

Request for Directed Study

For Directed Study to be considered as part of the curriculum, this form must be completed in full and ALL signatures must be obtained. Return the completed form to the Student Services Department no later than 5 days after the start of a new term.

Please type or print legibly.

This section must be completed by student.

Student's name _____ Grade 10th 11th 12th

Number of academic classes for the term(s) requested (*not counting this course*) _____
{Please attach a complete listing of all courses, including all Directed Study courses being requested, for each applicable term.}

Name of Course Math Research

Instructor Sarah Brewer

This section must be completed by instructor.

Type of Directed Study being requested: (check one)

Directed Reading - The student undertakes a specified course of study comparable to a regular course under the direct supervision of a faculty member.

Directed Research - The student pursues a defined research project on campus under the guidance of a faculty member.

Why the course is needed: (check one)

- Regular class on the subject is not available
- No class in the field being offered by any department
- Needed to graduate
- Other – briefly explain:

Duration of the course: (check all that apply)

Fall

Winter

Spring

Student/Instructor schedule:

2 _____ hour(s) per week (Please attach schedule)

Credit requested: (check one)

no credit

0.25 per term (Minimally, there must be an average of 2 hours per week, in which at least 1 of those hours is direct contact. There must also be either a written component to the course or an oral exam.)

0.50 per term (Minimally, there must be an average of 4 hours per week, in which at least 2 of those hours are direct contact. There must also be and a written component to the course.)

This course MAY count as one of the five required academic courses: (check one)

Note: In order to be considered an academic course, this course must count as 0.50 credit.

Yes [FOR SENIORS ONLY]

No

Expected outcome of the course: (check all that apply)

Research paper

Essay

Presentation

Physical product

Oral exam

Written exam

Other – briefly explain:

Significance of the course for the student:

Give a brief statement as to the expected outcome or benefit involved for the student.

Students will become familiar with the process of actual mathematical research and the joy of solving an unsolved problem. Students may also be able to publish their work and/or present their findings at a professional conference.

Course Description:

Clearly state the content of the proposed course; its nature and scope; and describe your plan of study. If applicable, attach proposed reading list.

Students will conduct mathematical research under the supervision of the instructor. Students will learn to use primary source academic research to write a literature review of work that has already been done in their research area, will identify an unanswered mathematical question related to that research area, and will prepare a publishable research paper and presentation to summarize their work.

Students will be expected to work independently to utilize resources from the ASMS library (including online access to JSTOR), reputable online resources, and resources from the USA library (including interlibrary loan) to perform rigorous academic research to gain a solid background of and to identify their proposed research problem.

Students are expected to come prepared with questions and evidence of their independent work at each weekly DR meeting.

Students who are not doing the work will be withdrawn from the DR at the instructor's discretion.

At the end of each term, students will be expected to present their findings in the form of an academic paper and presentation. If significant, these findings may be submitted for publication in an academic journal or for presentation at an academic conference. Students may also be eligible to submit their work at the annual Science Fair.

Required Signatures

Student's Signature

Instructor's Signature

Academic Liaison's Signature

Counselor's Signature

President's Signature

Date

Registrar's
Initials