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## TRANSFER TICKET

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### CSCU Pathway Transfer Degree: Mathematics Studies, A.A. Manchester Community College Catalog Year 2019-20

Previous catalog years

[2016/17](#)

[2017/18](#)

[2018/19](#)

Please contact a campus advisor for this program: Professor Chris Hamelin, [CHamelin@manchestercc.edu](mailto: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, 2017/18, 2018/19, or 2019/20 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.

At Central Connecticut State University	Mathematics, B.A. Mathematics, B.A.—Actuarial Science Specialization
At Eastern Connecticut State University	Mathematics, B.A.—Statistics Specialization Mathematics, B.A.—Structures and Applications Mathematics, B.S.—Structures and Applications Mathematics, B.S.—Actuarial Mathematics, B.S.—Data Science
At Southern Connecticut State University	Mathematics, B.A. Mathematics, B.S.—Concentration: Applied
At Western Connecticut State University	Mathematics, B.A. Mathematics, B.A.—Computer Science Option

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 <b>Scientific Reasoning</b> 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 <b>Aesthetic Dimensions</b> course	3 credits

#### Second Semester

**14 credits**

MAT 254 Calculus I	4 credits
Choose one <b>Written Communication II</b> course	3 credits
Choose one <b>Scientific Knowledge and Understanding</b> course; you must choose the second course in the sequence you <b>begin</b> in the first semester; choose from	4 credits
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
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**Begin the [transfer application process](#) in your third semester or the semester before you plan to graduate. FAFSA becomes available October 1.**

<b>Third Semester</b>	<b>16 credits</b>
MAT 256 Calculus II	4 credits
Choose one from	3 credits
CSC 124 Programming Logic and Design with Python	
CSC 125 Programming Logic and Design with C++	
Choose one <b>Social Phenomena</b> course	3 credits
Choose one <b>Historical Knowledge and Understanding</b> course	3 credits
Unrestricted Elective*	3 credits

**During your last semester at MCC, apply for graduation [by the dates found here](#).**

<b>Fourth Semester</b>	<b>17 credits</b>
MAT 268 Calculus III: Multivariable	4 credits
Choose one from	4 credits
MAT 274 Linear Algebra	
MAT 286 Differential Equations	
MAT 287 Foundations of Mathematics	
Choose one <b>Continued Learning and Information Literacy</b> course	3 credits
Choose one <b>Oral Communication</b> course	3 credits
Unrestricted Elective*	3 credits

### 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 \(PDF\)](#).

<b>Written Communication I</b>	3 credits
ENG 101 Composition	
<b>Written Communication II (select one)</b>	3 credits
<b>Scientific Reasoning (select one)</b>	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)	
<b>Scientific Knowledge and Understanding (select one in the same sequence as Scientific Reasoning)</b>	4 credits
BIO 122 General Biology II	
CHE 122 General Chemistry II	
PHY 122 General Physics II	
PHY 222 Calculus Based Physics II	

<b>Quantitative Reasoning (select one)</b>	4 credits
MAT 186 Pre-Calculus	
<b>Historical Knowledge and Understanding (select one)</b>	3 credits
<b>Social Phenomena (select one)</b>	3 credits
<b>Aesthetic Dimensions (select one)</b>	3 credits
<b>Continued Learning and Information Literacy (select one)</b>	3 credits
<b>Oral Communication (select one)</b>	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	4 credits
MAT 274 Linear Algebra	
MAT 286 Differential Equations	
MAT 287 Foundations of Mathematics	
Choose one from	3 credits
CSC 124 Programming Logic and Design with Python	
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.

**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.**