

Biology 2651 Human Anatomy/Physiology I

Biology Department, College of Arts and Sciences, Valdosta State University

Sections E. F. G. H (CRNs 24684, 25031, 25092, 25977) (4 credit hours)

Spring Semester, 2022

Instructor - Dr. J. Mitchell Lockhart

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Office Hours Face to face (8:00-9:15AM, TR, BSC 1011),

Or 16

, 15th

th E. (Required). WileyPlus is used for the course and is Mandatory.

Laboratory Textbook - M.E. Smith, and W.J. Loughry,

. (Suggested, but available online FREE)

Course Description: This course is the first in a two-part series. In BIOL 2651 we will introduce human anatomy and physiological principles with emphasis on the following: cell and tissue organization, plus skeletal, muscular, and nervous systems and special senses. In each system, we will cover the basic structure and function of the components of that system.

Pre-Requisite: None

Attendance: MANDATORY! I do keep track of who is and isn't attending lecture and laboratory. This

Assessment: For the lecture grade, four exams plus a comprehensive final will be given. Questions will be based on material covered in lecture and in my notes. Exam questions will be in a variety of formats including (but not limited to) essay, short answer, multiple choice, fill in the blank,

Face Coverings: As the Blazer Creed articulates, members of the VSU community are expected to live by the high standards of civility, integrity, and citizenship and embrace their responsibility as a member of the Blazer community. In recognition of this responsibility, and in response to the best available science and current guidance from the Centers for Disease Control and Prevention and the Georgia Department of Public Health, **every student must wear a face covering that covers their nose and mouth at all times while in any campus building, including in this classroom.** This requirement is intended to protect the health and safety of all VSU students, the instructor, and the entire university community. Anyone attending class without a face covering will be asked to put one on or leave. Students should also be sure they maintain a distance of at least six feet away from their fellow students and instructor and are seated in a seat that is designated to ensure that distance. Students who refuse to wear face coverings appropriately or adhere to other stated requirements may face disciplinary action for Code of 4.6S3ei(ed)-9.w-3.9 (r)28fd ag

Relate the structure and the function of DNA/RNA to the development of form and function of the organism and to heredity.

Interpret ecological data pertaining to the behavior of the individual organism in its natural environment; to the structure and function of populations, communities, and ecosystems; and to human impacts on these systems and the environment.

Valdosta State University General Education Outcomes:

Students will demonstrate understanding of the society of the United States and its ideals. They will possess the requisite knowledge of the society of the United States, its ideals, and its functions to enable them to become informed and responsible citizens. They will understand the connections between the individual and society and the roles of social institutions. They will understand the structure and operational principles of the United States government and economic system. They will understand United States history and both the historical and present role of the United States in the world.

Students will demonstrate cross-cultural perspectives and knowledge of other societies. They will possess sufficient knowledge of various aspects of another culture, including the language,

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Tentative Lecture Outline - This is the order in which we will cover topics.

| TOPIC | TEXT CHAPTERS |
|--|----------------------|
| Introduction to the Human Body | 1 |
| Chemical Level of Organization | 2 |
| Cellular Level of Organization | 3 |
| Tissue Level of Organization | 4 |
| Integumentary System | 5 |
| Bone Tissue | 6 |
| Skeletal System: The Axial Skeleton | 7 |
| Skeletal System: The Appendicular Skeleton | 8 |
| Articulations | 9 |
| Muscle Tissue | 10 |
| Muscular System | 11 |
| Nervous Tissue | 12 |
| Spinal Cord and Spinal Nerves | 13 |
| Brain and Cranial Nerves | 14 |
| The Special Senses | 17 |
| Autonomic Nervous Systems* | 15 |
| Sensory, Motor, and Integrative Systems* | 16 |

Tentative Laboratory Schedule

| Date | Topic |
|-----------|----------------------------------|
| Jan 10-14 | Introduction & Microscope Basics |
| Jan 17-21 | No Lab – MLK Holiday |
| Jan 24-28 | Tissues and Skin |