Course Approval Form

For instructions: *http://registrar.gmu.edu/facultystaff/catalog-revisions/course/*

Action Requested: (definitions available at website above)
[ ] Create NEW [ ] Inactivate
[x] Modify (check all that apply below)

[x] Title (must be 75% similar to original) [ ] Repeat Status [ ] Prereq/coreq [ ] Grade Mode
[ ] Credits [ ] Schedule Type [ ] Restrictions [ ] Other: _____

Course Level: [ ] Undergraduate [x] Graduate

College/School: College of Science **Department:** Mathematical Sciences
Submitted by: Flavia Colonna **Ext:** 3-1465 **Email:** fcolonna@gmu.edu

Subject Code: MATH **Number:** 685
(Do not list multiple codes or numbers. Each course proposal must have a separate form.)

Effective Term: [x] Fall [ ] Spring [ ] Summer *Year* 2017

Title: Current: Numerical Methods
Banner (30 characters max w/ spaces):
New: Numerical Analysis

Fulfills Mason Core Req? (undergrad only)
[ ] Currently fulfills requirement
[ ] Submission in progress

Credits: (check one)
[3] Fixed →
[ ] Variable → [3] to [0] or
[ ] Lec + Lab/Rct→

Repeat Status: (check one)
[3] Not Repeatable (NR)
[ ] Repeatable within degree (RD) →
[ ] Repeatable within term (RT) →
Max credits allowed: (required for RT/RD status only) [ ]

Grade Mode: (check one)
[x] Regular (A, B, C, etc.)
[ ] Satisfactory/No Credit
[ ] Special (A, B C, etc. +IP)

Schedule Type: (check one)
LEC can include LAB or RCT if linked sections will be offered
[x] Lecture (LEC)
[ ] Lab (LAB)
[ ] Recitation (RCT)
[ ] Internship (INT)
[ ] Independent Study (IND)
[ ] Seminar (SEM)
[ ] Studio (STU)

Prerequisite(s): (NOTE: hard-coding requires separate *Prereq Checking form*; see above website)
Computer literacy, including some programming experience.

Corequisite(s):

Restrictions Enforced by System: Major, College, Degree, Program, etc. Include Code(s).

Equivalencies (check only as applicable):
[x] YES, course is 100% equivalent to CSI 700
[ ] YES, course renumbered to or replaces

Catalog Copy (Consult University Catalog for models)

Description (No more than 60 words, use verb phrases and present tense)	Notes (List additional information for the course)
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.	
Indicate number of contact hours: Hours of Lecture or Seminar per week: 3	Hours of Lab or Studio: 0
When Offered: (check all that apply) [x] Fall [ ] Summer [ ] Spring	

College/School Approval Date

...ny other units, the originating department must circulate this proposal for review by ...n. Failure to do so will delay action on this proposal.
... the necessary signatures prior to ...

...e	Unit Approval Name	Unit Approver's Signature	Date

Undergraduate or Graduate Council Approval

UGC or GC Council Member	Provost's Office	UGC or GC Approval Date

Form revised 9/2/2015

Course Proposal Submitted to the College of Science Curriculum Committee (COSCC)

The form above is processed by the Office of the University Registrar. This second page is for the COSCC's reference. Please complete the applicable portions of this page to clearly communicate what the form above is requesting.

FOR ALL COURSES (required)
Course Number and Title: MATH 685

Date of Departmental Approval: October 21, 2016

FOR INACTIVATED/REINSTATED COURSES (required if inactivating/reinstating a course)

- Reason for Inactivating/Reinstating:

FOR MODIFIED COURSES (required if modifying a course)

- Summary of the Modification: Title change
- Text before Modification (title, repeat status, catalog description, etc.): Numerical Methods
- Text after Modification (title, repeat status, catalog description, etc.): Numerical Analysis
- Reason for the Modification: The new title more closely reflects the course content.

FOR NEW COURSES (required if creating a new course)

- Reason for the New Course:
- Relationship to Existing Programs:
- Relationship to Existing Courses:
- Semester of Initial Offering:
- Proposed Instructors:
- Insert Tentative Syllabus Below