Syllabus

Instructor Contact Information:

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Course Overview:

Course number:	BIO 233
Course Title:	Human Anatomy and Physiology III
Course description:	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 general concepts of cell biology and human body organization, and introduces the support and movement of the body. BIO 232 focuses on several integration and regulation systems of human body. BIO 233 introduces the systems which maintain the body homeostasis and insure the continuity of the species. The current term is an introduction to the systematic study of human anatomy and physiology with emphasis on the operation of control systems, including digestive, respiratory, reproductive, and urinary systems as well as metabolism. The laboratory sessions emphasize human anatomy with the aid of interactive 3D anatomy program. Principles of Genetics will also be introduced in the laboratory session.
Prerequisites:	BIO 232 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 cytology, histology, digestive, respiratory, urinary, and reproductive 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 of systems discussed in this course

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 (8) 5 pts. each
- Lecture exams (2) 50 pts. each
- Lab quizzes (6) 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 assessments is multiple choices. The lecture quiz testing time is 25 minutes.
The format for lab assessments is fill-in-the blank for anatomical parts (with correct spelling**). Multiple choice, and/or true false, and/or fill-in-the blank questions will be seen in Genetics and Acid-Base Physiology assessments. The lab quiz testing time is 15 minutes for Anatomy quizzes and 25 minutes for Genetics quizzes.
All lecture and lab exams have 50 questions and weighs 50 points (I point per question). No books/notes are allowed during exams and all exams require proctoring. Scratch papers will be provided for lab exams. 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: *fundus of stomach*, not *fundus,* or *ascending limb of the loop of Henle.,* not *ascending limb.*
  However, use **correct singular or plural forms of the words.** For example: *cerebral peduncle*, not *cerebral peduncles* (if only one structure is pointed at), or *oviduct, not oviducts (when only one duct is pointed at), or lobar bronchi, not lobar bronchus (when more than one bronchus are pointed at)*
- **Spelling** errors count as wrong answer, even if it's just one letter misspelled.
- **Do not use unnecessary words**. For example: *vocal cords,* not *vocal cords of the larynx*

- **Read the question, it specifies what is required**. For example, *Name and <u>side</u> the structure* would require you to include *right* or *left*.
- **Use one, not both of the alternative names**. For example: *fallopian tube*, not *fallopian tube (oviduct)*.
- **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 Anatomy of the GI tract Unit I, Lecture 2 Mouth, pharynx, and esophagus	Lab 1 Gastrointestinal system
Week 2	Lecture quiz 1 Unit I, Lecture 3 Stomach Unit I, Lecture 4 Liver and gallbladder Unit I, Lecture 5 Pancreas	Lab quiz 1 Lab 2 Genetics I
Week 3	Lecture quiz 2 Unit I, Lecture 6 Small intestines and absorption Unit I, Lecture 7 Large intestines Unit II, Lecture 1 Overviews of nutrition and metabolism	Lab quiz 2 Lab 3 Genetics II
Week 4	Lecture quiz 3 Unit II, Lecture 2 Metabolism of carbohydrates Unit II, Lecture 3 Metabolism of Lipids Unit II, Lecture 4 Metabolism of proteins	Lab quiz 3 Lab 4 Genetics III
Week 5	Lecture quiz 4 Unit II, Lecture 5 Vitamins and minerals Unit III, Lecture 1 Anatomy of nose, pharynx, and larynx -	Lab Midterm (Labs 1-4)
Week 6	Lecture Midterm Exam (Unites I and II) Unit III, Lecture 2 Anatomy of trachea, bronchi, and lungs Unit III, Lecture 3 Mechanisms of breathing -	Lab 5 Respiratory system
Week 7	Lecture quiz 5 Unit III, Lecture 4 Respiration Unit III, Lecture 5 Control of respiration Unit IV, Lecture 1 Anatomy of urinary system	Lab quiz 4 Lab 6 Urinary system
Week 8	Lecture quiz 6 Unit IV, Lecture 2 Urinary formation --filtration Unit IV, Lecture 3 Urinary formation -- reabsorption Unit IV, Lecture 4 Regulation of urinary function	Lab quiz 5 Lab 7 Acid-Base physiology
Week 9	Lecture quiz 7 Unit V, Lecture 1 Male reproductive system Unit V, Lecture 2 Physiology of male reproductive system -	Lab quiz 6 (Lab report) Lab 8 Reproductive system
Week 10	Lecture quiz 8 Unit V, Lecture 3 Female reproductive system Unit IV, Lecture 4 Physiology of female reproductive system -	Lab Final Exam (Labs 5-8)
Finals week	Lecture Final Exam (Units I-V)	

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 through V.

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.

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 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:

I will gladly provide special accommodations for students with disabilities. If you have a disability and choose to disclose it to me, you need to provide proper documentation. To obtain such, please contact Director of Services for Students with Disabilities at OIT, 541-851-5227. It is your responsibility to request the accommodation from the instructor.

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
- 50%, if you drop by Friday 5pm PST of 3rd week of the term
- 25%, 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