

**COLLIN COUNTY COMMUNITY COLLEGE DISTRICT
LECTURE SECTION SYLLABUS**

COURSE NUMBER: BIOL 2402

COURSE TITLE: Anatomy and Physiology II

CREDIT HOURS: 4 **LECTURE HOURS:** 3 **LAB HOURS:** 4

PREREQUISITE: BIOL 2401 within the past 5 years

COREQUISITE: BIOL 2402 Laboratory

COURSE DESCRIPTION:

Continued study of structure and function related to the human endocrine, cardiovascular, lymphatic, circulatory, respiratory, digestive, urinary, and reproductive systems. Additional topics include: composition and functions of blood; the immune response; fluid, electrolyte and pH balance; and human development. Emphasis placed on the interrelationships of these systems. Lab required.

MEASURABLE STUDENT LEARNING OUTCOMES:

Upon completion of this course the students should be able to do the following:

1. Identify and describe the major gross and microscopic anatomical components of the endocrine system and explain the functional roles of their respective hormones in communication, control, and integration
2. Identify and describe the major gross and microscopic anatomical components of the cardiovascular system and explain their functional roles in transport and hemodynamics
3. Identify and describe the major gross and microscopic anatomical components of the lymphatic system and explain their functional roles in fluid dynamics and immunity
4. Identify and describe the major gross and microscopic anatomical components of the respiratory system and explain their functional roles in breathing ventilation and in the process of external and internal respiration
5. Identify and describe the major gross and microscopic anatomical components of the digestive system and explain their functional roles in digestion, absorption, nutrition, metabolism, cellular respiration, excretion, and elimination
6. Identify and describe the major gross and microscopic anatomical components of the urinary system and explain their functional roles in urine formation and elimination
7. Identify and describe the physiology of the homeostatic mechanisms that control fluid/electrolyte and acid/base balance
8. Identify and describe the major gross and microscopic anatomical components of the reproductive system and explain their functional roles in reproduction, development, and inheritance

COURSE REQUIREMENTS:

Lecture exams will be scheduled covering the text and lecture topics. The instructor may choose to give an optional comprehensive final to take the place of the lowest lecture grade. The laboratory grade will be integrated with the lecture grade to produce the final overall course grade.

COLLEGE REPEAT POLICY:

A student may repeat this course only once after receiving a grade, including “W.”

ATTENDANCE POLICY:

May vary by instructor. See the current *Collin Registration Guide* for the last day to withdraw.

RELIGIOUS HOLY DAYS:

Please refer to the current *Collin Student Handbook*.

ADA STATEMENT:

It is the policy of Collin County Community College to provide reasonable and appropriate accommodations for individuals with documented disabilities. This College will adhere to all applicable Federal and State laws, regulations and guidelines with respect to providing reasonable accommodations as required to afford equal educational opportunity. It is the student’s responsibility to contact the ACCESS Office (G-200) or 972.881.5898, (TDD- 972.881.5950) in a timely manner if he/she desires to arrange for accommodations.

ACADEMIC ETHICS:

The college may initiate disciplinary proceedings against a student accused of scholastic dishonesty. Scholastic dishonesty includes, but is not limited to, statements, acts, or omissions related to applications for enrollment or the award of a degree, and/or the submission of material as one’s own work that is not one’s own. Scholastic dishonesty may involve one or more of the following acts: cheating, plagiarism, collusion, and/or falsifying academic records.

PLAGIARISM:

Is the use of an author’s words or ideas as if they were one’s own without giving credit to the source, including, but not limited to, failure to acknowledge a direct quotation.

CHEATING:

Is the willful giving or receiving of information in an unauthorized manner during an examination, illicitly obtaining examination questions in advanced, copying computer or Internet files, using someone else’s work for the assignments as if it were one’s own, or any other dishonest means of attempting to fulfill the requirements of a course.

COLLUSION:

Is intentionally aiding or attempting to aid another in an act of scholastic dishonesty, including but not limited to, providing a paper or project to another student; providing an inappropriate level of assistance; communicating answers to a classmate during an examination; removing tests or answers from a test site, and allowing a classmate to copy answers.

**COLLIN COUNTY COMMUNITY COLLEGE DISTRICT
LABORATORY SECTION SYLLABUS**

COURSE NUMBER: BIOL 2402

COURSE TITLE: Anatomy and Physiology II

CREDIT HOURS: 4 **LECTURE HOURS:** 3 **LAB HOURS:** 4

PREREQUISITE: BIOL 2401 within the past 5 years

COREQUISITE: BIOL 2402 Lecture

COURSE DESCRIPTION:

Continued study of structure and function related to the human endocrine, cardiovascular, lymphatic, circulatory, respiratory, digestive, urinary, and reproductive systems. Additional topics include: composition and functions of blood; the immune response; fluid, electrolyte and pH balance; and human development. Emphasis placed on the interrelationships of these systems. Laboratory section includes dissection of a mammal and mammalian organs, as well as study of models, slides, and charts correlating with lecture topics.

MEASURABLE STUDENT LEARNING OUTCOMES:

Upon completion of this course the students should be able to do the following:

9. Identify and describe the major gross and microscopic anatomical components of the endocrine system and explain the functional roles of their respective hormones in communication, control, and integration
10. Identify and describe the major gross and microscopic anatomical components of the cardiovascular system and explain their functional roles in transport and hemodynamics
11. Identify and describe the major gross and microscopic anatomical components of the lymphatic system and explain their functional roles in fluid dynamics and immunity
12. Identify and describe the major gross and microscopic anatomical components of the respiratory system and explain their functional roles in breathing ventilation and in the process of external and internal respiration
13. Identify and describe the major gross and microscopic anatomical components of the digestive system and explain their functional roles in digestion, absorption, nutrition, metabolism, cellular respiration, excretion, and elimination
14. Identify and describe the major gross and microscopic anatomical components of the urinary system and explain their functional roles in urine formation and elimination
15. Identify and describe the physiology of the homeostatic mechanisms that control fluid/electrolyte and acid/base balance
16. Identify and describe the major gross and microscopic anatomical components of the reproductive system and explain their functional roles in reproduction, development, and inheritance

COURSE REQUIREMENTS:

The laboratory will have three comprehensive practical examinations to assess student understanding of lab materials and methods, in addition to occasional lab quizzes and four (4) formal typed lab reports (possibly more) as required by the lab instructor. No more than two lab grades may be dropped, and then at the discretion of the lab instructor. The instructor has the option of giving the lab quizzes over material covered in the previous lab(s) or to be covered in that day's upcoming lab, so students should be prepared for a quiz on that day's material before coming to lab.

All students are required to actively participate in laboratory experiments and dissections. Students who simply observe the work of others will not receive credit for that laboratory assignment.

COLLEGE REPEAT POLICY:

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ATTENDANCE POLICY:

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