

# BIOTECHNOLOGY: AAS

## Full-Time Academic Plan

**Missouri Civics Examination.** Students entering college for the very first time in fall 2019 and who intend to complete an associate's degree must successfully complete a civics examination. Information on who is eligible for a waiver

can be found on the STLCC website (<https://stlcc.edu/programs-academics/missouri-civics-exam.aspx>).

**PLEASE NOTE:** If you originally enrolled at STLCC prior to Spring 2024, you may need to view an archived catalog (<https://www.stlcc.edu/programs-academics/course-catalog/>) for your correct program requirements. Please speak with an advisor or the program coordinator for more information.

Code	Title	Hours	Prerequisites	Milestones/Notes
<b>First Year</b>				
<b>Fall</b>				
ENG 101	College Composition I (MOTR ENGL 100)	3	Placement score or ENG 030 or ENG 070 with a grade of "C" or better or recommendation of department and Reading Proficiency or concurrent enrollment in RDG 079	
MTH 160	Precalculus Algebra (MOTR MATH 130)	3	MTH 140 (or MTH 140S) with a grade of "C" or better or satisfactory score on placement test, and Reading Proficiency	
CHM 105	General Chemistry I (MOTR CHEM 150L)	5	MTH 140 (or MTH 140S or at least one and a half years of high school algebra) and CHM 101 with a minimum grade of "C" or one year of high school chemistry, and Reading Proficiency	
BIO 140	Principles of Biology I (MOTR BIOL 150L)	5	MTH 140 or MTH 140S or MTH 160S with a minimum grade of "C" or placement into MTH 160, and Reading Proficiency	
	<b>Credit Hours</b>	<b>16</b>		
<b>Spring</b>				
BIO 152	Quantitative Methods in Biotechnology	2	MTH 140 (or MTH 140S) with a minimum grade of "C" and CHM 101 with a minimum grade of "C" or CHM 105 with a minimum grade of "C" and Reading Proficiency	
CHM 106	General Chemistry II	5	CHM 105 and (MTH 160 or MTH 160A or MTH 160B or MTH 160C or MTH 160S) with minimum grades of "C" or test in MTH 170 or higher on the Math placement test and Reading Proficiency	
BIO 104	Basic Laboratory Methods for Biotechnology	3	Placement into MTH 140 or higher or completion of MTH 140S with a minimum grade of "C", and Reading Proficiency	
Social & Behavioral Sciences: Civics Requirement		3		
	<b>Credit Hours</b>	<b>13</b>		
<b>Second Year</b>				
<b>Fall</b>				
BIO 157	Good Laboratory Practices, Compliance, and Bioinformatic Principles	3	BIO 104 or BIO 111 or BIO 124 or BIO 140 or BIO 207 or BIO 225 with a minimum grade of "C", and Reading Proficiency	

BIO 218	Microbiology for Biotechnology	4	BIO 140 with a minimum grade of "C", CHM 105 with a minimum grade of "C", and Reading Proficiency	
BIO 219	Biotechnology I	5	BIO 104 with a minimum grade of "C" or concurrent or prior enrollment in BIO 180 with a minimum grade of "C", BIO 140 with a minimum grade of "C", and Reading Proficiency	
BIO 226	Advanced Topics in Biotechnology	3	Concurrent or prior enrollment in BIO 219 with a minimum grade of "C" and Reading Proficiency	
	<b>Credit Hours</b>	<b>15</b>		
<b>Spring</b>				
BIO 220	Biotechnology II	5	BIO 219 with a minimum grade of "C" and Reading Proficiency	
BIO 226	Advanced Topics in Biotechnology	3	Concurrent or prior enrollment in BIO 219 with a minimum grade of "C" and Reading Proficiency	
BIO 226	Advanced Topics in Biotechnology	3	Concurrent or prior enrollment in BIO 219 with a minimum grade of "C" and Reading Proficiency	
BIO 228	Research and Presentation Skills for the Life Sciences	2	Entry into this course must be approved by the program coordinator, and Reading Proficiency	
BIO 221	Workplace Learning: Biotechnology	3	Concurrent or prior enrollment in BIO 220 with a minimum grade of "C" and Reading Proficiency	
	<b>Credit Hours</b>	<b>16</b>		
	<b>Total Credit Hours</b>	<b>60</b>		