UNDERGRADUATE MATH SEMINAR

The next math seminar will be

DATE:　　　　　<mark>**THURSDAY, October 24**</mark>

Time &　　　　**12:30 – Refreshments in Bailey 204**

Location:　　　**12:50 – 1:45** Seminar in **Bailey 207**

In this seminar, **Professor Amir Aazami** from the Department of Mathematics at **Clark University** will present the following talk.

Professor Amir Aazami

Title: Film, Finance, and Wildfires

Abstract: The notion of "shortest distance" is central to geometry. In this talk we survey how this concept is used in modeling real-world phenomena: From the way streaming services give film recommendations, to finding the "least risky" portfolio in finance, and finally to new ways of modeling the spread of wildfires.
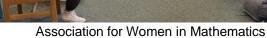
News from the Clubs

- **Association for Women in Mathematics (AWM).** Union chapter of the AWM will be having its next meeting on **Thursday, October 24** at **9:15am** in **Bailey 204**, the Math Common Room. Come join the group to help plan upcoming activities.
- **Math Club.** Club president, **Henry Howe** writes, "Join us for Math Club Origami and Tea this **Friday October 25th** at **3:45pm** in **Bailey 204**! There will be origami paper, along with instructions teaching how to do the folds. And some will also be some fun origami math problems. We will also be serving tea and some snacks."

Association for Women in Mathematics

Winter Term Planning

This winter, the math department will be offering many courses beyond the calculus sequence that math minors and majors should consider, including:

- **Math 140** (Applied Linear Algebra) A course in the basics of linear algebra in $\mathbf{R^n}$ with an emphasis placed on applications. Computer software will be used to perform numerical calculations. Credit is generally not given for both Math 140 and Math 340 (below). *MWF 10:30-11:35.*
- **Math 199** (Logic and Set Theory) The department's "bridge course," intended to help students make the transition from computational courses to more theoretical proof-writing courses. It is a **required** course for all math majors and minors that is *usually* taken *after* a student has taken Math 115. This course carries WAC-R credit. *MTH 199-01: MWF 10:30-11:35, MTH-199-02: MWF 1:50-2:55.*
- **Math 221** (Cryptology) A study of the math behind the secret transmission of messages, as well as other tasks related to data security, privacy, and authentication. Credit is generally not given for both Math 221 and Math 235. This course carries GDQR credit. *MWF 9:15-10:20.*
- **Math 234** (Differential Equations) A first course in differential equations that takes a somewhat more theoretical approach than its 100-level counterpart, Math 130. Students may only take one of these two courses. This course carries GDQR credit. *MWF 1:50-2:55*.
- **Math 340** (Linear Algebra) This is a foundational course in math that is **required** for math majors. A study of vector spaces and the linear maps between them. *MWF 10:30-11:35.*
- **Math 432** (Abstract Algebra 2) Topics in abstract algebra, building on Math 332. *TTh: 10:55-12:40*.
- **Statistics 104** (Introduction to Statistics) This course carries JDQR credit. *MWF 11:45-12:50*.
- **Statistics 264** (Regression Analysis) A study of regression models to fit real-world data. *MWF 9:15-10:20.*