

BACHELOR'S DEGREE PROGRAM INFORMATION

Institution	Saginaw Valley State University
Degree/Program	Cell Biology, Molecular Biology, and Biomedical Sciences Major (B.S.)
Credits Required	120 credits (42 foundation credits – 28 required credits – 10 to 11 required elective credits –At least 10 additional 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 Biology	3 credits
	BIOL*182L	Cell and Molecular Biology Lab	1 credit
Organismal Biology	BIOL*181	Intro to Ecology, Evolution, Diversity/Ecology, Evolution, Diversity Lab	3 credits
	BIOL*181L		1 credit
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

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
General Education Category 3 and Program Requirement *See note below*	MATH*132B	Statistical Methods: Biostatistics	4 credits
General Education Category 3 and Program Requirement	MATH*140 OR MATH*161	Precalculus OR Calculus I	4 credits
General Education Category 4 and Program Requirement	PHYS*111/PHYS*111L and PHYS*112/PHYS*112L OR PHYS*211/PHYS*211L and PHYS*212/PHYS*212L	General Physics I (with lab) and General Physics II (with lab) OR	10 credits OR
		Analytical Physics I (with lab)	10 credits

		and Analytical Physics II (with lab)	
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ADVISING NOTES

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

*See Department Chair for possible course petition regarding MATH*132B

The Cell Biology, Molecular Biology, and Biomedical Sciences (CMB) Major is 1 of 3 majors offered in the Biology Department. Cell Biology, Molecular Biology, and Biomedical Sciences is an interdisciplinary major designed for, but not limited to students who have an interest in prokaryotic and eukaryotic cells, cellular processes, how processes affect development and the consequences of failed processes on the fate of cells and organisms, and cellular technologies to study such processes. In conjunction with foundational knowledge of biological principles and structured outlines of courses, graduates of this major should be well positioned to enter careers in technical laboratories, health sciences, and medicine. As an interdisciplinary major, Cell Biology, Molecular Biology, and Biomedical Major does not require a minor.

Biology and Chemistry minors may not be earned with this major.

Only one (1) credit from BIOL 494 or BIOL 495 may be applied to required elective credits. The following courses cannot be used toward the required electives in the major: BIOL 390, BIOL 393, BIOL 442, BIOL 491, BIOL 498, BIOL 499.

For more information about Transfer Pathways, please visit: <https://www.svsu.edu/transfer/transferguides/>