

# MATHEMATICS MAJOR (BA or BS PROGRAM)

2016-2017 Catalog

Declaration of Major



EDGEWOOD COLLEGE

Name: \_\_\_\_\_ ID: \_\_\_\_\_

Major Advisor Approval: \_\_\_\_\_ Date: \_\_\_\_\_

Department Chair Approval: \_\_\_\_\_ Date: \_\_\_\_\_

Intended Graduation Month: January August May Intended Graduation Year: \_\_\_\_\_

THIS FORM IS TO ADD/DECLARE A MAJOR. IF YOU WISH TO DROP/REMOVE A PREVIOUSLY DECLARED MAJOR, YOU MUST SUBMIT A SEPARATE MAJOR DECLARATION DROP FORM. THIS FORM IS AVAILABLE AT REGISTRAR.EDGEWOOD.EDU

Forty-four (44) credits in mathematics, including:

### Major Requirements:

### Transfer credit applied (including AP/CLEP/etc):

#### Required Courses:

#### Course / Institution

|          |     |                            |  |
|----------|-----|----------------------------|--|
| MATH 231 | M   | Calculus I*                |  |
| MATH 232 | M   | Calculus II*               |  |
| MATH 233 | M   | Calculus III*              |  |
| MATH 301 | U   | Problem Solving and Proof* |  |
| MATH 341 |     | Linear Algebra*            |  |
| MATH 351 |     | Probability*               |  |
| MATH 485 | 3KX | Mathematics Seminar*       |  |

Students are required to complete at least five additional mathematics courses from the following list, chosen with the consent of the student's academic advisor, to include at least one from each of the three pairings. Majors planning to go to graduate school should take both courses in all three pairings:

|          |                         |  |
|----------|-------------------------|--|
| MATH 331 | Differential Equations* |  |
|----------|-------------------------|--|

#### Analysis Pairing:

|          |                   |  |
|----------|-------------------|--|
| MATH 431 | Real Analysis*    |  |
| MATH 432 | Complex Analysis* |  |

#### Algebra Pairing:

|          |                      |  |
|----------|----------------------|--|
| MATH 441 | Abstract Algebra I*  |  |
| MATH 442 | Abstract Algebra II* |  |

#### Geometry Pairing:

|          |                   |  |
|----------|-------------------|--|
| MATH 461 | College Geometry* |  |
| MATH 462 | Topology*         |  |

A minimum GPA of 2.5 in the above courses is required

\*course has prerequisites

**Policies**

All mathematics prerequisites for mathematics courses must be completed with a grade of 'C' or above to satisfy the prerequisite requirement.

Courses in mathematics may not be audited. Courses may only be taken Pass/Fail with the consent of both the instructor and the Mathematics Department Chair.

In order for any mathematics course to count towards any of the mathematics majors or minors, the course must have been completed with five years preceding the date of major/minor declaration. Courses taken prior to that point will be evaluated on an individual basis by the department.

Any mathematics course requirement for any major or minor offered in the department, with the exceptions of MATH 485, MATH 459 and MATH 451, may be satisfied through the proficiency process established by the department. The minimum residency requirement may not be waived.

A student must have a cumulative grade point average of 2.5 or above in courses required for the major or minor.

A student pursuing any major within the Mathematics Department must take at least three mathematics courses at or above the 300 level at Edgewood College.

Students intending to major or minor in mathematics or mathematics teaching should take MATH 301 concurrently or as