

### Instructor Contact Information:

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### General Course information:

Course Number:	BIO 233
Course Title:	Human Anatomy and Physiology III
Course Description:	Human Anatomy and Physiology is a required science course for all students majoring in pre-allied health professions at Oregon Tech. This course is part of 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 that 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. Pregnancy and human development will also be introduced in the laboratory session.
Prerequisites:	BIO 232 with "C" or better
Credits:	4 term or trimester credits (for transfer to other schools: 1.5 term credits equal 1 semester credit)
Accreditation:	Individual courses cannot be accredited. Oregon Institute of Technology is accredited by the Northwest Commission on Colleges and Universities (NWCCU), an institutional accrediting body recognized by the Higher Education Coordination Commission and the Secretary of the U.S. Department of Education.

### Textbook and Resources:

- Elaine N. Marieb, Katja Hoehn *Human Anatomy & Physiology*, 10<sup>th</sup> or 11<sup>th</sup> edition without Mastering A&P access code.
- Visible Body 3D Human Anatomy Atlas <http://www.visiblebody.com>

## Course Objectives:

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

- Develop a vocabulary of appropriate terminology to effectively communicate information related to anatomy and physiology (memorization and correct spelling of terminology are required).
- Recall the anatomical structures, then recall and explain the physiological functions of body systems.
- Recall and explain the principles of homeostasis and the use of feedback loops to control physiological systems in the human body.
- Use anatomical knowledge to predict physiological consequences, and use knowledge of function to predict the features of anatomical structures.
- Recall and explain the interrelationships within and between anatomical and physiological systems of the human body.
- Make a connection between knowledge of anatomy and physiology and real-world situations, including healthy lifestyle decisions and homeostatic imbalances.

## 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 2<sup>nd</sup> week of the term
  - W (Withdraw) will appear on your record, if your drop by Friday 5pm PST of 7<sup>th</sup> week of the term
- Refund: Drop policy in the campus-wide syllabus addresses refund amount and the associated dates.

## Academic Integrity and Copyright Law at OIT

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.

The complete OIT Student Academic Integrity Policy, OIT-14-30, is available on the Oregon Tech web site.

In accordance with Oregon Tech's Intellectual Property policy, OIT-24-101 section 6.215, no 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, understood and agree to these terms.

## Proctoring:

Proctoring will be required only for the exams, but not quizzes. Your proctors will not have the exam dates, so it is your responsibility to schedule exams when they are available on the Blackboard.

Please note that starting Summer of 2018, we only accept ProctorU as a proctor. Please check out their website and register: <http://www.proctoru.com/>.

A live proctor will observe you via web camera, there is no download required. Learn how it works and watch the ProctorU demo: [www.proctoru.com/oregontech/](http://www.proctoru.com/oregontech/).

It is your responsibility to ensure that your computer meets technical specifications for the proctoring session. You should schedule your proctoring session in advance; to do so go to [www.proctoru.com/oregontech/](http://www.proctoru.com/oregontech/). Late scheduling may not be possible or result in extra charges. All charges associated with ProctorU services are student's responsibility.

## 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, including syllabus quiz) 5pts each
- Lecture exams (2) 50pts. each
- Lab quizzes (about 8, including introduction) 5pts. each
- Lab exams (2) 50pts. 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 have to take weekly quizzes (5 points per quiz) for lecture and lab. The format for all lecture assessment questions is multiple choice. For the anatomy labs (labs 1, 2, 3, and 5), each quiz has 25 questions (0.2 points per question) to complete in 25 minutes, and no proctor is required. The format of lab model assessment question is fill-in-the blank\*\* for anatomical parts (with correct spelling). Lab 4 quiz is a lab report on Acid Base Balance. Lab quiz 6 and 7 are on Pregnancy and Human Development with 15 questions each (0.33-0.34 points per question) and the format of the questions is a combination of multiple choice, true false, and matching.

Each lecture and lab exam (midterm and final exams) has 50 questions and weighs 50 points (1 point per question). The format of the lab midterm exam is identical to that of weekly quizzes, while the lab final exam includes not only fill-in-the-blanks for the anatomy lab (lab 5), but also multiple choice, true false, matching, and fill-in-the-blank for the Pregnancy and Human Development. No books/notes are allowed during the exams and all exams require proctoring. You have 50 minutes to complete each exam.

Only one attempt is allowed in taking each quiz/exam. Please see course schedule below for the conduct of quizzes and exams. You can review your quizzes any time after the due date by going to Grades and clicking on the quiz of interest and then the score. You can review your exams only once upon the completion of the test.

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\*\*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 side 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  
*v.* for vein

*R.* for right  
*L.* for left

*n.* for nerve  
*m.* for muscle

*l.* for ligament  
*b.* for bone.

**Course Schedule:**

	<u>Lecture:</u>	<u>Lab:</u>
Week 1	Syllabus Unit I, Lecture 1 Anatomy of the GI tract	Lab 1 Gastrointestinal system
Week 2	Unit I, Lecture 2 Mouth, pharynx, and esophagus <a href="#">Lecture quiz 1</a> Unit I, Lecture 3 Stomach Unit I, Lecture 4 Liver and gallbladder Unit I, Lecture 5 Pancreas	<a href="#">Lab quiz 1</a> Lab 2 Respiratory system
Week 3	<a href="#">Lecture quiz 2</a> Unit I, Lecture 6 Small intestines and absorption Unit I, Lecture 7 Large intestines Unit II, Lecture 1 Overviews of nutrition and metabolism	<a href="#">Lab quiz 2</a> Lab 3 Urinary system
Week 4	<a href="#">Lecture quiz 3</a> Unit II, Lecture 2 Metabolism of carbohydrates Unit II, Lecture 3 Metabolism of Lipids Unit II, Lecture 4 Metabolism of proteins	<a href="#">Lab quiz 3</a> Lab 4 Acid-Base physiology
Week 5	<a href="#">Lecture quiz 4</a> Unit II, Lecture 5 Vitamins and minerals Unit III, Lecture 1 Anatomy of nose, pharynx, and larynx	<a href="#">Lab quiz 4 (Lab report)</a> <a href="#">Lab Midterm (Labs 1-4)</a>
Week 6	<a href="#">Lecture Midterm Exam (Unites I and II)</a> Unit III, Lecture 2 Anatomy of trachea, bronchi, and lungs Unit III, Lecture 3 Mechanisms of breathing	Lab 5 Reproductive system
Week 7	<a href="#">Lecture quiz 5</a> Unit III, Lecture 4 Respiration Unit III, Lecture 5 Control of respiration Unit IV, Lecture 1 Anatomy of urinary system	<a href="#">Lab quiz 5</a> Lab 6 Pregnancy and Human Development I
Week 8	<a href="#">Lecture quiz 6</a> Unit IV, Lecture 2 Urinary formation --filtration Unit IV, Lecture 3 Urinary formation -- reabsorption Unit IV, Lecture 4 Regulation of urinary function	<a href="#">Lab quiz 6</a> Lab 7 Pregnancy and Human Development II
Week 9	<a href="#">Lecture quiz 7</a> Unit V, Lecture 1 Male reproductive system Unit V, Lecture 2 Physiology of male reproductive system	Lab quiz 7 Lab 8 Pregnancy and Human Development III
Week 10	<a href="#">Lecture quiz 8</a> Unit V, Lecture 3 Female reproductive system Unit IV, Lecture 4 Physiology of female reproductive system	<a href="#">Lab Final Exam (Labs 5-8)</a>
Finals week	<a href="#">Lecture Final Exam (Units I-V)</a>	

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, IV and 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.

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.