

# Liberal Arts: Mathematics and Science (Mathematics Track) Degree Map



◆ TRANSFER DEGREE    M MIDDLETOWN CAMPUS    DL DISTANCE LEARNING

## Career and Transfer Focus

Graduates have flexibility to pursue a variety of transfer programs and career paths, such as statistics, artificial intelligence, actuarial science, teaching, cryptology, mathematical modeling, finance, economics and more. Salaries for these disciplines are highly competitive with other STEM fields.

## Three Reasons to Consider the Mathematics Track in Liberal Arts: Mathematics and Natural Science

1. There is a significant cost savings during your first two years of study while learning problem solving, logic and critical thinking skills.
2. We offer small class sizes that provide the ability to interact with professors both inside and outside of the classroom as well as a math tutorial center to give you the best opportunity for success.
3. The courses in our program are transferable to most math-related 4-year programs..

## Keep This in Mind

To complete in two years, you have to place into MAT 205 (Calculus 1).

While most math courses are offered on the Middletown campus during the day, some are offered during the evening, online, hybrid, and at alternative locations.

MAT 214 (Differential Equations and Series) is typically offered in the Spring and Summer semesters. MAT 136 (Introduction to Discrete Mathematics) is typically not offered in the Summer.

In addition to the college tutorial center, the SUNY Orange Math department has a mathematics tutorial lab on the Middletown and Newburgh Campuses (walk-in tutorial center).

Four year programs may have specified science classes in their programs as well as computer science courses. As you narrow your choices of transfer destinations, pay close attention to science requirements and sequencing.

## Mathematics Track Gateway Courses:

- Gateway courses: MAT 205

*Courses above have been recommended by the department to help introduce you to the program (Gateway courses) and guide you in selecting courses that will provide you with the best academic experience (Key courses and suggested Electives).*

## First Semester

Course #	Course Name	P, C, P/C	Cr
ENG 101	Freshman English 1	P	3
MAT 205	Calculus 1	P	4
_____	Elective		3
_____	SUNY Elective (GE 2)		3
_____	SUNY Elective (GE 3)		3
	Total Semester Credits		16

## Milestones

During this semester, students should:

- Visit Career Services and explore a career inventory
- Connect with the Math Lab and the [Center for Student Success](#) to discuss challenges and become more academically successful
- If you are interested in becoming a tutor, discuss the qualifications with the Math Lab Coordinator or the Director of the Center for Student Success

## Second Semester

Course #	Course Name	P, C, P/C	Cr
MAT 206	Calculus 2	P	4
ENG 102	Freshman English 2	P	3
MAT ____	Restricted Math Elective *		3
_____	SUNY Elective (GE 2)		3
_____	SUNY Elective (GE 4, 5 or 6)		3
PES 100	Concepts of Physical Wellness		1

# SUNY Orange

Course #	Course Name	P, C, P/C	Cr
	Total Semester Credits		17

## Milestones

During this semester, students should:

- Visit Transfer Fair and speak with potential transfer schools
- Apply for returning student scholarships
- When choosing electives, consider degree requirements at your top transfer school choices

## Third Semester

Course #	Course Name	P, C, P/C	Cr
MAT 207	Calculus 3	P	4
MAT ____	Restricted Math Elective *		3
COM 101	Foundations of Communication		3
_____	SUNY Elective (GE 8 or 9)		3
PES ____	Physical Education		0.5
PES ____	Physical Education		0.5
	Total Semester Credits		14

## Milestones

During this semester, students should:

- Begin communication with potential references and apply to transfer school
- Seek guidance on resume development

## Fourth Semester

Course #	Course Name	P, C, P/C	Cr
MAT ____	Restricted Math Elective *		3
<b>Either</b>			
_____	SUNY Elective (GE 2)		
<b>Or</b>			
CSC 101	Computer Science 1		
<b>Or</b>			
CSC 102	Computer Science 2		
<b>Or</b>			
CSC 201	Data Structures		
<b>Or</b>			
CSC 204	Computer Organization and Assembly Language		3
_____	Elective		3
<b>Either</b>			
MAT 122	College Trigonometry***	P	
<b>Or</b>			
_____	Elective		3
<b>Either</b>			
MAT 121	College Algebra**	P	
<b>Or</b>			
MAT 131	Pre-Calculus**	P	
<b>Or</b>			
_____	Elective		3
	Total Semester Credits		15

## Milestones

During this semester, students should:

- Apply for graduation
- Apply for transfer scholarships

**TOTAL DEGREE CREDITS: 62**

**Notes:**

\* Students may select from these Restricted Math electives: MAT 120 Intro. to Statistics, MAT 136 Intro. to Discrete Math, MAT 211 Linear Algebra, MAT 214 Differential Equations

\*\* For students who place into MAT 121 or MAT 131

\*\*\* For students who place into MAT 121