

COURSE DESCRIPTION:	A continuation of BIOL 2010 including the cardiovascular system, lymphatic system, immunity, respiratory system, digestive system, metabolism, urinary system, endocrine system, reproductive systems, human development, and genetics. Three lecture, two laboratory hours per week.
PREREQUISITE:	Completion of BIOL 2010 (or BIO 231) with a grade of "C" or better.
REQUIRED TEXTS:	<ol style="list-style-type: none">1. <i>Human Anatomy and Physiology</i>, 7th Ed., Marieb;2. <i>Laboratory Exercises for Human Anatomy and Physiology</i>, 3rd Ed. by VSCC faculty (available through MyVolState On-Line)
OTHER MATERIALS:	RECOMMENDED: <i>Photographic Atlas for the Anatomy and Physiology</i> , 5th Ed. by Van DeGraaff & Crawley OPTIONAL: <i>Anatomy & Physiology Coloring Workbook</i> by Marieb, 7th Ed.
MATH & SCIENCE DIVISION OFFICE:	Warf Building Room 100 615-230-3261
GENERAL EDUCATION GOALS:	By successfully completing BIOL 2010 and BIOL 2020, you will be able to exhibit knowledge of scientific information and the thought processes involved in the scientific method of inquiry.
OTHER GOALS:	The course will seek continual development in communication, problem solving, and critical thinking skills.

COURSE OUTCOMES

1. Describe the structural organization and physiology of the cardiovascular system.
2. Describe the anatomy and physiology of the lymphatic and immune systems including the cell types and mechanisms involved in specific and nonspecific defense mechanisms in conferring immunity.
3. Describe the anatomical structures and physiologic mechanisms of the respiratory system.
4. List and describe the anatomy and physiology of the digestive system including the process of digestion, nutrient absorption, and excretion of wastes from the body.
5. Describe the structural organization and physiology of the urinary system.
6. List and describe the basic anatomy and physiology of the glands of the endocrine system. Include the hormones produced and their functions in maintaining homeostasis.
7. Describe the anatomical features and functions of both the male and female reproductive systems. Explain the development of the human life cycle from fertilization thru the fetal stage.
8. Describe the metabolic processes of the human body.
9. Define and explain the basic principles of genetics. Describe and give an example of both monohybrid and dihybrid crosses.

POLICIES AND PROCEDURES

GRADING: Each lecture examination has equal value toward your final lecture average and will constitute 60% of your BIOL 2020 grade. Your instructor will determine the number of lecture examinations and the material to be covered on each lecture examination. All students will take a comprehensive final examination which will count 10% of your earned grade in BIOL 2020. The last lecture exam will be given by your instructor during the final examination period as published by the college. **The departmental comprehensive exam will be given via MyVolState Online on the computer and will be scheduled toward the end of the semester. Your instructor will provide more information on the particulars of the departmental comprehensive final exam near the end of the semester. Comprehensive exams for Livingston students will be given in Livingston. Comps for Hunters Lane students will be given at Hunters Lane. Comps for on campus day and evening students will be given on campus. The information will be available and posted following the holiday break.**

Your grade in this course will be determined as follows:

- 60% - lecture average
- 30% - laboratory average
- 10% - comprehensive final

Only the final average will receive a letter grade. The final grades to be assigned in this course and their numerical values are as follows:

- A = 90 - 100 average on all work
- B = 80 - 89 average on all work
- C = 70 - 79 average on all work
- D = 60 - 69 average on all work
- F = Below 60

I = Incomplete - This symbol indicates that the student has not completed the requirements for a course during the semester for some unavoidable reason -- that is **acceptable to the instructor**. The student should contact the instructor **immediately** in an effort to complete course requirements. If the "I" is not completed within the next semester, the "I" will **convert to an "F"**.

N = audit: no grade or credit

W = withdrawn

MAKE-UP EXAMINATIONS WILL NOT BE GIVEN IN THIS COURSE. The grade earned on the required departmental comprehensive exam will 1) constitute the grade for a missed exam or 2) substitute for a lower grade on a previous lecture exam.

ATTENDANCE: You will not receive a specific grade for attendance though you will sign an attendance sheet each day. Poor attendance seriously impairs your ability to succeed and often imposes a burden on other students. As indicated in the college catalog, the instructor has the right to request that the Vice President of Academic Affairs withdraw any student demonstrating poor attendance. When attendance is poor, leniency should not be expected in borderline situations. Your input in the classroom is of value to the instructor, yourself, and other students. Poor attendance deprives all involved.

ABSENCE FROM EXAMINATIONS OR QUIZZES: Examinations will be given only at the times assigned by the instructor unless a student is specifically excused by a vice president. Absence from a major examination will result in a grade of zero for that exam. With appropriate documentation, the grade achieved on the comprehensive portion of the final examination will be substituted for one missed examination. Absence from the final examination (without prior arrangement with your instructor) will result in a grade of F.

NOTE THAT OFFICIAL ABSENCES FROM THE COLLEGE -- ABSENCES EXCUSED BY THE VICE PRESIDENT -- ARE NOT SUBJECT TO THESE POLICIES AND WILL BE HANDLED ON A CASE BY CASE BASIS.

ACADEMIC DISHONESTY: Academic dishonesty is a serious violation and students should be aware of the College's policy. The VSCC Student Handbook states the following with regard to academic dishonesty:

“Plagiarism, cheating, and other forms of dishonesty are prohibited. Students guilty of academic misconduct, either directly or indirectly through participation or assistance, are immediately responsible to the instructor of the class. In addition to other possible disciplinary sanctions which may be imposed through the regular institutional procedures as a result of academic misconduct, the instructor has the authority to assign an F or a zero for the exercise or examination or to assign an F in the course.”

INCLEMENT WEATHER POLICY: If Volunteer State Community College is officially open, this class will meet as scheduled, all assignments will be due as scheduled, and any scheduled tests/quizzes/exams will be given. If VSCC is officially closed, all assignments will be due at the next regular class meeting. Likewise, any tests/quizzes/exams will be also be given at the next regular class meeting.

FOR STUDENTS WITH DISABILITIES: It is the student's responsibility to self-identify with the Office of Disability Services to receive accommodations and services in accordance with The Americans with Disabilities Act (ADA). Only those students with appropriate documentation and who are registered with the Office of Disability Services will receive accommodations. For further information, contact the Office of Disability Services at (615) 230-3472, TDD (615) 230-3488, or visit the office, which is located in Room 108, Wood Campus Center.

EQUAL OPPORTUNITY STATEMENT: Volunteer State Community College, a Tennessee Board of Regents Institution, is an equal opportunity institution and ensures equal opportunity for all persons without regard to race, color, religion, sex, national origin, disability status, age, sexual orientation, or status as a qualified veteran with a disability or veteran of the Vietnam era.

LECTURE TEXTBOOK READING ASSIGNMENTS

Human Anatomy and Physiology, 7th Ed., Marieb

Lecture Topic	Textbook Reference
Respiratory System	Chapter 22
Circulatory System	Chapters 17, 18, 19
Blood	Chapter 17
Heart	Chapter 18
Blood Vessels	Chapter 19
Physiology of Circulation	Chapter 19
Lymphatic System and Immune System	Chapter 20 & 21
Digestive System	Chapter 23
Metabolism	Chapter 26
Urinary System	Chapter 25 & 26
Endocrine System	Chapter 16
Reproductive System	Chapter 27
Meiosis and Gametogenesis	Chapter 27
Embryology	Chapter 28
Genetics	Chapter 29

BIOL 2020 LABORATORY

The laboratory part of this course will supplement the lectures and provide hands-on experiences in scientific investigations. Some laboratory exercises will be supplemented with audio visuals, dissecting, and in field experience where applicable.

POLICIES AND PROCEDURES: All policies and procedures not described below are contained in the lecture section and will apply to the laboratory.

The laboratory manual, *Laboratory Exercises for Human Anatomy and Physiology*, by VSCC faculty, will be web accessed via your MyVolstate Online lab section.

It is a good idea to bring your textbook and your printed lab exercises to lab. There will be no makeup labs. If necessary, and only with the permission of both instructors, you may attend another lab section if they are doing the exercise you missed. There will be no makeup examinations in lab. Your lab average will count 30% of the total grade for the course. NO smoking, eating, drinking, or small children allowed in lab. Silence pagers and cell phones. Your instructor will explain how interruptions will affect your grade.

GRADING: The laboratory grade, as determined by the laboratory instructor, will count 30% of the course grade. It will be derived from three major examinations given during the semester. Your instructor may choose to give periodic lab quizzes and will explain how these will count in the laboratory grade.

For an example of how the final grade is to be calculated, please see the grading policy in the Lecture Syllabus.

Although some course outcomes will be covered exclusively in the laboratory, success in the lecture component of the course will be demonstrated by your ability to draw upon laboratory experiences and vice versa.