

BIOLOGY 2401 – ONLINE (Lecture) Anatomy & Physiology I

Western Texas College

- I. **Basic Course Information:**
 - A. *Course Description:* The course is designed to give the science student an in-depth understanding of human form and function at the cellular, subcellular, systemic, organizational levels.
 - B. *Prerequisites:* There are no official prerequisites. However, the student must be able to read, speak and write proficiently at the college level.
- II. **Student Learning Outcomes**
 - A. Demonstrate knowledge of the major issues and problems facing modern science, including issues that touch upon ethics, values, and public policies
 - B. Critically examine scientific issues and problems through reflection, self-assessment and documentation of experiences
 - C. Effectively communicate with each other and the instructor
 - D. Solve empirical and quantitative problems related to biology
 - E. Consider different points of view and work effectively with others to support a shared purpose or goal
- III. **Testing Requirements**
 - A. All lecture quizzes are online and do not have to be proctored. Students are allowed to use their book and notes while taking lecture quizzes.
 - B. The final exam is comprehensive and must be proctored. The student has 2 options for each exam: take the exam on-campus at Western Texas College on the pre-determined date or choose a local testing center (the testing center must be at a College or University). If a testing center is chosen, the student will be responsible for any fees incurred. Students are not allowed to use their textbook or notes while taking the proctored lecture final exam. (**** During the Summer session students must choose the proctor option – there will be no on-campus proctored final option.*)
- IV. **Major Course Requirements**
 - A. There will be a midterm and final exam.
 - B. There are 10 quizzes. (**** During Summer sessions this number may vary*)
- V. **Information on Books and Other Course Materials**
 - A. *Required Book: Human Anatomy & Physiology, Ninth Edition.* Elaine N. Marieb and Katja Hoehn. 2012. Pearson Benjamin Cummings. (ISBN: 9780321743268)
 - B. *Required Lab Manual: Human Anatomy & Physiology Laboratory Manual.* Elaine N. Marieb, Susan J. Mitchell. 2010. Pearson Benjamin Cummings. With Mastering lab (ISBN: 0321765583)
 - C. *Technology Requirements & Suggestions:* Computer hardware and software suggestions have been provided below. It would behoove you to either own or be able to access a computer with these requirements and suggestions.

PC Hardware

- Dual Core CPU
- At least 1 GB of RAM, preferably 2 GB or more
- 80 GB hard drive

MAC Hardware

- Intel-based CPU
- At least 1 GB of RAM, preferably 2 GB or more
- 80 GB hard drive

- DVD +/- RW optical drive
- High-speed Internet
- Access to a printer

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PC Software

- Windows XP or higher
- Adobe Reader
- Microsoft Office 2003 or newer
- Mozilla Firefox
- Adobe Flash Player

MAC Software

- OS 10.4 or higher
- Adobe Reader
- Microsoft Office 2004 or newer (or other comparable software such as iWork)
- Mozilla Firefox
- Adobe Flash Player

VI. Other Policies, Procedures and Important Dates

- A. The WTC Catalog can be found [online](#).

VII. Course Organization and Schedule

Topic	Chapter
Course Intro; The Human Body: An Orientation	1
Chemistry Comes Alive	2
Cells: The Living Units	3
Tissue: The Living Fabric	4
The Integumentary System	5
Bones and Skeletal Tissues	6
The Skeleton	7
Joints	8
Muscles and Muscle Tissue	9
Fundamentals of the Nervous System and Nervous Tissue	11
The Central Nervous System	12
The Peripheral Nervous System and Reflex Activity	13
The Autonomic Nervous System	14
The Special Senses	15

Disclaimer: As always, circumstances can prevent coverage of the material in this chronology and in the expected time frame