



MEDI2100

Musculoskeletal System

Session 2, Weekday attendance, North Ryde 2021

Medicine, Health and Human Sciences Faculty level units

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Disclaimer

Macquarie University has taken all reasonable measures to ensure the information in this publication is accurate and up-to-date. However, the information may change or become out-dated as a result of change in University policies, procedures or rules. The University reserves the right to make changes to any information in this publication without notice. Users of this publication are advised to check the website version of this publication [or the relevant faculty or department] before acting on any information in this publication.

Session 2 Learning and Teaching Update

The decision has been made to conduct study online for the remainder of Session 2 for all units WITHOUT mandatory on-campus learning activities. Exams for Session 2 will also be online where possible to do so.

This is due to the extension of the lockdown orders and to provide certainty around arrangements for the remainder of Session 2. We hope to return to campus beyond Session 2 as soon as it is safe and appropriate to do so.

Some classes/teaching activities cannot be moved online and must be taught on campus. You should already know if you are in one of these classes/teaching activities and your unit convenor will provide you with more information via iLearn. If you want to confirm, see the list of [units with mandatory on-campus classes/teaching activities](#).

Visit the [MQ COVID-19 information page](#) for more detail.

General Information

Unit convenor and teaching staff

Unit Convenor

Mirjana Strkalj

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Contact via email

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Credit points

10

Prerequisites

30cp at 1000 level or above including ANAT1001 or HLTH108

Corequisites

Co-badged status

Unit description

This unit focuses on the musculoskeletal anatomy and physiology of the upper and lower limbs and back, building upon your basic knowledge of anatomy acquired in ANAT1001 (Introduction to Anatomy). You will apply your knowledge of musculoskeletal anatomy and physiology through practical classes involving prosected cadavers, models, medical images, surface anatomy and clinical cases which collectively allow students to demonstrate ethical and professional behaviour, including an appreciation and respect for those who have bequeathed their bodies to medicine. Utilising an integrated, clinically-based approach to teaching that encompasses relevant gross and radiological anatomy as well as histology and embryology, you will develop an in-depth understanding of human musculoskeletal system.

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: Describe the structural and functional features of the musculoskeletal components of the limbs and back and their anatomical relationships.

ULO2: Outline the role of the endocrine system in the regulation of muscle and bone homeostasis.

ULO3: Articulate the physiological basis of bone and muscle function, and mechanisms of tissue repair after injury.

ULO4: Identify, on living subjects, surface anatomy landmarks of the limbs and back, the route of nerves and blood vessels, movements of joints, and muscle action.

ULO5: Apply knowledge of the anatomy of the limbs and back to interpret basic medical images.

ULO6: Apply knowledge of the anatomy of the limbs and back to the analysis of movement through the study of clinical cases.

ULO7: Show an appreciation and respect for those who have bequeathed their bodies to research.

General Assessment Information

Grade descriptors and other information concerning grading are contained in Schedule 1 of the Macquarie University Assessment Policy, which is available at: <https://staff.mq.edu.au/work/strategy-planning-and-governance/university-policies-and-procedures/policies/assessment>.

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

All final grades in the Bachelor of Clinical Science are determined by a grading committee and are not the sole responsibility of the Unit Convenor.

To pass this unit, students must demonstrate sufficient evidence of achievement of the learning outcomes, meet any ungraded requirements including professionalism and achieve an SNG of 50 or better.

Student Professionalism

In the Faculty of Medicine, Health and Human Sciences, professionalism is a key capability embedded in all our courses. As part of developing professionalism, students are expected to attend all small group interactive sessions including tutorials, as well as clinical- and laboratory-based practical sessions.

Students are required to attend a minimum of 80% of the 12 weeks. To be marked present all weekly listed activities must be completed to the best of student's abilities. Students that do not meet this requirement may be deemed unable to meet expectations regarding professionalism and may be referred for disciplinary action (which may include exclusion from assessments and unit failure).

Similarly, as part of developing professionalism, students are expected to submit all work by the due date. Applications for assessment task extensions must be supported by appropriate evidence and submitted via www.ask.mq.edu.au. For further details please refer to the Special Consideration Policy available at <https://students.mq.edu.au/study/my-study-program/special-consideration>.

Late Submission

Late submissions will receive a 5% per day penalty including weekends and public holidays. If you submit the assessment task 10 days or more beyond the due date, without an approved extension, you will be awarded a maximum of 50% of the overall assessment marks. For example:

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Due date	Received	Days late	Deduction	Raw mark	Final mark
Friday 14th	Monday 17th	3	15%	75%	60%

Assessment Tasks

Name	Weighting	Hurdle	Due
Anatomy Test	40%	No	Weeks 6&13
Online Quiz	10%	No	Weeks 5&12
Final Exam	50%	No	University Examination Period

Anatomy Test

Assessment Type ¹: Quiz/Test

Indicative Time on Task ²: 16 hours

Due: **Weeks 6&13**

Weighting: **40%**

Test assessing knowledge in gross anatomy of the musculoskeletal system.

On successful completion you will be able to:

- Describe the structural and functional features of the musculoskeletal components of the limbs and back and their anatomical relationships.
- Outline the role of the endocrine system in the regulation of muscle and bone homeostasis.
- Identify, on living subjects, surface anatomy landmarks of the limbs and back, the route of nerves and blood vessels, movements of joints, and muscle action.

- Apply knowledge of the anatomy of the limbs and back to interpret basic medical images.
- Apply knowledge of the anatomy of the limbs and back to the analysis of movement through the study of clinical cases.

Online Quiz

Assessment Type ¹: Quiz/Test

Indicative Time on Task ²: 4 hours

Due: **Weeks 5&12**

Weighting: **10%**

Online quiz assessing physiology component of the bone and muscle

On successful completion you will be able to:

- Outline the role of the endocrine system in the regulation of muscle and bone homeostasis.
- Articulate the physiological basis of bone and muscle function, and mechanisms of tissue repair after injury.
- Show an appreciation and respect for those who have bequeathed their bodies to research.

Final Exam

Assessment Type ¹: Examination

Indicative Time on Task ²: 20 hours

Due: **University Examination Period**

Weighting: **50%**

Formal written exam using a combination of question types assessing content delivered across the session. This task is completed under examination conditions during the University examination period.

On successful completion you will be able to:

- Describe the structural and functional features of the musculoskeletal components of the limbs and back and their anatomical relationships.
- Outline the role of the endocrine system in the regulation of muscle and bone homeostasis.

- Articulate the physiological basis of bone and muscle function, and mechanisms of tissue repair after injury.
- Identify, on living subjects, surface anatomy landmarks of the limbs and back, the route of nerves and blood vessels, movements of joints, and muscle action.
- Apply knowledge of the anatomy of the limbs and back to interpret basic medical images.
- Apply knowledge of the anatomy of the limbs and back to the analysis of movement through the study of clinical cases.
- Show an appreciation and respect for those who have bequeathed their bodies to research.

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
- the [Writing Centre](#) 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

Delivery and Resources

This unit involves essential on-campus learning activities which will be delivered in accordance with a COVID Safe plan. You are expected to attend on-campus for these activities unless the Public Health Orders and/or University advice changes, you have any symptoms of COVID or you have been identified as a contact of an individual with COVID. Please refer to iLearn for further information.

This unit incorporates a variety of learning tools and media. It comprises:

3 x 1 hour lectures per week, weeks 1-13

1 x 1.5 hours wet laboratory practical session, weeks 2-13

1 x 1.5 h tutorial session per week, weeks 2-13

Prescribed text books and learning materials:

- Moore KL, Agur AMR, & [Dalley](#) AF. (2013) *Clinically Oriented Anatomy* 7th ed. Lippincott Williams & Wilkins. Baltimore.
- **or**
- Drake RL & Lowrie (2014) *Gray's Anatomy for Students*. 3rd ed. Elsevier.
- MEDI2100 Anatomy Practical Workbook – available in iLearn
- Abrahams PH, Boon J & Spratt JD (2009) *McMinn's Clinical Atlas of Human Anatomy*.

6th ed. Mosby/Saunders Elsevier.

- Anatomy.TV – available through Macquarie University Library

Unit Schedule

Week	Start Date	Lectures (synchronous, online)	Practical LAB (F2F)	Tutorial TUT (F2F or online)	Quiz
		L1 & L2: TUE 11am-1pm & L3: THUR 8-9am	2h LAB: TUE or WED (as per enrolment)	1h TUT: FRI (as per enrolment)	
1	26/ 07	Introduction & Commemoration; Overview of UL; Shoulder	<i>NO F2F LAB</i> Online module: <i>Osteology</i>	<i>NO F2F TUT</i> Online module: <i>Arm</i>	<i>Formative quiz</i>
2	02/ 08	Elbow, Forearm, Wrist	LAB 1: Shoulder, Arm	TUT 1: Shoulder/Arm	<i>Formative quiz</i>
3	09/ 08	Hand, UL neuro-vasculature 1 & 2	LAB 2: Elbow, Forearm, Wrist	TUT 2: Elbow/Forearm	<i>Formative quiz</i>
4	16/ 08	UL Revision; UL Surface Anatomy; Embryology	LAB 3: Hand, UL neurovascular.	TUT 3: Wrist/Hand	<i>Formative quiz</i>
5	23/ 08	UL revision; Overview of LL	LAB 4: Revision	TUT 4: UL neurovascular.	QUIZ 1 (5%)
6	30/ 08	Gluteal region; Hip; Thigh	PRAC EXAM 1 (15%)	<i>NO F2F TUT</i>	<i>Formative quiz</i>
7	06/ 09	Knee; Leg; Intro to Foot	LAB 5: Gluteal region, Hip, Thigh	TUT 5: Hip/Thigh	<i>Formative quiz</i>
RECESS: 13/09 – 26/09					
8	27/ 09	Ankle; Foot; LL Neuro-vasculature 1	LAB 6: Knee, Leg	TUT 6: Knee/Leg	<i>Formative quiz</i>
9	04/ 10	LL Neuro-vasculature 2; Surface Anatomy	<i>NO F2F LAB</i> <i>online activities</i>	<i>NO F2F TUT</i> <i>online activities</i>	<i>Formative quiz</i>
10	11/ 10	Back 1	LAB 7: Ankle, Foot, Neuro-vasculature	TUT 7: Ankle/Foot, LL neurovascular.	<i>Formative quiz</i>

11	18/ 10	Back 2; Trunk Wall	LAB 8: Back 1, Revision	TUT 8: Back 1	<i>Formative quiz</i>
12	25/ 10	LL & Back Revision; Embryology	LAB 9: Back 2, Revision	TUT 9: Back 2	QUIZ 2 (5%)
13	01/ 11	<i>NO LECTURE</i>	PRAC EXAM 2 (25%)	<i>NO F2F TUT</i>	Final Exam (50%) (University Timetable)

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](#)
- [Grade Appeal Policy](#)
- [Complaint Management 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 ask.mq.edu.au or if you are a Global MBA student contact globalmba.support@mq.edu.au

Student Support

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

dents.mq.edu.au/support/

Learning Skills

Learning Skills (mq.edu.au/learningskills) provides academic writing resources and study strategies to help you improve your marks and take control of your study.

- [Getting help with your assignment](#)
- [Workshops](#)
- [StudyWise](#)
- [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

Students with a disability are encouraged to contact the [Disability Service](#) who can provide appropriate help with any issues that arise during their studies.

Student Enquiries

For all student enquiries, visit Student Connect at ask.mq.edu.au

If you are a Global MBA student contact globalmba.support@mq.edu.au

IT Help

For help with University computer systems and technology, visit http://www.mq.edu.au/about_us/offices_and_units/information_technology/help/.

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.

Changes since First Published

Date	Description
15/07/2021	Additional delivery and resources information has been provided.