

HIDDEN INTERSECTIONS

Addressing Systemic Bias in STEM

MEET THE FACILITATORS



ANA LYONS

(she/her)

4th year, Physics

FUN FACT: I've met the crown princess of Sweden.



MINE GOKCEN

(she/her)

4th year, Physics & Astrophysics

FUN FACT: I got my first tattoo when I was 16.

MEET OUR FACULTY SPONSOR

PROFESSOR MARJORIE SHAPIRO

- Experimental particle physicist
- Earned Ph.D. at Berkeley
- Elected to American Academy of Arts and Sciences



ICEBREAKER!

- YOUR NAME AND PRONOUNS
- UNDERGRADUATE/GRADUATE/ YEAR / MAJOR
- WHAT INSPIRED YOU TO TAKE THIS CLASS? WHAT WOULD YOU LIKE TO DISCUSS?
- ANY BOOK/MOVIE/TV SHOW YOU'VE READ/SEEN RECENTLY THAT YOU WOULD RECOMMEND?

GOALS OF THIS COURSE

PAST

Critically examine our internalized narratives about science, learn about non-western scientific traditions and systems of knowing

PRESENT

Familiarize ourselves with current day systemic bias, examine what it means to be an ethical scientist

FUTURE

Identify ways in which we can get involved and improve equity in our fields, learn effective communication, organizing

STATEMENT OF FACTS

- Objective
- Empirical evidence
- Irrefutable
- Inherent to our shared reality

STATEMENT OF VALUES

- Subjective
- Ethics and morals
- Life experiences
- Opinions

Recognize that the order of importance of statements of facts and values depends on the individual. Agreeing on each statement is not equivalent to reaching to consensus even with the same pool of statements.

STRUCTURE



DISCUSSION-BASED

WEEKLY READINGS

BCOURSES POSTS

WEEK BY WEEK SCHEDULE

HISTORICAL

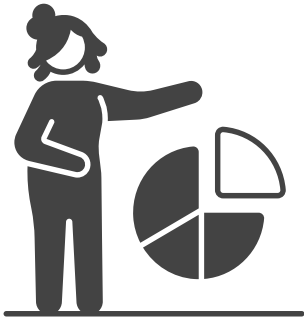
- W1:** First Day :)
- W2: Who is a "Scientist"?
- W3: Indigenous Relationships to the Land
- W4: Wayfinding and Astronomy in Pacific Islander Cultures
- W5: Overlooked Figures
- W6: Guest Speaker

W7: MIDTERM

- W8: Introduction to Ethics
- W9: War and Eugenics
- W10: Algorithms and Militarization
- W11: Thirty Meter Telescope on Mauna Kea
- W12: Authorship and Power Structures

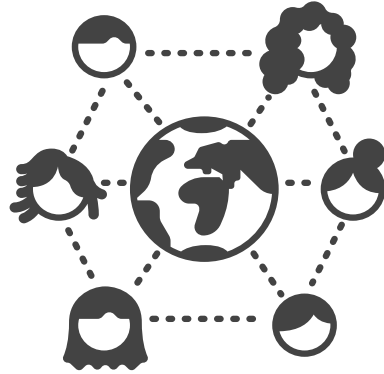
CURRENT

- W13: Thanksgiving**
- W14-15: FINAL and WORKSHOPS**



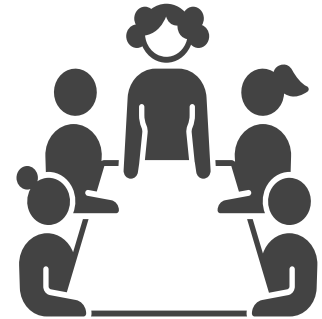
MIDTERM 15%

- Wikipedia project
- Lightning talk



PARTICIPATION 70%

- Mandatory attendance
- bCourses discussion
- Response to other posts



FINAL 15%

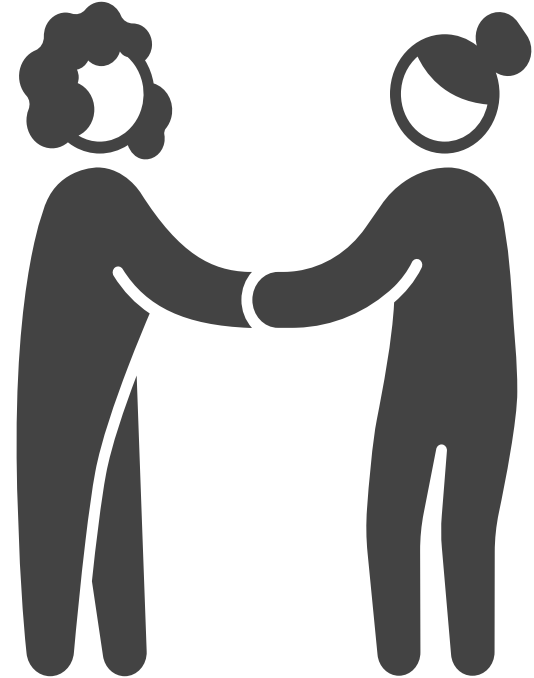
Lead your own mini-class + write a short reflection

COMMUNITY AGREEMENTS

- WHAT GUIDELINES DO WE WANT TO MAKE SURE DISCUSSIONS ARE AS EFFECTIVE AND RESPECTFUL AS POSSIBLE?
- HOW WILL WE HOLD EACH OTHER ACCOUNTABLE?
- WHAT DOES A PRODUCTIVE DISCUSSION LOOK LIKE?

- Active listening
- Step up, step back (take space, make space)
- Reserve judgement when someone is sharing their experiences
- Assume good intentions
- What's said here stays here
- Balance between positive comments + criticism

GET-TO- KNOW-YOU FORM



<https://forms.gle/WJ35xcceGWmHhXuQ7>