

Course Change Request

New Course Proposal

Date Submitted: 03/24/22 4:07 pm

Viewing: **MATH 690 : Graduate Internship**

Last edit: 04/01/22 9:10 am

Changes proposed by: csausvil

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

In Workflow

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

Approval Path

1. 03/24/22 4:31 pm
Maria Emelianenko
(memelian):
Approved for MATH
Chair

Yes

Requestor:

Name	Extension	Email
Rebecca Goldin	31461	rgoldin@gmu.edu

Effective Term: Summer 2022

Subject Code: MATH - Mathematics

Course Number: 690

Bundled Courses:

Is this course replacing another course? No

Equivalent Courses:

Catalog Title: Graduate Internship

Banner Title: Graduate Internship

Will section titles vary by semester? No

Credits: 1-6

Schedule Type: Internship**Hours of Other Contact Hours per week:** 1-6**Repeatable:** May be repeated within degree (RD)**Max Allowable Credits:**

6

Default Grade Mode: Satisfactory/No Credit**Recommended Prerequisite(s):**

Students must be Mathematics MS or PhD candidates and have permission of the internship coordinator.

Recommended Corequisite(s):**Required Prerequisite(s) / Corequisite(s) (Updates only):**

MATH 675 with grade of B or better;

Three of the following four courses, each with a B or better:

MATH 677

MATH 621

MATH 685

MATH 631

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):****Level(s):****Degree(s):**

School(s):**Catalog****Description:**

Professional work experience for Mathematics MS and PhD candidates working in education, industry and government laboratories, including summer programs. Students looking for experiential credit in mathematics teaching may also use this course. Supervision and approval of this course must be arranged with the department before registering.

Notes: Credit will be assigned based on the number of hours participating in the internship: 1 Credit for every 45 hours of internship work. At least one substantive piece of work will be assessed for each semester of internship. Students may take up to 6 internship credits per semester. Up to 3 credits may be used toward the MS degree in mathematics; a maximum of 6 credits may be used toward the PhD degree in mathematics.

Justification:

What: Creating a new course, Graduate Internship.

Why: By participating in a professional work experience, students gain relevant industry, government and education knowledge and experience, based in part on real-world applications. We want to offer our students the ability to get credit for these workplace experiences, consistent with many other units around the university.

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

Learning Outcomes:

1. Explore career options in Mathematics and gain workplace experience
2. Gain practical on-site work experience with professional supervision and guidance
3. Observe and practice professional behavior and business etiquette
4. Connect graduate education with workplace experiences
5. Gain experience and skills in problem-solving, teamwork, and leadership

Attach Syllabus

[Math 690 Internship Syllabus \(1\).pdf](#)

Additional Attachments**Staffing:**

At the moment, Dr. Igor Griva has been designated to be our Internship Coordinator, however this could be extended to any faculty within the department.

Relationship to Existing Programs:

This has no relationship to existing programs.

Relationship to Existing Courses:

This has no relationship to existing courses.

**Additional
Comments:**

The course registration should be controlled so that registration can only occur once the student receives approval and an override from the department.

**Reviewer
Comments**

Key: 17600

Math 690: Internship (1-6 credits)

COURSE DESCRIPTION	Professional work experience for Mathematics MS and PhD candidates working in education, industry and government laboratories, including summer programs. Students looking for experiential credit in mathematics teaching may also use this course. Supervision and approval of this course must be arranged with the department before registering.
ELIGIBILITY	<p>Students must be Mathematics MS or PhD candidates and have permission of the internship coordinator.</p> <p>After obtaining an internship opportunity, students should provide the internship coordinator with the following information prior to the start of the semester. Deadlines for each semester will be posted on the departmental website.</p> <ol style="list-style-type: none">1. Starting and Ending dates of the internship2. Organization name3. Title of the position4. Internship time commitment (i.e. hours per week)5. A letter from internship source (company, etc) is required. The letter will outline student activities and responsibilities, indicate the mathematical content of activities, and agree to the parameters of the hours related to earning credit.6. Supervisor's contact information including name, email/phone number and title within the organization.7. Primary duties of the internship <p>Once the internship coordinator has approved the internship, an override will be issued for the student and they may register for Math 690. Credit will be assigned based on the number of hours participating in the internship: 1 Credit for every 45 hours of internship work. A maximum of 6 credits per semester is permitted.</p>
PREREQUISITES	<p>MATH 675 with grade of B or better;</p> <p>Three of the following four courses, each with a B or better:</p> <p>MATH 677</p> <p>MATH 621</p> <p>MATH 685</p> <p>MATH 631</p>
LEARNING OUTCOMES	<p>By participating in an internship, students are able to</p> <ol style="list-style-type: none">1. Explore career options in Mathematics and gain workplace experience2. Gain practical on-site work experience with professional supervision and guidance3. Observe and practice professional behavior and business etiquette4. Connect graduate education with workplace experiences5. Gain experience and skills in problem-solving, teamwork, and leadership

EXPECTATIONS FOR CREDIT Students may take up to 6 internship credits per semester. Up to 3 credits may be used toward an MS degree in Mathematics, with a maximum of 6 credits used toward the PhD degree in mathematics.

Credit hours will be assigned based on the approximate number of hours participating in the internship during the semester.

- 1 credit: 3-5 hours/week (approximately 45-75 hours total for the semester)
- 2 credits: 6-8 hours/week (approximately 90-120 hours total for the semester)
- 3 credits: 9-11 hours/week (approximately 135-165 hours total for the semester)
- 4 credits: 12-14 hours/week (approximately 180-210 hours total for the semester)
- 5 credits: 15-17 hours/week (approximately 225-255 hours total for the semester)
- 6 credits: 18+ hours/week (approximately 270-315 hours total for the semester)

GRADING Grading/credit for the internship course will be on a satisfactory/unsatisfactory scale. Students will need the following in order to receive credit.

1. Earn satisfactory assessment for the midterm and final papers
2. Earn satisfactory assessment for end-of-semester presentation
3. Earn satisfactory assessment in the performance review from the site supervisor.
4. Fulfill the hourly internship requirements stated above

CATALOG DESCRIPTION Professional work experience for Mathematics MS and PhD candidates working in education, industry and government laboratories, including summer programs. Students looking for experiential credit in mathematics teaching may also use this course. Supervision and approval of this course must be arranged with the department before registering.

Notes: Credit will be assigned based on the number of hours participating in the internship: 1 Credit for every 45 hours of internship work. At least one substantive piece of work will be assessed for each semester of internship. Students may take up to 6 internship credits per semester. Up to 3 credits may be used toward the MS degree in mathematics; a maximum of 6 credits may be used toward the PhD degree in mathematics.

JUSTIFICATION By participating in a professional work experience, students gain relevant industry, government and education knowledge and experience, based in part on real-world applications. We want to offer our students the ability to get credit for these workplace experiences, consistent with many other units around the university.

ASSESSMENTS Students will meet with the internship coordinator at the beginning of the semester, and discuss their internship assignment. The internship coordinator will also discuss internship expectations, and final evaluation. Students will write a midterm and final report, and will prepare a formal presentation at the end of the semester. These presentations, along with the written report, will be part of the students final assessment.

Students will need to provide the contact information for the site supervisor of the internship. In order for a student to receive internship credit, a time sheet will need to be approved by the site supervisor along with performance review. Both of these items will need to be submitted to the internship coordinator at the end of the semester.

HONOR CODE It is expected that students adhere to the George Mason University Honor Code as it relates to integrity regarding coursework and grades. More information about the Honor Code, including definitions of cheating, lying, and plagiarism, can be found at the Office of Academic Integrity website at <http://oai.gmu.edu>

DISABILITY Students with a disability, and needing academic accommodations, should contact Mason's
ACCOMMODATIONS Disability Services. Please first visit <http://ds.gmu.edu/> for detailed information about the Disability Services registration process. Then please discuss your approved accommodations with the internship coordinator. Disability Services is located in Student Union Building I (SUB I), Suite 2500.

Email: ods@gmu.edu Phone: (703) 993-2474