CSCU Pathway Transfer Degree: Chemistry Studies, A.A.
Capital Community College
Catalog Year 2020-21

Please contact a campus advisor for this program
Professor Guillermo Muhlmann, Ph. D., gmuhlmann@capitalcc.edu

These requirements are effective if you declared the Transfer Ticket: CSCU Pathway Transfer Degree: Chemistry Studies, A.A. major for the 2016/17, 2017/18, 2018/19, 2019/20, or 2020/21 academic years.

With this degree, you will be able to transfer to the following majors. Follow this link for important information about when and how to apply for transfer to a State University or Charter Oak State College.

- At Central Connecticut State University
  - Chemistry – General Program, B.S.
  - Chemistry – American Chemical Society Certified, B.S.

- At Southern Connecticut State University
  - Chemistry, B.S.
  - Chemistry – American Chemical Society Approved, B.S.

- At Western Connecticut State University
  - Chemistry – Non-American Chemical Society Approved, B.A.
  - Chemistry – American Chemical Society Approved, B.A.

Here is the recommended course of study for the CSCU Pathway Transfer Degree: Chemistry Studies, A.A. 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).

<table>
<thead>
<tr>
<th>First Semester</th>
<th>14-15 credits</th>
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<tbody>
<tr>
<td>ENG 101 Composition</td>
<td>3 credits</td>
</tr>
<tr>
<td>MAT 254 Calculus I</td>
<td>4 credits</td>
</tr>
<tr>
<td>CHE 121 General Chemistry I</td>
<td>4 credits</td>
</tr>
<tr>
<td>Unrestricted Elective*</td>
<td>3-4 credits</td>
</tr>
<tr>
<td>(Suggest MAT 186 Pre-Calculus if not ready to enroll in MAT 354 Calculus I this semester)</td>
<td></td>
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<table>
<thead>
<tr>
<th>Second Semester</th>
<th>17 credits</th>
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</thead>
<tbody>
<tr>
<td>CHE 122 General Chemistry II</td>
<td>4 credits</td>
</tr>
<tr>
<td>MAT 256 Calculus II</td>
<td>4 credits</td>
</tr>
<tr>
<td>Choose one Written Communication II course</td>
<td>3 credits</td>
</tr>
<tr>
<td>Choose one Historical Knowledge and Understanding course</td>
<td>3 credits</td>
</tr>
<tr>
<td>Choose one Aesthetic Dimensions I course</td>
<td>3 credits</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Third Semester</th>
<th>14 credits</th>
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<tbody>
<tr>
<td>CHE 211 Organic Chemistry I</td>
<td>4 credits</td>
</tr>
<tr>
<td>PHY 221 Calculus-based Physics I**</td>
<td>4 credits</td>
</tr>
<tr>
<td>Choose one Social Phenomena I course</td>
<td>3 credits</td>
</tr>
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During your last semester at CCC, apply for graduation by the dates found here.

Fourth Semester                      17 credits

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

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

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).

General Education Requirements       33 credits

- Written Communication I
  ENG 101 Composition
  Written Communication II (select one)
  Written Communication II

- Scientific Reasoning
  CHE 121 General Chemistry I

- Scientific Knowledge and Understanding
  CHE 122 General Chemistry II

- Quantitative Reasoning
  MAT 254 Calculus I

- Historical Knowledge and Understanding (select one)

- Social Phenomena I (select one)

- Social Phenomena II (select one)

- Aesthetic Dimensions I (select one)

- Aesthetic Dimensions II (select one)

Major Program Requirements           27-28 credits

- 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. Also see note below.

***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 at Central, Eastern and Western Connecticut State Universities or to begin work on completing a minor. Central
Connecticut State University does not require that you complete a minor with this major. You can also complete other General Education requirements for CCSU, SCSU, WCSU, and COSC—but not ECSU. You are encouraged to meet with your advisor to determine which courses to select.

CSCU Pathway Transfer Degree: Chemistry Studies, A.A. Credit 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.