

# FOCUS AREA: CHEMISTRY

This focus area is intended for students who plan to major in Chemistry 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 (<https://catalog.stlcc.edu/programs/general-stem-transfer-studies-associate-science/#programrequirementstext>).

## Focus Area: Chemistry Full-Time Academic Plan

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.**

**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 (<http://catalog.stlcc.edu/archived-catalogs/>)** 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>				
MCE 100	Missouri Civics Examination	0		
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	Social & Behavioral Sciences: Civics Requirement ( <a href="http://catalog.stlcc.edu/general-education/">http://catalog.stlcc.edu/general-education/</a> )	3		This fulfills the civics requirement.
MTH 185	Precalculus (MOTR MATH 150)	5	MTH 140 (or MTH 140S) with a grade of "C" or better or satisfactory score on placement test, and Reading Proficiency	Required if student does not place into MTH 210. See advisor for alternative course if needed. This fulfills part of the elective 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.
	<b>Credit Hours</b>	<b>16</b>		
<b>Spring</b>				
XXX xxx	MOTR Humanities and Fine Arts or MOTR Oral Communication ( <a href="http://catalog.stlcc.edu/general-education/">http://catalog.stlcc.edu/general-education/</a> )	3		This fulfills part of the elective requirement.
XXX xxx	MOTR Social & Behavioral Sciences ( <a href="http://catalog.stlcc.edu/general-education/">http://catalog.stlcc.edu/general-education/</a> )	3		This fulfills part of the elective requirement.
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.

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.
	<b>Credit Hours</b>	<b>16</b>		
<b>Second Year</b>				
<b>Fall</b>				
MTH 220	Analytic Geometry and Calculus II	5	MTH 210 with a grade of "C" or better and Reading Proficiency	This fulfills part of the elective requirement.
PHY 122	Engineering Physics I (MOTR PHYS 200L)	5	MTH 210 with a minimum grade of "C" and Reading Proficiency	This fulfills part of the natural science 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.
	<b>Credit Hours</b>	<b>15</b>		
<b>Spring</b>				
MTH 230	Analytic Geometry and Calculus III	5	MTH 220 with a grade of "C" or better and Reading Proficiency	This fulfills part of the elective requirement.
PHY 223	Engineering Physics II	5	PHY 122 and MTH 220 with a minimum grades of "C" and Reading Proficiency	This fulfills part of the elective requirement.
CHM 207	Organic Chemistry II	3	CHM 206 with a minimum grade of "C" and Reading Proficiency	This fulfills part of the elective requirement.
	<b>Credit Hours</b>	<b>13</b>		
	<b>Total Credit Hours</b>	<b>60</b>		