

# Streamlined Syllabus: BIOL 420: Responsible Conduct of Research

1 credit hour

Spring 2023 Friday, 11:00 - 11:50 AM

Room 3012, Haworth Hall

## Course Description

This seminar (Responsible Conduct of Research) establishes basic principles for carrying out research in an ethical manner. The course will consist of a series of guest lectures covering topics of responsible conduct of research. This seminar will also include a group project (described below). This course fulfills the requirements of NIH-supported training programs MARC, BRIDGE and PREP at the University of Kansas.

## Course Schedule

Date	Topic	Presenter
Jan 20	Introduction, course requirements, general comments on the responsible conduct of research	Viena Thomas <i>Ph.D. candidate, Chemistry</i> <i>MARC program coordinator</i>
Jan 27	Interactive video "The Lab" <a href="https://ori.hhs.gov/TheLab/TheLab.shtml">https://ori.hhs.gov/TheLab/TheLab.shtml</a>	Paul Hanson, Ph.D. <i>Professor, Chemistry</i> <i>MARC PI</i>
Feb 3	Laboratory safety	Mike Russell <i>Director of KU EHS</i>
Feb 10	Conflict of Interest and Commitment	Kristi Neufeld, Ph.D. <i>Professor, Molecular Biosciences</i> <i>PREP mentor</i>
Feb 17	Data Acquisition, Data Management, Sharing and Ownership/Fabrication and Falsification of Data	Paul Hanson, Ph.D. <i>Professor, Chemistry</i> <i>MARC PI</i>
Feb 24	Plagiarism	Josie Chandler, Ph.D. <i>Assoc. Prof, Molecular Biosciences</i> <i>PREP mentor</i>
Mar 3	Reproducibility and rigor of published data	Ed Rosa-Molinar, Ph.D. <i>Professor, Pharm &amp; Tox</i>
Mar 10	Mentor/Trainee Responsibilities	Pauly Cartwright, Ph.D. <i>Professor, EEB</i> <i>ODST Director, MARC PI</i>

Mar 24	Publication Practices, Responsible Authorship, Collaborative Science	Adam Smith, Ph.D. Assoc. Prof., <i>Pharm &amp; Tox</i> <i>PREP PI, mentor</i>
Mar 31	Care and Use of Animals in Research	Rob Moyle, Ph.D. <i>Professor, EEB</i> <i>IACUC Chair</i>
Apr 7	Human Subjects	Alyssa Haase <i>Human Protection Program</i> <i>Administrator, KU Office of</i> <i>Research</i>
Apr 14	Present at KU-Haskell ODST Student Research Symposium: No Class	
Apr 21	Peer Review of Manuscripts and Grants	Zarco Boskovic, Ph.D. <i>Asst. Prof, Medicinal Chem</i> <i>MARC mentor</i>
Apr 28	Final Project Presentations	
May 5	Final Project Presentations	

### Final Project

The last two classes will be reserved for sharing group projects. Examples of group projects include video presentations, re-enactments, development and discussion of case studies, examples of individuals found guilty of scholarly misconduct and the penalties imposed on these individuals and their institutions. You are encouraged to explore your creativity.

### Course Grades

- Attendance (60%)
- Participation in discussions (30%)
- Completion of a final group project (10%)

### Suggested Resources

Macrina, F. L. *Scientific Integrity: Text and Cases in the Responsible Conduct of Research*. 4th Edition. ASM Press, Washington, DC, 2019