

# Liberal Arts: Mathematics and Science Degree Map



◆ TRANSFER DEGREE    M MIDDLETOWN CAMPUS    DL DISTANCE LEARNING

## A Day in the Life ...

This degree can be used for transfer to a variety of programs in mathematics and science at four-year institutions. It lays a strong foundation for students prior to them choosing a specialization, and can be achieved by taking a wide range of courses. With this degree, students can pursue careers including: pure or applied mathematics, statistics, chemistry, pre-medical/dental/veterinary, environmental science, genetics, forensics, and bio-mechanics/engineering.

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

1. SUNY Orange has strong faculty, with expertise in diverse areas of Math and Science, who make themselves available to work individually with students.
2. This degree can open many doors to students who are interested in Math or Science, but may not be sure of the specific area of concentration. Getting this degree is a great way to explore a variety of STEM fields.
3. Historically, graduates from this program have been accepted to institutions at which they have gone on to receive Bachelor's and graduate degrees.

## Keep This in Mind

SUNY has defined recommended coursework to be taken in the first two years of study to ensure seamless transfer to baccalaureate degree programs within the system. That recommended coursework is referred to as a transfer path. Each track aligns with a different SUNY transfer path. The four-semester sequences ensure that students will fulfill seven SUNY general education categories and necessary coursework in the first two years of study in specific disciplines, thereby ensuring junior-level status when transferring to a four-year school within the SUNY system.

To complete in two years without taking summer courses, full-time students must place into MAT 121.

Specific calculators are required for MAT 120 (Introduction to Statistics), MAT 122 (College Trigonometry) and some science courses.

A small number of courses may be offered only once per year; keep an eye on the course schedules each semester.

Some courses are available in an online format; for science courses, students may need to purchase a lab kit.

## Liberal Arts: Mathematics and Science Gateway Courses:

- Gateway courses: MAT 205
- Key courses: MAT 205, MAT 206, MAT 207

A minimum of 30 credits of math and science combined is required for this degree. At least 6 credits of math must be College Algebra (MAT 121) or higher, at least 3 credits of which must be a G1A (SUNY Mathematics) course and at least 6 credits of science must be from the G2A (SUNY Natural Sciences) list.

*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 (G10A [w] & G11A)                           | P         | 3  |
| _____    | SUNY Social Sciences (G3A)                                     |           | 3  |
| _____    | SUNY Natural Sciences* (G2A)                                   |           | 3  |
| _____    | MAT 111 or higher or Computer Science or Liberal Arts Science* |           | 3  |
| _____    | MAT 121 or higher* (G1A)                                       |           | 3  |
|          | Total Semester Credits   |           | 15 |

## Milestones

During this semester, students should:

- Talk to your advisor about career plans
- Join a club
- Consider opportunities for research

## Second Semester

| Course # | Course Name                     | P, C, P/C | Cr |
|----------|---------------------------------|-----------|----|
| ENG 102  | Freshman English 2 (G7A & G12A) | P         | 3  |

# SUNY Orange

| Course # | Course Name                                    | P, C, P/C | Cr |
|----------|--|-----------|----|
| HIS ____ | Restricted History Elective**                  |           | 3  |
| _____    | SUNY Natural Sciences* (G2A)                   |           | 3  |
| _____    | Restricted Mathematics and Science Elective*** |           | 3  |
| MAT ____ | MAT 122 or higher* (G1A)                       |           | 3  |
|          | Total Semester Credits                         |           | 15 |

## Milestones

### During this semester, students should:

- Visit Transfer Fair and speak with potential transfer schools
- Seek out scholarship opportunities

## Third Semester

| Course # | Course Name                                    | P, C, P/C | Cr |
|----------|--|-----------|----|
| COM 101  | Foundations of Communication (G10A [o] & G11A) |           | 3  |
| _____    | Restricted Mathematics and Science Elective*** |           | 3  |
| _____    | Restricted Mathematics and Science Elective*** |           | 3  |
| _____    | Restricted SUNY Elective****                   |           | 3  |
| _____    | Elective                                       |           | 3  |
|          | Total Semester Credits                         |           | 15 |

## Milestones

### During this semester, students should:

- Apply to transfer school(s)
- Seek guidance on resume development

## Fourth Semester

| Course # | Course Name                                    | P, C, P/C | Cr |
|----------|--|-----------|----|
| _____    | Restricted Mathematics and Science Elective*** |           | 3  |
| _____    | Restricted Mathematics and Science Elective*** |           | 3  |
| _____    | SUNY Diversity@ (G6A)                          |           | 3  |
| _____    | Elective                                       |           | 3  |
| _____    | Elective                                       |           | 3  |
|          | Total Semester Credits                         |           | 15 |

## Milestones

### During this semester, students should:

- Seek out scholarship opportunities
- Apply for graduation

## TOTAL DEGREE CREDITS: 60

### Notes:

\*Minimum credit value for this course is 3 credits. Students may fulfill this requirement with a course of a higher credit value.

\*\*Select from G4A (SUNY US History & Gov) or G5A (SUNY World History)

\*\*\*MAT 111 or higher, AST, BIO, CHM, CSC 101, CSC 102, CSC 138, CSC 201, GEO 101, GLG, MLT 101, MLT 106, MLT 110, MLT 209, PHY, PSC

\*\*\*\*Select from G8A (SUNY Arts) or G9A (SUNY World Languages)

@Can be an elective if G6A (SUNY Diversity) has already been met

See [SUNY Transfer Path link](#) for information about recommended courses