

MATHEMATICS MAJOR WITH PRE-ENGINEERING CONCENTRATION

PLEASE CHOOSE: BA PROGRAM BS PROGRAM

Declaration of Major | 2014-2015 Catalog



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.

Students may choose the dual-degree option under the existing collaborative program with the College of Engineering at UW Madison and Marquette University. Under this option, in addition to receiving a Bachelor's degree in Engineering from one of these institutions, a student will receive a BA or BS degree in Mathematics from Edgewood College, subject to the completion of the degree requirements stipulated by the College.

Forty-four credits in mathematics, including:

Required courses:

- 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 KX3 Mathematics Seminar

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

Course/Institution:

At least five additional mathematics courses from the following list or pre-approved transferred upper-level mathematics course, chosen with the consent of the student's academic advisor and prior approval of the department chair, to include at least two courses in a single pairing or at least two related transfer courses:

- MATH 331 Differential Equations

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Analysis Pairing:

- MATH 431 Real Analysis
- MATH 432 Complex Analysis

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Algebra Pairing:

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

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Geometry Pairing:

- MATH 461 College Geometry
- MATH 462 Topology

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Students must have a minimum GPA of 2.5 in the above mathematics courses.

Additional Required courses for Pre-Engineering Concentration (19 credits)

<input type="checkbox"/>	CHEM 120	S	General Chemistry I	
<input type="checkbox"/>	CHEM 121	S	General Chemistry II	
<input type="checkbox"/>	PHYS 201	US	College Physics I	
<input type="checkbox"/>	PHYS 202	S	College Physics II	
<input type="checkbox"/>	PHYS 350	I	Scientific Computing	

Under the agreement with the Colleges of Engineering at the UW-Madison and Marquette , students who complete the Edgewood College pre- engineering concentration with a minimum GPOA of 3.0, have a 3.0 in mathematics, chemistry, and physics courses; have the General Education courses equivalent to the liberal arts electives required by the specific degree granting department of the student’s choice in the College of Engineering, and have a positive recommendation from the Edgewood College physical sciences or mathematics faculty, will be assured entrance into that specific degree granting department.

The course credits earned by students upon completion of their engineering program at UW-Madison or Marquette University may be transferred to Edgewood College to complete the BA or BS in Mathematics with a Pre-Engineering Concentration from Edgewood College.

Policies:

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

Courses in mathematics may not be audited. Courses in the department may be taken Pass/Fail only 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 major, the course must have been completed within five years preceding the date of major declaration. Courses taken prior to that point may be evaluated on an individual basis by the department.

Any mathematics course requirement for any major offered within the Mathematics Department, with the exception of MATH 485 KX3, 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.

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 in mathematics should take MATH 301 U Problem Solving and Proof concurrently with or as soon as possible after MATH 232 M Calculus II since it is a prerequisite for most of the mathematics courses at the 300 and 400 levels.