

Math 4933
Section: 002

Mathematics Major Seminar
TTh 12:30 – 1:45
GEAR 150

Spring 2024
Prof. Matthew Clay

Written Project

Assignment: Write a paper on a topic in mathematics, mathematics education, or statistics of your choosing approved by the instructor (that's me!). The mathematical content of the project is to reflect the content of the courses in the undergraduate major. The paper is to be written at a level understandable by your fellow seminar participants. This paper can be used to satisfy the Fulbright College Writing Requirement.

Details: The paper must contain substantial mathematics or statistics (i.e. cannot solely be a biography of a mathematician), a bibliography of references (using a style appropriate to the discipline), be organized by sections, and be 10–15 pages long (not including figures, tables and references) with 1.5 line spacing and 12 point type. In order to appropriately include mathematics in the paper, \LaTeX is strongly encouraged. There are free web-based applications for using \LaTeX such as Overleaf.com and so there is no need to install software on your personal machine. Templates will be provided and we will introduce this tool during a class meeting. The attached rubric provides complete details regarding grading of the written portion of the project. You will give a 10 minute presentation on this paper. A rubric for the presentation will be made available on a later date.

Topic Selection: Choose a topic that is unique and interests you but also one that is accessible to you given your current mathematical and statistic background.

Resources for help in choosing a topic:

- mathematics section in Mullins Library (QA) or mathematics reading library in SCEN 349
- MAA Periodicals: Math Horizons, Mathematics Magazine, The American Mathematical Monthly, The College Mathematics Journal (all available online: <https://uark.libguides.com/MASC>)
- Stephanie Pierce – Physics and Mathematics Librarian, PHYS 221B, email: sjpierc@uark.edu
- instructor or text book of a previous mathematics course you have taken
- me!

Focus your research on a particular aspect of your topic to provide adequate depth.

Important Dates:

- Thursday, January 25: Title and three sentence description of project
- Tuesday, February 6: Outline of project
- February 19 - February 23: One-on-one meeting with Prof. Clay
- Thursday, February 29: 2:30 minute project presentations
- Thursday, March 14: First draft of project
- Thursday, April 4 & Tuesday, April 9: Peer review meetings
- **Thursday, April 11: Final version of project**
- Thursday, April 11 - Tuesday, April 30: 10 minute project presentations