

# COLLIN COLLEGE DISTRICT LECTURE SECTION SYLLABUS

**COURSE NUMBER:** BIOL 2401

**COURSE TITLE:** Anatomy and Physiology I

## COURSE DESCRIPTION

Anatomy and Physiology I is the first part of a two course sequence. It is a study of the structure and function of the human body including cells, tissues and organs of the following systems: integumentary, skeletal, muscular, nervous and special senses. Emphasis is on interrelationships among systems and regulation of physiological functions involved in maintaining homeostasis.

**COURSE CREDIT HOURS:** 4  
Lecture Hours: 3  
Lab Hours: 4

**PLACEMENT ASSESSMENT(S):** Placement in ENGL 1301; MATH 0310; College-Level Reading

**PRE-REQUISITE:** Satisfactory score on the BIOL 2401 Readiness Test. We strongly recommend that you successfully complete BIOL 1406 to be prepared for the assessment.

**CO-REQUISITE:** BIOL 2401 Laboratory

**REPEAT POLICY:** See Student Handbook

**CAMPUS SECURITY:** In case of emergency, contact Campus Police

## COURSE RESOURCES

Required: Fundamentals of Anatomy & Physiology, current edition; Martini, Nath & Bartholomew  
Pearson My Lab and Mastering, publishing as Pearson Benjamin Cummings

Recommended: Get Ready for A&P, Garrett  
Medical dictionary (Taber's, Dorland's, Stedman's, etc)

**SUPPLIES:** See instructor addendum.

## STUDENT LEARNING OUTCOMES

- **State-mandated Outcomes:** Upon successful completion of this course, students will:
  1. Use anatomical terminology to identify and describe locations of major organs of each system covered.
  2. Explain interrelationships among molecular, cellular, tissue, and organ functions in each system.
  3. Describe the interdependency and interactions of the systems.
  4. Explain contributions of organs and systems to the maintenance of homeostasis.
  5. Identify causes and effects of homeostatic imbalances.
  6. Describe modern technology and tools used to study anatomy and physiology.
- **Additional Collin Outcomes:**
  1. Work within groups to identify and describe the major gross anatomy and microscopic components to make informed decisions on location, organization, structure, and function. (Teamwork)
  2. Work individually or within groups to analyze and explain the functional and physiological roles of applicable body systems including endocrine system, circulatory system, lymphatic and immune systems, respiratory system, digestive system, urinary system, fluid/electrolyte and acid/base (pH) balances, reproductive system, development and inheritance. (Critical Thinking Skills)
  3. Communicate knowledge of the above body systems through scientific papers, lab reports, discussions, and/or presentations. (Communication Skills)
  4. Utilize scientific tools and laboratory equipment to collect and analyze data. (Empirical and Quantitative Skills)
  5. Qualitatively and quantitatively investigate and describe homeostatic mechanisms of these body systems (Empirical and Quantitative Skills)
  6. Analyze and describe the reasoning processes applied to scientific investigation and thinking integrating all body systems. (Critical Thinking Skills)

## METHOD OF EVALUATION

Lecture exams will be given covering the text and lecture topics. The laboratory grade will be integrated with the lecture grade to produce the final overall course completion grade at the end of the semester.

Overall course grade: Lecture 60%, lab 40%

Lecture: Four (4) minimum required major exams  
Quizzes and other preparatory work as determined by the instructor

The offering of bonus / extra points is optional. If the instructor chooses to give bonus / extra credit points, the following maximum point values have been determined by the biology department faculty:

Maximum five (5) points per 100 point lecture exam or final.  
Bonus / extra points are neither acceptable nor available to add to the final course grade.

## ATTENDANCE

Lecture attendance is mandatory. Individual conflicts with this policy are to be discussed with the instructor. Students who stop attending class and do not officially withdraw from the course in accordance with the Collin College Academic Calendar will be assigned a course grade of "F".

## AMERICANS WITH DISABILITIES ACT

Collin College will adhere to all applicable federal, state and local laws, regulations and guidelines with respect to providing reasonable accommodations as required to afford equal opportunity. It is the student's responsibility to contact the ACCESS office in a timely manner to arrange for appropriate accommodations. See the Collin directory for ACCESS contact information. See the current *Collin Student Handbook* for additional information.

**COLLIN COLLEGE ACADEMIC POLICIES:** See the current *Collin Student Handbook* and instructor addendum.

Every member of the Collin College community is expected to maintain the highest standards of academic integrity. Collin 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 as one's own work material that is not one's own. Scholastic dishonesty may involve, but is not limited to, one or more of the following acts: cheating, plagiarism, collusion, use of annotated texts or teacher's editions, use of information about exams posted on the Internet or electronic medium, and/or falsifying academic records. While specific examples are listed below, this is not an exhaustive list and scholastic dishonesty may encompass other conduct, including any conduct through electronic or computerized means.

**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; collaborating with another student during an examination without authority; using, buying, selling, soliciting, stealing, or otherwise obtaining course assignments and/or examination questions in advance; copying computer or Internet files; using someone else's work for 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 or unintentionally aiding or attempting to aid another in an act of scholastic dishonesty, including but not limited to, failing to secure academic work; providing a paper or project to another student; providing an inappropriate level of assistance; communicating answers to a classmate about an examination or any other course assignment; removing tests or answer sheets from a test site; and allowing a classmate to copy answers. In cases where an incident report has been filed for alleged violation of scholastic dishonesty, faculty are requested to delay posting a grade, for the academic work in question, until the Dean of Students Office renders an administrative decision of the case. Students found responsible for scholastic dishonesty offenses will receive an authorized disciplinary penalty from the Dean of Students Office. The student may also receive an academic penalty in the course where the scholastic dishonesty took place. The professor will determine the appropriate academic penalty.

## STUDENT CONDUCT

Collin College expects students to conduct themselves in class in such a way as to not interfere with or disrupt the educational process. Students are to speak and act in a respectful manner toward their fellow students and the professor. Those who participate in inappropriate behavior such as, excessive talking, electronic device use, verbal altercations, or blatantly disregarding instructor's directions will be asked to leave the class. Continuance of such behavior can result in permanent removal.

## LATERAL TRANSFERS

Lateral transfers will not be granted after the 4th week of class or after the first lecture exam, whichever comes first. Exceptions to this are for documented changes in work schedule or family emergencies. If a student does transfer to another section, all previous grades will accompany the student. However, the new instructor can require the student to retake any exam or quiz. For questions concerning this policy, contact the Associate Dean in the appropriate Academic Affairs Office.

**WITHDRAWAL POLICY:** See the current *Collin Registration Guide* for the last day to withdraw.

## IF YOU HAVE DIFFICULTIES

First contact your instructor. If you are unable to resolve the problem, contact the appropriate Academic Affairs Office at that campus.

## INSTRUCTOR SYLLABUS / ADDENDUM

Please read and review regarding specific course information, schedule, and contact information.

<http://faculty.collin.edu/mweis>

Or use the provided links in Canvas for Concourse Syllabus

**BIOLOGY 2401 - ANATOMY & PHYSIOLOGY I  
PROPOSED DISTRICT LECTURE SCHEDULE**

<b>WEEK</b>	<b>LECTURE TOPICS</b>	<b>TEXT READING ASSIGNMENT</b>
1	Introduction, Basic Chemistry and Cell Review *Students are expected to know the material in chapters 2 & 3, as this material is on the assessment test	Ch. 1 2*, 3*
2	Development, Tissues	29 (part), 4
3	Tissues	4
4	Integumentary System	5
5	Nervous Tissue	12
6	CNS (Spinal Cord) and PNS (Spinal Nerves)	13
7	CNS (Brain) and PNS (Cranial Nerves)	14
8	Special Senses: Eye and Ear	17
<b>*** Check Collin College Calendar for Last Day to Withdraw***</b>		
9	Special Senses: Taste and Smell	17
10	Autonomic Nervous System	16
11	Neural Integration	15, 16
12	Muscle Tissue	10
13	Bone Tissue	6
14	Skeletal Structure & Articulations	7, 8, 9
15	Muscular System	11
16	<b>Final Exams</b>	

NOTES: