

BIOL 2020 Anatomy and Physiology II

Instructor:

E-Mail:

Phone:

Office:

Office Hours:

I. Course description

A continuation of BIOL 2010 designed primarily for students interested in entering health-related fields that will count as a biology elective. Topics include: the cardiac, vascular, hematologic, respiratory, immune, urinary, digestive, reproductive, and endocrine systems.

The laboratory component of the course is integrated into the lectures (i.e., there is no separate lab time).

Credit: 4 credits, 3 class hours, 3 lab hours

Prerequisite: DSPR 0800, DSPM 0700, DSPW 0800, and BIOL 2010

II. Course Outcomes and Topics

- Identify by the name, and describe the location, gross and microscopic structure and physical interrelationships of all organs covered in the course.
- Describe the function of the cardiovascular, respiratory, hematologic, lymphatic/immune, digestive, urinary, endocrine and reproductive systems, as well as the concepts of fluid, electrolyte and acid-base balance.
- Analyze the concept of homeostasis and the logical and critical interdependence of the body's organs and organ systems.
- Appraise how structure denotes function and function denotes structure at the gross and cellular levels in the organ systems studied.
- Apply acquired knowledge of normal anatomy and physiology of the organ systems studied to make predictions, at the gross and microscopic levels, of the effects of altered (abnormal) structure and function.
- Formulate a hypothesis concerning normal and altered physiology. Conduct an experiment that tests the hypothesis. Analyze and explain the results.

Course Topics

- Heart
- Blood vessels
- Blood
- Immunity
- Lymphatic System

- Respiratory
- Digestive
- Urinary
- Fluid, electrolyte, acid-base
- Endocrine
- Reproductive

Lab Topics

- Heart anatomy
- Cardiovascular physiology
- Blood vessels
- Blood—microscopic and typing
- Lymphatics and immunity
- Respiratory anatomy and physiology
- Renal anatomy and physiology
- Digestive system
- Endocrine system
- Reproductive system

III. Required Materials

- Fundamentals of Human Anatomy and Physiology by Martini, 8th edition, Publisher: Pearson Benjamin Cummings (ISBN: 0321505719)
- Custom Lab Manual for A & P II, Publisher: McGraw Hill (ISBN 978-0-390-16090-4 or ISBN 0-39-016090-3)

Optional: A Visual Analogy Guide to Human Anatomy by Paul Krieger
 Publisher: Morton (ISBN: 0-89582-659-3)

Anatomy & Physiology Coloring Workbook by Elaine Marieb, 8th edition,
 Publisher: Benjamin (ISBN: 0-8053-7276-8)

IV. Course Policies

Attendance Policy

Each Instructor will provide information regarding his/her attendance policy. Failure to attend class will result in a final course grade of “FA” or “FN” (see explanation below), depending on the individual instructor’s course policy.

FA= failure, attendance-related (unofficial withdrawal) Last recorded date of attendance required

FN= failure, never attended class (unofficial withdrawal)

Assessment and Grading: ***Subject to change at the instructor’s discretion

Lecture Tests

- Lecture tests will be multiple choice, short answer, matching, fill-in-the-blank, true-false or picture/diagram labeling.
- Lecture tests will account for 60% of the total course grade.

- No make-up lecture tests will be allowed unless there are emergency circumstances.

Assignments/Essays/Presentation

- Assignments covering a variety of topics will be given during the course of the semester.
- The format of the material will be at the discretion of the instructor.
- Assignments will account for 20% of the total course grade.
- Late assignments will not be accepted.
- Make-ups will not be allowed.

Laboratory Practical Exams

- Laboratory practical exams will be given.
- Lab practical exams will be identification on lab models, photographs, drawings, microscopic slides, or preserved animal specimens.
- Laboratory practical exams will account for 20% of the total course grade.
- Laboratory practical make-up examinations will NOT be given.

Final calculation of the course grade will be based on the following percentages:

- 60% - Lecture tests
- 20% - Assignments/Essays/Presentations
- 20% - Laboratory Practical Exams

GRADING SCALE

- A = 89.5 - 100.00
- B = 79.5 - 89.49
- C = 69.5 - 79.49
- D = 59.5 - 69.49
- F = Less than 59.5

There will be NO dropped grades; however, extra credit will be offered throughout the semester. The final exam cannot be made up under any circumstances. Lab activities and exams cannot be made up and an absence will result in a 0 for that day's lab activity.

Safety issues

The instructor will go over new regulations regarding safety in lab classes. You must turn in a signed copy of the regulations, and you will have a copy to keep.

V. ADA Statement

Nashville State complies with the Americans with Disabilities Act. If you wish to request any special accommodations for any courses in which you are enrolled, contact the Students Disabilities Office. Such Services must have proof of documentation that is not over 3 years old. Contact the Disabilities Coordinator at 353-3721.

VI. Classroom Behavior

Nashville State Community College has a zero tolerance policy for disruptive conduct in the classroom. Students whose behavior disrupts the classroom will be subject to disciplinary sanctions.

The instructor has primary responsibility for control over classroom behavior and maintenance of academic integrity. He/she can order temporary removal or exclusion from the classroom of any student engaged in disruptive conduct or in conduct which violates the general rules and regulations of the College.

Disruptive behavior in the classroom may be defined as, but is not limited to, behavior that obstructs or disrupts the learning environment (e.g., offensive language, harassment of students and professors, repeated outbursts from a student which disrupt the flow of instruction or prevent concentration on the subject taught, failure to cooperate in maintaining classroom decorum, etc.), the continued use of any electronic or other noise or light emitting device which disturbs others (e.g., disturbing noises from beepers, cell phones, palm pilots, lap-top computers, games, etc.).

Please be aware that children are not allowed in class or unattended on campus.

Academic Dishonesty (Honor Code)

Any form of academic dishonesty, cheating, plagiarizing, or other academic misconduct is prohibited. "Plagiarism may result from: (1) failing to cite quotations and borrowed ideas, (2) failing to enclose borrowed language in quotation marks, and (3) failing to put summaries and paraphrases in your own words" (A Writer's Reference 331). Academic dishonesty may be defined as, but is not limited to, intentionally trying to deceive by claiming credit for the work of another person, using information from a web page or source without citing the reference, fraudulently using someone else's work on an exam, paper, or assignment, recycling your own work from another course, purchasing papers or materials from another source and presenting them as your own, attempting to obtain exams/materials/assignments in advance of the date of administration by the instructor, impersonating someone else in a testing situation, providing confidential test information to someone else, submitting the same assignment in two different classes without requesting both instructor's permission, allowing someone else to copy or use your work, using someone else's work to complete your own, altering documents, transcripts or grades, and forging a faculty/staff member's signature.

In addition to other possible disciplinary sanctions that may be imposed through regular college procedures as a result of academic dishonesty the instructor has the authority to assign an "F" or a "Zero" for the exercise, paper, or examination or to assign an "F" for the course.

NOTE: This syllabus is meant simply as a guide and overview of the course and dates of assessments, etc. are subject to change at the instructor's discretion.