

BIOL 2603H - Honors Integrated Biology

Summer 2026 Syllabus, Section 01, CRN 30520,

Credit hours: 4

Instructor

Jill Tall

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

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Course Description

2603H. Honors Integrated Biology . This course is an introduction to general biology that focuses on those aspects of biology that are the fundamental basis of medicine and human biology. Restrictions: Admittance to BS in Biochemistry or Electrical and Computer Engineering with a Biomedical emphasis. 4 s.h.

Course Readings

Group	Title	Author	ISBN
Optional	Human Anatomy & Physiology	Elaine N. Marieb and Katja Hoehn	

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
Tue	6/30	Week 1: Foundations of Life and Homeostasis	Why Biology Matters in Medicine	Learning Loop 1
Thu	7/2		Cells: Structure and Function	
Tue	7/7	Week 2: Cells as Communicators	Cell Signaling and Communication	Learning Loop 2
Thu	7/9		Cell Cycle	
Tue	7/14	Week 3: From Cells to Symptoms	Quiz	Learning Loop 3
Thu	7/16		Learning Loop 3	
Tue	7/21	Week 4: Genetics	Exam 1 DNA, Genes, and Inheritance	
Tue	7/28	Week 5: Homeostasis and Physiological Regulation	Homeostasis and Feedback Systems	Learning Loop 4
Thu	7/30		Nervous and Endocrine Systems	
Tue	8/4	Week 6: Transport and Survival	Cardiovascular System	Learning Loop 5

Thu	8/6		Respiratory System
Tue	8/11	Week 7: Defense and Adaptation	Immunity and Infectious Disease
Thu	8/13		Exam 2

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.