

Course Change Request

Date Submitted: 03/13/26 12:18 pm

Viewing: **MATH 213 : Analytic Geometry and Calculus III**

Transfer Course(s): MATH U213

Last approved: 05/13/20 4:41 am

Last edit: 03/18/26 9:31 am

Changes proposed by: skhankan

Catalog Pages referencing this course

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

Select modification type:

Substantial

In Workflow

- MATH Chair**
- SC Curriculum Committee**
- SC Assistant Dean
- Assoc Provost- Undergraduate
- Registrar-Courses
- Banner

Approval Path

- 03/17/26 5:29 pm
Maria Emelianenko (memelian):
Approved for MATH Chair

History

- Oct 30, 2018 by Tory Sarro (vsarro)
- May 13, 2020 by Tory Sarro (vsarro)

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

No

Effective Term: Summer 2026

Subject Code: MATH - Mathematics

Course Number: 213

Bundled Courses:

Is this course replacing another course? No

Equivalent Courses: MATH 215 - Analytic Geometry and Calculus III (Honors)

Catalog Title: Analytic Geometry and Calculus III

Banner Title: Analytic Geom/Calculus III

Will section titles vary by semester? No

Credits: 3

Schedule Type: Lecture w/Recitation

Hours of Lecture or Seminar per week: 2

Hours of Other Contact Hours per week: 1

Repeatable: May be only taken once for credit, limited to 3 attempts (N3) **Max Allowable Credits:** 9

Default Grade Mode: Undergraduate Regular

Recommended Prerequisite(s):

Recommended Corequisite(s):

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

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

And/Or	(Course/Test Code	Min Grade/Score	Academic Level)	Concurrency?
	(MATH 114	C	UG		
Or		MATH 114	XS	UG		
Or		MATH 114T	T	UG		
Or		MATH 116	C	UG		
Or		MATH 116	XS	UG)	

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:**

Lines, planes and vectors in 2 and 3-dimensional coordinate space. Functions of more than one variable. Partial differentiation, multiple integration, line integrals. Optimization using calculus. Vector fields, including gradient vector fields. The Fundamental Theorem of Line Integrals and Green's Theorem. Additional topics may include gradient flow, surface integration, operators div and curl, Divergence Theorem and Stokes Theorem. ~~Partial differentiation, multiple integrals, line and surface integrals, and three-dimensional analytic geometry.~~

Justification:

What: Updating course description.

Why: The new description is more representative of what has been taught in class over the past few years

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:

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.

**Additional
Comments:**

**Reviewer
Comments**

Key: 10165