

# Course Change Request

Date Submitted: 04/06/26 1:26 pm

Viewing: **MATH 113 : Analytic Geometry and Calculus I**

Transfer Course(s): MATH U113

Last approved: 04/01/23 6:02 am

Last edit: 04/06/26 1:26 pm

Changes proposed by: jbazaz

## Catalog Pages referencing this course

- [Applied Computer Science, BS](#)
- [Applied Science, BAS](#)

## Select modification type:

## In Workflow

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

## Approval Path

1. 04/06/26 1:58 pm  
Maria Emelianenko (memelian):  
Approved for MATH Chair

## History

1. Aug 25, 2017 by pchampan
2. Oct 30, 2018 by Tory Sarro (vsarro)
3. Apr 2, 2019 by Igor Griva (igriva)
4. Apr 16, 2020 by Tory Sarro (vsarro)
5. Apr 17, 2020 by Tory Sarro (vsarro)
6. May 13, 2020 by Tory Sarro (vsarro)
7. Aug 26, 2022 by Catherine Sausville (csausvil)
8. Apr 1, 2023 by Catherine Sausville

Substantial

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

Yes ~~No~~

Requestor:

Name	Extension	Email
<u>Sarah Khankan</u>	<u>5302</u>	<u>skhankan</u>

Effective Term: Fall 2026

Subject Code: MATH - Mathematics

Course Number: 113

Bundled Courses:

Is this course replacing another course? No

Equivalent Courses: MATH 115 - Analytic Geometry and Calculus I (Honors)  
MATH 124 - Calculus with Algebra/Trigonometry, Part B

Catalog Title: Analytic Geometry and Calculus I

Banner Title: Analytic Geometry/Calculus I

Will section titles vary by semester? No

Credits: 4

Schedule Type: Lecture w/Recitation

Hours of Lecture or Seminar per week: 3

Hours of Other Contact Hours per week: 1

Repeatable: May be only taken once for credit, limited to 3 attempts (N3)

Max Allowable Credits:  
12

Default Grade Mode: Undergraduate Regular

Recommended Prerequisite(s):

Recommended Corequisite(s):

**Required  
Prerequisite(s) /  
Corequisite(s)  
(Updates only):**

Updates:

1. Remove MPT2: score of 07.

The only required prerequisites are: MATH 104 or MATH 105 or MPAK: score of 80. ~~Or score of 80 or higher on the Math Placement Test ALEKS (MPAK)~~

**Registrar's Office Use Only - Required Prerequisite(s)/Corequisite(s):**

And/Or	(	Course/Test Code	Min Grade/Score	Academic Level	)	Concurrency?
	(	MPT2	07			
Or		MATH 105	C	UG		
Or		MATH 105	XS	UG		
Or		MATH 104	C	UG		
Or		MPAK	80		)	

**Registration  
Restrictions  
(Updates only):**

**Registrar's Office Use Only - Registration Restrictions:**

**Field(s) of Study:**

**Class(es):**

**Level(s):**

**Degree(s):**

**School(s):**

**Catalog  
Description:**

Functions, limits, the derivative, maximum and minimum problems, the integral, and transcendental functions. Note: Credit ~~Notes-credit~~ for both Math 108 and Math 113 will not be given.

**Justification:**

What: Updating the required prerequisites.

Why: MATH is no longer using the old math placement test.

**Does this course cover material which crosses into another department?**

No

**Learning Outcomes:**

**Will this course be scheduled as a cross-level cross listed section?**

**Attach Syllabus**

**Additional Attachments**

**Specialized Course**

**Categories:**

Mason Core

**Select the Mason Core Requirement the course is proposing to fulfill:**

**Foundation**

**Courses:**

Quantitative Reasoning

**Exploration**

**Courses:**

**Integration**

**Courses:**

## Quantitative Reasoning

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**Course must address all of the following learning outcomes:**

1. Students are able to interpret quantitative information (i.e., formulas, graphs, tables, models, and schematics) and draw inferences from them.
2. Given a quantitative problem, students are able to formulate the problem quantitatively and use appropriate arithmetical, algebraic, and/or statistical methods to solve the problem.
3. Students are able to evaluate logical arguments using quantitative reasoning.
4. Students are able to communicate and present quantitative results effectively.

**I affirm that I have attached the following using the syllabus and attachment buttons provided above: (see “?” for help with submission)**

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

**Additional  
Comments:**

**Reviewer  
Comments**

Key: 10144