



Bachelor of Science - Molecular Biology and Biotechnology: Research Concentration Transfer Pathway Guide for Oakland Community College

This is a tool designed to assist OCC students transferring to the University of Michigan-Flint. This is not a self-advising tool.

University of Michigan-Flint		Oakland Community College
✓	General Education Requirements	Course Equivalent
	English Composition - 3 credit hours	ENG 1510- Composition I OR MTA satisfies
	English Composition - 3 credit hours	ENG 1520- Comp II OR COM 1290- Inter Com OR COM 1600- Speech OR SPE 1000- Speech OR SPE 1610- Speech OR MTA satisfies
	Social Science (S) - 6 credit hours	Options at: Transfer.umflint.edu OR MTA satisfies
	Humanities (H) - 6 credit hours	Options at: Transfer.umflint.edu OR MTA satisfies
	Fine Arts (F) - 3 credit hours	Options at: Transfer.umflint.edu OR MTA satisfies
	Mathematics (FQ) - 3 credit hours	Satisfied by major OR MTA satisfies
	Natural Science (N/NL)- 4 credit hours w/ lab	Satisfied by major OR MTA satisfies

Add'I credit hours of the student's designation choice are required to complete 30 credit hours. MTA meets this requirement

Add'I credit hours of the student's designation choice are required to complete 30 credit hours. MIA meets this requirement Required Program Curriculum		
At least 40 credits in biology, with no more than 16 below the 300 level, including:		
Course Requirements	Course Equivalent	
CIT 100 - Technology Foundations	Completed at UM-Flint	
BIO 111 - Organismal Biology	BIO 1560: Organismal Biology-Biodiversity, Ecology and Evolution	
BIO 113 - Principles of Biology	BIO 1530: Molecular and Cellular Biology	
BIO 326 - Cell Biology	Completed at UM-Flint	
BIO 327 - Ecology	Completed at UM-Flint	
BIO 328 - Genetics	BIO 2560: Principles of Genetics	
BIO 405 - Microbiology Lecture	Completed at UM-Flint	
BIO 406 - Microbiology Lab	Completed at UM-Flint	
BIO 425 - Immunology	Completed at UM-Flint	
BIO 467 - Molecular Biology of Procaryotes	Completed at UM-Flint	
BIO 468 - Molecular Biology of Eucaryotes	Completed at UM-Flint	
CHM 260 - Principles of Chemistry	CHE 1510: General Chemistry I	
CHM 261 - General Chemistry Lab	CHE 1510: General Chemistry I	
CHM 262 - Principles of Chemistry II	CHE 1520: General Chemistry II	
CHM 263 - Introductory Quantitative Analysis Lab	CHE 1520: General Chemistry II	
CHM 330 - Organic Chemistry I	CHE 2610 - Organic Chemistry I	
CHM 331 - Organic Chemistry Lab I	CHE 2610 - Organic Chemistry I	
CHM 332 - Organic Chemistry II	CHE 2620 - Organic Chemistry II	
CHM 333 - Organic Chemistry Lab II	CHE 2620 - Organic Chemistry II	
CHM 350 - Fundamentals of Biochemistry OR	Completed at UM-Flint	
CHM 450 - Biochemistry I AND CHM 452 - Biochemistry II MTH 120- Pre-Calculus Mathematics *	MAT 1630: Precalculus OR MAT 1540: College Algebra and 1560: Trig	
	PHY 1610: College Physics I OR PHY 2400: Engineering Physics I	
PHY 143 - College Physics or PHY 243 - Principles of Physics I		
PHY 145 - College Physics II or PHY 245 - Prin of Physics II	PHY 1620: College Physics II OR PHY 2500:Engineering Physics I	
Research Concentration Electives are met by many other courses listed, but recommended of	Course Equivalent	
BIO 301 - Biostatistics	Completed at UM-Flint	
	Completed at UM-Flint Completed at UM-Flint	
BIO 438 - Medical Microbiology	'	
BIO 491 - Independent Study 1. Remaining requirements (general education & program requirement curr	Completed at UM-Flint	

Remaining requirements (general education & program requirement curriculum) may be completed through UM-Flint.
Students must earn a min. of 120 college credits (transfer & UM-Flint); a min. of 30 credit hours at UM-Flint
Catalog and transfer credit are subject to change annually. Please speak with an UM-Flint representative before taking any additional coursework (810.762.3085, umflint.edu/advising)
To view courses that transfer to UM-Flint, please visit transfer.umflint.edu

For an official evaluation, apply for free at UMFLINT.EDU/APPLY.

2025-2026 Catalog May 2025