Program Change Request

Date Submitted: 03/24/25 10:15 am

Viewing: **MATH : Mathematics Minor**

Last approved: 05/09/23 10:38 am

Last edit: 03/24/25 11:02 am

Changes proposed by: jbazaz

Catalog Pages Using this Program

[Mathematics Minor](#)

Are you completing this form on someone else's behalf?

Yes

Requestor:

Name	Extension	Email
Catherine Sausville	5302	csausvil@gmu.edu

Effective Catalog: 2025-2026

Program Level: Undergraduate

Program Type: Minor

Title: Mathematics Minor

Banner Title: Mathematics Minor

In Workflow

1. **MATH Chair**
2. **SC Curriculum Committee**
3. **SC Assistant Dean**
4. **Assoc Provost-Undergraduate**
5. Registrar-Programs

Approval Path

1. 03/24/25 10:24 pm Maria Emelianenko (memelian): Approved for MATH Chair
2. 03/28/25 11:20 am Gregory Craft (gcraft): Approved for SC Curriculum Committee
3. 03/31/25 8:19 am Jennifer Bazaz Gettys (jbazaz): Approved for SC Assistant Dean

Registrar's Office Use Only – Program Start Term	
Registrar/OAPI Use Only – SACSCOC Status	
College/School:	College of Science
Department / Academic Unit:	Mathematical Sciences
Jointly Owned Program?	No

Justification

What: The Undergraduate Committee proposes revisions to the Mathematics Minor to make it more accessible to students across the university. These changes include reducing the number of required courses while increasing elective options, allowing students greater flexibility in shaping the minor to fit their interests. Additionally, we aim to promote the minor as "workforce ready" by formally incorporating internship credits into the requirements. While the minor already allows for this, Math 490 and Math 491 will be limited to 3 credits total between the two courses to count toward the minor.

Why: The Mathematics Minor strengthens students' logical reasoning, critical thinking, and quantitative analysis skills—valuable assets in any career. It complements their major without serving as a replacement for a Mathematics degree.

Currently, the minor is officially listed as requiring 21 credits, but in practice, it demands 29 credits. With the Mathematics BA requiring 38 credits, the significant overlap between the two can deter students who want mathematical training without committing to a full degree. Increasing flexibility in course selection will make the minor more appealing to a broader range of students.

History

1. Nov 17, 2017 by clmig-jwehrheim
2. Feb 7, 2018 by rzachari
3. Mar 24, 2020 by Jennifer Bazaz Gettys (jbazaz)
4. Mar 3, 2021 by Jennifer Bazaz Gettys (jbazaz)
5. May 12, 2022 by Tory Sarro (vsarro)
6. May 9, 2023 by Deborah Mcgarrah (dmcgarra)

Catalog Published Information

Total Credits Required:

Total credits: 21

Registrar's Office Use Only - Program Code:

MATH

Registrar/IRR Use Only – Program CIP Code

Admission Requirements:

Program-Specific Policies:

Policies

Eight credits of coursework must be unique to the minor. For policies governing all minors, see AP.5.3.4 Minors.

Students must earn a minimum 2.00 GPA in courses applied to the minor.

Degree Requirements:

Students should refer to the Admissions & Policies tab for specific policies related to this program.

Required Core Courses

MATH 125	Discrete Mathematics I (Mason Core)	3
MATH 203	Linear Algebra	3
MATH 213	Analytic Geometry and Calculus III	3
or MATH 215	Analytic Geometry and Calculus III (Honors)	
~~MATH 214~~	~~Elementary Differential Equations~~	~~3~~
~~or MATH 216~~	~~Theory of Differential Equations~~	
~~MATH 300~~	~~Introduction to Advanced Mathematics (Mason Core)~~ [1]	~~3~~

Total Credits	9

Mathematical Reasoning Courses

[1] Students must earn a 2.00 or higher in MATH 300%7CCode.

~~Mathematics Elective~~

~~Select 3 credits from the following:~~ [1]		~~3~~
~~MATH 315~~	~~Advanced Calculus I~~	
~~MATH 321~~	~~Abstract Algebra~~	
~~MATH 322~~	~~Advanced Linear Algebra~~	
Select one course from the following:		3
MATH 214	Elementary Differential Equations	
or MATH 216	Theory of Differential Equations	
MATH 300	Introduction to Advanced Mathematics (Mason Core)	
MATH 325	Discrete Mathematics II	
Total Credits		3

[1] ~~Students must earn a 2.00 or higher.~~

~~General~~ Elective Courses

~~Select 3 credits from the following:~~		~~3~~
~~One 3-credit math course at the 300 or 400 level~~ [1]		
Select 9 credits from the following:		9
MATH 490	Internship [1]	

MATH 491	Reading and Undergraduate Research in Mathematics [1]
Other mathematics courses at the 300 or 400 level [2]	
STAT 344	Probability and Statistics for Engineers and Scientists I
Total Credits	9

[1]
A maximum of 3 total credits for both MATH 490 Internship and MATH 491 Reading and Undergraduate Research in Mathematics may be applied to the minor.

[2]
Excluding MATH 400 History of Math (Topic Varies) (Mason Core) and MATH 401 Mathematics through 3D Printing (Mason Core).

Retroactive Requirements Updates:

Program Outcomes

> **Have you reached out to the Libraries to determine whether there are adequate resources to support your program? If not, please email Meg Meiman, Associate University Librarian for Learning, Research, and Engagement at mmeiman2@gmu.edu.**

OAPI Use Only – Determination of SACSCOC Impact

Comments or Notes

Green Leaf Program Designation

Is this a Green Leaf program?   No

Does this program cover material which crosses into another department?

No

Additional Attachments

Reviewer Comments

Additional Comments

Is this course required of all students in this degree program?

%wi_required.eschtml%

Key: 560