

FOCUS AREA: BIOLOGY

This focus area is intended for students who plan to major in Biology at a 4 year college or university, after completion of their associate's degree at St. Louis Community College. Your official degree that you will be pursuing at St. Louis Community College within this focus area is the Associate in Science - General STEM Transfer Studies (<http://catalog.stlcc.edu/programs/general-stem-transfer-studies-associate-science/#programrequirementstext>).

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 Fall 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
First Year				
Fall				
ENG 101 or 102 or 103	College Composition I (MOTR ENGL 100) or College Composition II (MOTR ENGL 200) or Report Writing (MOTR ENGL 110)	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	
Elective		4		Check with transfer institution for best option.
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	
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	
	Credit Hours	17		
Spring				
Elective		4		Check with transfer institution for best option.
BIO 141	Principles of Biology II	4	BIO 140 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	
	Credit Hours	13		
Second Year				
Fall				
Elective		4		Check with transfer institution for best option.
XXX xxx	Social & Behavioral Sciences: Civics Requirement (http://catalog.stlcc.edu/general-education/)	3		
MCE 100	Missouri Civics Examination	0		

PHY 111	College Physics I (MOTR PHYS 150L)	4	MTH 160 (or MTH 160S) with a minimum grade of "C" and Reading Proficiency	
CHM 206	Organic Chemistry I	3	CHM 106 with a minimum grade of "C" and Reading Proficiency	
CHM 210	Organic Chemistry Lab I	2	Concurrent or prior enrollment of CHM 206 with a minimum grade of "C" and Reading Proficiency	
	Credit Hours	16		
Spring				
MTH 210	Analytic Geometry and Calculus I	5	MTH 185 or (MTH 160 or MTH 160S and MTH 170) with grades of "C" or better or satisfactory score on placement test and Reading Proficiency	
CHM 207	Organic Chemistry II	3	CHM 206 with a minimum grade of "C" and Reading Proficiency	
CHM 211	Organic Chemistry Lab II	2	Concurrent or prior enrollment in CHM 207 with a minimum grade of "C" and CHM 210 with a minimum grade of "C" and Reading Proficiency	
Elective		4		Check with transfer institution for best option.
	Credit Hours	14		
	Total Credit Hours	60		

*Click on the hyperlinked course number to view additional information about the course.

**Students completing a course that has been assigned a MOTR number may transfer that course to any public institution in Missouri. Those who complete CORE 42 requirements will have that verification on their transcript.

*** It is your responsibility to verify that the courses listed above will transfer to the four-year institution of your choice. Maximize your transfer credits/classes by meeting with an academic advisor.

This academic plan is a recommended sequence for this pathway. It serves as a **general guideline** to help you build a course schedule each term that supports your timely completion. The College has made every effort to ensure its accuracy. However, **the map is not a substitute for academic advisement—contact your advisor if you have any questions about your degree requirements.**

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

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This academic plan is for students who intend to transfer to the University of Missouri - St. Louis (UMSL) and major in the Bachelor of Arts in Biology.

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	This fulfills the written communication requirement.
XXX xxx	MOTR Social & Behavioral Science (http://catalog.stlcc.edu/general-education/)	3		This fulfills part of the elective requirement.

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	This fulfills part of the natural science requirement.
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	This fulfills part of the natural science requirement.
	Credit Hours	16		
Spring				
MTH 210	Analytic Geometry and Calculus I	5	MTH 185 or (MTH 160 or MTH 160S and MTH 170) with grades of "C" or better or satisfactory score on placement test and Reading Proficiency	This fulfills the mathematics requirement.
BIO 141	Principles of Biology II	4	BIO 140 with a minimum grade of "C" and Reading Proficiency	This fulfills part of the elective requirement.
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	This fulfills part of the elective requirement.
	Credit Hours	14		
Summer				
XXX xxx	MOTR Social and Behavioral Science (http://catalog.stlcc.edu/general-education/)	3		This fulfills part of the elective requirement.
	Credit Hours	3		
Second Year				
Fall				
MCE 100	Missouri Civics Examination	0		
HST 101 or 102 or 137 or 138 or PSC 101	United States History to 1865 (MOTR HIST 101) or United States History from 1865 to the Present (MOTR HIST 102) or African American History through Reconstruction (MOTR HIST 101AA) or African American History from Reconstruction to the Present (MOTR HIST 102AA) or Introduction to American Politics (MOTR POSC 101)	3	Reading Proficiency or concurrent enrollment in RDG 079	This fulfills the civics requirement.
CHM 206	Organic Chemistry I	3	CHM 106 with a minimum grade of "C" and Reading Proficiency	This fulfills part of the elective requirement.
CHM 210	Organic Chemistry Lab I	2	Concurrent or prior enrollment of CHM 206 with a minimum grade of "C" and Reading Proficiency	This fulfills part of the elective requirement.
PHY 111	College Physics I (MOTR PHYS 150L)	4	MTH 160 (or MTH 160S) with a minimum grade of "C" and Reading Proficiency	This fulfills part of the elective requirement.
	Credit Hours	12		

Spring				
BIO 225	Genetics	3	BIO 140 with a minimum grade of "C" and Reading Proficiency	This fulfills part of the elective requirement.
BIO 235	Genetics Laboratory	2	BIO 140 with a minimum grade of "C", concurrent or prior enrollment in BIO 225 with a minimum grade of "C", and Reading Proficiency	This fulfills part of the elective requirement.
PHY 112	College Physics II	4	PHY 111 with a minimum grade of "C" and Reading Proficiency	This fulfills part of the elective requirement.
PHL 103 or ENG 231	World Religions (MOTR RELG 100) or World Literature (MOTR LITR 200)	3	Reading Proficiency or concurrent enrollment in RDG 079	This fulfills part of the elective requirement and satisfies UMSL's cultural diversity requirement.
Foreign Language		4		This fulfills part of the elective requirement. Foreign Language courses are required for all Bachelor of Arts degrees at UMSL. If a student intends to major in the Bachelor of Science in Biology, other options could be any MOTR Humanities or COM 107. Check with an advisor for the best option.
	Credit Hours	16		
	Total Credit Hours	61		

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