Welcome to Senior Conference, the capstone course for the mathematics major! This course is different than any mathematics course you have taken. In this conference, all of you will take turns presenting, listening to, and writing about a variety of mathematical topics.

Goals for this course are that you will:

- Develop skills to independently learn mathematics both individually and with your classmates;
- Learn how to effectively communicate mathematics in oral and written forms;
- Learn how to be a member of a mathematical community where you are comfortable asking questions and engaging in conversations;
- Gain a broader perspective on the math you have learned and how it can be applied both in and outside of mathematics!

As you are coming to the conclusion of your mathematical experience at Bryn Mawr, it is exciting to think about what you will be doing in 1, 5, 10, or 20 years. Regardless of the path you choose, the skills you gain here to learn, communicate, and engage will empower you forever!

There is no text for the class; there will be no problem sets or exams! Yet, this course will require a serious commitment. Most of the assignments for the course will be to read, understand, present/listen to, and write about a variety of mathematical papers, often publications of the MAA (Mathematical Association of America) or the AMS (American Mathematical Society). Some topics covered in previous years include:

- How geometry and analysis can be applied to study gerrymandering;
- How concepts from abstract algebra can be used to analyze games;
- How concepts from knot theory/topology can be used to understand how car sunshades fold;
- How concepts from game theory can be applied to optimize college admissions;
- How concepts from linear algebra arise in Google’s PageRank Algorithm.

Everyone in the class is responsible for reading all the papers. For each paper, a group of 2-3 students will present the paper to the class. Each group will usually have one class period to present their paper. A week after the presentation is complete, everyone must turn in a presenter or listener report.

In addition to the class times, students are expected to reserve Group Working Session time slots (times to be determined) to work with their groups and me on upcoming projects!