

Mayville State University

BIOL220L, Anatomy & Physiology I Lab

Fall 2025

1 Credit Hours

Course and Instructor Information

Instructor Name: Taylor Kollross, PhD

Contact Information:

Office: SB140

Email: taylor.kollross@mayvillestate.edu

Work phone: 701-788-4791

Hours of Availability:

Monday, Wednesday and Friday: 9:00 AM-11:00 AM

Tuesday and Thursday: 10:00AM-11:00AM

Also available for meetings on other days and times by appointment.

Office Hours Meeting Link: 701-788-4791

Instructional Mode: Online synchronous.

Course Dates: August 25 – December 19. 2025

Time Zone: All times indicated throughout this syllabus reflect Central Time (CT).

Meeting Times and/or Location: NA

Final Exam Time and Location: NA

Zoom or Teams Link

Course Materials and Technologies

Required

[MSU Technology Requirements](#)

Access to Openstax OER textbook (<https://openstax.org/books/anatomy-and-physiology-2e/pages/1-introduction>)

Recommended

Use of Artificial Intelligence in this Course

Forms of AI, such as ChatGPT, can be helpful study tools. However, copying a response from ChatGPT is still plagiarism and is subject to penalty. Use it is a resource, not as the answer.

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Course Description

Two laboratory hours per week. Laboratory topics to be covered are designed to complement the materials studied in [BIOL 220](#). Topics include activities related to cellular structure, micro and macroscopic observations and interpretations of cellular, tissue, integument, skeletal, muscular, cardiac system structures and tissues, and dissection of animal specimens. Activities related to the study of physiology are also included. **Pre-/Co-requisites:** No Pre-/Co-requisites are required.

Course Objectives

To successfully complete this course, the learner will be expected to meet the following objectives, as aligned to Composite Science Education Program Approval Standards through North Dakota's Education Standards and Practices Board (ND ESPB):

- Understand the organization of the human body and anatomical terminology
- Understand the chemical basis of life, cell structure and organization
- Understand the characteristics of the four tissue types.
- Understand the organization and function of the skeletal system.
- Be able to identify the bones of the body.
- Be able to identify the major muscles found in the body.
- Understand the organization and function of the circulatory system, including tracing the path of blood through the heart.
- Understand the organization and function of the lymphatic system and its role in the immune system.
- Understand the inner workings of the immune system and the function of the different cell types.
- Understand the organization and function of the respiratory system in relation to cardiovascular system.

Standards Alignment (Composite Science Education Program Approval Standards-ND ESPB):

13047.1 Composite Science Major/General Science The composite/general science program requires that environmental science be incorporated within other courses or as a separate course. The composite/general science program requires: 1. Coursework in biology, chemistry, physics, and earth science, including: a. Minimum of twenty four semester hours in one area, b. Minimum of twelve semester hours in two other areas, c. Minimum of four semester hours in the fourth area, d. Courses must be from those that the institution allows toward graduation in the science major. 2. Study of mathematics through the pre-calculus level (college algebra and above) and statistics

Course Expectations

Instructor/Student Communication

Students are accountable for all academic communications sent to their Mayville State University email address. Instructor is not responsible for e-mails not responded to if not sent from a non-university e-mail address. Faculty response time can be up to 72 hours.

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Assignments and Assessments

Extensions will not be granted without documentation to support a university approved absence. Unsupported late submissions will receive a zero. All evidence of plagiarized material (whether a classmate, AI, or another resource) will receive a zero. **Lab kits must be purchased for the course.**

Evaluation and Grading

Grading Policies

All assignments will be graded within two weeks of the due date.

Attendance/Participation Policies

Extensions will not be granted without documentation to support a university approved absence. Unsupported late submissions will receive a zero. Attendance will be equal to 100 points during the semester and will contribute towards the final grade. Any unexcused absences will result in a loss of lecture points for that day.

Grading Scale

Grades (%):

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

Breakdown of Grades

Labs	450 points
Exams	100 points
Total	550 Points

Enrollment Verification

Online Course Statement

The U.S. Department of Education requires instructors of online courses to provide an activity which will validate student enrollment in this course. The only way to verify that a student has been in this course is if he, she, or they perform an action in the LMS, such as completing an assignment or taking a quiz. Logging into the LMS is **NOT** considered active course participation. Please complete the designated enrollment verification activity by the date indicated. If it is not complete your enrollment in this course will be at risk.

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Proctor Notification

No proctors are required for this course

Important Student Information

In the Announcements section of the Blackboard Institution Page, you can view, and download the Important Student Information document for the current academic year. It includes information about:

- ✓ Land Acknowledgement Statement
- ✓ Academic Grievance Concerns and Instructor English Proficiency
- ✓ NetTutor - Online Tutoring Program
- ✓ Starfish - Student Success System
- ✓ Students with Documented Disabilities
- ✓ Student Learning Outcomes / Essential Learning Outcomes
- ✓ Academic Honesty
- ✓ Emergency Notification
- ✓ Continuity of Academic Instruction for a Pandemic or Emergency
- ✓ Family Educational Rights and Privacy Act of 1974 (FERPA)
- ✓ Diversity Statement (Title IX)

Essential Studies

As part of Mayville State University's Essential Studies curriculum, this course seeks to prepare students for twenty-first-century challenges by gaining: 1) Knowledge of human cultures; 2) Intellectual and practical skills; 3) Personal and social responsibility; 4) Integrative and applied learning.

Course Timeline/Schedule

1	MON AUG 25	<ul style="list-style-type: none">○ Enrollment verification test○ Enrollment verification discussion post
2	MON SEP 1	<ul style="list-style-type: none">○ Lab kit check○ Verification of lab kit components
3	MON SEP 8	<ul style="list-style-type: none">○ Microscope check and use○ Microscopy Introduction Lab○ Microscopy Introduction Lab Companion Assignment

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4	MON SEP 15	<ul style="list-style-type: none">○ Overview of anatomy
5	MON SEP 22	<ul style="list-style-type: none">○ Water, electrolytes, acid/base○ Water, electrolytes, acid/base companion assignment
6	MON SEP 29	<ul style="list-style-type: none">○ Cell membranes and transport○ Cell membranes and transport companion assignment
7	MON OCT 6	<ul style="list-style-type: none">○ Histology Part 1
8	MON OCT 13	<ul style="list-style-type: none">○ Histology Part 2
9	MON OCT 20	<ul style="list-style-type: none">○ Lab Practical 1 (Weeks 1-8, open note and untimed)
10	MON OCT 27	<ul style="list-style-type: none">○ Integumentary system○ Integumentary system companion assignment
11	MON NOV 3	<ul style="list-style-type: none">○ Skeletal system
12	MON NOV 10	<ul style="list-style-type: none">○ Muscles of the upper limb○ Muscles of the upper limb companion assignment

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13	MON NOV 17	<ul style="list-style-type: none">○ Muscles of the lower limb○ Muscles of the lower limb companion assignment
14	MON NOV 24	<ul style="list-style-type: none">○ Cardiovascular system○ Cardiovascular system companion assignment
15	MON DEC 1	<ul style="list-style-type: none">○ Immune system○ Immune system companion assignment
16	MON DEC 8	<ul style="list-style-type: none">○ Lab Practical 2 (Due 12/16/2025 at 11:59 pm)