

JAMESTOWN COMMUNITY COLLEGE
State University of New York

INSTITUTIONAL COURSE SYLLABUS

Course Title: Human Biology Lecture

Course Abbreviation and Number: BIO 1501

Credit Hours: 3

Course Type: Lecture

Course Description: This course explores the basic biological structures, systems and processes that define human life. Students will learn about the chemical basis of life, cellular structure and metabolism, tissues, and an overall survey of the organ systems of the body. Through lectures and interactive activities, students will explore recent developments in science and medicine and the mechanisms behind human health and disease.

Eligibility: ENG 1510 without supports or **Corequisite:** ENG 1510 with supports and **Corequisite:** BIO 1502.

General Education Requirements Met

SUNY

Natural Sciences

JCC

Scientific Reasoning

Student Learning Outcomes:

Students who demonstrate understanding can:

1. Analyze the interdependent relationship between the structures of the body systems covered and their physiological functions as well as diseases/disorders that can occur and apply those concepts to real-world health scenarios. Apply principles related to the structures, functions, and major chemical traits of the biomolecules (carbohydrates, lipids, proteins, and nucleic acids) found in the human body.
 2. Application of scientific data, concepts, and models in one of the natural sciences. [SUNY Gen Ed – Natural Sciences SLO 2] Classify tissue levels of organization and demonstrate how they relate to organs and organ systems.
 3. Recognize the importance of ethical behavior in fostering a community of mutual respect and dignity [Values and Ethics] Identify (and recognize the evidence for) several major environmental problems; identify or describe their impacts on life on earth
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Topics Covered:

- Chemistry of Life
 - Cell Structure and Function
 - Cardiovascular System
 - Lymphatic System and Immunity
 - Digestive System and Nutrition
 - Respiratory System
 - Urinary System
 - Skeletal System
 - Muscular System
 - Nervous System
 - Senses
 - Endocrine System
 - Reproductive System/Genetics
 - Development and Aging
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Information for Students

- Expectations of Students
 - [Civility Statement](#)
 - [Student Responsibility Statement](#)
 - [Academic Integrity Statement](#)
 - [Accessibility Services](#)

Students who require accommodations to complete the requirements and expectations of this course because of a disability must make their accommodation requests to the Accessibility Services Coordinator.
 - [Get Help: JCC & Community Resources](#)
 - [Emergency Closing Procedures](#)
 - Course grade is determined by the instructor based on a combination of factors, including but not limited to, homework, quizzes, exams, projects, and participation. Final course grade can be translated into a grade point value according to the following:

A=4.0	B+=3.5	B=3	C+=2.5	C=2	D+=1.5	D=1	F=0
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 - Veterans and active duty military personnel with special circumstances (e.g., upcoming deployments, drill requirements, VA appointments) are welcome and encouraged to communicate these to the instructor.
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Effective Date: Fall 2026