

## UC DAVIS Course Descriptions

### **Animal Subject in Research**

This course covers the history of laboratory animal science, laws and regulations covering research/teaching animals, the role of the Institutional Animal Care and Use Committee (IACUC), and the role of laboratory staff.

### **Biosafety and Laboratory Safety**

This course covers general biosafety and laboratory safety.

### **Conflict of Interest**

This course covers the three main areas where disclosure of outside activities is required: Research sponsor/grant disclosure requirement, financial conflict of interest disclosure requirement in research, and conflict of commitment disclosure requirements (outside activity reporting). It also includes international relationships and activities at UC Davis, institutional responsibilities, best practices, and case studies.

### **Contemporary Ethical Issues in Biomedical Research**

This course covers the bridge between research reproducibility and rigor and research ethics. It includes information on what makes biomedical research trustworthy and how the system is supposed to work to assure scientifically and ethically sound research.

### **Creating a Culture of Belonging**

Addresses ethical behaviors in mentor/mentee relations and fostering a culture of inclusion in the lab. Participants will learn how historically salient identities such as race, gender, sexuality, class, nationality, and disability can impact mentorship.

## **Export Control**

This course covers the purpose of export control laws, laws and regulations covering export control, embargoed countries and impact on UC Davis activities, defines what an export and U.S. person is, the fundamental research exclusion and its limitations, what to do to protect your data before international travel, and red flag activities.

## **Financial Management of Grants**

This course covers making good decisions about what costs on a grant are allowable, allocable, reasonable/necessary, and consistent. It also includes what is a direct vs. indirect cost, allocating costs among multiple projects, and the Principle Investigator's responsibilities.

## **Human Subjects in Research**

This course covers the history of humans used in research, modern ethical abuses, laws and regulations, the role of The Institutional Review Board (IRB), key considerations when conducting research with human subjects, and case studies.

## **Intellectual Property**

This course covers technology transfer services which include patents, trade secrets, copyrights, confidentiality agreements, and material transfer agreements. It also defines what intellectual property is, why we have patents, types of patents, patentable eligibility, foreign patent filings, technology transfer process, and UC Davis royalty policy.

## **Mentor/Mentee Responsibilities and Relationships**

This course covers the qualities of an outstanding mentors, what to look for in a mentor, establishing expectations with one another, issues to consider, tips for mentees, and best practices in mentoring.

## **Peer Review**

This course covers what peer review is, the process and writing of reviews, potential conflict of interest, when to accept invitations, anonymity vs. signed reviews, and some do's and don'ts.

## **Research Misconduct**

This course covers what research misconduct is, how to report research misconduct, the process after an allegation is reported, federal and UC Davis policies, why research ethical standards are needed, case studies, fabrication, falsification, and plagiarism.