Summer CAMP 2025

Computational and **A**pplied **M**ath **P**racticum

May 12 - May 23, 9 - 5 pm, M-F

Burton 307

Instructors: Becca Thomases & Kelli Gutierrez (week 2)
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Learning goals for the program

CAMP is a 2 week intensive pre-research program for students interested in research in applied and computational mathematics. Each week we will focus on topics related to

- Developing proficiency using the MATLAB software package
- Using mathematics for modeling, including linear algebr and differential equations
- Goal setting, tracking progress and writing summary reports
- Giving presentations on project progress

We will achieve these goals through activities designed to mimic a research experience, MATLAB training tutorials, group discussions, and interactive lectures.

Access to MATLAB through Smith College is available here.

Activities

- **Writing**
  - At the end of each day you will record your work with a daily log of activities completed and progress towards you goal.
  - Each week you will produce a written report that is a summary of your progress, more details about what this report should contain will be discussed on day 3.
- **Coding** During week 1 you will get familiar with the computing software MATLAB. There are several tutorials and you will create a path that includes topics of interest that will help you complete your week 1 project.
- **Presenting** At the end of each week you will give a presentation on your weekly progress. For the first week this is not meant to be a complete and formal presentation, but rather an overview of what you did during the week. You will share your successes, ongoing work, questions, and plans. A huge part of presenting your work is getting and giving feedback. Each participant will work on asking questions to challenge you. We will be a safe place to learn how to answer questions "on the spot". We will discuss : "what happens when you don't know the answer?", and "how to phrase engaging questions".