Course Change Request

Date Submitted: 03/23/26 12:02 pm

Viewing: MATH 125 : Discrete Mathematics I

Transfer Course(s): MATH U125

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

Last edit: 03/23/26 12:02 pm

Changes proposed by: skhankan

Catalog Pages referencing this course

Applied Computer Science, BS

Applied Science, BAS

Select modification type:

Substantial

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. 03/23/26 4:51 pm Maria Emelianenko (memelian): Approved for MATH Chair

History

1. Aug 25, 2017 by pchampan
2. Oct 30, 2018 by Tory Sarro (vsarro)
3. May 13, 2020 by Tory Sarro (vsarro)
4. Oct 3, 2020 by Catherine Sausville (csausvil)
5. Nov 4, 2022 by Jennifer Bazaz Gettys (jbazaz)
6. Apr 1, 2023 by Catherine Sausville (csausvil)

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

No

Effective Term: Summer 2026

Subject Code: MATH - Mathematics

Course Number: 125

Bundled Courses:

Is this course replacing another course? No

Equivalent Courses:

Catalog Title: Discrete Mathematics I

Banner Title: Discrete Mathematics I

Will section titles vary by semester? No

Credits: 3

Schedule Type: Lecture w/Recitation

Hours of Lecture or Seminar per week: 3

Hours of Other Contact Hours per week: 0

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):

Or MATH 103T or Math 123 or Math 115 or Score of 65 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?
	(	MPA2	13			
Or		MATH 103T	T	UG		
Or		MATH 105	C	UG		
Or		MATH 105	XS	UG		
Or		MATH 108	C	UG		
Or		MATH 108	XS	UG		
Or		MATH 113	XS	UG		
Or		MATH 113	C	UG		
Or		MATH 115	C	UG		
Or		MATH 123	C	UG		
Or		MPAK	65		)	

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:

An introduction to discrete mathematics, including logic and Boolean operations, elementary number theory, sets and relations, functions and their properties, mathematical induction, recurrence relations, counting techniques and basic probability and introductory graph theory. Selected topics may include algorithm analysis and finite-state models. ~~Introduces ideas of discrete mathematics and combinatorial proof techniques including mathematical induction, sets, graphs, trees, recursion, and enumeration.~~

Justification:

The new description is more representative of what has been taught in the course for 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:

Mason Core

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

Foundation Courses:

Quantitative Reasoning

Exploration Courses:

Integration Courses:

Quantitative Reasoning

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.

Additional Comments:

Reviewer Comments

Key: 10150