



ESPS1005

Functional Anatomy for Exercise and Sports Science

Session 2, In person-scheduled-weekday, North Ryde 2026

School of Health Sciences and Nursing

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Disclaimer

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General Information

Unit convenor and teaching staff

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Credit points

10

Prerequisites

ESPS1004

Corequisites

Co-badged status

Unit description

This unit will build on your foundational knowledge of neural, muscular, and skeletal anatomy to understand and explain the relationship of structure with function, force, and movement.

This comprehensive understanding will allow an appreciation for changes in the neuromusculoskeletal system as a result of deconditioning, ageing, injury, and the role of physical activity and exercise for normal human movement. You will be exposed to important anatomical variations and the impact of body proportions on body composition and function necessary when individualising exercises. Your analysis of static body assessments and dynamic body movements will be developed in the context of an exercise scientist. Finally, to cater to a growing exercise and sports industry, you will learn how to communicate your anatomical knowledge appropriately for different stakeholders (e.g., clients, families, other health or exercise professionals).

Important Academic Dates

Information about important academic dates including deadlines for withdrawing from units are available at <https://www.mq.edu.au/study/calendar-of-dates>

Learning Outcomes

On successful completion of this unit, you will be able to:

ULO1: Apply anatomical knowledge to analyse clinical and functional presentations relating to musculoskeletal system. (Exercise Science Practitioner)

ULO2: Demonstrate skills in identifying and differentiating musculoskeletal and vascular structures through surface anatomy. (Exercise Science Practitioner)

ULO3: Explain joint complexes of the axial and appendicular skeleton and their independent and composite functions in posture and movement analysis in exercise. (Exercise Science Practitioner)

ULO4: Utilise relevant anatomical and lay terms in communication with a range of stakeholders (e.g., clients, families, carers and other health or exercise professionals). (Professional)

ULO5: Analyse movement and identify the roles of muscle/s in producing and controlling the movement of a joint. (Exercise Science Practitioner)

General Assessment Information

Grade descriptors and other information concerning grading are contained in the [Macquarie University Assessment Policy](#).

All final grades are determined by a grading committee, in accordance with the Macquarie University Assessment Policy, and are not the sole responsibility of the Unit Convenor.

Students will be awarded a final grade and a mark which must correspond to the grade descriptors specified in the [Assessment Procedure](#) (clause 128).

To pass this unit, you must demonstrate sufficient evidence of achievement of the learning outcomes, meet any ungraded requirements, and achieve a final mark of 50 or better.

Further details for each assessment task will be available on iLearn.

Late Submissions

Unless a Special Consideration request has been submitted and approved, a 5% penalty (OF THE TOTAL POSSIBLE MARK) will be applied each day a written assessment is not submitted, up until the 7th day (including weekends). After the 7th day, a grade of '0' will be awarded even if the assessment is submitted. Submission time for all written assessments is set at 11.55pm. A 1-hour grace period is provided to students who experience a technical concern.

For example:

Number of days (hours) late	Total Possible Marks	Deduction	Raw mark	Final mark
1 day (1-24 hours)	100	5	75	70
2 days (24-48 hours)	100	10	75	65
3 days (48-72 hours)	100	15	75	60
7 days (144-168 hours)	100	35	75	40

>7 days (>168 hours)	100	-	75	0
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For any late submissions of time-sensitive tasks, such as scheduled tests/exams, performance assessments/presentations, and/or scheduled practical assessments/labs, students need to submit an application for Special Consideration.

Assessment Tasks

Name	Weighting	Hurdle	Due	Groupwork/Individual	Short Extension	AI Approach
Practical examination	40%	No	Week 8	Individual	No	Observed
Online quiz	25%	No	Week 11	Individual	No	Observed
Communication piece	35%	No	05/11/2026	Individual	Yes	Open

Practical examination

Assessment Type [1](#): Professional task

Indicative Time on Task [2](#): 45 hours

Due: **Week 8**

Weighting: **40%**

Groupwork/Individual: Individual

Short extension [3](#): No

AI Approach: Observed

Practical exam with stations, including media such as models and photographs

On successful completion you will be able to:

- Apply anatomical knowledge to analyse clinical and functional presentations relating to musculoskeletal system. (Exercise Science Practitioner)
- Demonstrate skills in identifying and differentiating musculoskeletal and vascular structures through surface anatomy. (Exercise Science Practitioner)
- Explain joint complexes of the axial and appendicular skeleton and their independent and composite functions in posture and movement analysis in exercise. (Exercise Science Practitioner)
- Analyse movement and identify the roles of muscle/s in producing and controlling the movement of a joint. (Exercise Science Practitioner)

Online quiz

Assessment Type ¹: Examination

Indicative Time on Task ²: 27 hours

Due: **Week 11**

Weighting: **25%**

Groupwork/Individual: Individual

Short extension ³: No

AI Approach: Observed

An open book online quiz to ensure understanding and application of anatomical concepts.

On successful completion you will be able to:

- Apply anatomical knowledge to analyse clinical and functional presentations relating to musculoskeletal system. (Exercise Science Practitioner)
- Demonstrate skills in identifying and differentiating musculoskeletal and vascular structures through surface anatomy. (Exercise Science Practitioner)
- Explain joint complexes of the axial and appendicular skeleton and their independent and composite functions in posture and movement analysis in exercise. (Exercise Science Practitioner)

Communication piece

Assessment Type ¹: Professional task

Indicative Time on Task ²: 27 hours

Due: **05/11/2026**

Weighting: **35%**

Groupwork/Individual: Individual

Short extension ³: Yes

AI Approach: Open

A report and video aimed at a client being assessed for movement quality

On successful completion you will be able to:

- Apply anatomical knowledge to analyse clinical and functional presentations relating to musculoskeletal system. (Exercise Science Practitioner)
- Explain joint complexes of the axial and appendicular skeleton and their independent and composite functions in posture and movement analysis in exercise. (Exercise Science Practitioner)
- Utilise relevant anatomical and lay terms in communication with a range of stakeholders (e.g., clients, families, carers and other health or exercise professionals). (Professional)

- Analyse movement and identify the roles of muscle/s in producing and controlling the movement of a joint. (Exercise Science Practitioner)

¹ If you need help with your assignment, please contact:

- the academic teaching staff in your unit for guidance in understanding or completing this type of assessment
- [Academic Success](#) for academic skills support.

² Indicative time-on-task is an estimate of the time required for completion of the assessment task and is subject to individual variation.

³ An automatic short extension is available for some assessments. Apply through the [Service Connect Portal](#).

Delivery and Resources

As a student enrolled in this unit, you will engage in a range of online and face-to-face learning activities, including lectures, practicals and tutorials. Details can be found on the iLearn site for this unit.

Recommended Readings

- McKinley, M. P., O'Loughlin, V. D., & Pennefather-O'Brien, E. E. (2021). *Human anatomy* (6th ed.). McGraw-Hill Education.
- Marieb, E. N., & Hoehn, K. N. (2022). *Human anatomy and physiology* (12th ed.). Pearson.
- Tortora, G. T., Derrickson, B. H., Burkett, B., Peoples, G., Dye, D., Cooke, J., Diversi, T., McKean, M., Summers, S., Di Pietro, F., Engel, A., Macartney, M., & Green, H. (2021). *Principles of anatomy and physiology* (3rd Asia-Pacific ed.). Wiley.
- Hall, J. E., & Guyton, A. C. (2016). *Guyton and Hall textbook of medical physiology* (13th ed.). Saunders.

Technology Used

Active participation in the learning activities throughout the unit will require students to have access to a tablet, laptop or similar device. Students who do not own their own laptop computer may borrow one from the university library.

Policies and Procedures

Macquarie University policies and procedures are accessible from [Policy Central](https://policies.mq.edu.au) (<https://policies.mq.edu.au>). Students should be aware of the following policies in particular with regard to Learning and Teaching:

- [Academic Appeals Policy](#)
- [Academic Integrity Policy](#)
- [Academic Progression Policy](#)
- [Assessment Policy](#)
- [Fitness to Practice Procedure](#)
- [Assessment Procedure](#)
- [Complaints Resolution Procedure for Students and Members of the Public](#)
- [Special Consideration Policy](#)

Students seeking more policy resources can visit [Student Policies](https://students.mq.edu.au/support/study/policies) (<https://students.mq.edu.au/support/study/policies>). It is your one-stop-shop for the key policies you need to know about throughout your undergraduate student journey.

To find other policies relating to Teaching and Learning, visit [Policy Central](https://policies.mq.edu.au) (<https://policies.mq.edu.au>) and use the [search tool](#).

Student Code of Conduct

Macquarie University students have a responsibility to be familiar with the Student Code of Conduct: <https://students.mq.edu.au/admin/other-resources/student-conduct>

Results

Results published on platform other than [eStudent](#), (eg. iLearn, Coursera etc.) or released directly by your Unit Convenor, are not confirmed as they are subject to final approval by the University. Once approved, final results will be sent to your student email address and will be made available in [eStudent](#). For more information visit connect.mq.edu.au or if you are a Global MBA student contact globalmba.support@mq.edu.au

Academic Integrity

At Macquarie, we believe [academic integrity](#) – honesty, respect, trust, responsibility, fairness and courage – is at the core of learning, teaching and research. We recognise that meeting the expectations required to complete your assessments can be challenging. So, we offer you a range of resources and services to help you reach your potential, including free [online writing and maths support](#), [academic skills development](#) and [wellbeing consultations](#).

Student Support

Macquarie University provides a range of support services for students. For details, visit <http://students.mq.edu.au/support/>

Academic Success

[Academic Success](#) provides resources to develop your English language proficiency, academic writing, and communication skills.

- [Ask a Study Coach](#)
- [Access StudyWISE](#)

- [Upload an assignment to Studiosity](#)
- [Complete the Academic Integrity Module](#)

The Library provides online and face to face support to help you find and use relevant information resources.

- [Subject and Research Guides](#)
- [Ask a Librarian](#)

Student Services and Support

Macquarie University offers a range of [Student Support Services](#) including:

- [IT Support](#)
- [Accessibility and disability support](#) with study
- Mental health [support](#)
- [Safety support](#) to respond to bullying, harassment, sexual harassment and sexual assault
- [Social support including information about finances, tenancy and legal issues](#)
- [Student Advocacy](#) provides independent advice on MQ policies, procedures, and processes

Student Enquiries

Got a question? Ask us via the [Service Connect Portal](#), or contact [Service Connect](#).

IT Help

For help with University computer systems and technology, visit <https://students.mq.edu.au/support/technology/service-desk>.

When using the University's IT, you must adhere to the [Acceptable Use of IT Resources Policy](#). The policy applies to all who connect to the MQ network including students.

Inclusion and Diversity

Social inclusion at Macquarie University is about giving everyone who has the potential to benefit from higher education the opportunity to study at university, participate in campus life and flourish in their chosen field. The University has made significant moves to promote an equitable, diverse and exciting campus community for the benefit of staff and students. It is your responsibility to contribute towards the development of an inclusive culture and practice in the areas of learning and teaching, research, and service orientation and delivery. As a member of the Macquarie University community, you must not discriminate against or harass others based on their sex, gender, race, marital status, carers' responsibilities, disability, sexual orientation, age, political conviction or religious belief. All staff and students are expected to display appropriate behaviour that is conducive to a healthy learning environment for everyone.

Professionalism

In the Faculty of Medicine, Health and Human Sciences, professionalism is a key capability embedded in all our courses.

As an adult learner, we respect your decision to choose how you engage with your learning, but we would remind you that the learning opportunities we create for you have been done so to enable your success, and that by not engaging you may impact your ability to successfully complete this unit. We equally expect that you show respect for the academic staff who have worked hard to develop meaningful activities and prioritise your learning by communicating with them in advance if you are unable to attend a small group interactive session.

Another dimension of professionalism is having respect for your peers. It is the right of every student to learn in an environment that is free of disruption and distraction. Please arrive to all learning activities on time, and if you are unavoidably detained, please join activity as quietly as possible to minimise disruption. Phones and other electronic devices that produce noise and other distractions must be turned off prior to entering class. Where your own device (e.g., laptop) is being used for class-related activities, you are asked to close down all other applications to avoid distraction to you and others. Please treat your fellow students with the utmost respect. If you are uncomfortable participating in any specific activity, please let the relevant academic know.

Professionalism in Anatomy

The study of human anatomy at Macquarie University is governed by the Anatomy Act (1977) and students are admitted to the anatomy laboratories on the proviso that they comply with all relevant legislation.

It is important that this includes respect and professionalism in your dealings with human material and your interactions with your colleagues and members of the public. Donating one's body to science is an act of selflessness and generosity that contributes greatly to advancing medical research and education. It behoves us all, therefore, to treat the donations with utmost care, respect and professionalism. Failure to do so not only can result in serious reputational consequences for you and the University, but can result in suspension, expulsion and possible imprisonment.

Please behave professionally at all times and treat our valuable human anatomy teaching resources with utmost care and respect. Thank you.

Unit information based on version 2026.02 of the [Handbook](#)