

BIOL 4896 - Introduction to Biomedical Research

Fall 2026 Syllabus, Section 01, CRN 41357,

Credit hours: 2

Instructor

Jill Tall

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Public Instructor Information

Instructor Title: Associate Professor

Instructor Professional Qualifications:

Ph. D. (2001), Biomedical Sciences, Major Focus – Neurobiology, Minor Focus – Pharmacology, Kent State University in cooperation with Northeastern Ohio Universities College of Medicine

Bachelor's (1996), Zoology, Arizona State University

Instructor Office Location: Ward Beecher Hall #4026

Instructor Office Phone: 330-941-1387

Course Description

4896. Introduction to Biomedical Research. The class will introduce students to processes and strategies at the core of modern biomedical research. Students will develop an understanding of experimental design, experimental implementation, data evaluation and communication. Prereq.: BIOL 3730. Cross-Listed: BIOL 6904. 2 s.h.

Course Readings

Group	Title	Author	ISBN
Optional	Introduction to Research and Medical Literature for Health Professionals	J. Glenn Forister, J. Dennis Blessing	9781284034646

The course readings are subject to change in the event of extenuating circumstances, research developments, current events, and/or to ensure better learning.

Schedule of Topics and Assignments

Day	Date	Reading(s)	Proposed Topic	Due/To Prepare for Class
Thu	8/27		Course Introduction	
Thu	9/3	Chapter 1 and 3	Introduction to Research	
Thu	9/10	Chapter 4	Searching, Reviewing, and Understanding the Literature	
Thu	9/17	Chapter 2	Institutional Review Board Institutional Animal Care and Use Committee	
Thu	9/24	Chapter 6, 7, and 10	Research Design and Protocol Writing	
Thu	10/1		EXAM 1	
Thu	10/8	Chapter 11 and 12	Introduction to Biomedical Research	
Thu	10/15		Introduction to Biomedical Research	
Thu	10/22	Chapter 13	Data Presentation: Figures, Tables, and Charts	
Thu	10/29	Chapter 14 and 16	Scientific Communication	

Thu	11/5	EXAM 2
Thu	11/12	Penguin Tank Presentations
Thu	11/19	Penguin Tank Presentations
Thu	11/26	No Class
Thu	12/3	Extemporaneous Speak-a-Thon
Thu	12/10	No Class

The course schedule, policies, procedures, and assignments in this course are subject to change in the event of extenuating circumstances, by mutual agreement, and/or to ensure better learning.