

UNDERGRADUATE MATH SEMINAR

The next math seminar of the term will be

DATE: **THURSDAY, October 20**

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

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



Professor Phaniel Mariano

In this seminar, **Professor Phaniel Mariano** of the Union College Department of Mathematics will present the following talk.

Title: The Hot Spots Problem

Abstract: Consider a perfectly insulated 1-dimensional rod, or a 2-dimensional plate, or better yet, a 3-dimensional room. Perfectly insulated means that heat cannot escape this room. The Hot Spots Problem asks about what happens to the location of the “hot spots” and “cold spots” of this insulated body over a long period of time. To understand this problem, we will introduce the equation that describes the evolution of heat over time. Moreover, we will discuss what is known (and not known) about this problem. We will end the talk by discussing the connection between the Hot Spots Problem and Probability theory. This connection will be made through a theory of random particles called Brownian motion.

Joint Meeting of the AWM and Math Club this Wednesday

The Union College chapter of the Association for Women in Mathematics (AWM) and the Math Club will be combining forces this week, meeting on **Wednesday, October 19 at 4:30pm in Bailey 204**, the math department common room. The clubs are planning a fun activity for later in the term. If you want to help in the organization of the upcoming event(s), or simply want to hang out with other math-interested folks, attend the meeting: ALL are welcome!

Waitlisting for Winter Classes: This Week!

The initial stage of winter term course registration is this week, **Monday, October 17 – Friday, October 21**. If any of the courses you are interested in taking this winter are “waitlist courses”, then be sure to put yourself on their waitlist this week. The Math Department’s waitlist courses are **Math 105, 110, 113, and 117**.

Developing Your Career as an Undergraduate Math Major: Advice from the Organizers of OURFA²M²

The Mathematical Association of America (MAA) is partnering with the Online Undergraduate Resource Fair for the Advance and Alliance of Marginalized Mathematicians (OURFA²M²) to host two virtual events for undergraduate math majors. The first one is this **Tuesday, October 18, 4:00-5:00pm** and the second one is **November 19-20**. Both events are free but require registration.



At Tuesday’s event, a panel of three mathematicians will discuss how to network, seek career mentorship, and pursue career-building opportunities in mathematics such as research, study-abroad, and teaching programs. To register, go to the [MAA’s virtual programming site](#) and find the appropriate link. At that site, you will see other upcoming events, too!