



# Program Approval Form

For approval of new programs and deletions or modifications to an existing program.

## Action Requested:

☐ Create New (SCHEV approval required except for minors)  
☐ Inactivate Existing  
☒ **Modify Existing (check all that apply)**  
☐ Title (SCHEV approval required except for minors)  
☐ Concentration (Choose one): ☐ Add ☐ Delete ☐ Modify  
☒ Degree Requirements  
☐ Admission Standards/ Application Requirements  
☐ Other Changes: \_\_\_\_\_

## Type (Check one):

☐ B.A. ☐ B.S. ☐ Minor  
☐ M.A. ☒ M.S. ☐ M.Ed.  
☐ Ph.D.  
☐ Undergraduate Certificate\*  
☐ Graduate Certificate\*  
☐ Other: \_\_\_\_\_

**College/School:** College of Science **Department:** Mathematical Sciences  
**Submitted by:** Rebecca Goldin **Ext:** 3-1480 **Email:** rgoldin@gmu.edu

**Effective Term:** Fall 2015 **Please note:** For students to be admitted to a new degree, minor, certificate or concentration, the program must be fully approved, entered into Banner, and published in the University Catalog.

## Justification: (attach separate document if necessary)

The catalog language is not clear on the preliminary exam requirement to satisfy the creative component of the MS. This change makes it clear that the MS students must pass three preliminary exams in order to use these exams to meet the creative component requirement.

**Program Title: (Required)**  
 Title must identify subject matter. Do not include name of college/school/dept.  
**Concentration(s):**

**Admissions Standards / Application Requirements:**  
 (Required only if different from those listed in the University Catalog)

**Degree Requirements:**  
 Consult University Catalog for models, attach separate document if necessary using track changes for modifications

Existing	New/Modified
Mathematics, MS	Mathematics, MS
<b>Research and Creative Component (6 credits)</b>  A student may fulfill the research and creative component of the <u>Mathematics, MS</u> degree in any one of the following three ways: <b>Thesis Option</b>  In preparation for this option, the student must form a committee comprising a chair and two other faculty members. The chair and at least one other member must be from the <u>Department of Mathematical Sciences</u> ; one member may be from a related field.  The student completes a thesis under the direction of the committee chair. The thesis work is typically completed while students are registered for 6 credits of <u>MATH</u>	<b>Research and Creative Component (6 credits)</b>  A student may fulfill the research and creative component of the <u>Mathematics, MS</u> degree in any one of the following three ways: <b>Thesis Option</b>  In preparation for this option, the student must form a committee comprising a chair and two other faculty members. The chair and at least one other member must be from the <u>Department of Mathematical Sciences</u> ; one member may be from a related field.  The student completes a thesis under the direction of the committee chair. The thesis work is typically completed while students are registered for 6 credits of <u>MATH</u>

**799 - MS Thesis.** A thesis proposal and thesis are submitted in accordance with Mason's Graduate Policies. The student must give an oral defense of the thesis to the committee and the Mason community at large. Students are expected to respond to questions on the thesis and related material. The committee determines whether the defense is satisfactory.

- MATH 799 - MS Thesis  
Credits: 1-6

### **Paper Presentation Option**

In preparation for this option, the student must form a committee comprising a chair and two other faculty members. The chair and at least one other member must be from the Department of Mathematical Sciences; one member may be from a related field. The student gives an oral presentation of a paper (or series of papers or book chapter) chosen in consultation with the chair of the committee and approved by the full committee. The chosen material must be distinct from work done in fulfillment of course requirements. Students choosing this option take 6 additional credits of electives. The oral presentation is given to the committee and the Mason community at large. Students are expected to respond to questions on the paper and related material. The committee determines whether the defense is satisfactory.

### **Preliminary Exam for the PhD**

The research and creative component of the Mathematics, MS can also be fulfilled by passing the preliminary written examination for the Mathematics, PhD degree.

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### **Preliminary Exam for the PhD**

The research and creative component of the Mathematics, MS can also be fulfilled by passing three preliminary written examinations, as required for the Mathematics, PhD degree.

TOTAL CREDITS REQUIRED:

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\*For Certificates Only: Indicate whether students are able to pursue on a ☐ Full-time basis ☐ Part-time basis

### Approval Signatures

 1/12/15

Department

Date

College/School

Date

Provost's Office

Date

Required for Minors and Interdisciplinary Programs

If this program may impact another unit or is in collaboration with another unit at Mason, the originating department must circulate this proposal for review by those units and obtain the necessary signatures prior to submission. Failure to do so will delay action on this proposal.

Unit Name	Unit Approval Name	Unit Approver's Signature	Date

### For Graduate Programs Only

Graduate Council Member

Provost Office

Graduate Council Approval Date

For Registrar Office's Use Only: Received \_\_\_\_\_ Banner \_\_\_\_\_ Catalog \_\_\_\_\_ revised 6/7/12

### Program 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 PROGRAMS** (required)

Program Title:

Mathematics, MS

Date of Departmental Approval:

#### **FOR INACTIVATED PROGRAMS** (required if inactivating a program)

- Reason for Inactivation:

#### **FOR MODIFIED PROGRAMS** (required if modifying a program)

- Summary of the Modification:

-Clarification of how to meet the creative component requirement using preliminary exams.

- Text before Modification (title, degree requirements, etc.):
- **Preliminary Exam for the PhD**
- \_\_\_\_\_
- The research and creative component of the Mathematics, MS can also be fulfilled by passing the preliminary written examination for the Mathematics, PhD degree.
  - Text after Modification (title, degree requirements, etc.):
- **Preliminary Exam for the PhD**
- \_\_\_\_\_
- The research and creative component of the Mathematics, MS can also be fulfilled by passing three preliminary written examinations, as required for the Mathematics, PhD degree.

- Reason for the Modification:

To clarify how to use preliminary exams to meet the creative component requirement for the Mathematics, MS degree.

**FOR NEW PROGRAMS** (required if creating a new program)

- Reason for the New Program:
- Relationship to Existing Programs:
- Relationship to Existing Courses:
- Semester of Initial Offering:
- Insert Tentative SCHEV Proposal Below