

BIOTECHNOLOGY, ASSOCIATE IN APPLIED SCIENCE

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 our website: <https://stlcc.edu/programs-academics/missouri-civics-exam.aspx>.

PLEASE NOTE: If you originally enrolled at STLCC prior to Fall 2022, 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
First Year				
Fall				
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	CHM 105 (or concurrent enrollment) and Reading Proficiency	
	Credit Hours	16		
Spring				
BIO 152	Quantitative Methods in Biotechnology	2	MTH 140 (or MTH 140S) and CHM 101 or CHM 105 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	MTH 030, MTH 040, or MTH 050 with a minimum grade of "C" and Reading Proficiency	
Social & Behavioral Sciences: Civics Requirement		3		
	Credit Hours	13		
Second Year				
Fall				
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 grade of 'C' or better, and Reading Proficiency	
BIO 218	Microbiology for Biotechnology	4	BIO 140, CHM 105 and Reading Proficiency	

BIO 219	Biotechnology I	5	BIO 104, BIO 140, BIO 152, GE 101, all with a minimum grade of "C" and Reading Proficiency	
BIO 226	Advanced Topics in Biotechnology	3	Prior or concurrent enrollment in BIO 219 or consent of the program coordinator or department chair, and Reading Proficiency	
	Credit Hours	15		
Spring				
BIO 220	Biotechnology II	5	BIO 219 or consent of the instructor and Reading Proficiency	
BIO 226	Advanced Topics in Biotechnology	3	Prior or concurrent enrollment in BIO 219 or consent of the program coordinator or department chair, and Reading Proficiency	
BIO 226	Advanced Topics in Biotechnology	3	Prior or concurrent enrollment in BIO 219 or consent of the program coordinator or department chair, 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	Prior or concurrent enrollment in BIO 220 and Reading Proficiency	
	Credit Hours	16		
	Total Credit Hours	60		