

## Need Upper Division or Graduate Credit? Computing for Research Labs

Learn about hardware, software, programming, networking and more! This friendly 2-credit class uses practical experience to supplement lectures:

- Learn what's inside your computer so you can make good buying choices.
- Learn to identify ports and cables, so you never buy the wrong cable again!
- Learn about networking, so you can identify and solve your connection problems.
- Learn database concepts and how to better handle spreadsheet data with Microsoft Excel, Microsoft Access, OpenRefine, and Tableau.
- Learn to use Python, Matlab and Unix.
- Learn best practices for naming and organizing the contents of your research directories.
- Learn about creating and optimizing videos.
- And much more!

Please sign up for 2 credits of SLHS 497 / 597, Spring 2021, scheduled on Thursday afternoons from 1pm to 3pm. The class is entirely online but can be taken asynchronously, if Thursday afternoons is not convenient!

If you have any questions, contact Dianne Patterson: [dkp@email.arizona.edu](mailto:dkp@email.arizona.edu)

### Description of Course:

Research labs need computationally competent students. Students must be comfortable enough with computers to determine whether the machines, network and software are working correctly, and to identify and solve or avoid common problems. This course provides fundamental concepts, vocabulary and advice to enable students to be more confident, productive and organized members of the research lab.

Students are responsible for watching the lectures, completing weekly feedback and reviews, several practicums, and a final project. The feedback and reviews will reinforce new concepts and allow us to identify and resolve any confusion.

This course is ideal for students who would like to work in a research lab, or who would like to improve their abilities to contribute to research by improving their technical expertise. **I do not assume you know anything about computers! Students with a broad range of backgrounds have benefitted from this class, learned about new software, and felt more confident in their abilities after finishing it.**