

NATS 1029 HUMAN ANATOMY AND PHYSIOLOGY 1 (WSTC)

Credit Points 10

Coordinator Janice Petherick (<https://directory.westernsydney.edu.au/search/name/Janice.Petherick/>)

Description This is the first of two subjects covering systematic anatomy and physiology at an introductory level. This subject is designed to provide students in applied health science programs with an overview of body systems and their functions to ensure a suitable basis for their future studies. The subject studies the basic concepts of biochemistry and histology, general anatomy and physiology of the major body systems including the central and peripheral nervous systems, integumentary system, musculoskeletal system (bones, muscles and joints), special senses and endocrine system. Emphasis will be placed on the interconnection and relationship between structure and function at every level of organisation.

School Science

Discipline Medical Science

Student Contribution Band HECS Band 2 10cp

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

Level Undergraduate Level 1 subject

Equivalent Subjects NATS 1009

NATS 1021

BIOS 1033

Incompatible Subjects BIOS 1024

BIOS 1018

NATS 1015

NATS 1012

NATS 1017

Restrictions

Students must be enrolled at The College in the courses:

6042 Diploma in Science/Bachelor of Medical Science

6043 Diploma in Science/Bachelor of Science

7120 Diploma in Science Extended – Medical Science

7122 Diploma in Science Extended - Science

7084 Diploma in Science – exit

Students enrolled in Extended courses must have passed 40 CPs of preparatory units before enrolling in this unit.

Students enrolled in Integrated courses must have passed or be enrolled in the preparatory units before enrolling in this unit.

From Spring Block 3, 2025 - Students must be enrolled in an existing Destination College Diploma program listed below:

- 7188 Diploma in Culture, Society and Justice
- 7189 Diploma in Health Science
- 7190 Diploma in Business
- 7191 Diploma in Information and Communication Technologies
- 7192 Diploma in Building Design and Construction

- 7193 Diploma in Engineering Studies
- 7194 Diploma in Creative Industries and Communications
- 7195 Diploma in Arts
- 7196 Diploma in Science
- 7197 Diploma in Education Studies

Learning Outcomes

1. Identify, describe and explain the basic form and function of specific anatomical structures
2. Identify, describe and explain the physiological processes of major body systems
3. Describe and explain the interrelationships within and between anatomical and physiological systems of the human body
4. Describe and explain how body systems help to maintain a constant internal environment

Subject Content

Introductory anatomy and physiology of the following body systems:

- Musculoskeletal system (bones, muscles and joints)
- Integumentary system
- Central and peripheral nervous system
- Autonomic nervous system
- Special senses
- Endocrine system

Basic concepts of biological chemistry

Cellular & tissue organisation of the body

Special Requirements

Essential equipment

Closed footwear and lab coats for practical sessions.

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	Mandatory
Quiz	Up to 40 mins	20	N	Individual	N
Practical Exam	90-100 mins	25	N	Individual	N
Intra-session Exam	90 mins	20	N	Individual	N
End-of-session Exam	2 hrs	35	N	Individual	N

Autumn Blocks

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	Mandatory
Practical	a) 60 minutes b) 90 minutes	40	N	Individual	N

Portfolio	1000 words or equivalent completed in class	40	N	Individual	N
Quiz	90 minutes	20	N	Individual	N

Spring Blocks

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	Mandatory Task
Practical	a) 60 minutes b) 90 minutes	40	N	Individual	N
Portfolio	1000 words or equivalent completed in class	40	N	Individual	N
Quiz	90 minutes	20	N	Individual	N

Prescribed Texts

Marieb, E.N. & Hoehn, K. (2013). Human Anatomy and Physiology (9th ed). San Francisco: Benjamin Cummings/Pearson.

Teaching Periods

Term 1 (2025)

Nirimba Education Precinct

On-site

Subject Contact Janice Petherick (<https://directory.westernsydney.edu.au/search/name/Janice.Petherick/>)

View timetable (https://classregistration.westernsydney.edu.au/odd/timetable/?subject_code=NATS1029_25-T1_BL_1#subjects)

Spring Block 3 (2025)

Campbelltown

On-site

Subject Contact Janice Petherick (<https://directory.westernsydney.edu.au/search/name/Janice.Petherick/>)

View timetable (https://classregistration.westernsydney.edu.au/odd/timetable/?subject_code=NATS1029_25-SB3_CA_1#subjects)

Term 3 (2025)

Campbelltown

Hybrid

Subject Contact Janice Petherick (<https://directory.westernsydney.edu.au/search/name/Janice.Petherick/>)

View timetable (https://classregistration.westernsydney.edu.au/odd/timetable/?subject_code=NATS1029_25-T3_CA_3#subjects)