

CSE 302LR: Introduction to Experiential Learning/Research (Section B) - Fall 2025

Lecture 1: Introduction & Course Logistics;

Build your resume as a researcher

8/26/2025

Clemen 217, 3:30 pm - 4:50 pm. In-person attendance required.

Find more on course website:

<https://cse.buffalo.edu/adblab/elrr/>

What this course is about?

- Research experience and training
 - What is it like being a researcher? Is this the career path for me?
- You work with a faculty mentor in a research team
 - Learn new stuff (research skills)
 - Tools, programming languages, systems, proof techniques, etc.
 - How to read papers
 - How to form hypothesis, design experiments and analyze results
 - How to present
 - Practice in real research project

Responsibility and work ethics

- Research is not homework assignment
 - Keep motivated
 - Be proactive and communicate with your mentor and peers
 - Take risks but also be open-minded
 - Be responsive -- respond to emails/messages regularly
- There is no guarantee that you'll be successful even if you're smart and you work hard!
 - However, we don't grade you based on outcome.
 - Progress is all that matters.

Contact hours and grading

- Required in-person lectures: every Tuesday, 3:30 pm- 4:50 pm @ Clemen 217
 - Skills training (tentatively: [The Missing Semester of Your CS Education](#))
- Weekly project meeting with your team
 - Contact your project mentor
 - Usually 1 hour
 - Not necessarily during scheduled lecture times
- Assignment will be announced by this Thursday (8/28)
 - Please check your emails
 - You may be asked to join additional meetings within the week
- Grading
 - See [syllabus](#) on course website

Available Projects of Fall 2025

- 5G core network (with [Prof. Yaxiong Xie](#))
 - measurement, network protocols
 - preferred skills: Linux, C programming
- Bioinformatics (with [Prof. Wenyao Xu](#))
 - wireless, machine learning, etc.
- Approximate Query Processing in PostgreSQL (with [Prof. Zhuoyue Zhao](#))
 - database systems, (SQL) query processing and optimization
 - preferred skills: C and C++ programming, data structures and algorithms

Today's agenda

- Introduce yourself
- What to include in a resume/CV of a researcher
- Next week
 - Create a professional resume using LaTeX (pronounced as “Lay - Tech” or “Lah - Tech”)
 - Required reading by next Tuesday lecture
 - [The Not So Short Introduction to LaTeX 2 \$\epsilon\$](#) (Chapters 1 - 3)
 - We will assume you are familiar with the basics