

**CSCU Pathway Transfer Degree: Chemistry Studies, A.A.**  
**Capital Community College**

**Campus contact for this program:** Professor Guillermo Muhlmann, Ph. D., [gmuhlmann@capitalcc.edu](mailto:gmuhlmann@capitalcc.edu)

**With this degree you will be able to transfer to the following majors:**

<b>At Central Connecticut State University:</b>	<b>Chemistry – General Program, B.S.</b> <b>Chemistry – American Chemical Society Certified, B.S.</b>
<b>At Southern Connecticut State University:</b>	<b>Chemistry, B.S.</b> <b>Chemistry – American Chemical Society Approved, B.S.</b>
<b>At Western Connecticut State University:</b>	<b>Chemistry – Non-American Chemical Society Approved, B.A.</b> <b>Chemistry – American Chemical Society Approved, B.A.</b>
<b>At Charter Oak State College:</b>	<b>General Studies – Chemistry Concentration, B.A.</b>

Here is the recommended course of study for the **Chemistry Studies Transfer Degree**. If you are studying part time, simply follow the order of the courses listed here. Note that not all courses will be available every semester. You will notice that in many instances you will be able to choose the specific course you will take from within a category. For a list of the courses from each category that you can choose from, go to [Appendix \(PDF\)](#).

**First Semester:**

**14-15 credits**

ENG 101 Composition	3 credits
MAT 254 Calculus I	4 credits
CHE 121 General Chemistry I	4 credits
Unrestricted Elective*	3-4 credits

(Suggest MAT 186 Pre-Calculus if not ready to enroll in MAT 354 Calculus I this semester)

**Second Semester:**

**17 credits**

CHE 122 General Chemistry II	4 credits
MAT 256 Calculus II	4 credits
Choose one <b>Written Communication II</b> course	3 credits
Choose one <b>Historical Knowledge and Understanding</b> course	3 credits
Choose one <b>Aesthetic Dimensions I</b> course	3 credits

**Third Semester:**

**14 credits**

CHE 211 Organic Chemistry I	4 credits
PHY 221 Calculus-based Physics I**	4 credits
Choose one <b>Social Phenomena I</b> course	3 credits
Unrestricted Elective*	3 credits

**Fourth Semester:**

**17 credits**

CHE 212 Organic Chemistry II	4 credits
PHY 222 Calculus-based Physics II**	4 credits
Choose one <b>Social Phenomena II</b> course	3 credits
choose one <b>Aesthetic Dimensions II</b> course	3 credits
Unrestricted Elective*	0-3 credits

If you have taken PHY 110 or MAT 186,  
you will not need this elective

\*\*Capital does not offer these courses, so in order to complete this degree, you will have to take them at another institution. Also see note below\*\*\*

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### Here is another way to look at the degree, by requirements

Unless a course is specifically designated, such as ENG 101 Composition for **Written Communication I**, you will have a choice about which course you take. For a list of the courses from each category that you can choose from, go to [Appendix \(PDF\)](#).

<b>General Education Requirements:</b>	<b>33 credits</b>
<b>Written Communication I:</b>	3 credits
ENG 101 Composition	
<b>Written Communication II (select one):</b>	3 credits
<b>Scientific Reasoning:</b>	4 credits
CHE 121 General Chemistry I	
<b>Scientific Knowledge and Understanding:</b>	4 credits
CHE 122 General Chemistry II	
<b>Quantitative Reasoning:</b>	4 credits
MAT 254 Calculus I	
<b>Historical Knowledge and Understanding (select one):</b>	3 credits
<b>Social Phenomena I (select one):</b>	3 credits
<b>Social Phenomena II (select one):</b>	3 credits
<b>Aesthetic Dimensions I (select one):</b>	3 credits
<b>Aesthetic Dimensions II (select one):</b>	3 credits
<b>Major Program Requirements:</b>	<b>27-28 credits</b>
CHE 211 Organic Chemistry I	4 credits
CHE 212 Organic Chemistry II	4 credits
PHY 221 Calculus-based Physics I** ***	4 credits
PHY 222 Calculus-based Physics II** ***	4 credits
MAT 256 Calculus II	4 credits

\*\*Capital does not offer these courses, so in order to complete this pathway, you will have to take them at another institution.  
 \*\*\*Capital does offer PHY 121 General Physics I and PHS 122 General Physics II. Students who complete this sequence and not the sequence of Calculus-Based Physics will be able to transfer to Central Connecticut State University's General Program and to the program at Charter Oak State College.

**Unrestricted Electives:\*** **9 credits**

\*You are free to choose any courses at or above 100-level to complete unrestricted electives, although you may need to use these credits to take courses that prepare you for required courses in the degree program. You should also consider using unrestricted electives to meet foreign language requirements for your program. You can also complete other General Education requirements for CCSU, SCSU, WCSU, and COSC—but not more than two requirements for ECSU. You are encouraged to meet with your advisor to determine which courses to select.

**Chemistry Studies Transfer Degree Total:** **62 credits**

**In order to graduate and be guaranteed admission to a State University or to Charter Oak State College, you must earn an overall 2.0 grade point average.**

**These requirements are effective if you declared this major for the 2016/17 academic year.**

