



BIO 110 Introductory Biology I

<p>Instructor Information: Dr. Todd Fredericksen tfredericksen@ferrum.edu 540-493-3132 (cell) 540-365-7400 (home)</p>	<p>Office Hours:</p> <ul style="list-style-type: none"> • Virtual office hours for immediate response via online chat Monday-Friday 9-11 a.m. • Video chat available through Google Meet (or Zoom) by request. • If these do not work well with your schedule, please email your professor. <p>Note: emails will be answered within 2 hours on weekdays and 4 hours on weekends – please return the same courtesy, and check your email as I may try to reach you as well.</p>
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COURSE DESCRIPTION

A survey of the diversity of living organisms, human biology and ecology. (4 credits)

Prerequisite: None

COURSE STRUCTURE

This course is conducted entirely online, which means students do not have to be on campus to complete any portion of it. Access to a computer with internet access is required. Students will participate in the course using Ferrum's Online Course Management System called Brightspace (ferrum.desire2learn.com) Students will use their Student ID number and create a private password to access Brightspace. Within Brightspace, students will access online lessons, course materials, and resources. At designated times throughout the course, students will participate in a blend of self-paced and group paced activities using Brightspace and additional internet-based technologies. Activities will consist of discussion forums, course readings, papers, assignments, and exams. Assigned faculty will support the students throughout this XX (length of course—8 (7) or 15-week) week course.

COURSE REQUIREMENTS

Required Materials:

OpenStax College, *Biology*.

Download as PDF file from web page on Brightspace or download for free at:
<https://openstax.org/details/biology>

Required Readings:

Ancillaries to the textbooks (e.g., lectures, articles, etc.) will be posted on Brightspace

Additional Materials for Learning:

- Computer with basic audio/visual output equipment
- Internet access (broadband recommended)
- Microsoft Office
- Google Education Suite (provided via your Ferrum College email account)

Brightspace Requirements:

To ensure compatibility with Brightspace, enable JavaScript and Cookies on your browser, and disable pop-up blockers. In addition, you must have Adobe Flash Player 10.1 or later. Information about preferred compatible browsers for use with Brightspace are available at the following website:

https://documentation.brightspace.com/EN/brightspace/requirements/all/browser_support.htm

COURSE OBJECTIVES AND PROGRAM STUDENT LEARNING OUTCOMES

Upon completion of this course, students will:

1. understand the fundamental concepts of mammalian anatomy and physiology.
2. be able to appreciate the various forms and diversity of plant and animal life.
3. understand basic ecological principles.
4. be familiar with the process of scientific inquiry.

ASSIGNMENTS

All assignments for this course will be submitted electronically through Brightspace unless otherwise instructed.

Category	% of grade
Online quizzes	20
Virtual lab assignments	15
Exams	45
Presentations	20
Total	100

*More information about each assignment/assessment will be provided on Brightspace.

Forums in our class:

- Student lounge (a place for students in your class to connect and chat about non-course related things)
- Q&A (a general Q&A forum for general questions where students can answer each other as well as the professor)
- As the Professor (Forum for asking non-personal questions to the professor).

SCHEDULE OF TOPICS / ASSIGNMENTS		
Module	Topic	Assignments
1	Diversity of Life - Viruses, Prokaryotes	Online Quiz 1
2	Diversity of Life - Protists, Fungi	Online Quiz 2, Virtual microscope lab
3	Diversity of Life - Plants	Online Quiz 3, Plant taxonomy lab
4	Diversity of Life - Invertebrates	Online Quiz 4, Invertebrate lab
5	Diversity of Life - Vertebrates	Exam 1
6	Ecology - Autecology	Online Quiz 5
7	Ecology - Populations	Online Quiz 6, Population lab
8	Ecology - Communities	Online Quiz 7, Community lab
9	Ecology - Ecosystems	Online Quiz 8, Ecosystem lab
10	Ecology - Biomes	Biome Presentation, Exam 2
11	Systems of the Body - Skeletal, Muscular	Online Quiz 9, Virtual skeleton lab
12	Systems of the Body - Digestive, Excretory	Online Quiz 10, Virtual pigeon
13	Systems of the Body - Respiratory, Circulatory	Online Quiz 11, Virtual fetal pig
14	Systems of the Body - Nervous, Endocrine	Online Quiz 12, Systems of body presentation
15	Systems of the Body - Immune, Reproductive	Exam 3

GRADING SCALE

90-100% A 80-89% B 70-79% C 60-69% D <59% F

V. GENERAL POLICIES

Academic Integrity:

In all instances, policies identified in the Ferrum College Catalog and the Ferrum College Student and Faculty Handbooks regarding the Honor System shall be followed. Specifically, do not:

- Cheat.
- Plagiarize, that is, use another person's words or ideas as your own without proper documentation.
- Collaborate with others unless specifically requested in an assignment or discussion.
- Let another student login to your Brightspace account.

Failure to follow this policy will result in disciplinary action which can affect your academic standing in the College.

Online Attendance Policy:

Ferrum College policy dictates that attendance is expected and that students are responsible for all course work assigned in their online courses. Simply logging into an online course is not sufficient, by itself, to demonstrate academic attendance by a student. In an online course what constitutes attendance is determined by the instructor. These requirements may include, but are not limited to, submission of an academic assignment, exam, online discussion forum post, or emailing the course instructor.

If a student is unable to complete work or misses a course deadline for any reason, the student must account for the "absence" with their instructor. The instructor, in consultation with the Director of the School of Graduate and Online Education Studies and Provost, may determine that unusual circumstances and the student's work in the course justify the assignment of a grade other than F. Unusual circumstances include extended illness or other emergencies, the student's participation in college-sponsored activities, or some combination thereof.

Civility Policy:

Online courses promote the advance of knowledge through positive and constructive debate both inside and outside the classroom. Discussions on the Internet, however, can occasionally degenerate into needless insults and "flaming." Such activity and the loss of good manners are not acceptable in a university setting--basic academic rules of good behavior and proper "Netiquette" must persist. Remember that you are in a place for the fun and excitement of learning that does not include descent to personal attacks, or student attempts to stifle the discussion of others.



Office of Academic Accessibility (OAA):

As directed by Ferrum College's policy, any student with a disability who qualifies for and chooses to seek academic accommodations (such as testing, captioning, or other services) must request accommodations through the Office of Academic Accessibility. The director can be reached by email at nbeach@ferrum.edu and information is available at www.ferrum.edu/accessibility.

Students pursuing academic accommodations must submit appropriate documentation to the director of OAA and follow Ferrum College's OAA established procedures in a timely manner. If you believe you are not receiving the accommodations needed, your responsibility is to immediately contact the director by email, explain your concern to the degree you feel comfortable explaining it in writing, and request an appointment.

Remember that accommodations cannot be granted retroactively; they must be requested in a timely manner before the accommodation is needed.

Tech Support:

Students needing technical assistance with Brightspace at any time during the course or to report a problem can contact Ferrum's 24/7 Brightspace Technical Support Center at: 1-877-325-7778 or Email and Chat available through this link: <https://community.brightspace.com/support/s/>.

Students can also get in-person help if on-campus at the Helpdesk (Main Level of Bassett Hall). Technicians are trained to help students with Brightspace and its tools. It is also helpful if you let me know what kinds of difficulties you encounter so that I can change the course for future students, so they don't have the same issues.

If not on campus, Helpdesk Support is available via email at: helpdesk@ferrum.edu or via phone during normal business hours at: 540-365-4357