BIO 163: Basic Anatomy & Physiology

Approximate Cost

$605.00 *(in-state tuition w/ fees and eText)*

$1,565.00 *(out-of-state tuition w/ fees and eText)*

Credit Hours

5 credit hours

Course Description

This course introduces the principles and concepts of biology. Emphasis is placed on basic biological chemistry, molecular and cellular biology, metabolism and energy transformation, genetics, evolution, and other related topics. Upon completion, students should be able to demonstrate understanding of life at the molecular and cellular levels. *This course has been approved for transfer under the CAA/ICAA as a pre-major and/or elective course requirement.*

Prerequisite(s)

Unweighted high school GPA ≥ 2.8, *or* DRE 098, *or* BSP 4002-T2, *or* ENG 002-T2, *or* ENG 025, *or* ENG 110

Required Textbook/Materials

Biology: Life on Earth with Physiology (cost included in tuition)

Instructor Contact Information

Jane Esala
jfesala56@lenoircc.edu
Lamm (Building 027) 219
(252) 527-6223, ext. 967

Class Registration and Payment Processes

1. Complete and submit an application to Lenoir Community College by **November 16, 2026**.
    - ***Please Note:*** *Applications take up to 2 business days to process.*

2. Select the following when completing the application:
    - **Term:** 2026FA
    - **Major:** Special Credit/Visiting Student
3. If the course you are requesting has a prerequisite, you must submit a transcript with your application showing that you have successfully completed the required prerequisite.
    - An unofficial transcript is acceptable, but it must clearly include your name, the name of the institution, the prerequisite course, and the grade earned.
    - If you are currently enrolled in the required prerequisite course but will not complete it before the holiday term begins, you are not eligible to register for the requested course during the holiday term.
4. Once your application has been processed, contact Dr. Alex Ranieri, Director of Advising and Academic Success at apranieri16@lenoircc.edu. Include the following information in your email:
    - Your full name and student ID
    - Community College course(s) for which you would like to register
5. Payment is due by **November 18, 2026.**
    - Pay online through your MyLCC portal or by calling the Cashier's Office at 252-527-6223, ext. 324.
    - ***Please note:*** *Special Credit/Visiting students are* ***not eligible*** *for financial aid.*

Attendance Requirements

Attendance/participation in Online Learning (OL) courses directly affects students' success in a course. LCC uses the Learning Management System (LMS), Moodle, to deliver OL courses. Students taking Internet courses must submit the Enrollment Quiz in each Internet course in Moodle by the 10% date to establish an initial enrollment date and to be fully enrolled in the course. Students who do not submit the Enrollment Quiz by the 10 % date will be marked as "Never Attend" and dropped from the course. The 10% point of a 5-week course is **Day 2** ***(by 11:59 PM)***. There are **no exceptions** to this policy, and **no refunds** for students who are marked "Never Attend" and dropped from the course. Students should plan to have full access to a device (other than a cell phone) for completing assignments and reliable Internet for the entire 5 weeks of the course. Failure to complete and submit assignments in Moodle every week will result in an automatic Withdrawal from the course, for which there are **no refunds**.

Courses will be available in Moodle by 8:00 AM on the first day of class (November 30, 2026).

Course Grades

You will complete a variety of assignments throughout this course. Each assignment will fall into one of the following categories, with each category contributing a specific percentage toward your overall course grade.

- Exams: 30%
- Labs: 20%
- Assignments: 15%
- Quizzes: 5%
- Project:(Final Product) 30%

Total: 100%

Course Schedule

Important: This holiday-session schedule compresses the regular 16-week course into the holiday-session calendar. No assignments, exams, or course requirements have been removed. Because the holiday session is highly compressed, students should expect a very fast pace and should plan to work on the course every day.

Schedule Notes: All assignments and exams are due by 11:59 PM unless otherwise stated. The schedule may be modified by instructor discretion, course pace, or weather/college circumstances.

Holiday Academic Calendar Dates

Date	Academic Calendar
November 30	Holiday Classes Begin
December 1	10% Date for Holiday Classes / Last Day for 75% Refund for Holiday Classes
December 2	Last Day to Process Withdrawals – 2nd 8-week and 16-week Classes (2:00 p.m.)
December 14	Semester Ends (11:00 p.m.)
December 15	No Class Day
December 16–22	Semester Break
December 18	Last Day to Process Withdrawals – Holiday Classes (2:00 p.m.)

December 23–31	Holiday (College Closed)
December 31	Holiday Classes End

Holiday Session Course Schedule

Week 1 **November 30–** **December 6**	**Unit #1 – Chapters 1–3** • **Chapter 1: Introduction to A & P** • **Chapter 2: Chemical Level of Organization** • **Chapter 3: Cell Structure and Function** **Assignments / Assessments:** • Introductory (Enrollment) Assignment — 10 pts • Chapter 1 Exercise — 5 pts • Chapter 1 Quiz — 5 pts • Chapter 1 Guided Notes — 3 pts • Chapter 2 Exercise — 5 pts • Chapter 2 Quiz — 5 pts • Chapter 2 Guided Notes — 3 pts • Chapter 3 Exercise — 5 pts • Chapter 3 Quiz — 5 pts • Chapter 3 Guided Notes — 3 pts ***Note:*** *All Week 1 work due by 11:59 PM.*
Week 2 **December 7–13**	**Unit #1 – Chapters 4–5; Unit #1 Assessments; Unit #2 begins** • **Chapter 4: Tissue Level of Organization** • **Chapter 5: Integumentary** **Assignments / Assessments:** • Chapter 4 Exercise — 5 pts • Chapter 4 Quiz — 5 pts • Chapter 4 Guided Notes — 3 pts • Chapter 5 Exercise — 5 pts • Chapter 5 Quiz — 5 pts • Chapter 5 Guided Notes — 3 pts • Unit #1 Lecture Exam (Ch. 1–5) — 80 pts • Unit #1 Practical Exam (Ch. 1–5) — 75 pts • Chapter 6: Skeletal Tissue • Chapters 7–9: Axial and Appendicular Skeleton and Joints • Chapter 6 Exercise — 5 pts • Chapter 6 Quiz — 5 pts • Chapter 6 Guided Notes — 3 pts • Chapters 7–9 Exercise — 5 pts • Chapters 7–9 Quiz — 5 pts • Chapters 7–9 Guided Notes — 3 pts • Semester Project Topic Due — 10 pts

	Note: *All Week 2 work due by 11:59 PM.*
Week 3 **December 14–20**	**Unit #2 – Chapters 10–17; Unit #2 Assessments** • **Chapter 10: Muscular Tissue** • **Chapter 11: Axial and Appendicular Muscles** • **Chapters 12–13: Nervous System and Nervous Tissue** • **Chapters 14–15: General and Special Senses** • **Chapter 17: Endocrine** **Assignments / Assessments:** • Chapter 10 Exercise — 5 pts • Chapter 10 Quiz — 5 pts • Chapter 10 Guided Notes — 3 pts • Chapter 11 Exercise — 5 pts • Chapter 11 Quiz — 5 pts • Chapter 11 Guided Notes — 3 pts • Chapters 12–13 Exercise — 5 pts • Chapters 12–13 Quiz — 5 pts • Chapters 12–13 Guided Notes — 3 pts • Chapters 14–15 Exercise — 5 pts • Chapters 14–15 Quiz — 5 pts • Chapters 14–15 Guided Notes — 3 pts • Chapter 17 Exercise — 5 pts • Chapter 17 Quiz — 5 pts • Chapter 17 Guided Notes — 3 pts • Unit #2 Lecture Exam (Ch. 6–17) — 80 pts — Completed on ProctorU; schedule exam PRIOR to taking it • Unit #2 Practical Exam (Ch. 6–17) — 75 pts — Completed on Moodle (No Proctor required) ***Note:*** *December 18: Last day to process withdrawals for Holiday Classes (2:00 PM).*
Week 4 **December 21–27**	**Unit #3 – Chapters 18–22; Semester Project; Unit #3 Assessments** • **Chapter 18: Blood** • **Chapter 19: Heart** • **Chapter 20: Blood Vessels** • **Chapter 21: Lymphatics and Immunity** • **Chapter 22: Respiratory System** **Assignments / Assessments:** • Chapter 18 Exercise — 5 pts • Chapter 18 Quiz — 5 pts • Chapter 18 Guided Notes — 3 pts • Chapter 19 Exercise — 5 pts • Chapter 19 Quiz — 5 pts • Chapter 19 Guided Notes — 3 pts • Chapter 20 Exercise — 5 pts • Chapter 20 Quiz — 5 pts

	• Chapter 20 Guided Notes — 3 pts • Chapter 21 Exercise — 5 pts • Chapter 21 Quiz — 5 pts • Chapter 21 Guided Notes — 3 pts • Chapter 22 Exercise — 5 pts • Chapter 22 Quiz — 5 pts • Chapter 22 Guided Notes — 3 pts • Semester Project Due — 90 pts • Unit #3 Lecture Exam (Ch. 18–22) — 80 pts • Unit #3 Practical Exam (Ch. 18–22) — 75 pts ***Note:*** *December 23–27 falls within the college-closed holiday period. Complete assigned work according to Moodle availability and instructor directions.*
Week 5 **December 28–31**	**Unit #4 / Final – Chapters 23–27** • **Chapter 23: Digestive** • **Chapter 24: Metabolism and Energetics** • **Chapters 25–26: Urinary and Fluid Balance** • **Chapter 27: Reproduction** **Assignments / Assessments:** • Chapter 23 Exercise — 5 pts • Chapter 23 Quiz — 5 pts • Chapter 23 Guided Notes — 3 pts • Chapter 24 Exercise — 5 pts • Chapter 24 Quiz — 5 pts • Chapter 24 Guided Notes — 3 pts • Chapters 25–26 Exercise — 5 pts • Chapters 25–26 Quiz — 5 pts • Chapters 25–26 Guided Notes — 3 pts • Chapter 27 Exercise — 5 pts • Chapter 27 Quiz — 5 pts • Chapter 27 Guided Notes — 3 pts • Exit Quiz — 10 pts • Unit #4 Lecture Exam/Final (Ch. 23–27) — 80 pts — Completed on ProctorU; schedule exam PRIOR to taking it • Unit #4 Practical Exam (Ch. 23–27) — 75 pts — Completed on Moodle (No Proctor required) ***Note:*** *December 31: Holiday Classes End. All remaining course work must be completed by the posted deadline, no later than 11:59 PM unless otherwise stated.*