

Katie Bolling

Kbolling@louisburg.edu

Teaching Experience

Assistant Professor of Biology, Fall 2018 – Present

Department of Math, Science, & Health, Louisburg College

Courses taught: General Biology II, Principles of Biology, Human Biology, Cooperative Field Work

- Design and implement active learning-based curriculum for biology courses
- Coordinate job-shadowing experiences for students in Medical, Sports, Health, Agricultural, and Environmental Science degree programs
- Develop and execute assessment strategies for biology courses consistent with SACS guidelines • Collect and report assessment data for each course
- Cultivate positive relationships with students through open communication, clear expectation, regular feedback with encouragement, and fostering a supportive learning environment • Serve as academic advisor for 30-40 students per semester
- Received The Naomi Dickens Shaw Award for Faculty Teaching Excellence in May 2023

Instructor/Adjunct Instructor, Fall 2017 – Fall 2018

Life Sciences Department, Wake Technical Community College

Courses taught: General Biology I

- Taught lecture and laboratory sections of General Biology I
- Implement active learning-based curriculum centered around introductory biology, including biological chemistry, cell biology, genetics, biotechnology, and evolution
- Instruct students in basic laboratory techniques that reinforce lecture material

Adjunct Instructor, Spring 2017 – Spring 2019

Science Department, Durham Technical Community College

Courses taught: Genetics, General Biology I, General Biology II lab

- Taught lecture and laboratory sections of several biology courses
- Developed active learning-based curriculum centered around gene expression, molecular biology, Mendelian and non-Mendelian inheritance, biotechnology, biological chemistry, cell biology, genetics, biotechnology, and evolution
- Instructed students in laboratory techniques, including a multi-week cloning project, DNA sequencing, and basic laboratory skills

Teaching Assistant, Spring 2015 – Fall 2016

Biology Department, University of North Carolina at Chapel Hill

- Taught 4 recitation sections weekly, presenting material and guiding students through classwork in Genetics & Molecular Biology
- Tutored students outside of class and held study sessions before each exam

Academic Service

Roger Taylor Honors Program of Louisburg College, January 2022 – Present

Director

- Recruit high-achieving students to the Honors Program on behalf of the college •
- Oversee completion of Honors coursework and research projects each semester •
- Provide career and transfer planning guidance to Honors students

Phi Theta Kappa, Gamma Upsilon chapter, January 2022 – Present

Chapter Advisor

- Recruit students to the Gamma Upsilon chapter of the honor society
- Induct new members annually
- Oversee all chapter meetings and events
- Serve as liaison between PTK International Headquarters and the Gamma Upsilon chapter

Louisburg College Division of Math, Science and Health, Fall 2019 – Present

Secretary

- Record minutes for all division meetings
- Relay minutes to division executive director and faculty members

Faculty Senator, Fall 2024 – Spring 2026

Senate Chair

- Facilitated communication between faculty, administration, and other campus divisions •
- Presented faculty perspectives to senior leadership and the Board of Trustees • Lead revision and publication of the Faculty Handbook in 2025

SACS Accreditation Report, 2025

Co-writer & Editor, Section 8.2

- Trained faculty in narrative report writing
- Revised and authored sections of accreditation reports addressing standard 8.2

Faculty Senator, Fall 2021 – Spring 2023

Senate Secretary

- Recorded minutes for Faculty Senate and Faculty affairs meetings
- Relayed minutes to Faculty Senate chairs and school administrators

Science Outreach & Communication

North Carolina DNA Day CONNECT, 2014 - 2016

Co-founder, Co-Director

- Established science outreach program to expand upon the existing NC DNA Day and build lasting relationships between researchers and North Carolina high school classrooms
- Recruited teachers and UNC-Chapel Hill graduate students, postdoctoral fellows, and professors •
- Planned and lead monthly volunteer meetings
- Directed collaboration with NC DNA Day and other science outreach programs •
- Presented program information at 2016 Bridging the Gap Conference Outreach Expo

North Carolina DNA Day, 2014 - 2016

Social Media and Web Specialist, Research Ambassador

- Maintained an active social media presence for DNA Day
- Promoted NC DNA Day events through social media and email

- Visited NC high school classrooms annually to present interactive lessons on genetics and related topics

Education

MS University of North Carolina at Chapel Hill Dec 2016 Genetics and Molecular Biology

Research Advisor: A. Gregory Matera

BS Virginia Polytechnic Institute and State University May 2013 Biochemistry

Graduated Magna Cum Laude

Minor in Chemistry