INSTRUCTOR CONTACT INFORMATION
Instructor: Dr. Connie J. Grass, DC, BSHB, BSN
Email: cjgrass@lit.edu
Office Phone: 409-247-4863
Office Location: MPC 217
Office Hours: Mon-Fri 10:00 AM – 12:00 PM (by appointment)

CREDIT: 1 Semester Credit Hour (2 hour lab)

MODE OF INSTRUCTION: Online

PREREQUISITE/CO-REQUISITE:
Passed the Reading/Writing Sections of COMPASS or any other accepted test. Complete the Online Orientation and answer yes to 7+ questions on the Online Learner Self-Assessment: http://www.lit.edu/depts/DistanceEd/OnlineOrientation/OOStep2.aspx

BIOL 2301 lecture must be taken at the same time. Lecture can be taken face-to-face or fully online.

COURSE DESCRIPTION
The lab provides a hands-on learning experience for exploration of human system components and basic physiology. Systems to be studied include integumentary, skeletal, muscular, nervous, and special senses.

LEARNING OUTCOMES
1. Apply appropriate safety and ethical standards.
2. Locate and identify anatomical structures.
3. Appropriately utilize laboratory equipment, such as microscopes, dissection tools, and general lab ware.
4. Work collaboratively to perform experiments.
5. Demonstrate the steps involved in the scientific method.
6. Communicate results of scientific investigations, analyze data, and formulate conclusions.
7. Use critical thinking and scientific problem-solving skills, including, but not limited to, inferring, integrating, and summarizing, to make decisions, recommendations, and predictions.
COURSE OBJECTIVES
Upon completion of this course, the student will be able to:
1. Apply appropriate safety and ethical standards.
2. Locate and identify anatomical structures.
3. Appropriately utilize laboratory equipment, such as microscopes, dissection tools, general lab
   ware, physiology data acquisition systems, and virtual simulations.
4. Work collaboratively to perform experiments.
5. Demonstrate the steps involved in the scientific method.
6. Communicate results of scientific investigations, analyze data and formulate conclusions.

CORE OBJECTIVES
1. Critical Thinking Skills: To include creative thinking, innovation, inquiry, and analysis,
   evaluation and synthesis of information
2. Communication Skills: To include effective development, interpretation and expression of
   ideas through written, oral, and visual communication
3. Empirical & Quantitative Skills: To include the manipulation and analysis of numerical data
   or observable facts resulting in informed conclusion
4. Teamwork: To include the ability to connect choices, actions, and consequences to ethical
   decision-making
5. Personal Responsibility: To include ability to connect choices, actions and consequences to
   ethical decision-making

COURSE OUTLINE
A. Human Body Intro
   1. Regional and Descriptive Terms that describe the human body
   2. Planes of the Body
B. Cells
   1. Structures
   2. Functions
   3. Mitosis
C. Tissues
   1. Main types of epithelial tissue
   2. Other tissues of the body
D. Integumentary System
   1. Skin
   2. Appendages
E. Bones and Skeletal System
   1. Basic Shapes of Bones
   2. Bone Markings
F. The Skeleton
   1. Bones of the axial skeleton
   2. Bones of the appendicular skeleton
G. Joints
   1. Synovial joints
   2. Other joints
   3. Movements of Joints
H. Muscles and Muscle Tissue
   1. Intro
   2. Characteristics of Muscle Tissue
   3. Related muscle terms
I. Muscular System
   1. Major muscles (anterior)
   2. Major muscles (posterior)
J. Fundamentals of the Nervous System
   1. Neurons
   2. Neuroglia
K. Central Nervous System
   1. Structures of the Brain
   2. Functions
L. Peripheral Nervous System
   1. Structures of Eye and Ear
   2. Function
REQUIRED TEXTBOOK AND MATERIALS


Wilk-Blaszczak (2018) Human Anatomy Lab Manual (Free Online)

ATTENDANCE POLICY
Students must log into Blackboard and access this course a minimum of 3 times a week.

DROP POLICY
If you wish to drop a course, you are responsible for initiating and completing the drop process. If you stop coming to class and fail to drop the course, you will earn an “F” in the course. January 24, 2023. Last day for students to drop classes and receive a full refund. January 31, 2023. Last day for students to drop or withdraw WITHOUT academic penalty. February 17, 2023. Last day for students to drop or withdraw WITH academic penalty

COURSE CALENDAR/Weekly Checklist

<table>
<thead>
<tr>
<th>Week:</th>
<th>To Do:</th>
<th>Due Date:</th>
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<tr>
<td><strong>Week 1</strong>&lt;br&gt;Introduction&lt;br&gt;Complete Introductory Materials&lt;br&gt;Syllabus Quiz&lt;br&gt;McGraw Hill Connect&lt;br&gt;January 17&lt;sup&gt;th&lt;/sup&gt;</td>
<td>□ Discussion Board: Introduction&lt;br&gt;□ Register for McGraw Hill Virtual Labs (Information on Blackboard under “Modules” then&lt;br&gt;□ Syllabus Quiz&lt;br&gt;□ Join a group for Group Lab: Musculoskeletal Disorders (Information on “Modules” page) due 02.28.23</td>
<td>□ 01.23.23</td>
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<td>□ Complete Introductory Materials McGraw Hill Connect Interactive Labs&lt;br&gt;□ Work with group members on Group Lab (Musculoskeletal Disorders) due 02.28.23</td>
<td>□ 01.30.23</td>
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<td><strong>Week 2</strong>&lt;br&gt;Directional Terms Elements, Cells, Tissues&lt;br&gt;January 23&lt;sup&gt;rd&lt;/sup&gt;</td>
<td>□ Module (1): McGraw Hill Connect Interactive Lab Activities covering Body Orientation, Tests for Macromolecules, and Microscope&lt;br&gt;□ Module (3): McGraw Hill Connect Interactive Lab Activities covering Cells and Tissues&lt;br&gt;□ Work with group members on Group Lab (Musculoskeletal Disorders) due 02.28.23</td>
<td>□ 01.30.23</td>
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<tr>
<td><strong>Week 3</strong>&lt;br&gt;Elements, Cells, Tissues</td>
<td>□ Module 2: McGraw Hill Connect Interactive Lab Activities covering Integumentary System</td>
<td>□ 02.06.23</td>
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Approved: Initials/date
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<th>Week 3  cont'd</th>
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<td>January 30th</td>
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<td>□ Module 2: McGraw Hill Connect Interactive Lab Activities covering Skeletal System &amp; Joints</td>
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<td>□ Module 2: McGraw Hill Connect Interactive Lab Activities covering Skeletal System &amp; Joints</td>
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<td>□ Midterm Exam Opens 02.06.23 Closes 02.13.23</td>
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<td>Week 5</td>
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<td>February 27th</td>
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<td>□ Module 3: McGraw Hill Connect Interactive Lab Activities covering Nervous System</td>
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<td>□ Group Lab (Musculoskeletal Disorders) due 02.28.23</td>
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<td>Week 8</td>
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<td>Final Exam</td>
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<td>March 6th</td>
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<td>□ FINAL EXAM Opens 03.06.23 and Closes 03.09.23 (Chapters 10 – 16)</td>
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<td>□ Congratulations! You made it!! Celebrate</td>
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**COURSE EVALUATION**

Final grades will be calculated according to the following criteria:

1. Mandatory Course Syllabus Quiz = 5%
2. Interactive Lab Activities (5) = 25%
3. Quizzes (5) = 20%
4. Mandatory Group Lab Project/Common Assignment = 20%
5. Exams: Midterm (Ch 1-8); Final Exam (Ch 9-16) = 30%

TOTAL = 100%

GRADE SCALE
90 – 100 A
80 – 89 B
70 – 79 C
60 – 69 D
0 – 59 F

TECHNICAL REQUIREMENTS
The latest technical requirements, including hardware, compatible browsers, operating systems, etc. can be online at https://lit.edu/online-learning/online-learning-minimum-computer-requirements. A functional broadband internet connection, such as DSL, cable, or Wi-Fi is necessary to maximize the use of online technology and resources.

DISABILITIES STATEMENT
The Americans with Disabilities Act of 1990 and Section 504 of the Rehabilitation Act of 1973 are federal anti-discrimination statutes that provide comprehensive civil rights for persons with disabilities. LIT provides reasonable accommodations as defined in the Rehabilitation Act of 1973, Section 504 and the Americans with Disabilities Act of 1990, to students with a diagnosed disability. The Special Populations Office is located in the Eagles’ Nest Room 129 and helps foster a supportive and inclusive educational environment by maintaining partnerships with faculty and staff, as well as promoting awareness among all members of the Lamar Institute of Technology community. If you believe you have a disability requiring an accommodation, please contact the Special Populations Coordinator at (409)-951-5708 or email specialpopulations@lit.edu. You may also visit the online resource at Special Populations - Lamar Institute of Technology (lit.edu).

STUDENT CODE OF CONDUCT STATEMENT
It is the responsibility of all registered Lamar Institute of Technology students to access, read, understand, and abide by all published policies, regulations, and procedures listed in the LIT Catalog and Student Handbook. The LIT Catalog and Student Handbook may be accessed at www.lit.edu. Please note that the online version of the LIT Catalog and Student Handbook supersedes all other versions of the same document.

STARFISH
LIT utilizes an early alert system called Starfish. Throughout the semester, you may receive emails from Starfish regarding your course grades, attendance, or academic performance. Faculty members record student attendance, raise flags and kudos to express concern or give praise, and you can make an appointment with faculty and staff all through the Starfish home page. You can
also login to Blackboard or MyLIT and click on the Starfish link to view academic alerts and detailed information. It is the responsibility of the student to pay attention to these emails and information in Starfish and consider taking the recommended actions. Starfish is used to help you be a successful student at LIT.

**ADDITIONAL COURSE POLICIES/INFORMATION**

1. Cheating of any type will not be tolerated.
2. **Late assignments will not be accepted.** Students will receive a zero for assignments not completed.
3. Internet usage- students are to use proper netiquette when participating in course email, assignment submissions and online discussions.

Arizona State University = [https://asuonline.asu.edu/newsroom/online-learning-tips/netiquette-online-students/](https://asuonline.asu.edu/newsroom/online-learning-tips/netiquette-online-students/)
