

Math 4933  
Section: 002

**Mathematics Major Seminar**  
TTh 12:30 – 1:45  
SCEN 322

Spring 2023  
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,  $\text{\LaTeX}$  is strongly encouraged. There are free web-based applications for using  $\text{\LaTeX}$  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](mailto: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 26: Title and three sentence description of project
- Tuesday, February 7: Outline of project
- Thursday, February 16: 3 minute project presentations
- February 27 - March 3: One-on-one meeting with Prof. Clay
- Thursday, March 16: First draft of project
- Tuesday, April 11 & Thursday, April 13: Peer Review Meetings
- **Tuesday, April 18: Final version of project**
- Tuesday, April 18 - Tuesday, May 2: 10 minute project presentations