



Governing Iowa's Public Universities

In accordance with [Board of Regents policy 3.20](#), the following required information is available below:

Fall 2026

I. Course title and number as designated in the institutional course catalog:

BIOL 1101 Principles of Anatomy & Physiology II Laboratory - All Sections

II. A course description including learning objectives that students are expected to achieve by the end of the course

A. Course Description:

The laboratory portion of the Principles of Anatomy and Physiology I course is designed to expand upon and reinforce the concepts and principles you have learned in lecture, and to give you a basic understanding of human anatomy and physiology. Laboratory activities will include anatomical terminology, basic microscopy, membrane physiology, tissues, the skeletal system, and the human muscular system.

B. Course Level Learning Objectives:

1. Build a foundational knowledge of anatomical structures, specialized cells, tissues, bones, muscles, organs, vasculature, and nerves in which can be built upon to include physiology in successive courses.
2. Use anatomical terms correctly in each of the body systems studied.
3. Communicate information related to each of the systems studied through written, verbal, or media formats using biological terms, concepts, and graphical representations property.
4. Apply concepts learned in each system to various clinical application scenarios.
5. Describe various disorders of each of the systems studied.
6. Complete lab activities as described.
7. Use critical thinking and problem-solving skills, including, but not limited to, inferring, integrating, synthesizing, and summarizing, to make decisions, recommendations and predictions when performing and following completion of lab activities.

III. A general outline of the topics to be covered throughout the course:

Topics: Microscopy; Cell Membrane Transport; Tissues (Epithelium, Connective, Muscle, and Nervous); Bone Identification, Bony Landmarks, and Surface Anatomy; Muscle Identification and Actions; Vessel Identification, and Organ Identification.



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IV. List of required textbooks, readings, and other materials necessary for the course

Lab Manual: Anatomy and Physiology Lab Manual with SynDaver Anatomy, Pre-Nursing and Allied Health Edition, 2024 ISBN 978-1-7331989-3-6. by McDade et. al.

V. General description of the types of assessments used in the course (e.g., exams, papers, projects, experiential learning):

This course uses the following types of assessments:

1. Participation in weekly laboratory activities: Active participation in each activity is required to obtain a general understanding of topics and concepts covered each week.
2. Assignments: Consisting of short answer, multiple choice, fill-in the blank, true/false, mix and match style items and virtual labs. Purpose is to help students connect the weekly laboratory activities into the concepts discussed so they can apply this knowledge and “problem solve” and receive feedback so they are ready to take exams.
3. Quizzes: Short quizzes over clinical applications concepts and material covered in each unit. Consists of multiple choice, short answer, fill in the blank, and true/false questions.
4. Lab Practicals: Visual identification of anatomy combined with some short answer questions.