Please contact a campus advisor for this program: Professor Chris Hamelin, CHamelin@manchestercc.edu

These requirements are effective if you declared the Transfer Ticket CSCU Pathway Transfer Degree: Mathematics Studies, A.A. major for the 2016/17 through 2022/23 academic year.

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.

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

ENG 101 Composition 3 credits
MAT 186 Pre-Calculus** 4 credits
Choose one Scientific Reasoning course from 4 credits
   BIO 121 General Biology I
   CHE 121 General Chemistry I
   PHY 121 General Physics I
   PHY 221 Calculus Based Physics I (Prerequisite MAT 254 and PHY 110 or High School Physics)
Choose one Aesthetic Dimensions course 3 credits

Second Semester 14 credits

MAT 254 Calculus I 4 credits
Choose one Written Communication II course 3 credits
Choose one Scientific Knowledge and Understanding course; you must choose the second course in the sequence 4 credits

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you began in the first semester; choose from
BIO 122 General Biology II
CHE 122 General Chemistry II
PHY 122 General Physics II
 PHY 222 Calculus Based Physics II
Unrestricted Elective* 3 credits

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

Third Semester 16 credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAT 256 Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>Choose one from</td>
<td>3</td>
</tr>
<tr>
<td>CSC 124 Programming Logic and Design with Python</td>
<td></td>
</tr>
<tr>
<td>CSC 125 Programming Logic and Design with C++</td>
<td></td>
</tr>
<tr>
<td>Choose one Social Phenomena course</td>
<td>3</td>
</tr>
<tr>
<td>Choose one Historical Knowledge and Understanding course</td>
<td>3</td>
</tr>
<tr>
<td>Unrestricted Elective*</td>
<td>3</td>
</tr>
</tbody>
</table>

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

Fourth Semester 17 credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAT 268 Calculus III: Multivariable</td>
<td>4</td>
</tr>
<tr>
<td>Choose one from</td>
<td>4</td>
</tr>
<tr>
<td>MAT 274 Linear Algebra</td>
<td></td>
</tr>
<tr>
<td>MAT 286 Differential Equations</td>
<td></td>
</tr>
<tr>
<td>MAT 287 Foundations of Mathematics</td>
<td></td>
</tr>
<tr>
<td>Choose one Continued Learning and Information Literacy course</td>
<td>3</td>
</tr>
<tr>
<td>Choose one Oral Communication course</td>
<td>3</td>
</tr>
<tr>
<td>Unrestricted Elective*</td>
<td>3</td>
</tr>
</tbody>
</table>

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 3 credits
ENG 101 Composition

Written Communication II (select one) 3 credits

Scientific Reasoning (select one) 4 credits
BIO 121 General Biology I
CHE 121 General Chemistry I
PHY 121 General Physics I
PHY 221 Calculus Based Physics I (Prerequisite MAT 254 and PHY 110 or High School Physics)

Scientific Knowledge and Understanding (select one in the same sequence as Scientific Reasoning) 4 credits
BIO 122 General Biology II
CHE 122 General Chemistry II
PHY 122 General Physics II
PHY 222 Calculus Based Physics II

Quantitative Reasoning (select one) 4 credits
  MAT 186 Pre-Calculus**

Historical Knowledge and Understanding (select one) 3 credits

Social Phenomena (select one) 3 credits

Aesthetic Dimensions (select one) 3 credits

Continued Learning and Information Literacy (select one) 3 credits

Oral Communication (select one) 3 credits

Major Program Requirements 19 credits

MAT 254 Calculus I 4 credits
MAT 256 Calculus II 4 credits
MAT 268 Calculus III: Multivariable 4 credits
Choose one from
  MAT 274 Linear Algebra 4 credits
  MAT 286 Differential Equations 4 credits
  MAT 287 Foundations of Mathematics 4 credits

Choose one from
  CSC 124 Programming Logic and Design with Python 3 credits
  CSC 125 Programming Logic and Design with C++

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 will require that you complete a minor for the general math degree (not for the Actuarial Science or Statistics Specializations) 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 CCSU, SCSU, WCSU, and COSU; and up to two additional General Education requirements for ECSU. You are encouraged to meet with your advisor to determine which courses to select.

**If a student has a placement above pre-calculus, the student will be able to use Calculus I for Quantitative reasoning and will have additional open elective credits to complete the 60 credit requirement.

CSCU Pathway Transfer Degree: Mathematics Studies, A.A. 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.

SCSU requires a GPA of 2.0 in Mathematics courses applied toward the major, and no more than one grade below C- in courses applied toward the major.

WCSU requires a C or better in MAT 254, MAT 256, and MAT 268.

Revised 03/29/2022