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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 1102 -01 Principles of Anatomy & Physiology II Lecture

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

A. Course Description:

Continuation of BIOL 1101. Human organ systems covered include a continuation of the nervous system, the cardiovascular system, lymphatic and immune system, respiratory system, digestive system, urinary system (including acid-base balance), endocrine system, and reproductive systems, including cell division and basic concepts of genetics. Limited to students entering the UNI BSN program, traditional-track pre-nursing, pre-sonography, pre-radiography, or 3+1 Health Sciences. Others must have the consent of the department head. Not for biology, kinesiology, or most other majors pursuing graduate-level professional medical programs. Students pursuing occupational therapy programs should consult with prospective programs to determine if BIOL 1101 and 1102 are acceptable for admission. Discussion, 3 periods; lab, 2 periods. Prerequisite(s): C- or better in BIOL 1101 or equivalent.

B. Course Level Learning Objectives:

1. Describe the connection and relationship between structure and function of organs and organ systems in the human body incorporating recalled information learned in the previous series of this course (1101).
2. Use anatomical terms correctly in each of the body systems studied (integumentary, skeletal, muscular, and nervous).
3. Communicate information related to each of the systems studied through written, verbal, or media formats.
4. Use biological terms, concepts, and graphical representations properly in written and oral communication.
5. Apply concepts learned in each system to various clinical application scenarios.
6. Describe various disorders of each of the systems studied.
7. Correctly describe anatomical structures, mechanisms of action, and physiology of each of the body systems studied. (Examples: blood flow through the heart, blood clotting, kidney function, digestion and absorption of nutrients, positive and negative feedback interactions in menstrual cycle).
8. Define and provide examples of how the body maintains homeostasis, including positive and negative feedback systems.
9. Describe the interdependency and interactions of the studied system on each other; how they function together.

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

Topics: Autonomic Nervous System, Mimetics, and Blockers; Blood Elements and Clotting; Heart Anatomy and Cardiovascular Function (Includes Blood Vessels and Blood Pressure); Lymphatic System Anatomy and Function; Immunity (Specialized Cells) and Function; Respiratory System Anatomy and Function; Digestive System Anatomy and Function; Urinary System Anatomy and Function; Reproductive Systems Anatomy and Function; and Genetics.

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

Lecture

Textbook: Anatomy & Physiology (includes A&P Online course), 11th Edition (includes physical textbook)- ISBN 9780323775717 by K.T Patton, F.B. Bell, T. Thompson, and P.L Williamson. Elsevier Publishing.

OR

Online Access Code Only (REQUIRED): Anatomy & Physiology {Online Course), 11th Edition ISBN 9780323791106 by K.T Patton, F.B. Bell, T. Thompson, and P.L Williamson. Elsevier Publishing.

The physical textbook is recommended (but not required), however, the all access pass to the online content for the textbook is required for this course, If purchased for 1101, a new purchase is NOT required, access is granted for 900 days.

Lecture and Laboratory

Virtual Lab Access Code: Virtual Labs Direct Online Access for Anatomy & Physiology, ISBN 9781266547430 by McGraw Hill, 1st Edition, 2025.

An all access code for McGraw Hill Direct Online Virtual Labs must be purchased new EACH semester and will be directly charged to the U-bill of each enrolled student.

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. Interactive Digital Textbook activities: Use of video demos, questions, and iLabs to reinforce concepts covered in lecture
2. Assignments: Consisting of short answer, multiple choice, fill-in the blank, true /false, mix and match style items. Purpose is to help students connect the lecture material and concepts discussed so they can apply this knowledge and "problem solve" and receive feedback so they are ready to take exams.
3. In Class Activities: Worksheets, diagrams, and group discussions to reinforce difficult concepts.
4. Exams: Consists of multiple choice, fill-in the blank, true/false and short answer questions.