&L 1301&L	BIOL 130	See Appendix D	BIOL 103 BIOL 131	BIOL 104	BIOL 131	NO COURSE See Appendix D	BIOL 104	BIOL 104	BIOL 104	biol 104 BIOL 131L&L	BIOL 104L BIOL 131L&L	BIOL 104L&L	BIOL 104 BIOL 131L&L	BIOL 104LäL	BIOL 104	BIOL 104
North Central Michigan College		BIO 152	BIO 152	BIO 151 BIO 152	BIO 151 BIO 152	BIO 152	BIO 152	BIO 152	BIO 152 BIO 152 BIO 151	BIO 151	BIO 151	BIO 152	BIO 152	BIO 152	See Appendix D	BIO 152	BIO 152	BIO 152	BIO 152	BIO 152	BIO 152	BIO 152	BIO 152	BIO 152	BIO 152
Northwestern Michigan College	BIO 116L	BIO 116	BIO 116L	BIO 115 BIO 115L BIO 116 BIO 116L SMBI 110 SMBI 111 SMBI 112 SMBI 113 SMBI 114 SMBI 115	BIO 116L BIO 116 BIO 116L BIO 116 BIO 116B BIO 116 BIO 116 SC 112 SC 111 SC 113	BIO 116	BIO 116	BIO 116	BIO 116 BIO 116 BIO 115	BIO 115	BIO 115	BIO 116 BIO 115	BIO 116	BIO 116	NO COURSE See Appendix D	BIO 116	BIO 116	BIO 116 BIO 116L	BIO 116 BIO 116L	BIO 116 BIO 116L	BIO 116 BIO 116L	BIO 116	BIO 116	BIO 116 BIO 116L	BIO 116 BIO 116L
Oakland Community College		BIO 1560	BIO 1560	BIO 153 BIO 1530 BIO 1560	BIO 155 BIO 154 BIO 1550 BIO 1540 BIO 1560 BIO 1560	BIO 1560	BIO 1560	BIO 1560	BIO 1560 BIO 1530 BIO 1560	BIO 1530	BIO 1530	BIO 1560 BIO 155 BIO 154	BIO 1560	BIO 1560	NO COURSE See Appendix D	BIO 1560	BIO 1560	BIO 1560	BIO 1560	BIO 1560	BIO 1560	BIO 154 BIO 2540	BIO 1560	BIO 1560	BIO 1560
Schoolcraft College		BIOL 130	BIOL 130	BIOL 120 BIOL 130 BIOL 211 BIOL 212	BIOL 101 BIOL 102 BIOL 130 BIOL 132 BIOL 131	BIOL 130	BIOL 130	BIOL 130	BIOL 102 BIOL 130 BIOL 130 BIOL 120	BIOL 120	BIOL 120	BIOL 102 BIOL 130	BIOL 130	BIOL 130	NO COURSE See Appendix D	BIOL 130	BIOL 130	BIOL 130	BIOL 130	BIOL 130	BIOL 130	BIOL 130 BIOL 211	BIOL 130	BIOL 130	BIOL 130
Southwestern Michigan College	BIOL 102	BIOL 102	BIOL 102	BIOL 101 BIOL 102	BIOL 102 BIOL 101 BIOL 102 BIOL 212 BIOL 211	BIOL 102	BIOL 102	BIOL 102	BIOL 102 BIOL 102 BIOL 101	BIOL 101	BIOL 101	BIOL 101	BIOL 102	BIO 102	NO COURSE See Appendix D	BIOL 102	BIOL 102	BIOL 102	BIOL 102	BIOL 102	BIOL 102	BIOL 102	BISC 111 BIOL 102	BIOL 102	BIOL 102
St. Clair County Community College	BIO 121	See Appendix D	See Appendix D	BIO 100 BIO 200 BIO 250 BIO 200 BIO 250	BIO 121 BIO 200 BIO 250	BIO 121	BIO 121	BIO 121 BIO 200	BIO 121 BIO 120 BIO 121 BIO 121 BIO 100	BIO 120	BIO 120	BIO 120	BIO 121	BIO 121	NO COURSE See Appendix D	BIO 121	BIO 121	BIO 121 BIO 100	bio 121	bio 121	BIO 121 BIO 200 BIO 250	BIO 250	BIO 121	BIO 250	BIO 250
Washtenaw Community College	BIO 161	BIO 161	BIO 161	BIO 101 BIO 103 BIO 161 BIO 162	BIO 128 BIO 127 BIO 161 BIO 227 BIO 228 BIO 227 BIO 228 BIO 228 BIO 228	BIO 161	BIO 161	BIO 161	BIO 161 BIO 161 BIO 162	BIO 162	BIO 162	BIO 103 BIO 161 BIO 228 BIO 227	BIO 161 BIO 103	BIO 161	NO COURSE See Appendix D	BIO 161	BIO 161	BIO 161	BIO 161		BIO 103 BIO 161	BIO 227 BIO 161	BIO 161	BIO 103 BIO 162	BIO 103 BIO 162
Wayne County Community College District	BIO 165 BIO 175	See Appendix D	See Appendix D	BIO 155 BIO 165 BIO 175 BIO 170 BIO 171	BIO 175 BIO 165 BIO 105 BIO 175	See Appendix D	See Appendix D	BIO 165 BIO 175	BIO 165 BIO 175 BIO 155 BIO 165 BIO 175	BIO 155	BIO 155	BIO 175 BIO 165	BIO 175	BIO 240	NO COURSE See Appendix D	BIO 175	BIO 175	BIO 175	bio 165 bio 175	bio 165 bio 175	See Appendix D	BIO 175	BIO 165/175	BIO 175	BIO 175
West Shore Community College	BIO 122	See Appendix D	See Appendix D	BIO 122 BIO 123 MBIO 123	BIO 123 MBIO 123	BIO 123	BIO 123	BIO 123 BIO 122 MBIO 122 MBIO 123	BIO 123 MBIO 123 MBIO 122	BIO 122	BIO 122	BIO 122	BIO 123	BIO 123	NO COURSE See Appendix D	BIO 123	BIO 123	BIO 123	BIO 123	BIO 123	BIO 123	MZOO 220 ZOO 220	BIO 122	BIO 123 MBIO 123	BIO 123 MBIO 123

BIO MiTransfer Pathway General Chemistry I By Receiving Institution	Central Michigan University	Eastern Michigan University	Eastern Michigan University	CHEM 121			Michigan Technologic al University		Oakland Oakland University	Oakland University	Saginaw Valley State University	Saginaw TH Valley State University	University of Michigan- Dearborn	Andrews University	Concordia University Ann Arbor	Cornerstone University	Davenport University	TOTAL Davenbort University					Sena Heights University	CHE 1111	University of Detroit Mercy	University of Detroit Mercy
Community College  Alpena Community College	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 121 CEM 111	CEM 111 CEM 121	CEM 121	CEM 121 CEM 122 CEM 122L	CEM 121	CEM 111 CEM 121	CEM 111 CEM 121	CEM 121	CEM 121	CEM 121	CEM 121	CEM 121	CEM 121	CEM 121	CEM 121
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	CH 105 CHEM 110	CHEM 110 CH 105	CHEM 110	CHEM 110	CHEM 110	CHEM 110	CHEM 110	CHEM 110	CHEM 110	CHEM 110	CHEM 110	CHEM 110	CHEM 110	CHEM 110
Delta College	CHM 111	CHM 111 CHM 111H	CHM 111 CHM 111H	CHM 111 CHM 111H	CHM 111 CHM 111 CHM 111 CHM 111H CHM 111H	CHM 111	CHM 111	CHM 111 CHM 111H	CHM 111 CHM 111H	CHM 111 CHM 111H CHM 112H	CHM 111 CHM 111H	CHM 111 CHM 111H	CHEM 101 CHM 101 CHM 111	CHM 111H CHM 111	CHM 111	CHM 111	CHM 111 CHM 111H	CHM 111 CHM 111H	CHM 111 CHEM 133	CHEM 131 CHEM 132 CHM 111	131L CHM 111	CHM 111	CHM 111	CHM 111	CHM 111 CHM 111H	CHM 111 CHM 111H
Glen Oaks Community College	CHEM 133	CHEM 133	CHEM 133	CHEM 133 NSC 133	CHEM 133 NSC 133	CHEM 133	CHEM 133	CHEM 133	CHEM 133 NSC 133	CHEM 133 NSC 133	CHEM 133		CHEM 133 CHEM 133 NSC 133	NSC 133 CHEM 133	CHEM 133	CHEM 133	CHEM 133	CHEM 133	CHEM 133	CHEM 133	CHEM 133	CHEM 133	CHEM 133	CHEM 133	CHEM 133 NSC 133	CHEM 133 NSC 133
Gogebic Community College	CHM 151 CHM 130 CHM 131	CHM 151	CHM 151	CHM 151 CHM 125 CHM 126	CHM 151 CHM 130 CHM 131	CHM 151	CHM 151	CHM 151 CHM 130 CHM 131	CHM 151 CHM 130 CHM 150	CHM 151 CHM 131 CHM 151	CHM 151	CHM 151	CHM 151 CM 103 CM 113	CHM 151 CM 103 CM 113	CHM 151 CHM 130 CHM 131	CHM 151 CHM 130 CHM 131	CHM 151	CHM 151	CHM 151 CHM 130 CHM 131	CHM 151	CHM 151	CHM 151 CHM 130 CHM 131	CHM 151 CM 103 CHM 131	CHM 151	CHM 151 CHM 130 CHM 150	CHM 151 CHM 131 CHM 151
Grand Rapids Community College		CHM 130	CHM 131	CHM 130 CHM 131 CHM 150 CHM 151 CM 103 CM 113	CHM 130 CHM 131 CHM 150 CHM 151 CM 103 CM 113	CHM 130	CHM 131	CM 103 CM 113			CHM 130	CHM 131	CHM 131 CHM 130 CHM 151 CHM 150	CHM 130	CHM 130		CHM 130	CHM 131		CHM 130	CHM 131		CHM 130	CHM 130/131	CM 103 CM 113	CM 103 CM 113
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 31 CHEM 41 CEM 141	CHEM 141 CHEM 141	CHEM 141 CHEM 131 CEM 141	CHEM 141	CHEM 141	CHEM 141	CHEM 141	CHEM 141	CHEM 141	CHEM 141	CHEM 141 CHEM 131	CHEM 141	CHEM 141	CHEM 141
Jackson College	CEM 141	CEM 141	CEM 141	CEM 151 CHM 101	CEM 141 CEM 151 CHM 111	CEM 141	CEM 141	CEM 151	CEM 151 CHM 101	CEM 151 CHM 111	CEM 141	CEM 141	CEM 151 CHM 120	CEM 141 CHM 101	CEM 141	CEM 141	CEM 141	CEM 141	CEM 141 CHM 120	CEM 141	CEM 141	CEM 141	CEM 151	CEM 141	CEM 141	CEM 141
Kalamazoo Valley Community College	CHM 120	CHM 120	CHM 120	CHM 111 CHM 120	CHM 101 CHM 120 CHEM 1101	CHM 120	CHM 120	CHM 120	CHM 120	CHM 120	CHM 120	CHM 120	CHM 120 CHM 101 CHM 111	CHM 120 CHM 101 CHM 120 CHEM 120 CHEM 110A	CHM 120 Chemistry 110	CHM 120	CHM 120	CHM 120	CHM 120	CHM 120	CHM 120 CHEM 110	CHM 120	CHM 120	CHM 120	CHM 120	CHM 120
Kellogg Community College		CHEM 110	CHEM 110	CHEM 110	CHEM 110 CHEM 110 CHE 101	CHEM 110	CHEM 110	CHE	CHEM 110	CHEM 110	CHEM 110	CHEM 110	CHEM 110 CHEM 110L CHE 10102	CHEM 110B CHEM 110C CHEM 110	CHEM 110	CHE	CHEM 110	CHEM 110	CHEM 110	CHEM 110	CHEM 111	CHE	CHEM 110	CHEM 110	CHEM 110	CHEM 110
	CHE 10101 CHE 10102			10100 CHE 10101 CHE	CHE 101 CHE 10100 CHE			10100 CHE 10102 CHE					10102 CHE 101 CHE			10101 CHE 10102			10101 CHE 10102			10101 CHE 10102		10101/2 CHE 10101/02		
Kirtland Community College		CHE 10101	CHE 10102	10102 CHE 10102 CHE 10191	10101 CHE 10102	CHE 10101	CHE 10102	10101 CHE 10102 CHE 10101 CHE 10191	CHE 10101	CHE 10102	CHE 10101	CHE 10102	10101 CHE 10102	CHE 10101	CHE 10101		CHE 10101	CHE 10102		CHM 10101	CHM 10102		CHM 10101		CHE 10101	CHE 10102
Lake Michigan College	CHEM 111	CHEM 111	CHEM 111	CHEM 111	CHEM 111	CHEM 111	CHEM 111	10192 CHEM 111	CHEM 111	CHEM 111	CHEM 111	CHEM 111	CHEM 111	CHEM 111 CHEM 101	CHEM 111	CHEM 111	CHEM 111	CHEM 111	CHEM 111	chem 111	chem 111	CHEM 111	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	CEM 181 CEM 171 CHEM 161 CHEM 151	CHEM 151	CHEM 161	CHEM 161 CHEM 151	CHEM 151	CHEM 161	CHEM 151	CHEM 161	CHEM 151 CHEM 161	CHEM 151	CHEM 151 CHEM 161 CHM 111	CHEM 151 CHEM 161	CHEM 151	CHEM 161	CHEM 151 CHEM 161	CHEM 151	CHEM 161	CHEM 151/161	CHEM 151 CHEM 161	CHEM 151/161	CHEM 151	CHEM 161
Macomb Community College	CHEM 1170	CHEM 1170	CHEM 1170	1170 CHM 117	1170 CHM 117	CHEM 1170	CHEM 1170	1170 CHM 117	1170 CHM 117	1170 CHM 117	CHEM 1170	CHEM 1170	1170 CHM 103 CHM 117	CHEM 1170	CHEM 1170	CHEM 1170	CHEM 1170	CHEM 1170	CHEM 1170	CHEM 1170	CHEM 1170	CHEM 1170	1170 CHM 117	CHEM 1170	1170 CHM 117	1170 CHM 117
Mid Michigan College  Monroe County Community	CHM 111 CHEM 151	CHM 111	CHM 111 CHEM 151	CHM 111 CHEM 151	CHM 111 CHM 111 CHEM 151	CHM 111	CHM 111 CHEM 151	CHM 111 CHEM 151	CHM 111 CHEM 151	CHM 111	CHM 111 CHEM 151	CHM 111 CHEM 151	CHM 111 CHEM 151	CHM 111 CHEM 151	CHM 111 CHEM 151	CHM 111 CHEM 151	CHM 111 CHEM 151	CHM 111 CHEM 151	CHM 111 CHEM 151	CHM 111 CHEM 151	CHM 111 CHEM 151	CHM 111 CHEM 151	CHM 111 CHEM 151	CHM 111	CHM 111 CHEM 151	CHM 111 CHEM 151
College  Montcalm Community					CHEM 152 CHEM 151 CHEM 220																					
College	CHEM 220	CHEM 220	CHEM 220	CHEM 220	NS 220	CHEM 220	CHEM 220	CHEM 220	CHEM 220	CHEM 220	CHEM 220	CHEM 220		CHEM 220		CHEM 220	CHEM 220	CHEM 220		CHEM 220	CHEM 220	CHEM 220	CHEM 220	CHEM 220	CHEM 220	CHEM 220
Mott Community College	CHEM 131	CHEM 131	CHEM 131	CHEM 131 CHEM 131L CHEM 131R	CHEM 131	CHEM 131	CHEM 131	CHEM 131	CHEM 131	CHEM 131	CHEM 131	CHEM 131	CHEM 131	CHEM 131	CHEM 131 CHEM 131L	CHEM 131 CHEM 131L	CHEM 131	CHEM 131	CHEM 131 CHEM 131L	CHM 131	CHM 131L	CHEM 131/131L	CHEM 131	CHEM 131	CHEM 131	CHEM 131
	CHEM 1011 F CHEM 101A			CHEM 101 CHEM 101A	CHEM 1011 FC CHEM 101A			CHEM 101 CHEM 101A CHEM 101 CHEM 101A CHEM 101 CHEM 101 CHEM 101A CHEM 101 CHEM 101 CHEM 101 CHEM 101 CHEM 101 CHEM 101A	CHEM 101 CHEM 101LEC				CHEM 101A CHEM 101L CHEM 101A CHEM 101L	CHEM 100 CHEM 101LEC		CHEM 1011FC CHEM 101A			CHEM 1011FC CHEM 101A			CHEM IDILEC CHEM 101A			CHEM 1011 F CHEM 101LEC	
Muskegon Community College		CHEM 101LEC	CHEM 101A			CHEM 101	CHEM 101A	CHEM 101 CHEM 101A CHEM 101 CHEM 101A CHEM 101 CHEM 101A		CHEM 101A	CHEM 101	CHEM 101A			CHEM 101		CHEM 101LEC	CHEM 101A		CHEM 101	CHEM 101A		CHEM 101LEC	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 131	CEM 121	CEM 121	CEM 121	CEM 121	CEM 121	CEM 121 CEM 122	CEM 121	CEM 121	CEM 121	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	CHM 150R	CHM 150	CHM 150	CHM 150R CHM 150 CHM 150L	CHM 150R CHM 150 CHM 150L CHM 150R CHM 150	CHM 150R CHM 150 CHM 150L CHM 150R CHM 150R	CHM 150	CHM 150	CHM 150 CHM 150 SMCH 101 SMCH 102 SMCH 101A CHM 150R	CHM 150L CHM 150	CHM 150	CHM 150 CHM 150L	CHM 150	CHM 150	CHM 150 CHM 150L	CHM 150 CHM 150L	CHM 150 CHM 150L	CHM 150	CHM 150 CHM 150L	СНМ 150	CHM 150 CHM 150L CHM 150R CHM 150	
Oakland Community College	CHE 1510	CHE 1510	CHE 1510	SMCH 104 CHE 151 CHE 1510	CHE 151 CHE 1510	CHE 1510 CHEM	CHE 1510 CHEM	CHE 1510	CHE 151	CHE 151 CHE 1510	CHE 1510	CHE 1510	CHM 150 CHE 151	CHE 151	CHE 1510	CHE 1510	CHE 1510	CHE 1510	CHE 1510	CHE 1510	CHE 1510	CHE 1510	CHE 151 CHE 1510	CHE 1510	CHE 1510	CHE 1510
Schoolcraft College	CHEM 111	CHEM 111	CHEM 111	CHE 1310		1510 CHEM 111	1510 CHEM 111	CHEM 111	CHE 1310 CHEM 111	CHE 1310 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	CHE 1310	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 101	CHEM 101	CHEM 101	CHEM 101 CHEM 101	CHEM 101 CHEM 101		CHEM 101	CHEM 101	CHEM 101	CHEM 101	CHEM 101	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	CHM 111	CHM 111	CHM 111	CHM 111	CHM 111 CHM 111	CHM 111	CHM 111	CHM 111	CHM 111	CHM 111	CHM 111	CHM 111 CHM 111	CHM 111	CHM 111	CHM 111	CHM 111	CHM 111	CHM 111
Washtenaw Community College	CEM 111	CEM 111	CEM 111	CEM 111 CHM 130	CEM 111	CEM 111	CEM 111	CEM 111	CEM 111	CEM 111	CEM 111	CEM 111	CEM 111 CHM 103	CEM 111	CEM 111	CEM 111	CEM 111	CEM 111	CEM 111	CEM 111	CEM 111	CEM 111	CEM 111	CEM 111	CEM 111 CHM 120	CEM 111
Wayne County Community College District	CHM 136	CHM 136	CHM 136	CHM 131 CHM 136 CHM 151	CHM 136	CHM 136	CHM 136	CHM 136	CHM 136	CHM 136	CHM 136	CHM 136	CHM 136		CHM 136	CHM 136	CHM 136	CHM 136	CHM 136	CHM 136	CHM 136	CHM 136	CHM 136	CHM 136	CHM 136	CHM 136
West Shore Community College	CHM 122	CHM 122	CHM 122	CHM 122 MCHM 122 SP 121 SP 122 SP 123	CHM 122 CHM 123 CHM 122 MCHM 122 MCHM 123	CHM 122	CHM 122	CHM 122 MCHM 122	CHM 122 MCHM 122	CHM 122 MCHM 122	CHM 122	CHM 122	CHM 122		CHM 122	CHM 122	CHM 122	CHM 122	CHM 122	CHM 122	CHM 122	CHM 122	CHM 122	CHM 122	CHM 122	CHM 122

BIO MiTransfer Pathway General Chemistry II By Receiving Institution	Central Michigan University	Eastern Michigan University	Eastern Michigan University	Ferris State University		Michigan Technologic al University	Michigan Technologic al University	Northern Michigan University	Oakland University	Oakland University	Saginaw Valley State University	Saginaw H Valley State W University	University of Michigan- Dearborn	Andrews University	Concordia University Ann Arbor	Cornerstone University	Davenport University	Davenport University	Finlandia University	Lawrence Technologic al University	Lawrence Technologic al University		Siena Helghts University	Spring Arbor University	University of Detroit Mercy	University of Detroit Mercy
Community College	CHM 132	CHEM 123	CHEM 124	CHEM 122	CHM 116	CH 1160	CH 1161	CH 112	CHM 1450	CHM 1480	CHEM 112	112L	CHEM 136	CHEM 132	CHEM 142	CHM 122	CHEM 161	161L	CHM 116	CHM 1223	CHM 1231	CHE 1524	CHE 142	CHE 112	CHM 1080	CHM 1120
Alpena Community College	CEM 122	CEM 122	CEM 122	CEM 122	CEM 122	CEM 122	CEM 122	CEM 122	CEM 122	CEM 122	CEM 122	CEM 122	CEM 112 CEM 122	CEM 122	CEM 122	CEM 122	CEM 112	CEM 112	CEM 122	CEM 122	CEM 122	CEM 122	CEM 122	CEM 122	CEM 122	CEM 122
Bay de Noc Community College	CHEM 112	CHEM 112	CHEM 112 CHM 112	CH 106 CHEM 112 CHM 112	CH 106 CHEM 112 CHM 112	CHEM 112	CHEM 112	CH 106 CHEM 112 CHM 112	CH 106 CHEM 112 CHM 112	CH 106 CHEM 112	CHEM 112	CHEM 112	CH 106 CHEM 112	CHEM 112	CHEM 112	CHEM 112	CHEM 112	CHEM 112	CHEM 112	chem 112	chem 112 CHEM	CHEM 112	CHEM 112	CHEM 112	CHEM 112 CHM 112	CHEM 112
Delta College	CHM 112	CHM 112H	CHM 112H		CHM 112 CHM 112 CHM 112H CHM 112H	CHM 112	CHM 112	CHM 112H		CHM 112	CHM 112H		CHM 112	CHM 112H	CHEM 117	CHM 112	CHM 112H		CHEM 134	CHM 112	132L CHM 112	CHM 112	CHM 112	CHM 112	CHM 112H	
Glen Oaks Community	CHEM 134	CHEM 134	CHEM 134	CHEM 134 NSC 134	CHM 112H CHEM 134 NSC 134	CHEM 134	CHEM 134	CHEM 134	CHEM 134 NSC 134	CHEM 134 NSC 134	CHEM 134	CHEM 134	CHEM 134 CHEM 134	NSC 134 CHEM 134	CHEM 134	CHEM 134	CHEM 134	CHEM 134	CHEM 134	CHEM 134	CHEM 134	CHEM 134	CHEM 134	CHEM 134	CHEM 134 NSC 134	CHEM 134
College Gogebic Community	CHM 152	CHM 152	CHM 152	NSC 134 CHM 152	NSC 134 CHM 152		CHM 152	CHM 152	NSC 134 CHM 152	NSC 134 CHM 152	CHM 152	CHM 152	NSC 134 CHM 152	CHEM 134	CHM 152	CHM 152		CHM 152	CHM 152	CHM 152	CHM 152	CHM 152	CHM 152	CHM 152	NSC 134 CHM 152	CHM 152
College  Grand Rapids Community College	CHM 140 CHM 141	CHM 140	CHM 141	CHM 140 CHM 141 CHM 160 CHM 161 CM 104 CM 114	CHM 141 CHM 140 CHM 161 CHM 160 CM 104 CM 114	CHM 152	CHM 141	CM 114	CHM 140 CHM 160	CHM 141 CHM 161	CHM 140 CHM 160	CHM 141 CHM 161	CM 104 CHM 160 CHM 161 CHM 140 CHM 141	CM 104 CM 114 CHM 140	CHM 140 CHM 141 CHM 140 CHEM 141 CHM 131	CHM 140 CHM 141	CHM 152		CHM 140 CHM 141	chm 140	chm 141	CHM 140 CHM 141	CM 104 CHM 104 CHM 141 CHM 140	CHM 140/141	CHM 140 CHM 160 CM 104 CM 114	CHM 141 CHM 161 CM 104 CM 114
					CM 114 CM 114								CHEM 142										CHEM 132			CHEM 142
Henry Ford College	CHEM 142	CHEM 142	CHEM 142	CHEM 142 CEM 142	CHEM 142 CEM 142	CHEM 142	CHEM 142	CHEM 142 CEM 142	CHEM 142 CEM 142	CHEM 142 CEM 142	CHEM 142	CHEM 142	CHEM 32 CEM 142	CHEM 142	CHEM 142	CHEM 142	CHEM 142	CHEM 142	CHEM 142	CHEM 142	CHEM 142	CHEM 142	CHEM 142 CEM 152	CHEM 142	CHEM 142	CHEM 220
Jackson College	CEM 142	CEM 142	CEM 142	CEM 152	CEM 142 CEM 152	CEM 142	CEM 142	CEM 152	CEM 152	CEM 152	CEM 142	CEM 142	CEM 152	CEM 142 CHM 130	CEM 142	CEM 142	CEM 142	CEM 142	CEM 142	CEM 142	CEM 142	CEM 142	CED 142 CEM 142	CEM 142	CEM 142	CEM 142
Kalamazoo Valley Community College	CHM 130	CHM 130	CHM 130	CHM 112 CHM 130	CHM 102 CHM 102 CHM 130 CHEM 111	CHM 130	CHM 130	CHM 130	CHM 130	CHM 130	CHM 130	CHM 130	CHM 130 CHM 102 CHM 112 CHEM 111	CHM 102	CHM 130	CHM 130	CHM 130	CHM 130	CHM 130	CHM 130	CHM 130	CHM 130	CHM 130	CHM 130	CHM 130	CHM 130
Kellogg Community College	CHEM 111	CHEM 111	CHEM 111	CHEM 111	CHEM 111L CHEM 111	CHEM 111	CHEM 111	CHEM 111	CHEM 111	CHEM 111	CHEM 111	CHEM 111	CHEM 111L CHEM 111	111C CHEM 111 CHEM 111A CHEM 111B	CHEM 111	CHEM 111	CHEM 111	CHEM 111	CHEM 111	chm 111	chm 111	CHM 111	CHEM 111	CHEM 111	CHEM 111	CHEM 11:
Kirtland Community College	CHE 10201 CHE 10202	CHE 10201	CHE 10202	CHE 10192 CHE 10202 CHE 10201 CHE 10201 CHE 10202 CHE 10202 CHE 10202 CHE	CHE 102 CHE 10200 CHE 10202 CHE 10201	CHE 10201	CHE 10202	CHE 10200 CHE 10201 CHE 10202 CHE 10292 CHE 10291	CHE 10201	CHE 10202	CHE 10201	CHE 10202	CHE 10201 CHE 10202	CHE 10201	CHE 10201	CHE 10201 CHE 10202	CHE 10201	CHE 10202	CHE 10201 CHE 10202	CHM 10201	CHM 10202	CHE 10201 CHE 10202	CHE 10201	CHE 10201/02 CHE 10201/2	CHE 10201	CHE 10202
Lake Michigan College	CHEM 112	CHEM 112	CHEM 112	CHEM 112	CHEM 112	CHEM 112	CHEM 112	CHEM 112	CHEM 112	CHEM 112	CHEM 112	CHEM 112	CHEM 112	CHEM 112	CHEM 112	CHEM 112	CHEM 112	CHEM 112	CHEM 112	chem 112	chem 112	CHEM 112	CHEM 112	CHEM 112	CHEM 112	CHEM 112
Lansing Community College	HONR 113 CHEM 152 CHEM 162	HONR 113 CHEM 152	HONR 113 CHEM 162	CHEM 152 CHEM 162	CEM 172 CEM 182 CHEM 162	CHEM 152	CHEM 162	CHEM 162 CHEM 152	HONR 113 CHEM 152	HONR 113 CHEM 162	CHEM 152	CHEM 162	CHEM 112 CHEM 152 CHEM 162	CHEM 152	CHEM 152 CHEM 162	CHEM 152 CHEM 162	HONR 113	HONR 113 CHEM 162	CHEM 152 CHEM 162	CHEM 152	CHEM 162	CHEM 152 CHEM 162	CHEM 162 CHEM 152 CHEM 152	CHEM 152/162	CHEM 152	CHEM 162
Macomb Community College	CHEM 1180	CHEM 1180	CHEM 1180	CHEM 1180 CHM 118	CHEM 152 CHEM 1180 CHM 118	CHEM 1180	CHEM 1180	CHEM 1180 CHM 118	CHEM 1180 CHM 118	CHEM 1180 CHM 118	CHEM 1180	CHEM 1180	CHEM 1180 CHM 104	CHM 118 CHEM 1180	CHEM 1180	CHEM 1180	CHEM 1180	CHEM 1180	CHEM 1180	CHEM 1180	CHEM 1180	CHEM 1180	CHEM 162 CHM 118 CHEM 1180	CHEM 1180	CHEM 1180 CHM 118	CHEM 1180 CHM 118
Mid Michigan College	CHM 112	CHM 112	CHM 112	CHM 112	CHM 112 CHM 112	CHM 112	CHM 112	CHM 112	CHM 112	CHM 112	CHM 112	CHM 112	CHM 118 CHM 112	CHM 112	CHM 112	CHM 112	CHEM 112	CHEM 112	CHM 112	chm 112	chm 112	CHM 112	CHM 112	CHM 112	CHM 112	CHM 112
Monroe County Community	CHEM 152	CHEM 152	CHEM 152	CHEM 152	CHEM 151 CHEM 152	CHEM 152	CHEM 152	CHEM 152	CHEM 152	CHEM 152	CHEM 152	CHEM 152	CHEM 152	CHEM 152	CHEM 152	CHEM 152	CHEM 152	CHEM 152	CHEM 152	chem 152	chem 152	CHEM 152	CHEM 152	CHEM 152	CHEM 152	CHEM 152
College Montcalm Community	CHEM 221	CHEM 221	CHEM 221	CHEM 221	CHEM 152 CHEM 221	CHEM 221	CHEM 221	CHEM 221	CHEM 221	CHEM 221	CHEM 221	CHEM 221	CHEM 221	CHEM 221	CHEM 221	CHEM 221	CHEM 221	CHEM 221	CHEM 221	CHEM 221	CHEM 221	CHEM 221	CHEM 221	CHEM 221	CHEM 221	CHEM 221
College  Mott Community College	CHEM 132	CHEM 132		CHEM 132 CHEM 132L CHEM	CHEM 132	CHEM 132		CHEM 132			CHEM 132		CHEM 132 CHEM 132	CHEM 132	CHEM 132 CHEM 132L	CHEM 132 CHEM 132L	CHEM 132		CHEM 132 CHEM 132L	CHEM 132	CHEM 132L	CHEM 132/132L		CHEM 132		
Muskegon Community College	CHEM 102LE CHEM 102A	CHEM 102LEC	CHEM 102A	132R CHEM 102 CHEM 102A	CHEM 102A CHEM 102LEC	CHEM 102	CHEM 102A	CHEM 102A CHEM 102	CHEM 102 CHEM 102LEC	CHEM 102A	CHEM 102	CHEM 102A	CHEM 102L CHEM 102A CHEM 102A CHEM	CHEM 102LEC	CHEM 102 CHM 131	CHEM 102LEC CHEM 102A	CHEM 102LEC	CHEM 102A	CHEM 102LEC CHEM 102A	CHEM 102	CHEM 102A	CHEM 102LEC CHEM 102A	CHEM 102LEC CHEM 102A	CHEM 102LEC	CHEM 102LEC	CHEM 102A
North Central Michigan College	CEM 122	CEM 122	CEM 122	CEM 122	CEM 122 CEM 122	CEM 122	CEM 122	CEM 122	CEM 122	CEM 122	CEM 122	CEM 122	102I CEM 122	CEM 122	CEM 122	CEM 122	CEM 122	CEM 122	CEM 122	CEM 122	CEM 122	CEM 122	CEM 122	CEM 122	CEM 122	CEM 122
Northwestern Michigan College	CHM 151L	CHM 151	CHM 151L		CHM 151R CHM 151L CHM 151 CHM 151 CHM 151R	СНМ 151	СНМ 151		CHM 151 CHM 151 CHM 151L CHM 151R		СНМ 151	CHM 151	CHM 151 SMCH 103A SMCH 103 SMCH 104 CHM 151 CHM 151R	CHM 151 CHM 151L	СНМ 151	CHM 151L	СНМ 151	CHM 151		CHM 151 CHM 151R	CHM 151L	СНМ 151	CHM 151L	СНМ 151	CHM 151 CHM 151L CHM 151R CHM 151	
Oakland Community College	CHE 1520	CHE 1520	CHE 1520	CHE 152	CHE 152	CHE 1520	CHE 1520	CHM 151	CHE 152	CHE 152	CHE 1520	CHE 1520		CHE 152 CHE 1520	CHE 1520	CHE 1520	CHE 1520	CHE 1520	CHE 1510	CHE 1520	CHE 1520	CHE 1520	CHE 152	CHE 1520	CHE 1520	CHE 1520
Schoolcraft College	CHEM 117	CHEM 117	CHEM 117	CHEM 117	CHEM 117	CHEM 117	CHEM 117	CHEM 117	CHEM 117	CHEM 117	CHEM 117	CHEM 117	CHEM 112	CHEM 117	CHEM 117	CHEM 117	CHEM 117	CHEM 117	CHEM 117	CHEM 117	CHEM 117	CHEM 117	CHEM 117	CHEM 117	CHEM 117	CHEM 117
Southwestern Michigan	CHEM 102	CHEM 102	CHEM 102	CHEM 102	CHEM 102	CHEM 102	CHEM 102	CHEM 102	CHEM 102	CHEM 102	CHEM 102	CHEM 102	CHEM 117 CHEM 102	CHEM 102	CHEM 102	CHEM 102	CHEM 102	CHEM 102	CHEM 102	CHEM 102	CHEM 102	CHEM 102	CHEM 102	CHEM 102	CHEM 102	CHEM 102
College St. Clair County Community College	CHM 112	CHM 112	CHM 112	CHM 112	CHM 112	CHM 112	CHM 112	CHM 112	CHM 112	CHM 112	CHM 112	CHM 112	CHM 112	CHM 112	CHM 112	CHM 112	CHM 112			CHM 112	CHM 112	CHM 112	CHM 112	CHM 112	CHM 112	
Washtenaw Community College	CEM 122	CEM 122	CEM 122	CEM 122	CEM 122	CEM 122	CEM 122	CEM 122	CEM 122	CEM 122	CEM 122	CEM 122	CHM 112	CEM 122	CEM 122	CEM 122	CEM 122	CEM 122	CEM 122	CEM 122	CEM 122	CEM 122	CEM 122	CEM 122	CEM 122	CEM 122
Wayne County Community College District	CHM 145	CHM 145	CHM 145	CHM 140 CHM 141 CHM 145	CHM 145	CHM 145	CHM 145	CHM 145 CHM 145 CHM 145L	CHM 145	CHM 145	CHM 145	CHM 145	CHM 104 CHM 145 CHM 141	CEM 122 CHM 145	CHM 145	CHM 145	CHM 145	CHM 145	CHM 145	CHM 145	CHM 145	CHM 145	CHM 145	CHM 145	CHM 145	CHM 145
West Shore Community College	CHM 123	CHM 123	CHM 123	CHM 123 MCHM 123 SP 121 SP 122 SP 122	CHM 122 CHM 123 CHM 123 MCHM 122 MCHM	CHM 123	CHM 123	CHM 123 MCHM 123	CHM 123 MCHM 123	CHM 123 MCHM 123	CHM 123	CHM 123	CHM 140 CHM 123	CHM 123 CHM 107	CHM 123	CHM 123	CHM 123	CHM 123	CHM 123	CHM 123	CHM 123	CHM 123	CHM 123	CHM 123	CHM 123	CHM 123

	Central M Michigan 125 University	CHEW MICHIGAN MICHIGAN University	CHEM 321 University	Grand Valley State University	Michigan Technologica I University	Michigan Technologica 1 University	Morthern Michigan University	Northern Michigan University	Oakland Oniversity	Saginaw Waley State University	Saginaw W Valley State University	University of M Michigan - Dearborn	CHEW 231	CHEW 241	Concordia Wall University Ann Arbor	Comerstone University	Comerstone University	CHEW Davenport University	Davenport Wath University	Hulandia CHW 215	CHW MHD Technologica 1 University	CHW MH 2313	Rochester University	Siena Heights University	CHE Spring Arbor University	University of Detroit MHD Detroit Mercy	Oniversity of Detroit Marcy Mercy
Community College  Alpena Community College	CEM 221 CEM 221 CEM 222	CEM 221 CEM 221 CEM 222	CEM 221	CEM 221	CEM 221	CEM 221	CEM 221	CEM 221	CEM 221 CEM 221 CEM 222	CEM 221	CEM 221	CEM 221 CEM 221 CEM 222 CEM 222	CEM 221	CEM 221	CEM 221	CEM 221	CEM 221	CEM 221	CEM 221	CEM 221	CEM 221	CEM 221	CEM 221	CEM 221	CEM 221	CEM 221	CEM 221
Bay de Noc Community College	CHEM 201 CHEM 201 CHEM 202	CHEM 201 CHEM 201 CHEM 202	CH 201 CHEM 201	CH 201 CHEM 201	CHEM 201	CHEM 201	CHEM 201		CH 201 CHEM 201 CH 201 CH 202	CHEM 201	CHEM 201	CEM 221 CH 201 CH 202 CH 201	CHEM 201		CHEM 201	CHEM 201	CHEM 201	CHEM 201	CHEM 201	CHEM 201	CHEM 201	CHEM 201	CHEM 201	CHEM 201	CHEM 201	CHEM 201	CHEM 201
			CHM 201	CHEM 201			CHEM 2260	CHEM 2270	CHEM 201 CHEM 202						CHM 210					CHM 210 CHM	CHEM 237L CHM 2101 W	CHEM 237					
			CHM 201L CHM 210 CHM 210L CHM 210	CHEM 211 CHM 201L CHM 201 CHM 201			CHM 210				CHM 210L				CHM 2101 W	СНМ			СНМ	2101 W	2101 W	CHM 210					
Delta College	CHM 210	CHM 210	CHM 210LW CHM 211 CHM 211L	CHM 201 CHM 210L CHM 210 CHM 211L CHM 211	CHM 210	210LW			CHM 210	CHM 210	CHM 210L	CHM 210	CHM 210	CHM 210E		210LW	CHM 210	CHM 210	210LW				CHM 210	CHM 210	CHM 210	CHM 210L	CHM 210
Glen Oaks Community College	CHEM 210	CHEM 210 CHEM 211 CHEM 210	See Appendix D	CHM 211 CHEM 210 NSC 231	CHEM 210	CHEM 210	CHEM 210	CHEM 210	CHEM 210 CHEM 210 CHEM 211	CHEM 210	CHEM 210	CHEM 210	CHEM 210	CHEM 210	CHEM 210	CHEM 210	CHEM 210	CHEM 210	CHEM 210	CHEM 210	chem 210	chem 210	CHEM 210	CHEM 210	CHEM 210	CHEM 210 NSC 210	CHEM 210 NSC 210
Gogebic Community College Grand Rapids Community	CHM 201 CHM 202 CHM 260 CHM 260	CHM 201 CHM 202	CHM 201 CHM 260 CHM 261	CHM 201 CHM 261 CHM 260	CHM 201	CHM 201	CHM 201	CHM 201	CHM 201 CHM 202 CHM 201	CHM 201	CHM 201	CHM 201 CHM 260 CM 236	CHM 201 CHM 260 CM 236	CHM 201 CHM 261 CM 237	CHM 201 CHM 260 CHM 261	CHM 201	CHM 201	CHM 201	CHM 201	CHM 201 CHM 260 CHM 261	CHM 201	CHM 201	CHM 201 CHM 260 CHM 261	CHM 201	CHM 201	CHM 201 CHM 261 CM 237	CHM 201 CHM 260 CM 236
College	CHM 261 CHM 270 CHM 271	CHM 260	CM 236 CM 237 CM 266 CHEM 241	CM 266 CHEM 241	CHM 260	CHM 261	CHM 260 CHEM 241	CHM 261 CHEM 243	CHM 260	CHM 260	CHM 261	CM 266	CM 266		CHM 260 CHM 261 CHEM 241 CHEM 241	CHM 261	CHM 260	CHM 260	CHM 261	CHEM 241 CHEM 243	CHM 261	CHM 260		CHM 260	260/261		
			CHEM 241 CHEM 243	CHEM 243 CHEM 242 CHEM 241 CHEM 243			CHEM 243 CHEM 241 CHEM 242 CHEM 243	CHEM 241 CHEM 242 CHEM 243 CHEM 241							CHEM 241					CHEM 243							
				CHEM 53			CHEM 241 CHEM 243 CHEM 241 CHEM 242 CHEM 243	CHEM 243 CHEM 241 CHEM 242 CHEM 243 CHEM 241																			
Henry Ford College	CHEM 241	CHEM 241			CHEM 241	CHEM 243	CHEM 243 CHEM 241 CHEM 243 CHEM 241 CHEM 242	CHEM 243 CHEM 241 CHEM 242 CHEM 242 CHEM 243	CHEM 241	CHEM 241	CHEM 243	CHEM 241	CHEM 241			CHEM 241	CHEM 241	CHEM 241	CHEM 243		CHM 243	CHEM 241	CHEM 241/243	CHEM 241	CHEM 241	CHEM 243	CHEM 241
							CHEM 243 CHEM 241 CHEM 243 CHEM 241	CHEM 243 CHEM 243 CHEM 241 CHEM 242																			
	CEM 241	CEM 241	CEM 241	CEM 241			CHEM 242 CHEM 243 CHEM 241	CHEM 243 CHEM 241 CHEM 243				CEM 241												CEM 251			
Jackson College	CEM 241 CEM 242 CHM 220	CEM 241 CEM 242 CHM 220	CEM 251 CHM 201	CEM 241 CEM 251 CHM 201	CEM 241	CEM 241	CEM 241		CEM 241 CHM 220	CEM 241	CEM 241	CEM 251 CEM 241 CEM 242 CHM 201	CEM 241 CHM 220		CEM 241	CEM 241	CEM 241	CEM 241	CEM 241	CEM 241	CEM 241	CEM 241	CEM 241 CHM 220	CEM 241	CEM 241	CEM 241	CEM 241
Kalamazoo Valley Community College	CHM 220 CHM 230 CHEM 201	CHM 220 CHM 230 CHEM 201	CHM 211 CHM 220	CHM 211 CHM 220 CHEM 201 CHEM	CHM 220	CHM 220	CHM 220		CHM 220 CHM 230 CHEM 201	CHM 220	CHM 220	CHM 220 CHM 230 CHM 220	CHM 201		CHM 220	CHM 220	CHM 220	CHM 220	CHM 220	CHM 220	CHM 220	CHM 220 CHEM 201	CHM 220	CHM 220	CHM 220	CHM 220	
Kellogg Community College	CHEM 201 CHEM 202	CHEM 201 CHEM 202	CHEM 201 CHE 20101	201A CHE 20102	CHEM 201	CHEM 201	CHEM 201		CHEM 202 CHEM 201	CHEM 201	CHEM 201	CHEM 201	CHEM 201	CHEM 202	CHEM 201 CHE 20101	CHEM 201	CHEM 201	CHEM 201	CHEM 201	CHEM 201 CHE 20101	chem 201	chem 201	CHEM 201 CHE 20101	CHEM 201	CHEM 201 CHE 20010 CHE	CHEM 201	CHEM 201
Kirtland Community College	CHE 20101	CHE 20101	CHE 20102	CHE 20101 CHE 20102 CHE 20101	CHE 20101	CHE 20102	CHE 20101	CHE 20102	CHE 20101	CHE 20101	CHE 20102	CHE 20101	CHE 20101	CHE 20102	CHE 20102	CHE 20102	CHE 20101	CHE 20101	CHE 20101	CHE 20102	CHM 20102	CHM 20101	CHE 20102	CHE 20101	CHE 20101/02 2	CHE 20102	CHE 20101
Lake Michigan College	CHEM 203 CHEM 203 CHEM 204	CHEM 203 CHEM 203 CHEM 204	CHEM 203	CHEM 203	CHEM 203	CHEM 203	CHEM 203	CHEM 203	CHEM 203 CHEM 204 CHEM 203	CHEM 203	CHEM 203	CHEM 203	CHEM 203 CHEM 182	CHEM 203	CHEM 203	CHEM 203	CHEM 203	CHEM 203	CHEM 203	CHEM 203	chem 203	chem 203	CHEM 203	CHEM 203	CHEM 203	CHEM 203	CHEM 203
Lansing Community College	CHEM 251	CHEM 251 CHEM	CHEM 252 CHEM 272 CHEM	CHEM 272 CHEM 251 CHEM	CHEM 251	CHEM 272	CHEM 272 CHEM 251 CHEM 252 CHEM	CHEM 251 CHEM 252 CHEM 272 CHEM	CHEM 251 CHEM	CHEM 251	CHEM 192	CHEM	CHEM 251		CHEM 272 CHEM	CHEM 272	CHEM 251	CHEM 251	CHEM 251	CHEM 251	CHEM 272	CHEM 251	CHEM 251/272 CHEM	CHEM 251 CHM 227	CHEM 251/272	CHEM 272	CHEM 251 CHEM 2260
Macomb Community College	CHEM 2260	2260 CHEM 2260 CHEM 2270 CHEM 2280	2270 CHEM 2270 CHEM 2280 CHEM 2260 CHEM 2270	2270 CHEM 2270 CHEM 2280 CHM 227 CHM 226 CHM 228	CHEM 2260	CHEM 2270	2250 CHEM 2270	2260 CHEM 2270	2760 CHM 226	CHEM 2260	CHEM 2270	2760 CHM 226 CHM 230	CHEM 2260	CHEM 2270	2760 CHEM 2270	CHEM 2270	CHEM 2260	CHEM 2260	CHEM 2270	CHEM 2260	CHEM 2270	CHEM 2260	2260 CHEM 2270	CHM 226 CHEM 2270 CHEM 2260	CHEM 2260	CHEM 2270	7760 CHM 226
Mid Michigan College	CHM 245 CHM 255	CHM 245	CHM 226 CHM 227 CHM 241 CHM 245 CHM 246 CHM 255	CHM 241 CHM 245 CHM 255	CHM 245	CHM 255	CHM 245		CHM 241 CHM 245	CHM 245	CHM 255	CHM 241 CHM 242	CHM 245		CHM 245	CHM 255	CHM 245	CHM 245	CHM 255	CHM 245 CHM 255	CHM 255	CHM 245	CHM 245 CHM 255	CHM 245	CHM 245/255	CHM 255	CHM 245
concyc	CHEM 251 CHEM 251 CHEM 252	CHEM 251	CHM 256 CHEM 251 CHEM 252 CHEM 251	CHEM 251	CHEM 251	CHEM 251	CHEM 251	CHEM 251	CHEM 251	CHEM 251	CHEM 251	CHEM 251 CHEM 252 CHEM 251	CHEM 251	CHEM 251	CHEM 251	CHEM 251	CHEM 251	CHEM 251	CHEM 251	CHEM 251	CHEM 251	CHEM 251	CHEM 251	CHEM 251	CHEM 251	CHEM 251	CHEM 251
Montcalm Community College	CHEM 251	CHEM 251 CHEM 252 CHEM 251 CHEM 237	CHEM 251 CHEM 237	CHEM 251 CHEM 237	CHEM 251	CHEM 251	CHEM 251 CHEM	CHEM 251 CHEM	CHEM 251 CHEM 251 CHEM 251	CHEM 251	CHEM 251	CHEM 251 CHEM 237	CHEM 251	CHEM 251	CHEM 251 CHEM 237	CHEM 251	CHEM 251	CHEM 251	CHEM 251	CHEM 251 CHEM 237	chem 251	chem 251	CHEM 251	CHEM 251 CHEM 237	CHEM 251	CHEM 251	CHEM 251
Mott Community College	CHEM 237	CHEM 238 CHEM 237	CHEM 237L CHEM 237R	CHEM 238	CHEM 237	CHEM 237	CHEM 237R CHEM 237 CHEM	CHEM 237R CHEM 237	CHEM 238 CHEM 237	CHEM 237	CHEM 237	CHEM 237 CHEM 238	CHEM 237	CHEM 237L	CHEM 237L	CHEM 237	CHEM 237L	CHEM 237	CHEM 237	CHEM 237L	CHEM 237L	CHEM 237	23//23/L	CHEM 237L	CHEM 237	CHEM 237	CHEM 237
Muskegon Community College	CHEM 201E	CHEM 201E	CHEM 201F CHEM 201F	CHEM 201A CHEM 201 CHEM 201 CHEM 201E CHEM	CHEM 201E	CHEM 201F	201F CHEM 201E CHEM 201F	CHEM 201F CHEM 201F CHEM 201F	CHEM 201E	CHEM 201E	CHEM 201F	CHEM 201E	CHEM 201E	CHEM 201F	CHEM 201F CHEM 201F	CHEM 201E	CHEM 201F	CHEM 201E	CHEM 201F	CHEM 201F CHEM 201F	CHEM 201F	CHEM 201E	CHEM 201F CHEM 201F	CHEM 201E	CHEM 201E	CHEM 201F	CHEM 201E
North Central Michigan College	CEM 231 CEM 231 CEM 232	CEM 231 CEM 231 CEM 232	CEM 231	201F CEM 231	CEM 231	CEM 231	CEM 231	CEM 231	CEM 231 CEM 232 CEM 231	CEM 231	CEM 231	CEM 231	CEM 231	CEM 231	CEM 231	CEM 231	CEM 231	CEM 231	CEM 231	CEM 231	CEM 231	CEM 231	CEM 231	CEM 231	CEM 231	CEM 231	CEM 231
	CHM 250 CHM 250 CHM 251		CHM 250 CHM 250L CIS 110 CIS 217	CHM 250 CHM 250L CHM 250L CHM 250					CHM 250 CHM 251L CHM 250 CHM 250L			CHM 250 CHM 251 CHM 250								CHM 250 CHM 250L	CHM 250 CHM 250L	CHM 250 CHM 250L				CHM 250 CHM 250L	CHM 250 CHM 250L
Northwestern Michigan College		CHM 250	CHM 250 CHM 250L CIS 110 CIS 217 SMCH 201 SMCH 202 SMCH 203	CHM 250	CHM 250	CHM 250	CHM 250		CHM 251	CHM 250	CHM 250		CHM 250		CHM 250	CHM 250	CHM 250L	CHM 250	CHM 250				CHM 250	CHM 250	CHM 250		
			SMCH 204 CHE 261 CHE 262	CHE 261 CHE 262			CHE 2650 CHE 2610	CHE 2650 CHE 2610 CHE 2650	CHE 261 CHE 2610			CHE 261 CHE 2610		CHE 26501 CHE 2650									CHE 2610 CHM 2610	CHE 261 CHE 263 CHE 2610			
Oakland Community College	CHE 2610	CHE 2610	CHE 263 CHE 261 CHE 263 CHE 2610 CHE 2620 CHE 2650	CHE 263 CHE 262 CHE 265 CHE 261 CHE 2620 CHE 2650 CHE 2610	CHE 2610	CHE 2650		CHE 2650		CHE 2610	CHE 2650		CHE 2610		CHE 2610	CHE 2610	CHE 2650	CHE 2610	CHE 2650	CHE 2610	CHE 2650	CHE 2610	CHM 2650		CHE 2610	CHE 2650	CHE 2610
Schoolcraft College	CHEM 213 CHEM 213 CHEM 214	CHEM 213 CHEM 213 CHEM 214	CHEM 213	CHEM 213	CHEM 213	CHEM 213	CHEM 213	CHEM 213	CHEM 213 CHEM 214 CHEM 213	CHEM 213	CHEM 213	CHEM 213 CHM 1240 CHEM 214 CHEM 213	CHEM 213	CHEM 213	CHEM 213 CHEM 213	CHEM 213	CHEM 213	CHEM 213	CHEM 213	CHEM 213	CHEM 213	CHEM 213	CHEM 213	CHEM 213 CHEM 214	CHEM 213	CHEM 213	CHEM 213
Southwestern Michigan College St. Clair County Community	CHEM 201 CHEM 201 CHEM 202 CHM 215	CHEM 201 CHEM 202 CHEM 201 CHM 215	CHEM 201	CHEM 201	CHEM 201	CHEM 201	CHEM 201	CHEM 201	CHEM 201 CHEM 202 CHEM 201 CHM 215	CHEM 201	CHEM 201	CHEM 201 CHM 215	CHEM 201	CHEM 202	CHEM 201	CHEM 201	CHEM 201	CHEM 201	CHEM 201	CHEM 201	CHEM 201	CHEM 201	CHEM 201	CHEM 201 CHE 215	CHEM 201	CHEM 201	CHEM 201
College Washtenaw Community	CHM 216 CEM 211 CEM 211	CHM 216 CHM 215 CEM 211 CEM 222	CHM 215 CEM 211 CEM 211	CHM 215 CEM 211 CEM 222	CHM 215	CHM 215	CHM 215	CHM 215	CHM 215 CHM 215 CHM 216 CEM 211 CEM 211	CHM 215	CHM 215	CHM 216 CEM 211 CEM 222	CHM 215	CHM 215	CHM 215	CHM 215	CHM 215	CHM 215	CHM 215	CHM 215 CEM 211	CHM 215	CHM 215	CHM 215	CHE 215 CHM 215	CHM 215	CHM 215	CHM 215 CEM 211
College	CEM 222	CEM 222 CEM 211	CEM 222 CHM 250 CHM 252 CHM 255	CEM 211 CHM 255 CHM 252 CHM 250			CHM 250 CHM 250 CHM 252	CHM 250 CHM 252	CEM 211 CEM 222			CEM 211 CHM 250 CHM 251			CHM 250 CHM 255 CHM 250		211				CHM 255 chm 250	CHM 250 chm 250					CHM 250 CHM 251
Wayne County Community College District	CHM 250	CHM 250	CHM 255 CHM 250 CHM 255 CHM 251	CHM 250 CHM 250 CHM 255 CHM 251	CHM 250	CHM 255	CHM 255 CHM 250 CHM 252 CHM 255 CHM 250 CHM 252	CHM 255 CHM 250 CHM 252 CHM 255 CHM 250 CHM 252 CHM 255	CHM 250	CHM 250	CHM 255	CHM 251 CHM 253	CHM 250		-CHM 250	CHM 250	СНМ 250	CHM 250	CHM 255	CHM 250			СНМ 250	CHEM 250	CHM 250	CHM 255	
West Shore Community College	CHM 222 CHM 222 CHM 223	CHM 222 CHM 223	CHM 222 MCHM 222		CHM 222	CHM 222	CHM 255 CHM 222		CHM 222 MCHM 222 MCHM 222 MCHM 223 CHM 223 CHM 222	CHM 222	CHM 222	CHM 222	CHM 222		CHM 222	CHM 222	CHM 222	CHM 222	CHM 222	CHM 222	CHM 222	CHM 222	CHM 222	CHM 222	CHM 222	CHM 222	CHM 222

BIO MiTransfer Pathway Organic Chemistry II By Receiving Institution	Central Michigan University	Eastern Michigan University	Eastern Michigan University	Ferris State University	Grand Valley State University	Michigan Technologic al University	Michigan Technologic al University	Northern Michigan University	Northern Michigan University	Oakland University	Saginaw Valley State University	Saginaw Valley State University	University of Michigan- Dearborn	Andrews	Andrews	Concordia University Ann Arbor	Comerstone University	Comerstone	Davenport University	Davenport University	Finlandia University	Lawrence Technologic al University	Lawrence Technologic al University	Rochester University	Siena Heights University	Spring Arbor University	University of Detroit Mercy	University of Detroit Mercy
Community College  Alpena Community College	CEM 221 CEM 222 CEM 222	CEM 221 CEM 222 CEM 222	CEM 221 CEM 222	CEM 222	CEM 222 CHM 222	CEM 222	CEM 222	CEM 222	CEM 222	CEM 222 CEM 221 CEM 222	CEM 222	CEM 222	CEM 222 CEM 221 CEM 222 CEM 222	CEM 222	CEM 222	CEM 222	CEM 222	CEM 222	CEM 222	255L	CEM 222	cem 222	cem 222	CEM 222 CHM 222	CEM 222	CEM 222	CEM 222	CEM 222
Bay de Noc Community College	CHEM 201 CHEM 202 CHEM 202	CHEM 201 CHEM 202 CHEM 202	CHEM 201 CHEM 202	CH 202 CHEM 202	CH 202 CHEM 202	CHEM 202	CHEM 202	CHEM 202	CHEM 202	CH 202 CHEM 202 CH 201 CH 202 CHEM 201 CHEM 202		CHEM 202	CEM 221 CH 202 CH 202 CH 201	CHEM 202	СНЕМ 202	CHEM 202	CHEM 202	CHEM 202	CHEM 202	CHEM 202	CHEM 202	СНЕМ 202	CHEM 202	СНЕМ 202	CHEM 202	CHEM 202	CHEM 202	CHEM 202
Delta College	СНМ 220	CHM 220	CHM 210LW CHM 220I W	CHM 202 CHM 202L CHM 212 CHM 212L CHM 220 CHM 220L CHM 220L CHM 220L CHM 220LW	CHEM 202 CHEM 212 CHM 202 CHM 202 CHM 202 CHM 202 CHM 212 CHM 212 CHM 212 CHM 212 CHM 212 CHM 212	CHM 220	CHM 220LW	СНМ 220	CHM 220L		СНМ 220	CHM 220L	CHM 220	СНМ 220	CHM 220L	CHM 220	СНМ 220	CHM 220LW	СНМ 220	CHM 220LW	CHM 220 CHM 2201 W	CHEM 238L CHM 220I W	CHEM 238 CHM 220	CHM 220 Chem 2201	CHM 220	CHM 220	CHM 220L	СНМ 220
Glen Oaks Community College	CHEM 211	CHEM 210 CHEM 211 CHEM 211	CHEM 210 CHEM 211	See Appendix D	CHM 220L CHM 220 CHEM 211 NSC 232	CHEM 211	CHEM 211	CHEM 211	CHEM 211	CHEM 211 CHEM 210 CHEM 211 CHM 202	CHEM 211	CHEM 211	CHEM 211	CHEM 211	CHEM 211	CHEM 211	CHEM 211	CHEM 211	CHEM 211 CHEM 211	CHEM 211 CHEM 211	CHEM 211	chem 211	chem 211	CHEM 211	CHEM 211	CHEM 211	CHEM 211	CHEM 211
Gogebic Community College	CHM 202 CHM 202	CHM 201 CHM 202 CHM 202	CHM 201 CHM 202	CHM 202	CHM 202	CHM 202	CHM 202	CHM 202	CHM 202	CHM 202 CHM 202 CHM 201	CHM 202	CHM 202	CHM 202	CHM 202	CHM 202	CHM 202	CHM 202	CHM 202	CHM 202	CHM 202	CHM 202	CHM 202	CHM 202	CHM 202	CHM 202	CHM 202	CHM 202	CHM 202
Grand Rapids Community College	CHM 260 CHM 261 CHM 270 CHM 271 CHM 270	CHM 270	CHM 261 CHM 271	CHM 270 CHM 271 CM 238 CM 239 CM 267 CHEM 242	CHM 271 CHM 270 CM 267	CHM 270	CHM 271	CHM 270 CHEM 243	CHM 271 CHEM 243	СНМ 270		CHM 271	CHM 270 CM 238 CM 267	CM 238 CM 267 CHM 270	CHM 244 CM 239	CHM 270 CHM 271	CHM 270 CHEM 242	CHM 271	CHM 270	CHM 271	CHM 270 CHM 271 CHEM 242	CHM 271	CHM 270	CHM 270 CHM 271	CHM 270	CHM 270/271	CHM 271 CM 239	CHM 270 CM 238
Henry Ford College		CHEM 242	CHEM 243	CHEM 242 CHEM 244	CHEM 241 CHEM 243 CHEM 242 CHEM 244 CHEM 242	CHEM 242	CHEM 244	CHEM 241 CHEM 242 CHEM 243 CHEM 241 CHEM 243 CHEM 241 CHEM 242 CHEM 242 CHEM 243 CHEM 247	CHEM 241 CHEM 242 CHEM 243 CHEM 241 CHEM 243 CHEM 241 CHEM 242 CHEM 243 CHEM 244	CHEM 242		CHEM 244	CHEM 242	CHEM 242	CHEM 244	CHEM 242 CHEM 242	CHEM 242 CHEM 244 CHEM 242	CHEM 242	CHEM 242	CHEM 244	CHEM 242 CHEM 244	CHEM 244	CHEM 242	CHEM 242/244	CHEM 242	CHEM 242	CHEM 243	CHEM 242
Jackson College	CEM 241 CEM 242	CEM 241 CEM 242	CEM 241 CEM 242	CEM 242 CEM 252	CEM 242 CEM 252	CEM 242	CEM 242	CEM 242	CEM 242	CEM 242	CEM 242	CEM 242	CEM 242 CEM 241	CEM 242	CEM 242	CEM 242	CEM 242	CEM 242	CEM 242	CEM 242	CEM 242	CEM 242	CEM 242	CEM 242	CEM 252 CEM 242	CEM 242	CEM 242	CEM 242
Kalamazoo Valley Community College	CEM 242 CHM 220 CHM 230 CHM 230	CEM 242 CHM 220 CHM 230 CHM 230	CHM 220 CHM 230	CHM 202 CHM 212 CHM 230	CHM 212 CHM 202 CHM 230	CHM 230	CHM 230	CHM 230	CHM 230	CHM 230 CHM 220 CHM 230		CHM 230	CEM 242 CHM 202 CHM 230 CHM 230 CHM 220	CHM 230 CHM 202	CHM 230	CHM 230	CHM 230	CHM 230	CHM 230	CHM 230	CHM 230	CHM 230	CHM 230	CHM 230	CHM 230	CHM 230	CHM 230	CHM 230
Kellogg Community College	CHEM 201 CHEM 202	CHEM 201 CHEM 202	CHEM 201 CHEM 202	CHEM 202	CHEM 201B CHEM 202	CHEM 202	CHEM 202	CHEM 202	CHEM 202	CHEM 202 CHEM 202		CHEM 202	CHM 220 CHEM 202	CHEM 202	CHEM 202	CHEM 202	CHEM 202	CHEM 202	CHEM 202	CHEM 202	CHEM 202	CHEM 202	CHEM 202	CHEM 202	CHEM 202	CHEM 202	CHEM 202	CHEM 202
Kirtland Community College	CHEM 202 CHEM 202 CHE 20201	CHEM 202 CHEM 202 CHE 20201	CHE 20102 CHE 20202	CHE 20201 CHE 20202	CHE 20202 CHE 20201 CHE	CHE 20201	CHE 20202	CHE 20201	CHE 20202	CHEM 201 CHEM 201 CHE 20201	CHE 20201	CHE 20202	CHE 20202	CHE 20201	CHE 20202	CHE 2021 CHEM 2020	CHE 20201	CHE 20202	CHE 20201 CHEM 20102	CHE 20201 CHE 20202 CHEM 20102	CHE 20201 CHE 20202	CHM 20202	CHM 20201	CHE 20201 CHE 20202	CHE 20102	CHE 20201/02 CHE 20201	CHE 20202	CHE 20201
Lake Michigan College	CHEM 203 CHEM 204 CHEM 204	CHEM 203 CHEM 204 CHEM 204	CHEM 203 CHEM 204	CHEM 204	20202 CHEM 204	CHEM 204	CHEM 204	CHEM 204	CHEM 204	CHEM 204 CHEM 204 CHEM 203		CHEM 204	CHEM 204	CHEM 204 CHEM 204 CHEM 204	CHEM 204 CHEM 204	CHEM 204	CHEM 204	CHEM 204	CHEM 204		CHEM 204	chem 204	chem 204	CHEM 204	CHEM 204	CHEM 204	CHEM 204	CHEM 204
				CHEM 251 CHEM 252	CHEM 252			CHEM 272	CHEM 272 CHEM 251					CHEM 204		CHEM 252 CHEM 272					CHEM 252 CHEM 272			СНЕМ		CHEM		
Lansing Community College		CHEM 252	CHEM 272	CHEM 272	CHEM 272 CHEM 251 CHEM	CHEM 252	CHEM 272	CHEM 251 CHEM 252 CHEM 252	CHEM 251 CHEM 252 CHEM 272 CHEM	CHEM 252		CHEM 272	CHEM 252 CHEM	CHEM 252	CHEM 272	CHEM 2/2	CHEM 252	CHEM 272	CHEM 252	CHEM 252	CHEM 2/2	CHEM 272	CHEM 252	252/272	CHEM 252	252/272	CHEM 272	CHEM 252
Macomb Community College	CHEM 2280	2260 CHEM 2270 CHEM 2280 CHEM 2280	2260 CHEM 2270 CHEM 2280	2270 CHEM 2270 CHEM 2280 CHEM 2270 CHEM 2270 CHEM 2280 CHEM	2260 CHEM 2270 CHEM 2280 CHM 227 CHM 226 CHM 228	CHEM 2280	CHEM 2270	2280 CHEM 2270	2280 CHEM 2270	CHEM 7780 CHM 228	CHEM 2280	CHEM 2270	2780 CHM 228 CHM 231	CHEM 2280	CHEM 2280	2280 CHEM 2270	CHEM 2280	CHEM 2270	CHEM 2280	CHEM 2270	CHEM 2280	CHEM 2270	CHEM 2280	CHEM 2270	CHEM 2280	CHEM 2280	CHEM 2270	CHEM 2280 CHM 228
Mid Michigan College	CHM 246 CHM 256	CHM 246	CHM 255 CHM 256	CHM 242 CHM 245 CHM 246 CHM 255 CHM 256	CHM 242 CHM 256 CHM 246	CHM 246	СНМ 256	CHM 246	CHM 256	CHM 246	CHM 246	СНМ 256	CHM 241 CHM 242	CHM 246	CHM 256	CHM 246	CHM 246	СНМ 256	CHM 246	СНМ 256	CHM 246 CHM 256	CHM 256	CHM 246	CHM 246 CHM 256	CHM 246	CHM 246/256	CHM 250 CHM 256	CHM 246
Monroe County Community College	CHEM 251 CHEM 252 CHEM 252	CHEM 251 CHEM 252 CHEM 252	CHEM 251 CHEM 252	CHEM 251 CHEM 252 CHEM 252	CHEM 252	CHEM 252	CHEM 252	CHEM 252	CHEM 252	CHEM 252		CHEM 252	CHEM 252 CHEM 252 CHEM 251	CHEM 252	CHEM 252	CHEM 252	CHEM 252	CHEM 252	CHEM 252	CHEM 252	CHEM 252	CHEM 252	CHEM 252	CHEM 252	CHEM 252	CHEM 252	CHEM 252	CHEM 252
Montcalm Community College	CHEM 252	CHEM 251 CHEM 252 CHEM 252	CHEM 251 CHEM 252	CHEM 252	CHEM 252	CHEM 252	CHEM 252	CHEM 252	CHEM 252	CHEM 252 CHEM 252 CHEM 251	CHEM 252	CHEM 252	CHEM 252	CHEM 252	CHEM 252	CHEM 252	CHEM 252	CHEM 252	CHEM 252	CHEM 252	CHEM 252	chem 252	chem 252	CHEM 252	CHEM 252	CHEM 252	СНЕМ 252	CHEM 252
Mott Community College	CHEM 238	CHEM 237 CHEM 238 CHEM 238	CHEM 237 CHEM 238	CHEM 238 CHEM 2381 CHEM 238R	CHEM 237 CHEM 238	CHEM 238	CHEM 238	CHEM 238 CHEM 238I	CHEM 238 CHEM 2381	CHEM 238 CHEM 238 CHEM 237	CHEM 238	CHEM 238	CHEM 238 CHEM 237 CHEM 238	CHEM 238	CHEM 238L	CHEM 238 CHEM 2381	CHEM 238	CHEM 238L	CHEM 238	CHEM 238	CHEM 238 CHEM 2381	CHEM 238L	CHEM 238	CHEM 238/238L	CHEM 238	CHEM 238L	CHEM 238	CHEM 238
Muskegon Community College	CHEM 202F	CHEM 202F	CHEM 201F CHEM 202G	CHEM 202F CHEM 202G	CHEM 202 CHEM 202F CHEM 202G CHM 202G	CHEM 202F	CHEM 202G	CHEM 202F CHEM 202F CHEM 202G CHEM 202F CHEM	CHEM 202F CHEM 202G CHEM 202G CHEM 202F CHEM	CHEM 202- F CHEM 202F	CHEM 202F	CHEM 202G	CHEM 202F	CHEM 202F	CHEM 202G	CHEM 202F CHEM 202G	CHEM 202F	CHEM 202G	CHEM 202F	CHEM 202G	CHEM 202F CHEM 201G	CHEM 202G	CHEM 202F	CHEM 202f/202g	CHEM 202F	CHE 202/L CHEM 202F	CHEM 202G	CHEM 202F
North Central Michigan College	CEM 231 CEM 232	CEM 231 CEM 232	CEM 231 CEM 232	CEM 232	CEM 232 CEM 232	CEM 232	CEM 232	202G CEM 232	202G CEM 232	CEM 232 CEM 232 CEM 231	CEM 232	CEM 232	CEM 232	CEM 232	CEM 232	CEM 232 CHEM 211	CEM 232	CEM 232	CEM 232	CEM 232	CEM 232	CEM 232	CEM 232	CEM 232	CEM 232	CEM 232	CEM 232	CEM 232
	CEM 232 CHM 250 CHM 251	CEM 232	CHM 250L CHM 251L	CHM 251 CHM 251L	CHM 251L CHM 251				CHM 251 CHM 251L	CHM 251 CHM 251L			CHM 251 CHM 251								CHM 251 CHM 251L	CHM 251 CHM 251L	CHM 251 CHM 251L				CHM 251 CHM 251L	CHM 251 CHM 251L
Northwestern Michigan College		CHM 251		CIS 202 CIS 203 CIS 204 CHM 251 CHM 251L CIS 202 CIS 203 CIS 204 SMCH 205 SMCH 206	CHM 251L CHM 251 CHM 251	CHM 251	СНМ 251	СНМ 251		CHM 250 CHM 250L CHM 251		CHM 251	CHM 250	CHM 251	CHM 251L	CHM 251	CHM 251	CHM 251L	CHM 251	CHM 251				CHM 251	СНМ 251	CHM 251L		
Oakland Community College			CHE 2650	CHE 261 CHE 262 CHE 263 CHE 2610 CHE 2620 CHE 2650 CHE 2650 CHE 262 CHE 263	CHE 261 CHE 262 CHE 263 CHE 262 CHE 265 CHE 261 CHE 2650 CHE 2650 CHE 2610	CHE 2620	CHE 2650	CHE 2620 CHE 2650	CHE 2620 CHE 2650			CHE 2650	CHE 262 CHE 2620	CHE 2620	CHE 2650	CHE 2620 CHE 2650	CHE 2650	CHE 2650	CHE 2620	CHE 2650	CHE 2650	CHE 2650	CHE 2620	CHE 2620/265 0	CHE 2650	CHE 2620	CHE 2650	CHE 2620
Schoolcraft College	CHEM 213 CHEM 214 CHEM 214	CHEM 213 CHEM 214 CHEM 214	CHEM 213 CHEM 214	CHEM 214		CHEM 214	CHEM 214	CHEM 214	CHEM 214	CHEM 214 CHEM 214 CHEM 213	CHEM 214	CHEM 214	CHEM 214 CHEM 214 CHEM 213	CHEM 214	CHEM 214	CHEM 214	CHEM 214	CHEM 214	CHEM 214	CHEM 214	CHEM 214	CHEM 214	CHEM 214	CHEM 214	CHEM 214	CHEM 214	CHEM 214	CHEM 214
Southwestern Michigan College	CHEM 201 CHEM 202 CHEM 202	CHEM 201 CHEM 202 CHEM 202	CHEM 201 CHEM 202	CHEM 202	CHEM 202	CHEM 202	CHEM 202	CHEM 202	CHEM 202	CHEM 202 CHEM 202 CHEM 201	CHEM 202	CHEM 202	CHEM 202	CHEM 202	CHEM 202	CHEM 202	CHEM 202	CHEM 202	CHEM 202	CHEM 202	CHEM 202	CHEM 202	CHEM 202	CHEM 202	CHEM 202	CHEM 202	CHEM 202	CHEM 202
St. Clair County Community College	CHM 215 CHM 216 CHM 216	CHM 215 CHM 216 CHM 216	CHM 215 CHM 216	CHM 216	CHM 216	CHM 216	CHM 216	CHM 216	CHM 216	CHM 216 CHM 215 CHM 216	CHM 216	CHM 216	CHM 216 CHM 215 CHM 216	CHM 216	CHM 216	CHM 216	CHM 216	CHM 216	CHM 216	CHM 216	CHM 216	CHM 216	CHM 216	CHM 216	CHM 216	CHM 216	CHM 216	CHM 216
Washtenaw Community College	CEM 211 CEM 222 CEM 222	CEM 211 CEM 222 CEM 222	CEM 211 CEM 222	CEM 211 CEM 222 CEM 222 CHM 250 CHM 252	CEM 211 CEM 222 CEM 222 CHM 255 CHM 252	CEM 222	CEM 222	CEM 222 CHM 250 CHM 252	CEM 222 CHM 250 CHM 252	CEM 222 CEM 211 CEM 222	CEM 222	CEM 222	CEM 222 CEM 222 CEM 211 CHM 252 CHM 253	CEM 222	CEM 222	CEM 222 CEM 222 CHM 252 CHM 255	CEM 222	CEM 222	CEM 222	CEM 222	CEM 222	CEM 222	CEM 222 CHM 252 chm 252	CEM 222	CEM 222 CHM 252 CHEM 252	CEM 222	CEM 222	CEM 222 CHM 252 CHM 253
Wayne County Community College District		CHM 252	СНМ 255	CHM 255 CHM 252 CHM 255 CHM 253	CHM 250 CHM 253	CHM 252	СНМ 255	CHM 255 CHM 252 CHM 250 CHM 252 CHM 255 CHM 250 CHM 252	CHM 255 CHM 250 CHM 252 CHM 255 CHM 250 CHM 252 CHM 255	CHM 252		СНМ 255	CHM 251 CHM 253	СНМ 252	СНМ 255		СНМ 252	СНМ 252	CHM 252	CHM 255	СНМ 252	chm 252		СНМ 252		CHM 252	CHM 255	
West Shore Community College	CHM 222 CHM 223 CHM 223	CHM 222 CHM 223	CHM 222 CHM 223	CHM 223 MCHM 223	CHM 223 MCHM 223	CHM 223	CHM 223	CHM 255 CHM 223	CHM 223	CHM 223 MCHM 223 MCHM 222 MCHM 223 CHM 223 CHM 222		CHM 223	CHM 223	CHM 223	CHM 223	CHM 223	CHM 223	CHM 223	CHM 223	CHM 223	СНМ 223	CHM 223	CHM 223	СНМ 223	CHM 223	CHM 223	CHM 223	CHM 223

## APPENDIX D:

MiTransfer Biology Pathway Course Equivalency Exceptions

Find Excel versions of Appendix D at <a href="www.mitransfer.org">www.mitransfer.org</a>.

## BIOLOGY

Course	College/University	Community College	Explanation
Biology I (Cell,	EASTERN MICHIGAN	GOGEBIC	Syllabus under review
Molecular)	UNIVERSITY	COMMUNITY	
		COLLEGE	
Biology I (Cell,	EASTERN MICHIGAN	MUSKEGON	Syllabus under review
Molecular)	UNIVERSITY	COMMUNITY	
		COLLEGE	
Biology I (Cell,	EASTERN MICHIGAN	ST. CLAIR COUNTY	Syllabus under review
Molecular)	UNIVERSITY	COMMUNITY	
•		COLLEGE	
Biology I (Cell,	EASTERN MICHIGAN	WAYNE COUNTY	No syllabus to review; Accepted to satisfy major
Molecular)	UNIVERSITY	COMMUNITY	requirements
		COLLEGE DISTRICT	
Biology I (Cell,	SAGINAW VALLEY	MUSKEGON	The labs are not in alignment for learning outcomes or
Molecular)	STATE UNIVERSITY	COMMUNITY	objectives.
		COLLEGE	
Biology II	CORNERSTONE	ALPENA	No course. Community college course transfers in as
(Organismal)	UNIVERSITY	COMMUNITY	elective credit.
,		COLLEGE	
Biology II	CORNERSTONE	BAY COLLEGE	No course. Community college course transfers in as
(Organismal)	UNIVERSITY		elective credit.
Biology II	CORNERSTONE	DELTA COLLEGE	No course. Community college course transfers in as
(Organismal)	UNIVERSITY		elective credit.
Biology II	CORNERSTONE	GLEN OAKS	No course. Community college course transfers in as
(Organismal)	UNIVERSITY	COMMUNITY	elective credit.
,		COLLEGE	
Biology II	CORNERSTONE	GOGEBIC	No course. Community college course transfers in as
(Organismal)	UNIVERSITY	COMMUNITY	elective credit.
		COLLEGE	
Biology II	CORNERSTONE	GRAND RAPIDS	No course. Community college course transfers in as
(Organismal)	UNIVERSITY	COMMUNITY	elective credit.
		COLLEGE	
Biology II	CORNERSTONE	HENRY FORD	No course. Community college course transfers in as
(Organismal)	UNIVERSITY	COLLEGE	elective credit.
Biology II	CORNERSTONE	JACKSON COLLEGE	No course. Community college course transfers in as
(Organismal)	UNIVERSITY		elective credit.
Biology II	CORNERSTONE	KALAMAZOO	No course. Community college course transfers in as
(Organismal)	UNIVERSITY	VALLEY	elective credit.
		COMMUNITY	
		COLLEGE	
Biology II	CORNERSTONE	KELLOGG	No course. Community college course transfers in as
(Organismal)	UNIVERSITY	COMMUNITY	elective credit.
		COLLEGE	
Biology II	CORNERSTONE	KIRTLAND	No course. Community college course transfers in as
(Organismal)	UNIVERSITY	COMMUNITY	elective credit.
		COLLEGE	
Biology II	CORNERSTONE	LAKE MICHIGAN	No course. Community college course transfers in as
(Organismal)	UNIVERSITY	COLLEGE	elective credit.
Biology II	CORNERSTONE	LANSING	No course. Community college course transfers in as
(Organismal)	UNIVERSITY	COMMUNITY	elective credit.
		COLLEGE	

Biology II (Organismal)	CORNERSTONE UNIVERSITY	MACOMB COMMUNITY COLLEGE	No course. Community college course transfers in as elective credit.
Biology II	CORNERSTONE	MID MICHIGAN	No course. Community college course transfers in as
(Organismal)	UNIVERSITY	COLLEGE	elective credit.
Biology II	CORNERSTONE	MONROE COUNTY	No course. Community college course transfers in as
(Organismal)	UNIVERSITY	COMMUNITY	elective credit.
		COLLEGE	
Biology II	CORNERSTONE	MONTCALM	No course. Community college course transfers in as
(Organismal)	UNIVERSITY	COMMUNITY COLLEGE	elective credit.
Biology II	CORNERSTONE	MOTT COMMUNITY	No course. Community college course transfers in as
(Organismal)	UNIVERSITY	COLLEGE	elective credit.
Biology II	CORNERSTONE	MUSKEGON	No course. Community college course transfers in as
(Organismal)	UNIVERSITY	COMMUNITY	elective credit.
(- 0 7		COLLEGE	
Biology II	CORNERSTONE	NORTH CENTRAL	No course. Community college course transfers in as
(Organismal)	UNIVERSITY	MICHIGAN COLLEGE	elective credit.
Biology II	CORNERSTONE	NORTHWESTERN	No course. Community college course transfers in as
	UNIVERSITY	MICHIGAN COLLEGE	elective credit.
(Organismal)			
Biology II	CORNERSTONE	OAKLAND	No course. Community college course transfers in as
(Organismal)	UNIVERSITY	COMMUNITY	elective credit.
		COLLEGE	
Biology II	CORNERSTONE	SCHOOLCRAFT	No course. Community college course transfers in as
(Organismal)	UNIVERSITY	COLLEGE	elective credit.
Biology II	CORNERSTONE	SOUTHWESTERN	No course. Community college course transfers in as
(Organismal)	UNIVERSITY	MICHIGAN COLLEGE	elective credit.
Biology II	CORNERSTONE	ST. CLAIR COUNTY	No course. Community college course transfers in as
(Organismal)	UNIVERSITY	COMMUNITY	elective credit.
		COLLEGE	
Biology II	CORNERSTONE	WASHTENAW	No course. Community college course transfers in as
(Organismal)	UNIVERSITY	COMMUNITY	elective credit.
_		COLLEGE	
Biology II	CORNERSTONE	WAYNE COUNTY	No course. Community college course transfers in as
(Organismal)	UNIVERSITY	COMMUNITY	elective credit.
,		COLLEGE DISTRICT	
Biology II	CORNERSTONE	WEST SHORE	No course. Community college course transfers in as
(Organismal)	UNIVERSITY	COMMUNITY	elective credit.
(0.80)		COLLEGE	
Biology II	EASTERN MICHIGAN	GOGEBIC	Syllabus under review
(Organismal)	UNIVERSITY	COMMUNITY	Synabas ander review
(Organismai)	ONVENSITI	COLLEGE	
Piology II	EASTERN MICHIGAN	ST. CLAIR COUNTY	Syllabus under review
Biology II			Syllabus under review
(Organismal)	UNIVERSITY	COMMUNITY	
D'ala u	EACTED!! AND !!!	COLLEGE	No. 11.1.
Biology II	EASTERN MICHIGAN	WAYNE COUNTY	No syllabus to review; Accepted to satisfy major
(Organismal)	UNIVERSITY	COMMUNITY	requirements
		COLLEGE DISTRICT	
Biology II	EASTERN MICHIGAN	WEST SHORE	Syllabus under review
(Organismal)	UNIVERSITY	COMMUNITY	
		COLLEGE	
Biology II	MICHIGAN	WAYNE COUNTY	WCCCD - BIO 165, Botany, will transfer as MTU - BL
(Organismal)	TECHNOLOGICAL	COMMUNITY	2160, Botany, instead of Organismal Biology
-	UNIVERSITY	COLLEGE DISTRICT	,

Biology II (Organismal)	ROCHESTER UNIVERSITY	WAYNE COUNTY COMMUNITY COLLEGE DISTRICT	WCCCD - BIO 165, Botany, will transfer as Rochester University - BIO 2224
Biology II (Organismal)	SAGINAW VALLEY STATE UNIVERSITY	MUSKEGON COMMUNITY COLLEGE	The labs are not in alignment for learning outcomes or objectives.
Biology II (Organismal)	SIENA HEIGHTS UNIVERSITY	ALPENA COMMUNITY COLLEGE	BIO162 is not in alignment with BIO 241 course
Biology II (Organismal)	SIENA HEIGHTS UNIVERSITY	BAY COLLEGE	BIOL 110 is not in alignment with BIO 241 course
Biology II (Organismal)	SIENA HEIGHTS UNIVERSITY	GRAND RAPIDS COMMUNITY COLLEGE	BI 152 course is not in alignment with BIO 241 course
Biology II (Organismal)	SIENA HEIGHTS UNIVERSITY	HENRY FORD COLLEGE	BIO 150 course is not in alignment with BIO 241 course
Biology II (Organismal)	SIENA HEIGHTS UNIVERSITY	KIRTLAND COMMUNITY COLLEGE	BIO11800 course is not in alignment with BIO 241 course
Biology II (Organismal)	SIENA HEIGHTS UNIVERSITY	LAKE MICHIGAN COLLEGE	BIO112 course is not in alignment with BIO 241 course
Biology II (Organismal)	SIENA HEIGHTS UNIVERSITY	LANSING COMMUNITY COLLEGE	BIO 128 course is not in alignment with BIO 241 course
Biology II (Organismal)	SIENA HEIGHTS UNIVERSITY	MID MICHIGAN COLLEGE	BIO112 course is not in alignment with BIO 241 course
Biology II (Organismal)	SIENA HEIGHTS UNIVERSITY	MONROE COUNTY COMMUNITY COLLEGE	BIOL 153 course is not in alignment with BIO 241 course
Biology II (Organismal)	SIENA HEIGHTS UNIVERSITY	MONTCALM COMMUNITY COLLEGE	BIO122 course is not in alignment with BIO 241 course
Biology II (Organismal)	SIENA HEIGHTS UNIVERSITY	OAKLAND COMMUNITY COLLEGE	BIO1560 course is not in alignment with BIO 241 course
Biology II (Organismal)	SIENA HEIGHTS UNIVERSITY	ST. CLAIR COUNTY COMMUNITY COLLEGE	BIO121 Course is not in alignment with BIO 241 course
Biology II (Organismal)	SIENA HEIGHTS UNIVERSITY	WEST SHORE COMMUNITY COLLEGE	BIO123 course is not in alignment with BIO241 course
Biology II (Organismal)	UNIVERSITY OF DETROIT MERCY	BAY COLLEGE	UDM course covers evolution and anatomy/physiology and Bay's course does not
Biology II (Organismal)	UNIVERSITY OF DETROIT MERCY	KIRTLAND COMMUNITY COLLEGE	UDM course covers evolution and anatomy/physiology and Kirtland's course does not
Organic Chemistry I	FERRIS STATE UNIVERSITY	GLEN OAKS COMMUNITY COLLEGE	CHEM 210 at Glen Oaks is equivalent to our CHEM 214 and is not equivalent to our CHEM 321.
Organic Chemistry II	FERRIS STATE UNIVERSITY	GLEN OAKS COMMUNITY COLLEGE	CHEM 211 has been reviewed and is not a direct equivalency to CHEM 322 at Ferris. Glen Oaks does not have an equivalency to the CHEM 321 course at Ferris, which is the class prior to this one in the sequencing of courses.