## TRANSFER TICKET

CSCU Pathway Transfer Degree: Physics Studies, A.A.  
Middlesex Community College  
Catalog Year 2019-20

Please contact a campus advisor for this program:  
Professor Mark Busa, MBusa@mxcc.edu  
Professor Donna Bontatibus, dbontatibus@mxcc.commnet.edu

These requirements are effective if you declared the Transfer Ticket: CSCU Pathway Transfer Degree: Physics Studies. A.A. major for the 2017/18, 2018/19, or 2019/20 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: Physics, B.S.
- At Southern Connecticut State University: Physics, B.S.
  Physics, B.A.

Here is the recommended course of study for the CSCU Pathway Transfer Degree: Physics 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

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ENG 101 Composition</td>
<td>3</td>
</tr>
<tr>
<td>MAT 254 Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>CHE 121 General Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>Unrestricted Elective*#</td>
<td>3-4</td>
</tr>
</tbody>
</table>

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

### Second Semester: 15 credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>CHE 122 General Chemistry II</td>
<td>4</td>
</tr>
<tr>
<td>MAT 256 Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>PHY 221 Calculus-Based Physics I</td>
<td>4</td>
</tr>
<tr>
<td>Choose one Historical Knowledge and Understanding</td>
<td>3</td>
</tr>
</tbody>
</table>

### Third Semester: 17 credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>MAT 268 Calculus III: Multivariable</td>
<td>4</td>
</tr>
<tr>
<td>PHY 222 Calculus-Based Physics II</td>
<td>4</td>
</tr>
<tr>
<td>Choose one Social Phenomena I course</td>
<td>3</td>
</tr>
<tr>
<td>Choose one Aesthetic Dimensions course</td>
<td>3</td>
</tr>
<tr>
<td>Choose one Social Phenomena II course</td>
<td>3</td>
</tr>
</tbody>
</table>

Begin the transfer application process in your third semester or the semester before you plan to graduate. FAFSA becomes available October 1.

### During your last semester at MxCC, apply for graduation by the dates found here.
Fourth Semester: 15 credits
Choose one Written Communication II course 3 credits
Choose one Oral Communication course 3 credits
MAT 285 Differential Equations 3 credits
Choose one Additional General Education II –
  Global Knowledge course 3 credits
Choose one Addition General Education I—
  Creativity course 3 credits

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

General Education Requirements: 39 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: 3 credits
  ENG 101 Composition

Written Communication II (select one): 3 credits

Scientific Reasoning: 4 credits
  CHE 121 General Chemistry I

Scientific Knowledge and Understanding (select one): 4 credits
  CHE 122 General Chemistry II

Quantitative Reasoning (select one): 4 credits
  MAT 254 Calculus I

Historical Knowledge and Understanding (select one): 3 credits

Social Phenomena I (select one): 3 credits

Aesthetic Dimensions (select one): 3 credits

Social Phenomena II (select one): 3 credits

Oral Communication (select one): 3 credits

Additional General Education I – Creativity (select one): 3 credits

Additional General Education II – Global Knowledge (select one): 3 credits

Major Program Requirements: 19 credits
  MAT 254 Calculus II 4 credits
  MAT 268 Calculus III: Multivariable 4 credits
  MAT 285 Differential Equations 3 credits
  PHY 221 Calculus-Based Physics I 4 credits
  PHY 222 Calculus-Based Physics II 4 credits

Unrestricted Electives:* 3 credits

*If you have not taken Physics in high school, you should use this elective to take PHY 110 Introductory Physics.
*You are free to choose any courses at or above 100-level to complete unrestricted electives, although you may need to use some these credits to take a math course that prepares you for the required level of math in your program. You should also consider using unrestricted electives to begin work on completing a minor. Central Connecticut State University will require that you complete a minor by earning at least 18 credits in one area outside your major field; you must complete at least 9 of those minor credits at Central. You can also complete other General
Education requirements for Central, Southern and Western Connecticut State Universities and Charter Oak State College—but not Eastern Connecticut State University. Your advisor will help you to determine which courses to select.

**CSCU Pathway Transfer Degree: Physics Studies, A.A. Credit Total: 61 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.