

Course Change Request

New Course Proposal

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

Viewing: **MATH 490 : Internship**

Last edit: 04/01/22 8:59 am

Changes proposed by: csausvil

Catalog Pages
referencing this
course

[Mathematics, BS](#)

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

No

Effective Term: Summer 2022

Subject Code: MATH - Mathematics

Course Number: 490

Bundled Courses:

Is this course replacing another course? No

Equivalent Courses:

Catalog Title: Internship

Banner Title: Internship

Will section titles
vary by semester? No

Credits: 1-3

Schedule Type: Internship

Hours of Other Contact Hours per
week: 1-3

Repeatable: May be repeated within degree (RD)

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

Max Allowable Credits: 12

Default Grade Mode: Satisfactory/No Credit

Recommended Prerequisite(s):

Students must be Mathematics majors or minors in their junior or senior year and have permission of the instructor.

Recommended Corequisite(s):

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

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 majors and minors 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 internship credit being undertaken. Students may take up to 3 internship credits per semester. Up to 3 credits may be used toward "upper division" math hours required of math majors. May be repeated within degree and in combination with Math 491 for a total of 12 credits between the two classes.

Justification:

What: Creating a new course, Internship.

Why: Experiential learning is an important aspect of a well rounded degree. By participating in a professional work environment, students are able to connect their classroom theories and knowledge with 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 classroom education with workplace experiences
5. Gain experience and skills in problem-solving, teamwork, and leadership

Attach Syllabus

[Math 490 Internship Syllabus.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, other than the fact that students can apply a maximum of 12 credits of Math 490 and Math 491 combined to their overall degree.

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: 17599

Math 490: Internship (1-3 credits)

COURSE DESCRIPTION	Professional work experience for Mathematics majors and minors 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 majors or minors in their junior or senior year 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. Supervisor's contact information including name, email/phone number and title within the organization.6. 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 490. 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 3 credits per semester is permitted.</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 classroom education with workplace experiences5. Gain experience and skills in problem-solving, teamwork, and leadership
EXPECTATIONS FOR CREDIT	<p>Students may take up to 3 internship credits per semester. Up to 3 credits may be used toward upper division math hours required of math majors, however, Math 490 may be repeated within degree and in combination with Math 491 for a total of 12 credits between the two classes.</p> <p>Credit hours will be assigned based on the approximate number of hours participating in the internship during the semester.</p> <ul style="list-style-type: none">• 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+ hours/week (approximately 135+ 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 60% of the reflective essays
2. Earn satisfactory assessment for the final paper and presentation
3. Earn satisfactory assessment in the performance review from the site supervisor.
4. Fulfill the hourly internship requirements stated above

ASSESSMENTS There will be two group meetings throughout the semester. The initial meeting will be at the beginning of the semester where students will introduce themselves and discuss their internship assignment. The internship coordinator will also discuss internship expectations, grading and assessment as well as student conduct in a professional setting as a representative of George Mason University. The final meeting will occur at the end of the semester. Students will formally present their internship paper to the group, discussing their internship duties and connections to their degree. These presentations, along with the written report, will be part of the students final assessment.

Undergraduate students are expected to write reflective essays throughout the semester. The number of essays and their due dates will be determined by the internship coordinator, based on the number of credit hours being undertaken, and will posted on the internship course Blackboard shell at the beginning of the semester.

Students are expected to use these reflections to create a final paper and presentation at the end of the semester. The final paper should be a reflection on workplace experiences and their connections to the student's degree. Students should discuss aspects of their internship such as the original job description and how that matched the actual internship experience. Did the responsibilities change throughout the internship or were they relatively consistent? What prior skills or knowledge were used over the course of the internship? What new skills or knowledge were learned? What was the overall learning experience from the internship process, including the job search process? What experiences were worthwhile and what would you have changed? Students may also write a technical paper describing their activities in the internship.

The final paper should include an updated professional CV with the current internship listed.

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 ACCOMMODATIONS Students with a disability, and needing academic accommodations, should contact Mason's 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