



# Women in Bioscience

## STEMinism, anyone?

If you love science and want to go beyond what you have learned from your textbooks and high school lectures, join our small, interactive seminar (3-5 students) exploring how scientific research is conducted, communicated, and applied in the real world!

**This session will focus on Virology in the context of COVID-19.**

Students will participate in in-depth discussions about:

- Virus Classification
- RNA Viruses
- The COVID-19 Life Cycle
- Testing approaches for COVID-19 (PCR and ELISA)
- How to best present scientific research to peers (in-person and through scientific publication)
- The role of gender in scientific research (historically and in contemporary practice)
- Unique challenges and opportunities for women interested in academic or professional careers in STEM

**This experience is NOT just for students who want to major in the sciences!**

Students will learn how to think like a scientist by:

1. Learning or recalling relevant knowledge
2. Connecting news/information to scientific knowledge
3. Reading science articles from newspapers, evaluating scientific accuracy and validity
4. Making judgements and putting information together in an innovative way

Instructor:

**Waheeda Khalfan** is a lecturer at Stanford University and has been working with undergraduates for over 15 years, teaching, developing curriculum, designing hands-on science courses, organizing large lecture courses, and mentoring students in the pre-med and biology majors track. She has also designed and taught introductory biology classes for high school students in the Stanford Summer Program.

Instructor:

**Allea Cauilan** is an adjunct instructor teaching biotechnology in Los Angeles, California. Her class teaches undergraduate students many new and exciting biotechnology techniques including PCR, microarrays, and CRISPR. During college, Allea was a two-year Presidential Scholar doing research in a microbiology lab, and her research was funded by the National Institutes of Health.

## **FORMAT**

Students will meet daily (M-F) for 3 hours and should expect to complete outside reading/assignments for 2-3 hours each day.

At the conclusion of the program, students will attend a panel discussion with professional women in science talking about their experiences and offering advice about pursuing careers majors and careers in STEM. Upon completion of the program, students will receive a comprehensive evaluation from the instructor and a certificate of completion.

### **After the program, students will be able to:**

1. Connect scientific knowledge to the real-world
2. Communicate scientific findings more effectively
3. Understand how scientific research is conducted in laboratories



This class will be limited to **5 students** to ensure an individualized experience.

Please contact your Customer Service Representative to save your spot!