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, or 2018/19 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).

### 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

*If you have not taken physics in high school, you should use this elective to take PHY 110 Introductory Physics.

### Second Semester 17 credits

- CHE 122 General Chemistry II 4 credits
- MAT 256 Calculus II 4 credits
- Choose one Written Communication II course 3 credits
- Choose one Historical Knowledge and Understanding course 3 credits
- Choose one Aesthetic Dimensions course 3 credits

### Third Semester 14 credits

- CHE 211 Organic Chemistry I** 4 credits
- PHY 221 Calculus-based Physics I 4 credits

Begin the transfer application process in your third semester or the semester before you plan to graduate. FAFSA becomes available October 1.
Choose one Social Phenomena course 3 credits
Unrestricted Elective* 3 credits

During your last semester at MXCC, apply for graduation by the dates found here.

Fourth Semester 14-17 credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHE 212 Organic Chemistry II**</td>
<td>4 credits</td>
</tr>
<tr>
<td>PHY 222 Calculus-based Physics II</td>
<td>4 credits</td>
</tr>
<tr>
<td>Choose another Social Phenomena course</td>
<td>3 credits</td>
</tr>
<tr>
<td>Choose one Oral Communication course</td>
<td>3 credits</td>
</tr>
<tr>
<td>Unrestricted Elective*</td>
<td>0-3 credits</td>
</tr>
</tbody>
</table>

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

General Education Requirements 33 credits

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).

Written Communication I
ENG 101 Composition 3 credits

Written Communication II (select one) 3 credits

Scientific Reasoning 4 credits
CHE 121 General Chemistry I

Scientific Knowledge and Understanding 4 credits
CHE 122 General Chemistry II

Quantitative Reasoning 4 credits
MAT 254 Calculus I

Historical Knowledge and Understanding (select one) 3 credits

Social Phenomena (select two) 6 credits

Aesthetic Dimensions (select one) 3 credits

Oral Communication (select one) 3 credits

Major Program Requirements 20 credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHE 211 Organic Chemistry I**</td>
<td>4 credits</td>
</tr>
<tr>
<td>CHE 212 Organic Chemistry II**</td>
<td>4 credits</td>
</tr>
<tr>
<td>PHY 221 Calculus-based Physics I</td>
<td>4 credits</td>
</tr>
<tr>
<td>PHY 222 Calculus-based Physics II</td>
<td>4 credits</td>
</tr>
<tr>
<td>MAT 256 Calculus II</td>
<td>4 credits</td>
</tr>
</tbody>
</table>

**Middlesex does not offer these two courses, so in order to complete this pathway, you will have to take them at another institution.

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.