

Bachelor of Science - Biochemistry: Pre-Pharmacy Concentration

Transfer Pathway Guide for St. Clair Community College

This is a tool designed to assist SC4 students transferring to the University of Michigan-Flint. This is not a self-advising tool.

University of Michigan-Flint

St. Clair Community College

✓	General Education Requirements	Course Equivalent
	English Composition - 3 credit hours	ENG 101-English Composition I OR MTA satisfies
	English Composition - 3 credit hours	ENG 102- Eng Comp II OR SPC 101- 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	MTH 114 - Calculus I OR MTA satisfies
	Natural Science (N/NL)- 4 credit hours w/ lab	BIO 121- Organismal Biology OR 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

A. Technology Foundations (4 credits)	Course Equivalent
CIT 100 - Technology Foundations (4)	Completed at UM-Flint
B. Chemistry (57-59 credits)	Course Equivalent
CHM 260 - Principles of Chemistry I (4)	CHM 111: General Chemistry I
CHM 261 - General Chemistry Laboratory (1)	CHM 111: General Chemistry I
CHM 262 - Principles of Chemistry II (4)	CHM 112: General Chemistry II
CHM 263 - Introductory Quantitative Analysis Laboratory (1)	CHM 112: General Chemistry II
CHM 310 - Junior Seminar in Chemistry (3)	Completed at UM-Flint
CHM 330 - Organic Chemistry I (4)	CHM 215: Organic Chemistry I
CHM 331 - Organic Chemistry Laboratory I (1)	CHM 215: Organic Chemistry I
CHM 332 - Organic Chemistry II (4)	CHM 216: Organic Chemistry II
CHM 333 - Organic Chemistry Laboratory II (1)	CHM 216: Organic Chemistry II
CHM 340 - Physical Chemistry I (3)	Completed at UM-Flint
CHM 341 - Physical Chemistry Laboratory (2)	Completed at UM-Flint
CHM 344 - Applications of Mathematics in Physical Chemistry (1)	Completed at UM-Flint
CHM 366 - Analytical Chemistry (3)	Completed at UM-Flint
CHM 367 - Quantitative Chemical Analysis Laboratory (2)	Completed at UM-Flint
CHM 410 - Senior Seminar in Chemistry (1)	Completed at UM-Flint
CHM 450 - Biochemistry I (3)	Completed at UM-Flint
CHM 451 - Biochemistry Laboratory I (2)	Completed at UM-Flint
CHM 452 - Biochemistry II (3)	Completed at UM-Flint
CHM 453 - Biochemistry Laboratory II (4)	Completed at UM-Flint
CHM 472 - Inorganic Chemistry (3)	Completed at UM-Flint
One from:	
CHM 372 - Green Chemistry (4)	Completed at UM-Flint
CHM 382 - Toxicology (4)	Completed at UM-Flint
One of the following combinations:	
Either both:	
CHM 440 - Physical Chemistry II (3)	Completed at UM-Flint

<i>CHM 443 - Introduction to Computational Chemistry</i> (2)	Completed at UM-Flint
or both:	Completed at UM-Flint
<i>CHM 460 - Advanced Analytical Chemistry</i> (3)	Completed at UM-Flint
<i>CHM 461 - Instrument Chemical Analysis Laboratory</i> (2)	Completed at UM-Flint
or both:	Completed at UM-Flint
<i>CHM 473 - Inorganic Chemistry Laboratory</i> (2)	Completed at UM-Flint
At least two credits of CHM at the 300 level or higher (excluding CHM 350 and CHM 394)	Completed at UM-Flint
C. Biology (13 credits)	Course Equivalent
<i>BIO 113 - Principles of Biology</i> (5)	BIO 120: Cellular and Molecular Biology
<i>BIO 326 - Cell Biology</i> (4)	BIO 111: Cell Biology
<i>BIO 328 - Genetics</i> (4)	Completed at UM-Flint
D. Mathematics (8 credits)	Course Equivalent
<i>MTH 121 - Calculus I</i> (4)	MTH 114 - Calculus I
<i>MTH 122 - Calculus II</i> (4)	MTH 215 - Calculus II
E. Physics (8 credits)	Course Equivalent
One of the following sequences:	Completed at UM-Flint
<i>PHY 143 - College Physics I</i> (4)	PHY 121: College Physics I
<i>PHY 145 - College Physics II</i> (4)	PHY 122: College Physics II
or	or
<i>PHY 243 - Principles of Physics I</i> (4)	PHY 221: Mechanics Heat & Sound
<i>PHY 245 - Principles of Physics II</i> (4)	PHY 222: Elec Light Mod Physics
F. Pre-Pharmacy	Course Equivalent
<i>BIO 111 - Organismal Biology</i> (5)	BIO 121: Organismal Biology OR BIO 200: Intro Botany and BIO 250: General Zoology
<i>BIO 113 - Principles of Biology</i> (5)	BIO 120: Cellular and Molecular Biology
<i>BIO 167 - Human Anatomy and Physiology I</i> (4)	BIO 271: Human Anatomy & Physiology I
<i>BIO 168 - Human Anatomy and Physiology II</i> (4)	BIO 272: Human Anatomy & Physiology II
<i>BIO 326 - Cell Biology</i> (4)	BIO 111: Cell Biology
<i>BIO 328 - Genetics</i> (4)	Completed at UM-Flint
One from:	
<i>BIO 135 - Microbiology Basics</i> (4)	BIO 206 - Microbiology
<i>BIO 435 - Microbiology</i> (4)	Completed at UM-Flint
<i>CHM 260 - Principles of Chemistry I</i> (4)	CHM 111: General Chemistry I
<i>CHM 261 - General Chemistry Laboratory</i> (1)	CHM 111: General Chemistry I
<i>CHM 262 - Principles of Chemistry II</i> (4)	CHM 112: General Chemistry II
<i>CHM 263 - Introductory Quantitative Analysis Laboratory</i> (1)	CHM 112: General Chemistry II
<i>CHM 330 - Organic Chemistry I</i> (4)	CHM 215: Organic Chemistry I
<i>CHM 331 - Organic Chemistry Laboratory I</i> (1)	CHM 215: Organic Chemistry I
<i>CHM 332 - Organic Chemistry II</i> (4)	CHM 216: Organic Chemistry II
<i>CHM 333 - Organic Chemistry Laboratory II</i> (1)	CHM 216: Organic Chemistry II
<i>CHM 350 - Fundamentals of Biochemistry</i> (4)	Completed at UM-Flint
<i>ENG 112 - Critical Writing and Reading</i> (3)	ENG 102- Eng Comp II
<i>MTH 121 - Calculus I</i> (4)	MTH 1140: Calculus I

<i>PHY 143 - College Physics I</i> (4)	PHY 121: College Physics I
<i>PSY 100 - Principles of Psychology</i> (3)	PSY 180: Introduction to Psychology
<i>SOC 100 - Introduction to Sociology</i> (3)	SOC 101: Principles of Sociology
One from:	
<i>BIO 301 - Biostatistics</i> (4)	Completed at UM-Flint
<i>MTH 272 - Introduction to Statistics</i> (4)	MTH 1120 Intro to Statistics or MTH 1121 Intro to Statistics with Algebra Support
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, umflint.edu/advising) 4. To view courses that transfer to UM-Flint, please visit transfer.umflint.edu For an official evaluation, apply for free at UMFLINT.EDU/APPLY.	