

Bachelor of Science - Biochemistry: Pre-Dental Concentration

Transfer Pathway Guide for Lansing Community College

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

University of Michigan-Flint

Lansing Community College

General Education Requirements

Course Equivalent

✓	General Education Requirements	Course Equivalent
	English Composition - 3 credit hours	ENGL 121- Composition I OR MTA satisfies
	English Composition (Comp) - 3 credit hours	ENGL 122- Wrt Lit & Ideas OR WRIT 122- Comp 2 OR COMM/SPCH 120- Dynamic Com OR COMM/SPCH 110- Com in Workplace OR COMM/SPCH 130- Public Speaking OR MTA satisfies
	Social Science (S) - 6 credit hours	PSYC 200 - Intro Psychology & SOCL 120 - Intro Sociology 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	MATH 151 - Calculus I OR MTA satisfies
	Natural Science (N/NL) - 4 credit hours w/ lab	CHEM 151: Gen Chemistry I & CHEM 161: Gen Chem Lab I 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

<i>CIT 100 - Technology Foundations (4)</i>	Completed at UM-Flint
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B. Chemistry (57-59 credits)

Course Equivalent

<i>CHM 260 - Principles of Chemistry I (4)</i>	CHEM 151: General Chemistry Lecture I
<i>CHM 261 - General Chemistry Laboratory (1)</i>	CHEM 161: General Chemistry Lab I
<i>CHM 262 - Principles of Chemistry II (4)</i>	CHEM 152: General Chemistry Lecture II
<i>CHM 263 - Introductory Quantitative Analysis Laboratory (1)</i>	CHEM 162: General Chemistry Lab II
<i>CHM 310 - Junior Seminar in Chemistry (3)</i>	Completed at UM-Flint
<i>CHM 330 - Organic Chemistry I (4)</i>	CHEM 251: Organic Chemistry Lecture I
<i>CHM 331 - Organic Chemistry Laboratory I (1)</i>	CHEM 192: Intro Organic Chem Lab
<i>CHM 332 - Organic Chemistry II (4)</i>	CHEM 252: Organic Chemistry Lecture II
<i>CHM 333 - Organic Chemistry Laboratory II (1)</i>	CHEM 272: Organic Chemistry Lab
<i>CHM 340 - Physical Chemistry I (3)</i>	Completed at UM-Flint
<i>CHM 341 - Physical Chemistry Laboratory (2)</i>	Completed at UM-Flint
<i>CHM 344 - Applications of Mathematics in Physical Chemistry (1)</i>	Completed at UM-Flint
<i>CHM 366 - Analytical Chemistry (3)</i>	Completed at UM-Flint
<i>CHM 367 - Quantitative Chemical Analysis Laboratory (2)</i>	Completed at UM-Flint
<i>CHM 410 - Senior Seminar in Chemistry (1)</i>	Completed at UM-Flint
<i>CHM 450 - Biochemistry I (3)</i>	Completed at UM-Flint
<i>CHM 451 - Biochemistry Laboratory I (2)</i>	Completed at UM-Flint
<i>CHM 452 - Biochemistry II (3)</i>	Completed at UM-Flint
<i>CHM 453 - Biochemistry Laboratory II (4)</i>	Completed at UM-Flint
<i>CHM 472 - Inorganic Chemistry (3)</i>	Completed at UM-Flint
One from:	
<i>CHM 372 - Green Chemistry (4)</i>	Completed at UM-Flint
<i>CHM 382 - Toxicology (4)</i>	Completed at UM-Flint
One of the following combinations:	
Either both:	

CHM 440 - Physical Chemistry II (3)	Completed at UM-Flint
CHM 443 - Introduction to Computational Chemistry (2)	Completed at UM-Flint
or both:	Completed at UM-Flint
CHM 460 - Advanced Analytical Chemistry (3)	Completed at UM-Flint
CHM 461 - Instrument Chemical Analysis Laboratory (2)	Completed at UM-Flint
or both:	Completed at UM-Flint
CHM 473 - Inorganic Chemistry Laboratory (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
BIO 113 - Principles of Biology (5)	BIOL 127: Cell Biology
BIO 326 - Cell Biology (4)	Completed at UM-Flint
BIO 328 - Genetics (4)	BIOL 270: Human Genetics
D. Mathematics (8 credits)	Course Equivalent
MTH 121 - Calculus I (4)	MATH 151: Calculus I
MTH 122 - Calculus II (4)	MATH 152 - Calculus II
E. Physics (8 credits)	Course Equivalent
One of the following sequences:	Completed at UM-Flint
PHY 143 - College Physics I (4)	PHYS 221: Introductory Physics I
PHY 145 - College Physics II (4)	PHY 222: Introductory Physics II
or	or
PHY 243 - Principles of Physics I (4)	PHYS 251: Physics I with Calculus
PHY 245 - Principles of Physics II (4)	PHYS 252: Physics II with Calculus
F. Pre-Pharmacy	Course Equivalent
BIO 111 - Organismal Biology (5)	BIOL 128: Organismal Biology
BIO 113 - Principles of Biology (5)	Core Major Requirement
BIO 326 - Cell Biology (4)	Core Major Requirement
BIO 328 - Genetics (4)	Core Major Requirement
One from:	
BIO 435 - Microbiology (4)	Completed at UM-Flint
CHM 260 - Principles of Chemistry I (4)	Core Major Requirement
CHM 261 - General Chemistry Laboratory (1)	Core Major Requirement
CHM 262 - Principles of Chemistry II (4)	Core Major Requirement
CHM 263 - Introductory Quantitative Analysis Laboratory (1)	Core Major Requirement
CHM 330 - Organic Chemistry I (4)	Core Major Requirement
CHM 331 - Organic Chemistry Laboratory I (1)	Core Major Requirement
CHM 332 - Organic Chemistry II (4)	Core Major Requirement
CHM 333 - Organic Chemistry Laboratory II (1)	Core Major Requirement
CHM 350 - Fundamentals of Biochemistry (4)	Completed at UM-Flint
ENG 112 - Critical Writing and Reading (3)	ENGL 122- Wrt Lit & Ideas OR WRIT 122- Comp 2
MTH 121 - Calculus I (4)	Core Major Requirement
PHY 143 - College Physics I (4)	Core Major Requirement
PSY 100 - Principles of Psychology (3)	PSYC 200: Introduction to Psychology

SOC 100 - Introduction to Sociology (3)	SOCL 120: Intro to Sociology
One from:	
BIO 301 - Biostatistics (4)	Completed at UM-Flint
G. Additional Requirements	Course Equivalent
Minimum cumulative GPA of 2.5 in CHM courses.	
Minimum of 25 credits in chemistry at the 300 level or higher taken at UM-Flint.	
All requirements of the College of Innovation and Technology (CIT) Bachelor of Science degree, including General Education requirements . (Please see faculty advisor to select complimentary General Education courses.)	
<ol style="list-style-type: none"> 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 <p style="text-align: center;">For an official evaluation, apply for free at UMFLINT.EDU/APPLY.</p>	