Syllabus

Instructor Contact Information:

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Course Overview:

Course number:	BIO 232 Human Anatomy and Physiology II
Course Title:	Human Anatomy and Physiology is a basic science course for all students majoring in Health Technologies or Nursing at Oregon Institute of Technology. This course is a three term sequence: BIO 231 covers an introduction to the principles of human anatomy and deals primary with the support and movement of the body. BIO 232 deals with control systems of human body. BIO 233 treats the systems which maintain the body and insure the survival of the species. The current term is a continuation of the systematic study of human anatomy and physiology with emphasis on the operation of control systems. The nervous, cardiovascular and immune systems are considered in details. The laboratory sessions emphasize human anatomy with the aid of interactive 3D anatomy program.
Course description:	
Prerequisites:	BIO 231 with "C" or better

Course Objectives:

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

- Utilize language of anatomy and use appropriate terminology to describe spatial orientation in anatomy
- Describe different levels of structural organization
- Define homeostasis and describe how negative and positive feedback maintains this balance
- Explain the relation between the structure and function as it relates to nervous, cardiovascular, and immune systems; explain the interdependence within and between the physiological systems
- Make the connection between the anatomy and physiology and clinical applications
- Approach and examine issues related to human anatomy and physiology from the evidence-based perspective
- Identify normal anatomical structures within nervous and cardiovascular system.

Textbook and Resources

- Elaine N. Marieb, Katja Hoehn *Human Anatomy & Physiology*, 9th edition
- Visible Body 3D Human Anatomy Atlas http://www.visiblebody.com

The textbook for this course is available through the OIT Book Store (please go to www.oit.edu and click on Bookstore).

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 quizzes (about 8) 5 pts. each
- Lecture exams (2) 50 pts. each
- Lab quizzes (about 7, including the introduction) 5 pts. each
- Lab exams (2) 50 pts. each

The grades will be assigned on the following scale:

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

Starting from week 2, you will be expected to take weekly quizzes for lecture and lab which have 25 questions. Each quiz weighs 5 points (0.2 point per question).
The format of lecture assessment is multiple choices. The lecture quiz testing time is 25 minutes (1 minute per question).
The format for lab assessments is fill-in-the blank**. The lab quiz testing time is 15 minutes (30 seconds per question).
All lecture and lab exams have 50 questions and weighs 50 points (1 point per question). They are closed-book, no notes and require proctoring. You will have 50 minutes to complete each exam. You are only allowed one attempt in taking each quiz/exam. Please see course schedule below for the conduct of quizzes and exams.

**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: *profunda femoris a.*, not *deep femoral a.* or *internal carotid a.,* not *carotid internal a. or internal branch of carotid a.*
- **Spelling** errors count as wrong answer, even if it's just one letter.
- **Do not use unnecessary words**. For example: *apex* not *apex of the heart*
- **Read the question, it specifies what is required of you**. For example, *Name and side the vessel* would require you to include *right* or *left*.
- **Use one, not both of the alternative names**. For example: *bicuspid valve*, but not *bicuspid (mitral) valve*.
- **Abbreviations**. When abbreviating, please use appropriate punctuation (period). The only allowed abbreviations are

a. for artery	*m.* for muscle	*R.* for right
v. for vein	*l.* for ligament	*L.* for left
n. for nerve	*b.* for bone	

Tentative Course Schedule:

	Lecture:	Lab:
Week 1	Syllabus, Unit I, Lecture 1 Development of the NS Unit I, Lecture 2 Cerebral hemisphere	Lab 1 The brain Introduction
Week 2	Lecture quiz 1 Unit I, Lecture 3 Diencephalon and brain stem Unit I, Lecture 4 Cerebellum and functional system Unit I, Lecture 5 Higher mental functions	Lab quiz 1 Lab 2 Peripheral nervous system and spinal cord
Week 3	Lecture quiz 2 Unit I, Lecture 6 Protection of the brain Unit I, Lecture 7 Spinal cord Unit I, Lecture 8 Somatosensory and motor systems	Lab quiz 2 Lab 3 Eye
Week 4	Lecture quiz 3 Unit II, Lecture 1 PNS and reflex Unit II, Lecture 2 Autonomic nervous system I Unit II, Lecture 3 Autonomic nervous system II	Lab quiz 3 Lab 4 Ear
Week 5	Lecture quiz 4 Unit II, Lecture 4 Eye and vision Unit II, Lecture 5 Chemical senses Unit II, Lecture 6 Hearing and balance	Lab Midterm
Week 6	Lecture Midterm Exam Unit III, Lecture 1 Heart anatomy Unit III, Lecture 1 Action potential in cardiomyocytes	Lab 5 Heart
Week 7	Lecture quiz 5 Unit III, Lecture 2 Pacemaker system of the heart Unit III, Lecture 3 Cardiac cycle Unit III, Lecture 4 Cardiac output	Lab quiz 4 Lab 6 Vessels of head and neck
Week 8	Lecture quiz 6 Unit III, Lecture 5 Arterial circulation and BP Unit III, Lecture 6 Microcirculation Unit III, Lecture 1 Venous and lymphatic systems	Lab quiz 5 Lab 7 Vascular system
Week 9	Lecture quiz 7 Unit IV, Lecture 1 Blood and plasma Unit IV, Lecture 2 RBC Unit IV, Lecture 3 Platelets and blood clotting	Lab quiz 6 Lab 8 Principle of blood typing
Week 10	Lecture quiz 8 Unit IV, Lecture 4 Inflammation Unit IV, Lecture 5 Specific immunity -	Lab Final Exam
Finals week	Lecture Final Exam	

All lecture quizzes and exams will be available during the scheduled week from Monday 8am till Wednesday 8pm PST.
Lecture quizzes test your knowledge of the material of the previous week. Lecture Midterm is on Units I and II. Lecture Final is on Units I, II, III and IV.

All Lab quizzes and exams will be available during the scheduled week from Thursday 8am till Sunday 8pm PST.
Lab quizzes are on previous week's lab. Lab Midterm is on Labs 1-4
Lab Final is on Labs 5-8.

For all quizzes and test, use **plugin (not wireless) connection** and **Google Chrome, Firefox or Safari (for Apple) browser**. All lecture and lab video recordings will be available from Monday 8am till Sunday 8pm PST of the scheduled week only.

Proctoring:

Proctoring will be required for lecture and laboratory exams, but not quizzes.
You have two options:

Option 1:

take exams at any College Testing Center
You will need to complete Application for Proctor and Proctoring Facility (please see under Proctor Information Tab) and send it to Dr. Li at huiyun.li@oit.edu (preferred) or OIT Distance Education Department via fax: 541-885-1139 no later than the end of 2nd week of the term. Upon approval of proctor and proctoring facility, we will provide them with access code for you to take the exams. Depending on the college, this service may or may not be free. Any cost associated with proctoring is your responsibility.

Option 2:

take exams with the aid of ProctorU
There is no download required; a live proctor will observe you via web. Learn how it works: www.proctoru.com/oregontech/ and watch the ProctorU demo
Please check technical requirements at www.proctoru.com/tech.php
and test your computer readiness by going to www.proctoru.com/testitout
You will have to pay them directly for their services $17.50 per exam (total cost of $70 a term)
Also be advised that you need to schedule your proctoring session in advance; to do so go to www.proctoru.com/oregontech/ and click on schedule the exam.

Disability Accommodations:

We will provide special accommodations for students with disabilities. If you have a disability and choose to disclose it to us, you need to provide proper documentation. To obtain such, please contact Director of Services for Students with Disabilities at OIT, 541-851-5227. You are then **personally** responsible for requesting the accommodation from Dr. Li.

Dropping the Course:

Grade:

Please note that it is **your responsibility** to drop the course via Web for Students.

- No grade will appear on your record if you drop by Friday 5pm PST of 2nd week of the term
- W (Withdraw) will appear on your record, if your drop by Friday 5pm PST of 7th week of the term

Refund:

- 100%, if you drop by Friday 5pm PST of 2nd week of the term
- 85%, if you drop by Friday 5pm PST of 3rd week of the term
- 50%, if you drop by Friday 5pm PST of 4th week of the term
- 0% thereafter

Academic Integrity at OIT

Students are expected to demonstrate their knowledge with honesty and integrity. OIT considers academic dishonesty to be an unacceptable practice. The complete OIT Student Academic Integrity Policy is available on the OIT web site.
http://www.oit.edu/libraries/project_lead_the_way/student_academic_integrity.pdf