









Physiology

COURSE LEVEL Undergraduate

YEAR 2021

COURSE INFORMATION

 AREA/CATALOGUE BIOL 2035	 COURSE ID O1O923	 TIMETABLE/S First Semester (Study Period 2)
 COURSE LEVEL Undergraduate	 UNIT VALUE 4.5	 COURSE OWNER UniSA Clinical & Health Sciences
 OFFERED EXTERNALLY No	 UNIVERSITY-WIDE ELECTIVE COURSE No	

Course aim

To provide knowledge of the normal function of the human body and the ways in which the bodily systems integrate with each other.

Course content

Neuromuscular system: nervous system organisation - autonomic, somatic, sensory, pain, musculoskeletal control and function. Endocrine system: homeostatic control, hormone action, classes and glands, hypothalamic-pituitary-organ interactions, reproductive hormones, thyroid hormones and abnormalities, clinical perspectives of hormones related to fuel metabolism, diabetes and stress. Cardiovascular system: the heart, circulatory system, cardiovascular control, blood pressure, cardiovascular disturbances. Respiratory system: respiratory mechanics, gas exchange, gas transport, control of respiration, respiratory diseases (restrictive, obstructive), extreme conditions (exercise, altitude). Cardio-respiratory integration: cardio-respiratory control during exercise, ventilation-perfusion matching. Urinary system: renal processes and control (glomerular filtration, tubular re-absorption and secretion), fluid balance, acid-base balance. Gastrointestinal system: digestive processes (motility, secretion, digestion, absorption), parts of the digestive system, control of digestion (intrinsic and extrinsic nerves, gastrointestinal hormones). The theoretical systems content is reinforced practically through state-of-the-art experiential technologies enabling real time collection and analysis of students' physiological data. These are used to apply the scientific method, as well as develop problem solving and critical analytical skills.

Textbook(s)

Martini, FH, Nath, JL & Bartholomew, *Fundamentals of Anatomy & Physiology*, Current Edition, Pearson

Prerequisite(s)



Subject Area & Catalogue Number	
Course Name	
Common to all relevant programs	BIOL 1007
Subject Area & Catalogue Number	Biology A
Common to all relevant programs	BIOL 1012
Subject Area & Catalogue Number	Biology B

Corequisite(s)

Nil

Teaching method

INTERNAL, CITY EAST	
Component	Lecture
Duration	3 hours x 13 weeks
Component	Practical
Duration	3 hours x 6 weeks
Component	Tutorial
Duration	2 hour x 6 weeks
INTERNAL, OFFSHORE, HONG KONG BAPTIST UNIVERSITY	
Component	Lecture
Duration	39 hours x -
Component	Practical
Duration	18 hours x -
Component	Tutorial
Duration	12 hours x -

Note: These components may or may not be scheduled in every study period. Please refer to the timetable for further details.

Assessment

INTERNAL, CITY EAST	
Task	Test
Length	90 minutes
Weighting	35%



Duration	-
Task	Test
Length	90 minutes
Weighting	35%
Duration	-
Task	Group Practical Report
Length	-
Weighting	30%
Duration	Ongoing
INTERNAL, OFFSHORE, HONG KONG BAPTIST UNIVERSITY	
Task	Test
Length	90 minutes
Weighting	35%
Duration	-
Task	Test
Length	90 minutes
Weighting	35%
Duration	-
Task	Group Practical Report
Length	-
Weighting	30%
Duration	Ongoing

Fees

EFTSL*: 0.125

Commonwealth Supported program (Band 2)

To determine the fee for this course as part of a Commonwealth Supported program, go to:

[How to determine your Commonwealth Supported course fee. \(Opens new window\)](#)

Fee-paying program for domestic and international students

International students and students undertaking this course as part of a postgraduate fee paying program must refer to the relevant program home page to determine the cost for undertaking this course.

Non-award enrolment

Non-award tuition fees are set by the university. To determine the cost of this course, go to:

[How to determine the relevant non award tuition fee. \(Opens new window\)](#)



Not all courses are available on all of the above bases, and students must check to ensure that they are permitted to enrol in a particular course.

** Equivalent Full Time Study Load. Please note: all EFTSL values are published and calculated at ten decimal places. Values are displayed to three decimal places for ease of interpretation.*

Course Coordinators



AsPr Gabrielle Todd >
UniSA Clinical & Health Sciences



Dr Emma Parkinson-Lawrence >
UniSA Clinical & Health Sciences



Contact us

Australian students

Phone: +61 8 8302 2376

Enquiry: unisa.edu.au/enquiry

International students

Phone: +61 8 9627 4854

Enquiry: unisa.edu.au/international/enquiry

For further information please visit unisa.edu.au/study

Information correct at the time of publication. CRICOS provider number OO121B.

