Course Change Request

Date Submitted: 10/27/26 2:31 pm

Viewing: MATH 685 : Numerical Analysis

Last approved: 12/14/24 6:06 am

Last edit: 11/09/26 12:20 pm

Changes proposed by: esander

Catalog Pages referencing this course

Astronomy, BS

Atmospheric Sciences, BS

Select modification type:

Substantial

In Workflow

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

Approval Path

1. 11/03/26 7:47 am Matt Holzer (mholzer): Approved for MATH Chair

History

1. May 19, 2021 by Tory Sarro (vsarro)
2. Dec 14, 2024 by dmcgarra

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

No

Effective Term: Fall 2027

Subject Code: MATH - Mathematics **Course Number:** 685

Bundled Courses:

Is this course replacing another course? No

Equivalent Courses:

OR 682 - Computational Methods in Engineering and Statistics

Catalog Title: Numerical Analysis

Banner Title: Numerical Analysis

Will section titles vary by semester? No

Credits: 3

Schedule Type: Lecture

Hours of Lecture or Seminar per week: 3

Repeatable: May only be taken once for credit (NR)
GRADUATE ONLY

Default Grade Mode: Graduate Regular

Recommended Prerequisite(s):
MATH 214 or equivalent. ~~Computer literacy, including some programming experience.~~

Recommended Corequisite(s):

Required Prerequisite(s) / Corequisite(s) (Updates only):
Computer literacy, some programming experience, and MATH 203 or equivalent.

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

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

Registration Restrictions (Updates only):

Registrar's Office Use Only - Registration Restrictions:

Field(s) of Study:

Class(es):

Include

Limited to students with a class of Senior Plus (SCRRCLS_ONLY_SP)

Limited to students with a class of Non Degree (SCRRCLS_ONLY_ND)

Limited to students with a class of Advanced to Candidacy. (SCRRCLS_ONLY_DC)

Limited to students with a class of Graduate. (SCRRCLS_ONLY_GR)

Limited to students with a class of Junior Plus (SCRRCLS_ONLY_JP)

Level(s):

Include

Enrollment limited to students with a level of Non-Degree (SCRRLVL_ONLY_ND)

Limited to undergraduate level students. (SCRRLVL_ONLY_UG)

Limited to graduate level students only. (SCRRLVL_ONLY_GR)

Degree(s):

Exclude

Non-Degree Undergraduate Degree students may not enroll. (SCRRDEG_NO_NDU)

School(s):

Catalog Description:

Computational techniques for solving problems arising in science and engineering. Includes theoretical development as well as implementation, efficiency, and accuracy issues in using algorithms and interpreting results. Specific topics include linear and nonlinear systems of equations, polynomial interpolation, numerical integration, and introduction to numerical solution of differential equations.

Justification:

What: Clarifying pre-reqs.

Why: We want to make sure that the prerequisites are clearly spelled out rather than being implemented on a case by case basis.

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: 10332