UNIVERSITY OF THE FRASER VALLEY

ORIGINAL COURSE IMPLEMENTATION DATE: September 1993
REVISED COURSE IMPLEMENTATION DATE: September 2018
COURSE TO BE REVIEWED (six years after UEC approval)**:** December 2011
Course outline form version: 05/18/2018

OFFICIAL UNDERGRADUATE COURSE OUTLINE FORM

Note: The University reserves the right to amend course outlines as needed without notice.

Course Code and Number: KIN 370	**Number of Credits:** 4 Course credit policy (105)

Course Full Title: Human Physiology II
Course Short Title:
(Transcripts only display 30 characters. Departments may recommend a short title if one is needed. If left blank, one will be assigned.)

Faculty: Faculty of Health Sciences	**Department (or program if no department):** Kinesiology

Calendar Description:

This course is an extension of KIN 270 and will examine the structure, function, and regulation of the organ systems supporting human movement (circulatory, lymphatic, respiratory, urinary, and digestive) as well as the immune and reproductive systems.

Note: Students with credit for KPE 291, KPE 370, or KIN 272 cannot take this course for further credit.

Prerequisites (or NONE):	KIN 270 (formerly KPE 270).
Corequisites (if applicable, or NONE):	
Pre/corequisites (if applicable, or NONE):	

Antirequisite Courses *(Cannot be taken for additional credit.)*
Former course code/number: **KPE 291, KPE 370**
Cross-listed with:
Dual-listed with:
Equivalent course(s): **KIN 272**
(If offered in the previous five years, antirequisite course(s) will be included in the calendar description as a note that students with credit for the antirequisite course(s) cannot take this course for further credit.)

Typical Structure of Instructional Hours

Lecture/seminar hours	39
Tutorials/workshops	
Supervised laboratory hours	36
Experiential (field experience, practicum, internship, etc.)	
Supervised online activities	
Other contact hours:	
Total hours	**75**

Labs to be scheduled independent of lecture hours: ☐ No ☐ Yes

Special Topics *(Double-click on boxes to select.)*
This course is offered with different topics:
☒ No ☐ Yes *(If yes, topic will be recorded when offered.)*

Independent Study
If offered as an Independent Study course, this course may be repeated for further credit: *(If yes, topic will be recorded.)*
☒ No ☐ Yes, repeat(s) ☐ Yes, no limit

Transfer Credit
Transfer credit already exists: *(See **bctransferguide.ca**.)*
☐ No ☐ Yes
Submit outline for (re)articulation:
☐ No ☐ Yes *(If yes, fill in transfer credit form.)*

Grading System
☒ Letter Grades ☐ Credit/No Credit

Maximum enrolment (for information only): 36

Expected Frequency of Course Offerings:
Four times annually *(Every semester, Fall only, annually, etc.)*

Department / Program Head or Director:	**Date approved:**
Faculty Council approval	**Date approved:**
Dean/Associate VP:	**Date approved:**
Campus-Wide Consultation (CWC)	**Date of posting:**
Undergraduate Education Committee (UEC) approval	**Date of meeting:** April 20, 2018

Learning Outcomes:

Upon successful completion of this course, students will have developed an understanding of:

1. The circulatory system, including blood, the heart, the cardiac cycle and vascular anatomy,
2. The respiratory system, including the mechanisms of inhalation and exhalation,
3. The lymphatic system and a brief discussion of immune function,
4. The digestive system, including mechanical and chemical digestion and accessory glands,
5. The urinary system, including the structure of the nephron and urine composition,
6. The male and female reproductive systems.

Prior Learning Assessment and Recognition (PLAR)

☒ Yes ☐ No, PLAR cannot be awarded for this course because

Typical Instructional Methods *(Guest lecturers, presentations, online instruction, field trips, etc.; may vary at department's discretion.)*

Lecture, audiovisual presentation, computer interaction (anatomy programs), class participation/discussion.

Students may work as groups to prepare a written project on a contemporary issue relating to these organ systems. Student may be required to make an oral presentation and/or web page.

NOTE: The following sections may vary by instructor. Please see course syllabus available from the instructor.

Typical Text(s) and Resource Materials *(If more space is required, download Supplemental Texts and Resource Materials form.)*

	Author (surname, initials)	Title (article, book, journal, etc.)	Current ed.	Publisher	Year
1.	Marieb, E.N. and K.N. Hoehn	Human Anatomy and Physiology	☒	Pearson	2015
2.	Open Text	Anatomy and Physiology	☐	OpenStax	
3.	D.U. Silverthorne	Human Physiology: An Integrated Approach	☒	Pearson	2014
4.			☐		
5.			☐		

Required Additional Supplies and Materials *(Software, hardware, tools, specialized clothing, etc.)*

Laboratory space is provided along with anatomical charts and models. Equipment for blood, cardiovascular and respiratory function will be available, as well as urinalysis apparatus. Anatomy software is available in the computer lab.

Typical Evaluation Methods and Weighting

Final exam:	20%	Assignments:	%	Field experience:	%	Portfolio:	%
Midterm exams (2):	40%	Project:	%	Practicum:	%	Other:	%
Quizzes/tests:	%	Lab (4 exams):	40%	Shop work:	%	Total:	100%

Details (if necessary):

Typical Course Content and Topics

Circulatory system: cardiac conduction system, electrocardiograms, relative and absolute refractory periods, cardiac output, capillary exchange, peripheral resistance, blood pressure regulation

Respiratory system: pulmonary and alveolar ventilation, gas transport in blood, regulation of breathing, breathing at high altitude and when diving

Lymphatic system: regulation of body fluids, filtering and recycling blood components, Immune system, non-specific immune response (inflammation), specific immune response, humoral response, cell-mediated response, immunocompetency and immunogenicity

Digestive system: details of chemical digestion, regulation of digestive function, absorption and assimilation, defecation

Urinary system: urine production (filtration, reabsorption, and secretion), fluid and electrolyte balance, pH balance, micturition, renin-angiotensin system

Male and female reproductive systems: regulation of male gamete formation, function of the accessory glands, regulation of the menstrual cycle, fertilization and pregnancy, lactation

Students will work as groups to prepare a written project on a contemporary issue relating to these organ systems. They will also make an oral presentation and/or web page.