

BIOENGINEERING 100: ETHICS IN SCIENCE AND ENGINEERING

HAYLEY LAM
DEPARTMENT OF BIOENGINEERING



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WHAT DOES THE WORD 'ETHICS' MEAN TO YOU?

**RESPOND AT
POLLEV.COM/HAYLEYLAM
OR
TEXT HAYLEYLAM TO 37607**

****KEEP IT SHORT & SIMPLE****

ALL RESPONSES ANONYMOUS!!

GOALS FOR THIS CLASS

- Have thoughtful, open discussions in a safe space
- Learn new things and challenge ourselves
- Build on our understanding of what ethics means to us personally and professionally

INSTRUCTORS

- Hayley Lam
 - hayleylam@berkeley.edu
 - OH: M 11-Noon, Tu 2-3pm in 416 HMMB
- Bennett Ng
 - bennett.ng@berkeley.edu
 - OH F 4-5pm in 419 HMMB
- Mohaddeseh Peyro
 - peyro@berkeley.edu
 - OH W 2-3pm in 419 HMMB

LOGISTICS

- Lecture T/Th 12:30-2pm
 - **Tuesday in 310 Jacobs** *NOTE ALT LOCATION!*
 - Thursday in 106 Stanley
- Discussions
 - Wednesday 1-2pm 60 Barrows: Mohaddeseh
 - Friday 3-4pm 247 Cory: Bennett

MORE LOGISTICS

- bCourses
- Poll Everywhere in-class – requires a wifi enabled device or phone with text capability. Please contact me immediately if you have accessibility issues
- CrowdGrader

ETHICS IN THE NEWS

- I will often begin class with recent headlines related to the topics we are discussing.
- Submit ideas and interesting articles to the bCourses Discussion function under the pinned topic 'Ethics in the News'.

EVERYONE CAN EARN AN 'A' IN THIS CLASS

- Final grades will be calculated on a straight scale, no curve.
- Assignments will be graded on completion, clarity, demonstration of understanding, and ability to apply and evaluate ethical perspectives/concepts.
- Assignments will NEVER be graded on having the 'right' answer.

HOW TO EARN AN 'A' IN THIS CLASS

- Weekly reflections: 15%
- Participation: 15%
- Code of Ethics: 20%
- Debates: 30%
- Final Exam: 20%

... 93% or greater = 'A'

WEEKLY REFLECTIONS

- A place for being metacognitive about this class: What did you learn this week? What captured your interest?
- Readings may be necessary for completion of all responses.
- All assignments will be posted on bCourses
- One page MAX!!

PARTICIPATION

- In-class responses via polleverywhere or index cards to questions – there are NO ‘RIGHT’ ANSWERS just ‘ANSWERS’! Only non-participation will count against you. Or trolling/offensive responses.
- Surveys about the class

CODE OF ETHICS

- Develop your own code of ethics and commit it to paper
- 2 drafts and 1 final submission
- Drafts will be anonymously peer-reviewed for completion, clarity, thoroughness – not whether they agree with the content

DEBATES

- Weeks 8-13 will be structured debates on topics of interest determined by the class.
- You will work in groups to prepare and deliver one debate for the class on an assigned topic
- Debates will be peer-reviewed for clarity of arguments, preparedness of team, etc...

FINAL EXAM – TAKE HOME

- Friday, December 16, 8-11am
- Final reflection
- Personal assessment: you will submit an evaluation of your work in the class and assign yourself a grade. We may adjust your self assigned grade up or down if we disagree with your assessment.

ENROLLMENT

- First year freshmen: please consider dropping this class and taking it at a later date
- Every attempt will be made to prioritize enrollment for graduating seniors who need to complete the ethics requirement (assuming the new enrollment system cooperates with us!)

QUESTIONS?

GROUP NORMS

- Let's create some guidelines around our discussions in this class



WALRUS

- A zoo visitor is pulled into the water by the walrus and the man is drowned.
- The zookeeper attempts to save the zoo visitor and is also drowned.
- The zookeeper had been working with the walrus since the animal was young, >10 yrs

**THE WALRUS SHOULD
HAVE BEEN KILLED
BECAUSE IT WAS A THREAT
TO HUMAN SAFETY**

Please respond on
[pollev.com.hayleylam](https://pollev.com/hayleylam)

**YOU AND YOUR
COLLEAGUES ARE ON THE
ZOO BOARD OF DIRECTORS.
WHAT ACTIONS, IF ANY, DO
YOU TAKE AFTER THIS
INCIDENT?**

Please respond on
[pollev.com.hayleylam](https://pollev.com/hayleylam)

MORE INFORMATION

- There is speculation that the walrus was trying to 'play'
- There is evidence the zoo visitor had entered the enclosure to take a selfie with the walrus, and posted a photo of him standing right next to the animal on social media shortly before his death.



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TATIANA



TIGER ATTACK

- On December 25, 2007, Tatiana (tiger) escapes from the enclosure and kills one man, injures two others.
- Police arrive at the scene, shooting and killing the tiger.

**THE TIGER SHOULD HAVE
BEEN KILLED BECAUSE IT
WAS A THREAT TO HUMAN
SAFETY**

Please respond on
[pollev.com.hayleylam](https://pollev.com/hayleylam)

MORE INFORMATION

- Investigators indicate the tiger may have been provoked.
- One of the injured individuals admitted to being drunk and yelling at the animal.

HARAMBE/GORILLA

- On May 28, 2016, a three year old boy climbs into a gorilla enclosure.
- The 17 year old gorilla grabs and drags the boy around the enclosure.
- A zoo staff member, fearing for the child's safety, shoots and kills the gorilla.

**THE GORILLA SHOULD
HAVE BEEN KILLED
BECAUSE IT WAS A THREAT
TO HUMAN SAFETY**

Please respond on
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Compare your response on whether the WALRUS should have been killed to that of the TIGER and GORILLA. Do they align? Why or why not?

