

Jumpstart Pathway

Cell Biology and Neuroscience, Biomedical Sciences Transfer to Montana State University

Associate of Science

Academic & Career Pathway: Science, Technology, Engineering and Math and/ or Health Sciences

Student:

Advisor:

Course/Semester (Prefix, Number and Title)	Credits	Fall/Spring Only	Milestone Course	Notes	Completed
Semester 1					
M 171 Calculus I	4		*	MSU required course	
PSYX 100 Introduction to Psychology	3			S&PS/H. Course offered every fall, spring, and summer semester	
BIOH 201 Anatomy and Physiology I	4		*		
CHMY 141 College Chemistry I with Lab	4	Fall	*	MSU required course	
WRIT 101 College Writing I	3			Course offered every fall, spring, and summer semester	
Total	18				
Semester 2					
CHMY 143 College Chemistry II with Lab	4	Spring	*	MSU required course	
BIOH 211 Anatomy and Physiology II	4		*		
SOCI 101 Intro to Sociology	3			S&PS/H. Course offered every fall, spring, and summer semester	
COMX 111 Intro to Public Speaking	3			MSU required course. Course offered every fall, spring, and summer semester	
Total	14				
Semester 3					
PHSX 205 College Physics I with Lab	4	Fall	*	MSU required course	
ARTZ 105 Visual Language Drawing, LIT 110 Intro to Literature, or PHL 110 Intro to Ethics	3			H&F course Recommended courses also meet core requirements at MSU. Any HC H&FA course will meet this requirement for HC.	
CHMY 221 Organic Chemistry I with Lab	5	Fall	*	MSU required course. Should meet CHMY 321 requirement per CCN.	
NASX 105 Intro to Native American Studies	3			D & CHAI. Course offered every fall, spring, and summer semester	

	Total	15			
Semester 4					
ARTZ 105 Visual Language Drawing, LIT 110 Intro to Literature, or PHL 110 Intro to Ethics	3			H&F course Recommended courses also meet core requirements at MSU. Any HC H&FA course will meet this requirement for HC.	
CHMY 223 Organic Chemistry II with lab	5	Spring	*	MSU required course. Should meet CHMY 323 requirement per CCN.	
PHSX 207 College Physics II with Lab	4	Spring	*	MSU required course	
BIOB 260 Cellular and Molecular Biology	4	Spring	*	MSU required course	
Total	16				

***Students must earn a C- or better in order to successfully complete a course.**

see notes next page

Notes: This track focuses on cellular biology science, but is designed in such a way that it also follows many of the recommendations for health profession pathways, providing flexibility to where students may decide to take their education – towards science/ research/ teach, or towards health professional school.

Career outlook:

The curriculum of the biomedical sciences option provides a strong background for students who plan on a career in medicine or other health profession. This option is also for students that are interested in a biomedical sciences career in research or teaching in cell biology, molecular biology, developmental biology, or neuroscience. The curriculum provides the opportunity to take the courses necessary to make a competitive application to health profession school, graduate school or to obtain a technical position. The curriculum has sufficient breadth to introduce the student to a wide range of disciplines, but is flexible. Employment opportunities, especially at the technical level, are available with a B.S. in Cell Biology and Neuroscience. However, this curriculum is designed to better prepare students for professional or graduate training.

MSU Biomedical Science Option degree requirements <http://catalog.montana.edu/undergraduate/letters-science/cell-biology-neuroscience/biomedical-sciences-option/>

STAT 216 Intro to Statistics and WRIT 201 College Writing II are required for the MSU degree, but not required for the HC AS degree. Students can take them at HC in addition to the courses shown on the pathway above if they would like to take the courses at HC before transferring to MSU.

Students can also participate in optional undergraduate research in their second year at Helena College with BIOB 290. Please see a biology faculty mentor if interested in this optional research option.

63 credits to degree

Students that complete the Helena College General Education Core will earn a Certificate of General Studies.

Certificate of General Studies		
Category	Credits	Complete
Natural Science with Lab		
Natural Science		
Mathematics		
Written Communication		
Oral Communication		
Social & Psychological Sciences/History		
Social & Psychological Sciences/History		
Humanities/Fine Arts		
Humanities/Fine Arts		
Cultural Diversity		
Total Credits (30-32)		