

Instructor Contact Information:

Name: Dr. Tanya McVay

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Office Hours: MWF 7-8am, Zoom sessions are available by appointment

General Course information:

Course Number: BIO 231Z

Course Title: Human Anatomy and Physiology I

Course Description: Examines the structure and function of the human body through a body systems approach. Explores anatomy and physiology of the integumentary, skeletal and muscular systems at the relevant levels of biological organization (chemical, cellular, tissue, organ, and organ system). Covers neurophysiology and excitable membranes. Includes foundational aspects such as anatomical terminology and homeostasis. This course includes a laboratory component.

Prerequisites: BIO 112 or instructor's consent

Credits: Four (4) term or trimester credits
(for transfer to other schools: 1.5 term credits equal 1 semester credit)

Textbook and Resources:

- Elaine N. Marieb, Katja Hoehn *Human Anatomy & Physiology*, 12th or 11th edition without Mastering A&P access code.
- [Visible Body Suite](#) an interactive 3D anatomy atlas (requires purchasing the access code). If you have purchased Visible Body Suite without Courseware integration, it is sufficient for this course.
- Reliable computer access and internet connection.

Course Objectives:

Upon completion of this course, the students should be able to:

1. Explain key homeostatic mechanisms and feedback loops in the integumentary and skeletal systems.
2. Describe anatomical structures and their relationships to function in the integumentary, skeletal, muscular systems, and neural tissue.
3. Explain key processes of the integumentary, skeletal, and muscular systems and neural signaling.
4. Relate the relevant levels of biological organization to the functions of the integumentary, skeletal, muscular systems, and neural tissue.
5. Describe how the integumentary, skeletal, muscular systems, and neural tissue interact with other body systems.
6. Apply physiological and/or anatomical concepts of the integumentary, skeletal, and muscular systems, and neural tissue to practical scenarios such as clinical, public health, and societal issues.
7. Visually identify major structures in tissues, integumentary, skeletal, and muscular systems using lab materials (correct naming and spelling required).

Grading:

This course consists of both a lecture and a laboratory portion. The grade in the course reflects the combined level of achievement in both.

Lecture HW (1/lecture)	1pt. each	5%
Lecture quizzes (8)	15pts each	10%
Lecture exams (2)	50pts. each	35%
Lab HW – practice quizzes (9)	15-50 pts. each	5%
Lab quizzes (7)	15pts. each	10%
Lab exams (2)	50pts. each	35%
Extra credit		2%
TOTAL:		102%

The grades will be assigned on the following scale:

90-100%	A	70-79.9%	C	Less than 60%	F
80-89.9%	B	60-69.9%	D		

Lecture homework (one assignment for each lecture) consists of practice activities designed to help you prepare for the weekly quizzes. Lab homework consists of practice lab quizzes in the same format as the actual lab assessments. For all homework assignments, you have unlimited attempts, and only your highest score will be recorded in the gradebook.

You will complete weekly quizzes for both lectures and labs. Each quiz contains 15 questions and must be completed within 15 minutes. No proctor is required. Each quiz is worth 15 points.

All lecture and lab exams contain 50 questions and are worth 50 points (1 point per question). Exams are closed book, and the use of notes is not permitted. All exams require proctoring. You will have 50 minutes to complete each exam.

The format of all lecture quizzes and exams is mostly multiple choice. The format of all lab assessments is fill-in-the-blank. You are allowed only one attempt for each quiz and exam. Please refer to the course outline for quiz and exam dates and requirements.

Missed work: All assignments are available during a window of several days. Plan to complete them early so that unexpected circumstances do not prevent you from submitting your work on time. Missed assignments cannot be reopened, regardless of the circumstances.

Academic Integrity and Copyright

The KCC' Student Code of Conduct is available on the web site.

Any violation of proctoring rules, no matter how small, will result in **zero points without a retake option**. "I didn't know" or "I didn't realize" does not excuse violation of these rules.

The course materials or content may be used outside of this course for purposes other than learning the material. This syllabus acts as a legally binding contract. By continuing in this class, you acknowledge that you read, understand and agree to these terms.

Rules for Naming anatomical Structures in Lab

Here are some simple rules about naming structures in lab:

- Please note that there are numerous variations in the nomenclature of anatomical parts, but we will only accept terms **EXACTLY** as they are listed in the lab manual. For example: *metatarsal 2*, not *2nd metatarsal* or *metatarsal two*, *metatarsal II* or any other combination of thereof.
- **Spelling** errors count as wrong answer, even if it is just one letter.
- **Do not use unnecessary words.** For example: *body of femur*, not *body of the femur*
- **Read the question, it may have helpful hints.** For example, *opening* usually refers to *foramen*, *depression* refers to *fossa* and *bone* refers to the entire bone and not its part. If the question states *Name the structure and the bone*, remember to include both, for example: *anatomical neck of humerus*, but not *anatomical neck*. Please compare with *Name the structure* and the correct answer *surgical neck*.
- Do not add *m.* or *l.* if the question already contains it. For example: *Structure on the image is ____ muscle*. Correct answer would be *deltoid*, but not *deltoid m.*
- **Use one, not both of the alternative names.** For example: *body of humerus* or *shaft of humerus*, but not *body (shaft) of humerus*
- **Abbreviations.** When abbreviating, please use appropriate punctuation (period). The only allowed Students are expected to demonstrate their knowledge with honesty and integrity. OIT considers academic dishonesty to be an unacceptable practice. Copying questions by any means (electronic or in writing) is against academic integrity policy.
- abbreviations include *m.* for muscle, *l.* for ligament *b.* for bone.

Proctoring:

Weekly quizzes and homework are not proctored.

- For homework, we strongly recommend against the use of AI (or you won't learn anything!) but you may use your notes and enhance them as you complete HW assignments.
- For quizzes, you should not use your notes or textbook either (on honor system). If you do not commit information to memory on weekly basis, you won't be able to cram for the exams.

All exams are proctored. Supplemental materials like textbooks, notes, and electronic devices are NOT allowed. You should complete exams by yourself without help from others. We provide convenience of learning from home. It is your responsibility to demonstrate that you complete the work in an honest manner (the burden of proof is on you). Please read testing requirements carefully and follow them to the letter. "I didn't know" or "I didn't realize" is not an excuse!

Proctoring Options:

1. Use [Proctor 360](#) for live remote proctoring. It is student's responsibility to ensure that the computer meets technical specifications for the proctoring session.
2. Take the exam at the KCC testing center on campus. Please contact [KCC testing center](#) at 541-880-2334 or testingcenter@klamathcc.edu to schedule your appointment at least **72 hours prior to your exam**.

No other testing options are available in this course. The testing centers of other schools and universities, as well as libraries or workplace supervisors, are not an acceptable substitution.

Violations:

Any violation of these rules no matter how small will result in **zero points without a retake option**. "I didn't know" or "I didn't realize" does not excuse violation of these rules.

Course Schedule:

		Lecture:	Lab:
Week 1	Ch.1	Course Overview, Syllabus quiz Introduction to A&P	Student Introduction Lab 1 Introduction to A&P
Week 2	Ch. 2	HW, Lecture quiz 1 Energy and matter, chemical bonds Molecules Chemical reactions	HW, Lab 1 quiz Lab 2 Shoulder and upper arm
Week 3	Ch. 3	HW, Lecture quiz 2 The cell Plasma membrane and transport Cell cycle	HW, Lab 2 quiz Lab 3 Forearm and hand
Week 4	Ch. 4	HW, Lecture quiz 3 Epithelial tissues Muscle and Nervous tissue Connective tissue	HW, Lab 3 quiz Lab 4 Hip and thigh
Week 5	Ch. 5	HW, Lecture quiz 4 Integumentary system	HW, Lab 4 quiz Lab 5 Knee, lower leg and foot
Week 6	Ch. 7 Ch. 8	HW, Lecture Midterm Bona anatomy Bone physiology Joints	HW, Lab 5 quiz -
Week 7	Ch. 8	HW, Lecture quiz 5 Joints	HW, Lab Midterm Lab 6 Face
Week 8	Ch. 9	HW, Lecture quiz 6 Muscle anatomy Muscle contraction Muscle physiology	HW, Lab 6 quiz Lab 7 Cranium
Week 9	Ch. 11	HW, Lecture quiz 7 Nervous system organization AP generation AP propagation	HW, Lab 7 quiz Lab 8 Thorax and abdomen
Week 10	Ch. 11	HW, Lecture quiz 8 Sensory receptor Synapse, neurotransmitters Neural circuits	HW, Lab Final
Finals week		HW, Lecture Final Exam	

All lecture HW assignments are available all term but are due at the end of their respective week. Lecture quizzes and exams are available Monday through Wednesday. Lecture quizzes are on the lectures of the previous week. Lecture Midterm is on Ch. 1-5. Lecture Final is on the lecture material of the entire term.

All Lab HW assignments are available Monday through Wednesday. Lab quizzes and exams are available Thursday through Sunday. Lab quizzes are on the previous week's lab. Lab Midterm is on Labs 2-5. Lab Final is on Labs 6-8.

For all quizzes and exams, use **plugin (not wireless) connection** and **Chrome browser**.