

# Computer Science 690A/690B: Research Methods in Computer Science I and II (Fall 2022 / Winter 2023)

<u>Instructor</u>	<u>Office</u>	<u>Office Hours</u>	<u>Lectures</u>
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## Course Description

This course introduces basic skills required for conducting research in Computer Science, including presentation, technical writing using LaTeX and BibTeX, literature search, research topic selection and validation, doing research, and peer review. To learn the skills hands on, each student will work on an individual research project, starting from surveying the literature to proposing a topic to finishing a report and presenting it to the department

## Lecture Outline (Tentative)

- 690A:
  - Course introduction (1 week)
  - Giving Talks for Fun and Enlightenment (2 weeks)
  - Typesetting Documents: Fun with LaTeX and BibTeX (5 weeks)
  - Effective Literature Search (3 weeks)
  - Starting Research: An Overview (1 week)
- 690B:
  - Starting Research: Selecting and Validating Topics (2 weeks)
  - Doing (and Surviving) Research: Timelines, Proposal, and Thesis (3 weeks)
  - Presenting Research I: Conference Submission (2 weeks)
  - Presenting Research II: The Joy of Peer Review (2 weeks)
  - Presenting Research III: Conference Presentation, Attendance, and Beyond (2 weeks)
- All lecture materials and assignments will be available on the course websites for 690A and 690B.
- The lectures and displays (and all material) delivered or provided in this course by the instructor, including any visual or audio recording thereof, are subject to copyright owned by the instructor. It is prohibited to record or copy by any means, in any format, openly or surreptitiously, in whole or in part, in the absence of express written permission from the instructor any of the lectures or materials provided or published in any form during or from the course.

## Evaluation Scheme (Tentative)

- 690A:

Assignments (2)	30%	TBA
In-class presentation	20%	TBA
Tests (2)	50%	TBA

- 690B:

Assignments (2)	40%	TBA
In-class presentation	20%	TBA
Project	40%	TBA

- There will be no supplementary assignments or exams. Marks for missed assignments or exams (with appropriate documentation) will be assigned at the instructor's discretion on a case-by-case basis.
- Your final course mark for 690A/B = (40% 690A mark) + (60% 690B mark)

## Recommended Readings

TBA

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*Created: July 15, 2022*

*Last Modified: July 15, 2022*