

Scientific Writing and Hypothesis Testing

MBIO 623

Summer 2018

Time: Tuesday 2-4pm

Place: Room 601 CTRB

2 hour lecture/interactive discussion sessions

The course will involve didactic lectures, student presentations, and discussion that will be integrated into the 2 hour class period. Students will be graded on their performance in course participation and attendance.

Course Description: This course will teach students writing and presentation skills necessary to compete successfully for grant funding, and more generally to succeed as a scientist. Topics covered in this course include how to write Abstract, Specific aims, Significance and Approach sections, and how to prepare an effective biosketch. Didactic lectures on these topics will be combined with in class presentations by students.

<u>Date</u>	<u>Faculty</u>	<u>Title</u>
5/8	Salter	Course Overview-Introduction to Grants and Proposal Writing
5/15	Salter	Writing Project Summary and Specific Aims
5/22	Salter	Writing Significance and Innovation sections, Preliminary Data
5/29	Salter	Student Presentations of Specific Aims
6/5	Salter	The Approach section
6/12	Egilmez	Biosketch preparation, environment and resources description
6/19	Salter	Overview of review process at CSR-NIH
6/26	Salter/ Kosiewicz/ Egilmez	Mock Study Section

Learning Objectives

Upon completion of the course, the student will be able to describe how grant proposals are organized, written, and reviewed. Students will develop scientific writing skills applicable to grant proposal submission, and receive feedback on written sections of proposals that they have submitted as class assignments.

Course Director

Russell Salter, Ph.D., Department of Microbiology and Immunology, K Wing, Room 2021.
Telephone: (502) 852-3740; email: rdsalt01@exchange.louisville.edu

Online Material

https://grants.nih.gov/grants/grant_tips.htm

Reference Material

The CRAFT of Scientific Writing: 3rd Edition, by Michael Alley, Springer (1996)
The Elements of Style: 4th Edition, by Strunk and White, Longman (1999)

Class Cancellations

An assignment will be placed on the Blackboard site for this course in the event that a class is cancelled. Completion of this assignment by the given due date will count toward class attendance for the day class was cancelled.

Grading

The course will be P/F. Students are expected to attend class meetings and actively participate in class presentations and during discussions.

Policy on Instructional Modifications

"The University of Louisville is committed to providing access to programs and services for qualified students with disabilities. If you are a student with a disability and require accommodation to participate and complete requirements for this class, notify me immediately and contact the Disability Resource Center (Stevenson Hall, 852-6938) for verification of eligibility and determination of specific accommodations."

Title IX/Clery Act Notification

Sexual misconduct (including sexual harassment, sexual assault, and any other nonconsensual behavior of a sexual nature) and sex discrimination violate University policies. Students experiencing such behavior may obtain **confidential** support from the PEACC Program (852-2663), Counseling Center (852-6585), and Campus Health Services (852-6479). To report sexual misconduct or sex discrimination, contact the Dean of Students (852-5787) or

University of Louisville Police (852-6111).

Disclosure to **University faculty or instructors** of sexual misconduct, domestic violence, dating violence, or sex discrimination occurring on campus, in a University-sponsored program, or involving a campus visitor or University student or employee (whether current or former) is **not confidential** under Title IX. Faculty and instructors must forward such reports, including names and circumstances, to the University's Title IX officer.

For more information, see the Sexual Misconduct Resource Guide (<http://louisville.edu/hr/employeerelations/sexual-misconduct-brochure>).