

Our goals for you in PHYS496

Help you learn to think critically

About others work and yours!

Help you learn methods to write and speak persuasively

The scientific community (and just about everyone else!) tends to be skeptical, so you can't rely just on great results!

Help you learn to navigate the scientific literature

Researching existing literature is critical for planning future work, writing proposals, writing papers, etc.

Teach you how the "world of science" works

We want to teach you how to become effective scientists and communicators!

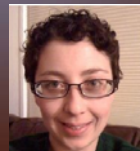
PHYS496

Useful if you want to go to graduate school => academia

Useful for graduate school => industry

Useful for undergraduate degree => industry

Useful for undergraduate degree => anything!



Melissa McHugh
Clinical Research Associate at University of Chicago
Chicago, Illinois | Health, Wellness and Fitness

Current	University of Chicago
Previous	Illinois Eye-Bank, Illinois Eye Bank, The Eye-Bank for Sight Restoration
Education	University of Illinois at Urbana-Champaign

Components of the Course

Writing, Speaking, & Presentation Skills

Writing Workshops, Journal Club, Colloquium Reports, Figures,
Communicating with non-scientists,...

Resources for Scientists

How to use on-line databases useful for research

Scientific Ethics

Case studies

Exposure to Physics Research & Careers

Speakers, Colloquia, Journal Club

Our expectations of you

In-class participation: mandatory attendance

Written assignments

Don't start too late!

We prefer a Word file via email, but an emailed pdf file is OK

Feedback on your classmate's writing

Oral presentations

Professional and polished

Plan to use PowerPoint or PDF (sent to phys496@illinois.edu) on
course computer

Changes

Physics 496 every semester, no more Physics 499

670 majors!!!

Thesis will exist as independent study with research advisor

Talk with us if you need help finding a research advisor

Activities relating to getting into graduate school held independently



Plagiarism

Never copy phrases longer than 3-4 words

Never copy phrases longer than 3-4 words

Providing a citation to a bibliographic entry or footnote does not make copying words OK

Includes:

- Figures and figure captions
- Text from published papers
- Text from paper you are working on with advisor
- Websites

Direct Quotes

Professor Hughes said "Never copy phrases longer than 3-4 words."

Uncommon in technical writing

It is appropriate for **one** of your homework assignments

You can quote only words that someone said in person, in an email, over the phone, or in a letter **to you**.

Comments

You will get out as much as you put in



Talk with us if you have questions regarding homework, plagiarism, life/career issues, ...

This course is an opportunity to ask us questions about whatever you'd like to know regarding Physics, careers, communication, publishing, funding, ...

