NATS 1023 INTRODUCTION TO PHYSIOLOGY

Credit Points 10

Legacy Code 301353

Coordinator Sabine Piller (https://directory.westernsydney.edu.au/search/name/Sabine Piller/)

Description From 2020 this subject replaces 300818 - Introduction to Physiology. This subject introduces the concept of homeostasis and critically examines examples of how the body systems are regulated and homeostatically controlled. The subject uses a body-systems approach to examine the physiology of tissues, organs and systems in order to develop an integrated view of the regulated functioning of the human body.

School Science

Discipline Medical Science

Student Contribution Band HECS Band 2 10cp

Check your HECS Band contribution amount via the Fees (https://www.westernsydney.edu.au/currentstudents/current_students/fees/) page.

Level Undergraduate Level 1 subject

Equivalent Subjects NATS 1017 - Introduction to Human Physiology LGYA 6186 - Physiology 1 BIOS 1026 - Introduction to Physiology (WSTC) BIOS 1025 - Introduction to Physiology

Incompatible Subjects BIOS 1022 - Introduction to Human Biology

Learning Outcomes

On successful completion of this subject, students should be able to:

1. Describe the physiology of the discussed organ systems in detail.
2. Explain how the discussed organ systems are integrated and controlled by the endocrine and nervous system in order to maintain homeostasis.
3. Identify and list examples of negative and positive feedback loops.
4. Conduct simple measurements and record and interpret the results.
5. Interpret, present and discuss recorded data of the functioning of one organ system.
6. Analyse the complexity of the selected organ systems.
7. Communicate effectively by listening, speaking and participating in discussion of physiology.

Subject Content

1. Homeostasis
2. Physiology of the Nervous System
3. Cardiovascular Physiology
4. Respiratory physiology
5. Renal function and body fluid homeostasis
6. Physiology of the endocrine system
7. Muscle physiology and exercise
8. Nutrition, metabolism and gastrointestinal function
9. Physiology of the reproductive system

Assessment

The following table summarises the standard assessment tasks for this subject. Please note this is a guide only. Assessment tasks are regularly updated, where there is a difference your Learning Guide takes precedence.

Type	Length	Percent	Threshold	Individual/ Group Task
Tutorial worksheets and prac quizzes (5% each)	5 tutorial worksheets and 2 practical quizzes	30	N	Individual
Prac report and marking of example prac report		30	N	Individual
Participation at tutorial and practicals	no attendance/ participation threshold required	10	N	Individual
Final Exam	1 hour	30	N	Individual

Prescribed Texts

- https://ebookcentral.proquest.com/lib/uwsau/reader.action?docID=5187614&query=human+anatomy+and+physiology

Teaching Periods