

MATHEMATICS STUDIES - CSCU TRANSFER DEGREE, AA

Program code: MATH-AA-TAP

Location: Asnuntuck, Capital, Gateway, Housatonic, Manchester, Middlesex, Naugatuck Valley, Northwestern, Norwalk, Quinebaug Valley, Three Rivers, Tunxis

Program Description

The Mathematics Studies program fosters mathematical understanding, with applications to real-life scenarios, of branches of study including geometry, algebra, and calculus. The goal of the program is to provide a background in mathematics that will prepare students for the rigors of a four-year math degree. After completion, students will transfer seamlessly into a Bachelor of Mathematics Studies with a junior level status in the receiving CSCU (Connecticut State Colleges & Universities) institution as part of the CSCU transfer ticket program.

Learning Outcomes

Students completing the CSCU Mathematics Studies Pathway and earning an Associate Degree will be able to:

1. Read, interpret, and effectively communicate mathematics both verbally and in writing.
2. Use appropriate technology to promote understanding and solve mathematical problems.
3. Acquire and demonstrate substantial knowledge from Algebra and Calculus.
4. Analyze, model, and solve real world problems, using various areas of mathematics.
5. Think analytically and critically and be able to formulate problems, solve them, and interpret their solutions.
6. Demonstrate the ability to use and understand multiple representations (including graphical, numerical and analytical) of mathematical concepts.

Students who earn an Associate of Arts degree in Mathematics Studies from the Connecticut State Community College can transfer their degree to either the Central Connecticut State University (CCSU), Eastern Connecticut State University (ECSU), Southern Connecticut State University (SCSU), Western Connecticut State University (WCSU), or Charter Oak State College (COSC). Students will be credited as meeting the General Education requirements. Students must remain in the corresponding Mathematics major program for the following bachelor's degrees:

CCSU

- Bachelor of Arts (B.A.) Mathematics
- B.A. Mathematics - Actuarial Science Specialization
- B.A. Mathematics - Statistics Specialization

ECSU

- B.A. Mathematics - Structures & Applications
- B.A. Mathematics - Math for Teachers
- Bachelor of Science (B.S.) Mathematics - Structures & Applications

- B.S. Mathematics - Actuarial Science
- B.S. Mathematics - Data Science

SCSU

- B.A. Mathematics
- B.S. Mathematics - Concentration: Applied

WCSU

- B.A. Mathematics
- B.A. Mathematics - Computer Science Option

COSC

- B.A. General Studies: Mathematics Concentration

Degree Requirements

Code	Title	Credits
Framework Courses		
ENG 1010	Composition	3
MATH 2600	Calculus I	4
Elective ARHX - Arts & Humanities Course		3-4
Elective SBSX - Social / Behavioral Science Course		3
Elective WRIX - Written Communication II Course		3
Elective HISX - Historical Knowledge Course		3
Elective ORAX - Oral Communication Course		3
CCS 1001	College and Career Success	3
Choose one of the following Science Sequences:		8
BIO 1210 & BIO 1220	General Biology I and General Biology II	
CHEM 1210 & CHEM 1220	General Chemistry I and General Chemistry II	
PHYS 1201 & PHYS 1202	General Physics I and General Physics II	
PHYS 2201 & PHYS 2202	Calculus-Based Physics I and Calculus-Based Physics II	
Pathway Courses		
MATH 2610	Calculus II	4
MATH 2620	Calculus III: Multivariable	4
MATH 2621 or MATH 2622	Linear Algebra Differential Equations	4
MATH 2623	Foundations of Advanced Mathematics	4
Choose one of the following CSC designated programming language courses:		3
CSC 1203	Python Fundamentals	
CSC 1211	Java I	
Electives - Students should consider beginning or completing work on foreign language requirements not already met in high school and beginning work on a minor (required at CCSU for the general Mathematics B.A. - up to 9 credits can be completed at the community college.) They may also complete other General Education requirements.		8
Total Credits		60-61