

# Bachelor of Science - Biochemistry: Pre-Pharmacy 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 <b>OR</b> MTA satisfies
	English Composition - 3 credit hours	ENG 1520- Comp II <b>OR</b> COM 1290- Inter Com <b>OR</b> COM 1600- Speech <b>OR</b> SPE 1000- Speech <b>OR</b> SPE 1610- Speech <b>OR</b> MTA satisfies
	Social Science (S) - 6 credit hours	Options at: <a href="http://Transfer.umflint.edu">Transfer.umflint.edu</a> <b>OR</b> MTA satisfies
	Humanities (H) - 6 credit hours	Options at: <a href="http://Transfer.umflint.edu">Transfer.umflint.edu</a> <b>OR</b> MTA satisfies
	Fine Arts (F) - 3 credit hours	Options at: <a href="http://Transfer.umflint.edu">Transfer.umflint.edu</a> <b>OR</b> MTA satisfies
	Mathematics (FQ) - 3 credit hours	MAT 1710 Analytic Geometry/Calculus I or MAT 1730 - Calc I <b>OR</b> MTA satisfies
	Natural Science (N/NL)- 4 credit hours w/ lab	Options at: <a href="http://Transfer.umflint.edu">Transfer.umflint.edu</a> <b>OR</b> MTA satisfies
Add'l credit hours of the student's designation choice are required to complete 30 credit hours. MTA meets this requirement		
Required Program Curriculum		
	Technology Foundations	Course Equivalent
	CIT 100: Technology Foundations	<a href="#">Completed at UM-Flint</a>
	Chemistry Core Core	Course Equivalent
	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 310 - Junior Seminar	<a href="#">Completed at UM-Flint</a>
	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	<a href="#">Completed at UM-Flint</a>
	CHM 366 - Analytical Chemistry	<a href="#">Completed at UM-Flint</a>
	CHM 367 - Analytical Chemistry Lab	<a href="#">Completed at UM-Flint</a>
	CHM 372 - Green Chemistry	<a href="#">Completed at UM-Flint</a>
	CHM 410 - Senior Seminar in Chemistry	<a href="#">Completed at UM-Flint</a>
	CHM 472 - Inorganic Chemistry	<a href="#">Completed at UM-Flint</a>
	Biology	Course Equivalent
	BIO 113 - Principles of Biology	BIO 1530 - Biology I: Molecular and Cell
	BIO 326 - Cell Biology	<a href="#">Completed at UM-Flint</a>
	BIO 328 - Genetics	<a href="#">Completed at UM-Flint</a>
	Mathematics	Course Equivalent
	MTH 121 - Calculus I	MAT 1710 Analytic Geometry/Calculus I or MAT 1730 - Calculus I
	MTH 122 - Calculus II	MAT 1720 - Analytic Geometry/Calculus II or MAT 1740 Calculus II
	Physics	Course Equivalent
	PHY 143 - Coll Physics I <b>OR</b> PHY 243 - Prin of Physics I	PHY 1031 Concepts in Physics <b>OR</b> PHY 1610 College Physics I <b>OR</b> PHY 2400 - Engineering Physics I
	PHY 145 - Coll Physics II <b>OR</b> PHY 245 - Prin of Physics II	PHY 1620 - College Physics II or PHY 2500/Engineering Physics II
	Pre-Pharmacy Concentration	Course Equivalent
	BIO 111 - Organismal Biology	BIO 1560: Organismal Biology-Biodiversity, Ecology and Evolution
	BIO 167 - Human Anatomy & Physiology I	BIO 2630: Human Anat & Physiology I
	BIO 168 - Human Anatomy & Physiology II	BIO 2640: Human Anat & Physiology II
	BIO 135 - Microbiology Basics <b>OR</b> BIO 405 - Microbiology Lecture <b>AND</b> BIO 406 - Microbiology Lab	BIO 2710 - Microbiology
	CHM 340 - Physical Chemistry <b>AND</b> CHM 341 - Physical Chemistry Lab <b>OR</b> CHM 440 - Physical Chemistry II <b>AND</b> CHM 443 - Intro to Computational Chemistry	<a href="#">Completed at UM-Flint</a>
1. The remaining requirements (general education & program requirement curriculum) may be completed through UM-Flint. 2. Students must earn a min. of 120 college credits (transfer & UM-Flint) and a min. of 30 credit hours at UM-Flint. 3. Catalog and transfer credits are subject to change annually. Please speak with a UM-Flint representative before taking any additional coursework (810.762.3085, <a href="http://umflint.edu/advising">umflint.edu/advising</a> ) 4. To view courses that transfer to UM-Flint, please visit <a href="http://transfer.umflint.edu">transfer.umflint.edu</a> <b>For an official evaluation, apply for free at <a href="http://UMFLINT.EDU/APPLY">UMFLINT.EDU/APPLY</a>.</b>		