Course Change Request

Date Submitted: 08/18/22 10:13 am

Viewing: **MATH 125 : Discrete Mathematics I**

Transfer Course(s): MATH U125

Last approved: 10/03/20 4:44 am

Last edit: 08/18/22 10:13 am

Changes proposed by: jbazaz

: Information Technology, BS/Information Systems, Accelerated MS

: Information Technology, BS/Software Engineering, Accelerated MS

: Department of Mathematical Sciences

SC-BS-CDS: Computational and Data Sciences, BS

EC-BS-INFT: Information Technology, BS

EC-BS-ME: Mechanical Engineering, BS

Select modification type:

~~Simple~~

Substantial

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

Yes ~~No~~

Requestor:

In Workflow

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

Approval Path

1. 08/18/22 12:11 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)

Name	Extension	Email
Catherine Sausville	**1450**	**csausvil@gmu.edu**

Effective Term: Fall 2022

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

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

And/Or	(	Course/Test Code	Min Grade/Score	Academic Level	)	Concurrency?

And/Or	(	Course/Test Code	Min Grade/Score	Academic Level	)	Concurrency?
		MPA2	13			
Or		MATH 105	C	UG		
Or		MATH 105	XS	UG		
Or		MATH 108	C	UG		
Or		MATH 108	XS	UG		
Or		MATH 113	C	UG		
Or		MATH 113	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:**
Introduces ideas of discrete mathematics and combinatorial proof techniques including mathematical induction, sets, graphs, trees, recursion, and enumeration.

Justification:
What: Adding an additional prerequisite course.
Why: Adding a newly proposed course, MATH 103T, in order to facilitate transfer student processing.

Does this course cover material which crosses into another department?   No

Learning Outcomes:

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)**

**Additional
Comments:**

**Reviewer
Comments**

Key: 10150