

COURSE OUTLINE		
<b>TERM:</b> Fall 2022	<b>COURSE NO:</b> BIOL 313	
<b>INSTRUCTOR:</b>	<b>COURSE TITLE:</b> Human Physiology II	
<b>OFFICE:</b> <b>LOCAL:</b> <b>E-MAIL:</b> @capilanou.ca	<b>SECTION NO(S):</b>	<b>CREDITS:</b> 3.0
<b>OFFICE HOURS:</b>		
<b>COURSE WEBSITE:</b>		

Capilano University acknowledges with respect the Lilwat7úl (Lil'wat), xʷmə̓ł̓ ʔkʷəyəm (Musqueam), shíshálh (Sechelt), Skwxwú7mesh (Squamish), and Səlílwətaʔ/Selilwitulh (Tsleil-Waututh) people on whose territories our campuses are located.

#### **COURSE FORMAT**

Three hours of class time, plus an additional hour delivered through on-line or other activities for a 15-week semester, which includes two weeks for final exams.

#### **COURSE PREREQUISITE**

BIOL 209 (C-)

#### **CALENDAR DESCRIPTION**

This course is a detailed examination of specific organ systems in the human body, including the lymphatic, cardiovascular, respiratory, urinary and reproductive systems. The course focuses on integration of physiological mechanisms at the molecular, cellular and systems level.

#### **COURSE NOTE**

BIOL 313 is an approved Science Course.

BIOL 313 is an approved Science and Technology course for Cap Core requirements.

#### **REQUIRED TEXTS AND/OR RESOURCES**

Textbook: Marieb, E.N. and Hoehn, K. (2018). Human Anatomy and Physiology (11th Ed.) San Francisco: Pearson.

#### **COURSE STUDENT LEARNING OUTCOMES**

**On successful completion of this course, students will be able to do the following:**

- Use anatomical terminology correctly
- Describe the structure and function of the organs in each system and how the organs work together for a common physiological purpose
- Understand how homeostatic imbalances can occur in each of these organ systems, leading to disease or pathology

**Students who complete this Science and Technology course will be able to do the following:**

- Evaluate scientific information (e.g., distinguish primary and secondary sources, assess credibility and validity of information).
- Demonstrate how a problem, concept, or process can be modelled numerically, graphically, or algorithmically.
- Explain how scientific inquiry is based on investigation of evidence and evolves based on new findings.
- Participate in scientific inquiry and communicate the elements of the process, including making careful and systematic observations, developing and testing a hypothesis, analyzing evidence, and interpreting results.

**COURSE CONTENT**

<b>Weeks</b>	<b>Topics</b>	<b>Chapters</b>
1-3	<b>Lymphatic and immune systems</b> Lymphoid organs Innate and adaptive body defenses	20-21
4-6	<b>Cardiovascular system</b> Heart and blood vessels Cardiac cycle Blood pressure Blood pressure	18-19
7-8	<b>Respiratory physiology</b> Lungs and ventilation Gas transport Control of ventilation	22
9-10	<b>Urinary system</b> Kidneys Urine formation Fluid, electrolyte and acid-base balance	25-26
11-12	<b>Reproductive system</b> Male reproductive system and spermatogenesis Female reproductive system and oogenesis Ovarian and menstrual cycles Sexually transmitted infections	27
13	<b>Pregnancy and human development</b> Fertilization and implantation Fetal development and partuition Assisted reproductive technologies	28
14-15	Final Exam Period	

**EVALUATION PROFILE**

Midterm Exam 1	20%
Midterm Exam 2	20%

Final exam (comprehensive)	35%
Case Studies	20%
Participation*	5%
<b>TOTAL</b>	<b>100%</b>

\*The participation grade will be based on attendance and completion of in-class and/or out-of-class assignments.

### GRADING PROFILE

A+ = 90-100	B+ = 77-79	C+ = 67-69	D = 50-59
A = 85-89	B = 73-76	C = 63-66	F = 0-49
A- = 80-84	B- = 70-72	C- = 60-62	

### Incomplete Grades

Grades of Incomplete "I" are assigned only in exceptional circumstances when a student requests extra time to complete their coursework. Such agreements are made only at the request of the student, who is responsible to determine from the instructor the outstanding requirements of the course.

### Late Assignments

Assignments are due at the beginning of the class on the due date listed. If you anticipate handing in an assignment late, please consult with your instructor beforehand.

### Missed Exams/Quizzes/Labs etc.

Make-up exams, quizzes and/or tests are given at the discretion of the instructor. They are generally given only in medical emergencies or severe personal crises. Some missed labs or other activities may not be able to be accommodated. Please consult with your instructor.

### Attendance

Students are expected to attend all classes and associated activities.

### English Usage

Students are expected to proofread all written work for any grammatical, spelling and stylistic errors. Instructors may deduct marks for incorrect grammar and spelling in written assignments.

### Electronic Devices

Students may use electronic devices during class for note-taking only.

### On-line Communication

Outside of the classroom, instructors will (if necessary) communicate with students using either their official Capilano University email or eLearn; please check both regularly. Official communication between Capilano University and students is delivered to students' Capilano University email addresses only.

## UNIVERSITY OPERATIONAL DETAILS

### Tools for Success

Many services are available to support student success for Capilano University students. A central navigation point for all services can be found at: <https://www.capilano.ca/student-life/>

**Capilano University Security: download the [CapU Mobile Safety App](#)**

### Policy Statement (S2009-06)

Capilano University has policies on Academic Appeals (including appeal of final grade), Student Conduct, Academic Integrity, Academic Probation and other educational issues. These and other policies are available on the University website.

### Academic Integrity (S2017-05)

Any instance of academic dishonesty or breach of the standards of academic integrity is serious and students will be held accountable for their actions, whether acting alone or in a group. See policy and procedures S2017-05 Academic Integrity for more information: <https://www.capilano.ca/about-capu/governance/policies/>

Violations of academic integrity, including dishonesty in assignments, examinations, or other academic performances, are prohibited and will be handled in accordance with the Student Academic Integrity Procedures.

**Academic dishonesty** is any act that breaches one or more of the principles of academic integrity. Acts of academic dishonesty may include but are not limited to the following types:

**Cheating:** Using or providing unauthorized aids, assistance or materials while preparing or completing assessments, or when completing practical work (in clinical, practicum, or lab settings), including but not limited to the following:

- Copying or attempting to copy the work of another during an assessment;
- Communicating work to another student during an examination;
- Using unauthorized aids, notes, or electronic devices or means during an examination;
- Unauthorized possession of an assessment or answer key; and/or,
- Submitting of a substantially similar assessment by two or more students, except in the case where such submission is specifically authorized by the instructor.

**Fraud:** Creation or use of falsified documents.

**Misuse or misrepresentation of sources:** Presenting source material in such a way as to distort its original purpose or implication(s); misattributing words, ideas, etc. to someone other than the original source; misrepresenting or manipulating research findings or data; and/or suppressing aspects of findings or data in order to present conclusions in a light other than the research, taken as a whole, would support.

**Plagiarism:** Presenting or submitting, as one's own work, the research, words, ideas, artistic imagery, arguments, calculations, illustrations, or diagrams of another person or persons without explicit or accurate citation or credit.

**Self-Plagiarism:** Submitting one's own work for credit in more than one course without the permission of the instructors, or re-submitting work, in whole or in part, for which credit has already been granted without permission of the instructors.

**Prohibited Conduct:** The following are examples of other conduct specifically prohibited:

- Taking unauthorized possession of the work of another student (for example, intercepting and removing such work from a photocopier or printer, or collecting the graded work of another student from a stack of papers);
- Falsifying one's own and/or other students' attendance in a course;
- Impersonating or allowing the impersonation of an individual;
- Modifying a graded assessment then submitting it for re-grading; or,
- Assisting or attempting to assist another person to commit any breach of academic integrity.

### **Sexual Violence and Misconduct**

All Members of the University Community have the right to work, teach and study in an environment that is free from all forms of sexual violence and misconduct. Policy B401 defines sexual assault as follows:

Sexual assault is any form of sexual contact that occurs without ongoing and freely given consent, including the threat of sexual contact without consent. Sexual assault can be committed by a stranger, someone known to the survivor or an intimate partner.

Safety and security at the University are a priority and any form of sexual violence and misconduct will not be tolerated or condoned. The University expects all Students and Members of the University Community to abide by all laws and University policies, including B.401 Sexual Violence and Misconduct Policy and B.401.1 Sexual Violence and Misconduct Procedure (found on Policy page <https://www.capilanou.ca/about-capu/governance/policies/>)

**Emergencies:** Students are expected to familiarise themselves with the emergency policies where appropriate and the emergency procedures posted on the wall of the classroom.

## **DEPARTMENT OR PROGRAM OPERATIONAL DETAILS**

### **PROFESSIONALISM**

Students should be able to demonstrate a professional attitude and behaviour: reliability, respect for and cooperation with colleagues, willingness to work calmly and courteously, respect for equipment and systems, and constructive response to criticism. The use of cellphones for non-academic purposes during lecture sessions is prohibited. Students using cell phones inappropriately could be asked to leave the lecture hall by the instructor.

**EXPECTATIONS OF STUDENTS**

For success in this course, students are expected to attend all lectures; come prepared to address topics presented; and complete assigned text book readings. For every one hour of lecture material presented, students should expect to spend at least two hours reviewing material and engaging with the study tools provided.