



# Monroe Community College

STATE UNIVERSITY OF NEW YORK

Inspiring every day.



SCHOOL OF SCIENCE, TECHNOLOGY, ENGINEERING & MATH (STEM)

## Mathematics A.S.

**A MATH DEGREE FROM MCC IS YOUR FORMULA FOR SUCCESS.** Our Mathematics associate degree program lets you subtract high tuition from your education while adding outstanding professors, transfer opportunities and flexible course options. You'll learn from instructors who've won numerous awards, including special recognition for their creative use of technology and multimedia. More than a dozen math classes are available online, letting you set your own hours. And with many 2+2 dual admission transfer options, this associate degree equals a strong start on a bachelor's degree in mathematics.

### PROGRAM DESCRIPTION

For this associate degree program, you'll complete coursework that's generally equivalent to the first two years of a bachelor's degree program. Department advisors will help you choose the courses that best fit your educational goals, schedule, and needs. Upon graduation, you'll be ready to transfer directly to a four-year college with junior status, majoring in Mathematics, Applied Mathematics, Mathematics Education, Statistics, or a related field. Our transfer students have a strong track record, gaining acceptance to prestigious universities such as St. Bonaventure, RIT, Duke, Purdue, and all SUNY colleges and universities.

### A STRONG START—ACADEMICALLY AND FINANCIALLY!

MCC's low tuition plus financial aid opportunities help make a high-quality education affordable. You could qualify for federal grants, workforce grants, scholarships, and more. Visit [www.monroecc.edu/go/finaid](http://www.monroecc.edu/go/finaid) or call 585.292.2050.

### APPLY TODAY!

To learn more about MCC, visit us on the web at [www.monroecc.edu](http://www.monroecc.edu). Apply today at [admissions.monroecc.edu](http://admissions.monroecc.edu) or contact the Admissions Office at 585.292.2200 to schedule a visit.



**GET THE LATEST ON CAREERS IN OUR AREA, INCLUDING EMPLOYMENT PROJECTIONS, EARNINGS, AND JOB OPENINGS AT [CAREERCOACH.MONROECC.EDU](http://CAREERCOACH.MONROECC.EDU)**

### WHERE WILL YOU GO?

Start your career with employers like these:

- Avanti Technology Solutions
- Unisys Corporation
- Choiceone Communications
- Canandaigua National Bank
- Citibank
- Oracle
- Netsmart, LLC

Your job title\* could be:

- Operations Research Analyst
- Statistical Assistant
- Statistician
- Mathematical Technician
- Mathematics Teacher
- Mathematician

*\*Most mathematics-related professions require a bachelor's degree or above.*

Your MCC credits can transfer to excellent college and universities like these:

- All SUNY Colleges & Universities
- St. Bonaventure University
- Rochester Institute of Technology
- Purdue University
- Roberts Wesleyan College
- Ohio State University
- Duke University
- University of Rochester
- Northeastern University

*“Among transfer students at Brockport, MCC students were the best prepared in mathematics.”*

– Dr. Mihail Barbosu,  
former SUNY Brockport  
Mathematics Chair

# CURRICULUM OVERVIEW

## MATHEMATICS A.S.

This program's design is based on: New MCC General Education

Distribution Requirements	Credit Hours
<b>FIRST SEMESTER</b>	
ENG 101 College Composition <b>OR</b> ENG 200 Advanced Composition	3
MTH 210 Calculus I	4
SUNY GENERAL EDUCATION - THE ARTS (SUNY-A) <b>OR</b> SUNY GENERAL EDUCATION - FOREIGN LANGUAGES (SUNY-FL) ELECTIVE	3
SUNY GENERAL ELECTIVE - AMERICAN HISTORY (SUNY-AH) <b>OR</b> SUNY GENERAL EDUCATION - SOCIAL SCIENCES (SUNY-SS) ELECTIVE	3
OPEN ELECTIVE*	3
<b>First Semester Total:</b>	<b>16</b>
<b>SECOND SEMESTER</b>	
MTH 211 Calculus II	4
MTH 220 Discrete Mathematics	3
PHL 101 Introduction to Philosophy <b>OR</b> PHL 103 Introduction to Ethics <b>OR</b> PHL 105 Technology and Values	3
SUNY GENERAL EDUCATION - OTHER WORLD CIVILIZATIONS (SUNY-OWC) <b>OR</b> SUNY GENERAL EDUCATION - WESTERN CIVILIZATION (SUNY-WC) ELECTIVE	3
OPEN ELECTIVE*	3
<b>Second Semester Total:</b>	<b>16</b>
<b>THIRD SEMESTER</b>	
MTH 212 Calculus III	4
SUNY GENERAL EDUCATION - NATURAL SCIENCES (SUNY-NS) ELECTIVE**	4
MCC GENERAL EDUCATION - HEALTH AND WELLNESS (MCC-HW) ELECTIVE#	3
OPEN ELECTIVE*	3
<b>Fourth Semester Total:</b>	<b>14</b>
<b>FOURTH SEMESTER</b>	
MTH 230 Linear Algebra	4
SUNY GENERAL EDUCATION - NATURAL SCIENCES (SUNY-NS) ELECTIVE**	4
MCC GENERAL EDUCATION - TECHNOLOGICAL LITERACY (MCC-TL) ELECTIVE***	3-4
OPEN ELECTIVE*	3
<b>Fourth Semester Total:</b>	<b>14-15</b>
<b>TOTAL CREDITS:</b>	<b>60-61</b>

Revised: 8/30/2018

\*Mathematics majors are encouraged to consider MTH 225 as an elective after MTH 211 has been completed with a grade of C or higher. Students interested in studying Statistics might consider MTH 160 and MTH 161, although these courses may not be applicable towards a Mathematics major at some four year colleges. Students are advised to check with the institution to which they intend to transfer.

\*\*Choose two of the following: BIO 155, 156; CHE 151, 152; GEO 101, 102; PHY 161, 261; GEG 101 with GEG 100; GEG 111 with GEG 110.

\*\*\*Mathematics majors are encouraged to consider CSC 101 for this elective.  
#Could be 2-credits if student can complete the minimum 60 credits for graduation.