NATS 2034 HUMAN SYSTEMS PHYSIOLOGY 1

Credit Points 10

Legacy Code 301269

Coordinator Ben Perry (https://directory.westernsydney.edu.au/search/ name/Ben Perry/)

Description This unit builds upon the core concepts and terminology introduced in Concepts in Physiology, focussing on the function of body organ systems, exploring the knowledge of how these organ systems are regulated, integrated, and function within the human body. The focus will be on the muscular, nervous, cardiovascular, respiratory and endocrine organ systems. Students will collect, interpret and analyse data to develop an understanding of the physiological responses 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 2 subject

Pre-requisite(s) BIOS 1033

Incompatible Subjects BIOS 1022 - Introduction to Human Biology

Learning Outcomes

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

- Identify, describe and explain the physiological processes of the muscular, nervous, cardiovascular, respiratory and endocrine systems.
- 2. Describe the physiological processes of muscle contraction in skeletal, smooth and cardiac muscle.
- 3. Name the component parts of the nervous and endocrine systems, and describe their roles in the processes of homeostasis and regulation of other organ systems.
- 4. Identify and describe the independent functions of the cardiovascular and respiratory systems, and their co-dependence for delivery of oxygen and clearance of metabolic products.
- 5. Discuss and explain data from laboratory activities and concepts from in-class activities.

Subject Content

-Muscle physiology -Neurophysiology -Cardiovascular system -Respiratory system -Endocrine 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.

| ltem Ouiz | Length | Percent | Threshold | Individual/ Group Task Individual |
|---------------------|---|---------|------------------|---|
| Quiz | each | 25 | IN | mumuuai |
| Participation | Duration of practical class (2 hrs) | 10 | Ν | Group |
| Report | 1,000 words | 20 | Ν | Individual |
| Final Exam | 2 hours | 45 | Ν | Individual |

Prescribed Texts

 Amerman, E, 2019, Human anatomy & physiology (Second edition; Global ed.), Pearson ISBN: 9781292260174

Teaching Periods

Autumn

Campbelltown

Day

Subject Contact Ben Perry (https://directory.westernsydney.edu.au/ search/name/Ben Perry/)

View timetable (https://classregistration.westernsydney.edu.au/even/ timetable/?subject_code=NATS2034_22-AUT_CA_D#subjects)

Parramatta - Victoria Rd

Day

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View timetable (https://classregistration.westernsydney.edu.au/even/timetable/?subject_code=NATS2034_22-AUT_PS_D#subjects)