



# ANAT1002

## Anatomy of Limbs and Back

Session 2, In person-scheduled-weekday, North Ryde 2023

*Department of Chiropractic*

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## General Information

Unit convenor and teaching staff

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Contact via via email

room 2228, Level 2, 75 Talavera Rd (by appointment)

by appointment

Credit points

10

Prerequisites

HLTH108 or ANAT1001

Corequisites

Co-badged status

Unit description

This unit builds on the basic anatomy taught in ANAT1001 (previously known as HLTH108) (Introduction to Anatomy). It focuses on the musculoskeletal anatomy of the upper and lower limbs and back. The unit utilises an integrated approach within which relevant gross and radiological anatomy as well as histology and embryology are investigated in detail. It is clinically oriented and focuses on surface and applied anatomy. The unit includes a significant practical component in which human remains, models, medical images, surface anatomy and clinical cases are studied. Students are expected to show an appreciation and respect for those who have bequeathed their bodies to science.

## 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:** Demonstrate knowledge of the anatomy of the limbs and back with emphasis on understanding the structure-function relationship and significance in health and disease.

**ULO2:** Apply anatomical knowledge to analysis of clinical and functional presentations relating to the limbs and back.

**ULO3:** Demonstrate skills in identifying surface anatomy landmarks of the limbs and

back.

**ULO4:** Correlate normal anatomy of the limbs and back with interpretation of medical imaging.

## 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

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.

### Online Quizzes

There are ten weekly online quizzes (as per timetable). Each Quiz typically includes multiple choice, matching, T/F and identification questions on the topics of the given week. Questions are drawn from a database organised by specific subtopics for each question in the quiz. Time allocated: around 1.5-2 min per each question. The Quiz closes automatically once the time allocated runs out. Unfinished attempts will be saved automatically. You have ONE attempt at

each question and ONE attempt for the whole quiz. The Quiz will become available on the Friday evening of the allocated week and will stay open for one week to complete it in your own time. Late attempts are not allowed (zero marks). Written feedback will be provided. The best SEVEN marks out of TEN marks for the quizzes are counted towards the 20% of the final mark for the unit. The schedule of quizzes and their topics can be found in the timetable and iLearn.

### Practical Examinations

The Prac Exam 1 (Week 6) and Prac Exam 2 (Week 13), focus on practical identifications of anatomical structures. These tests are typically held in the usual scheduled practical laboratory classes, in the wet laboratory, in person. Prac Exams assess students' ability to identify correctly anatomical structures on human remains, bones, models, medical images, and surface anatomy on real specimens and/or photographs. Typically, there are around 15 stations, each with five identifications. Some relevant theoretical questions may also be included. The scope of Prac Exam 1 is on the practical knowledge achieved during the first five weeks of the semester, and Prac Exam 2 examines the practical knowledge relevant to weeks 6 throughout to week 13. The value of Prac Exam 1 is 15% and of Prac Exam 2 is 20% towards the final mark for the unit. For these assessments, students must attend the class they are enrolled in. If a practical exam is missed a supplementary exam will only be considered under the Special Consideration policy (<https://students.mq.edu.au/study/my-study-program/specialconsideration>). Applications for special consideration should be submitted online within 5 days of the missed assessment (see: [www.ask.mq.edu.au](http://www.ask.mq.edu.au)). The supplementary prac exams will be conducted in similar way as the main sittings (e.g. if prac exam was conducted in person, the supplementary prac exam will also be in person). Note: the supplementary prac exams are typically conducted AFTER EXAMINATION PERIOD; therefore, please do not plan your travel until confirming the date for the supplementary. There will be no individual sittings of prac exams due to the nature of the prac exams.

### Presentation

This is an individual presentation on a topic selected by a student from a list of topics suggested. The presentation mode may include a video, podcast or power point presentation. As this is a newly-introduced assessment, more details will be provided via iLearn platform, including a detailed marking rubric. The presentation contributes 10% towards the final mark for the unit.

### Final Theory Examination

This examination is held during the formal examination period, at the end of the semester. Its value is 35% towards the final mark. The examination is based on the entire content studied throughout the term covering gross anatomy of the limbs and back. The format of this paper comprises multiple choice and short answer questions. A typical structure of the examination paper includes around 60 multiple choice questions (answers to be filled in the automated marking sheets) and several (e.g. three to five) short answer questions (answers to be written in the answer booklet provided). Short answer questions are based on clinical scenarios and problems discussed in lectures and tutorials. The content of this examination is aligned with the learning outcomes for the unit and all learning activities that students participate in throughout the entire semester. The confidence in the knowledge and the examination skills will be built consistently throughout participation in weekly summative and formative quizzes (multiple choice

questions) and tutorial discussions (problem solving and clinical cases). Special Consideration procedures are as described above.

## Assessment Tasks

Name	Weighting	Hurdle	Due
<a href="#">Presentation</a>	10%	No	schedule to be negotiated
<a href="#">Quizzes</a>	20%	No	Weeks: 2-7 & 8-13
<a href="#">Practical Examination</a>	35%	No	Weeks 6 and 12
<a href="#">Final Theory Exam</a>	35%	No	Examination Period

### Presentation

Assessment Type <sup>1</sup>: Media presentation

Indicative Time on Task <sup>2</sup>: 7 hours

Due: **schedule to be negotiated**

Weighting: **10%**

An individual presentation on a topic selected by a student from a list of topics suggested. The presentation mode may include a video, podcast or power point presentation.

On successful completion you will be able to:

- Demonstrate knowledge of the anatomy of the limbs and back with emphasis on understanding the structure-function relationship and significance in health and disease.
- Apply anatomical knowledge to analysis of clinical and functional presentations relating to the limbs and back.
- Demonstrate skills in identifying surface anatomy landmarks of the limbs and back.
- Correlate normal anatomy of the limbs and back with interpretation of medical imaging.

### Quizzes

Assessment Type <sup>1</sup>: Quiz/Test

Indicative Time on Task <sup>2</sup>: 14 hours

Due: **Weeks: 2-7 & 8-13**

Weighting: **20%**

This assessment consists of short weekly quizzes that focus on the content covered in a given

week.

On successful completion you will be able to:

- Demonstrate knowledge of the anatomy of the limbs and back with emphasis on understanding the structure-function relationship and significance in health and disease.
- Apply anatomical knowledge to analysis of clinical and functional presentations relating to the limbs and back.
- Demonstrate skills in identifying surface anatomy landmarks of the limbs and back.
- Correlate normal anatomy of the limbs and back with interpretation of medical imaging.

## Practical Examination

Assessment Type <sup>1</sup>: Examination

Indicative Time on Task <sup>2</sup>: 25 hours

Due: **Weeks 6 and 12**

Weighting: **35%**

Practical examination will assess your ability to identify significant anatomical structures and their topographical relations using a variety of media. There will be two practical exams.

On successful completion you will be able to:

- Demonstrate knowledge of the anatomy of the limbs and back with emphasis on understanding the structure-function relationship and significance in health and disease.
- Apply anatomical knowledge to analysis of clinical and functional presentations relating to the limbs and back.
- Demonstrate skills in identifying surface anatomy landmarks of the limbs and back.
- Correlate normal anatomy of the limbs and back with interpretation of medical imaging.

## Final Theory Exam

Assessment Type <sup>1</sup>: Examination

Indicative Time on Task <sup>2</sup>: 25 hours

Due: **Examination Period**

Weighting: **35%**

Final theory exam includes main concepts studied for the entire unit. This exam will test your understanding and ability to analyse and apply anatomical knowledge to relevant life and clinical

scenarios.

On successful completion you will be able to:

- Demonstrate knowledge of the anatomy of the limbs and back with emphasis on understanding the structure-function relationship and significance in health and disease.
- Apply anatomical knowledge to analysis of clinical and functional presentations relating to the limbs and back.
- Demonstrate skills in identifying surface anatomy landmarks of the limbs and back.

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<sup>1</sup> 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.

<sup>2</sup> 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

As a student enrolled in this unit, you will engage in a range of face-to-face (laboratories and tutorials) and online (lectures and formative tasks) activities. Details can be found in the iLearn site for this unit.

### 1. Unit Schedule

A typical weekly schedule includes:

- two 1-hour online lectures (see timetable); lecture slides will be available in Weekly iLearn folders, and zoom recordings - via ECHO360. We strongly encourage you attending lectures live via zoom on a weekly basis because lecture attendance strongly positively correlates with final grades for the unit. While attending the lectures, please use lecture notes/worksheets provided in the Unit Manual. This will prepare you well for the lab and tutorial.
- one 2-hour 'in person' laboratory practical (as per enrolment), where we offer you experiential learning utilising models, bones, images and human postmortem tissue specimens. Prior to attending the lab, we strongly advise you attending the lectures and watching the relevant fragments of Acland's Video Atlas (available online for free via MQU Library). We advise you to print and bring your Unit Manual to the lab. In the lab, you will need to wear enclosed shoes and lab coat. You can only attend the labs strictly

per enrolment. Prior to attending your first lab, you are required to complete the Online Lab Induction Module. We strongly advise you attending the labs because the knowledge and skills you develop during the labs are directly linked to the practical examinations and all other assessments in the unit, including online quiz.

- one 1.5-hour 'in person' tutorial that consolidates your knowledge on the given topic by in depth-discussions of content delivered in lectures and laboratories applied to clinical cases and real life scenarios. This activity facilitates the development of deeper understanding of the unit content and forming long-term memory, which enhances a performance in the assessment. We strongly advice you attending tutorials for achieving the best results possible.
- independent work (at least 4 hours/week); this include tasks outlined in the Unit Manual, online activities including revision, 'check your understanding' online tutorials, formative quizzes, labelling tasks, and using Complete Anatomy software (available for free via MQ Library).

## **2. Classes**

Please make your choice for practical/workshop classes on E-student. You can only attend the classes according to your class registration. Under exceptional circumstances, lab/tutorials times may be changed, with a written approval from the Unit Convenor. Participation in laboratory practicals and tutorials is highly encouraged for optimal performance in the unit as all scheduled activities are positively aligned with the unit learning outcomes and assessments.

## **3. Recommended Readings and Materials**

The unit iLearn website can be accessed through the [ilearn.mq.edu.au](http://ilearn.mq.edu.au). The iLearn will contain all important study materials and links, such as:

- Unit Guide, Timetable
- Leganto link - you can access all relevant online resources available via MQ Library, e.g. textbooks, Complete Anatomy software, Acland's Video Atlas
- Unit Manual - please download it, print and bring your own copy to the labs and tutorials
- Lecture slides and ECHO30 link to lecture recordings
- Tutorial slides
- Formative learning activities - you have plenty of additional learning materials specifically developed to address weekly learning outcomes keeping in mind the specific format of the unit assessment; we highly encourage you usign these regularly and in smaller chunks

**Prescribed textbooks:** Vogl, Drake, & Mitchell (2019) Gray's Anatomy for Students. 4th Ed, Elsevier; OR Moore, Dalley, & Agur (2017) Clinically Oriented Anatomy. 8th Ed, Wolters Kluwer



**Prescribed atlases:** Abrahams, Boon & Spratt (2009) McMinn's Clinical Atlas of Human Anatomy. 6th Ed, Mosby/Saunders Elsevier, OR Rohen, Lutjen-Drecoll, & Yokochi (2015) A photographic Atlas. 8th Ed, Wolters Kluwer

#### 4. Technology Used

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

## Unit Schedule

ANAT1002, S2, 2023      TIMETABLE

Unit convenor: [irina.dedova@mq.edu.au](mailto:irina.dedova@mq.edu.au)

This is a **preliminary timetable** - please use iLearn for the latest version.

WEEK	START DATE	LECTURE	PRACTICAL LAB	TUTORIAL	QUIZ	DUE DATES
		MON (6-8pm) <i>live zoom</i>	2h LAB: WED-THUR-FRI <i>F2F LAB per enrolment</i>	1.5h W: MON-TUE <i>F2F per enrolment</i>		
1	24/07	Commemoration, UL overview	<i>online module – Shoulder Girdle</i>	<i>online module - Arm</i>		
2	31/07	Elbow, Forearm, Wrist	<b>LAB 1:</b> Shoulder, Arm	<i>online activities</i>	<b>Quiz 1</b>	Open: 04/08  Close: 11/08
3	07/08	Hand, UL Neurovasculature	<b>LAB 2:</b> Elbow, Forearm, Wrist	<b>TUTORIAL 1</b>	<b>Quiz 2</b>	Open: 11/08  Close: 18/08
4	14/08	UL Neurovasculature, Revision	<b>LAB 3:</b> Hand, UL Neurovasculature	<b>TUTORIAL 2</b>	<b>Quiz 3</b>	Close: 18/08  Close: 25/08
5	21/08	UL Revision	<b>LAB 4:</b> Revision	<b>TUTORIAL 3</b>	<b>Quiz 4</b>	Open: 25/08  Close: 01/09
6	28/08	LL overview, Gluteal Region, Hip, Thigh	PRAC EXAM 1 (15%)	<b>TUTORIAL 4</b>	<b>Quiz 5</b>	Open: 01/09  Close: 08/09

7	04/09	Knee, Leg, Intro to Foot	<b>LAB 5:</b> Gluteal, Hip, Thigh	<i>online activities</i>		
11/09 - 24/09		TWO-WEEK RECESS				
8	25/09	Ankle, Foot	<b>LAB 6:</b> Knee, Leg	<b>TUTORIAL 5</b>	<b>Quiz 6</b>	<i>Open: 29/09</i> <i>Close: 06/10</i>
9	02/10	LL Neurovasculature	<b>LAB 7:</b> Ankle, Foot, LL Neurovasculature	<i>online activities</i>	<b>Quiz 7</b>	<i>Open: 06/10</i> <i>Close: 13/10</i>
10	09/10	Back 1	<b>LAB 8:</b> Back 1, Revision	<b>TUTORIAL 6</b>	<b>Quiz 8</b>	<i>Open: 13/10</i> <i>Close: 20/10</i>
11	17/10	Back 2, Trunk Wall	<b>LAB 9:</b> Back 2, Revision	<b>TUTORIAL 7</b>	<b>Quiz 9</b>	<i>Open: 20/10</i> <i>Close: 27/10</i>
12	23/10	LL & Back Revision, Embryology	PRAC EXAM 2 (20%)	<b>TUTORIAL 8</b>	<b>Quiz 10</b>	<i>Open: 27/10</i> <i>Close: 03/11</i>
13	30/10	<i>online activities – Exam preparation</i>	<i>online activities – Exam preparation</i>	<b>TUTORIAL 9</b>		

**Public Holidays:** 02/10/23 (MON) Labour Day. **Exams:** 06/11-26/11/23. **Supplementary Prac Exams:** conducted **AFTER EXAMINATION PERIOD** or **DURING BREAKS**. Please do not plan your travel until confirming the date for the supplementary; there will be NO online and/or individual sittings.

## 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 [ask.mq.edu.au](http://ask.mq.edu.au) or if you are a Global MBA student contact [globalmba.support@mq.edu.au](mailto: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/>

## The Writing Centre

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

- [Workshops](#)
- [Chat with a WriteWISE peer writing leader](#)
- [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 [AskMQ](#), or contact [Service Connect](#).

## IT Help

For help with University computer systems and technology, visit [http://www.mq.edu.au/about\\_us/offices\\_and\\_units/information\\_technology/help/](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 from Previous Offering

The following changes have been introduced into the unit design:

- updated Unit Learning Outcomes to reflect the content and aims more accurately
- lecture duration decreased from 3h/week to 2h/week
- tutorial duration increased from 1h/week to 1.5h/week
- a new assessment item introduced - Presentation (10%)

A number of logistical issues have been modified following continuous work with student representatives and based on student feedback.

## 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 part of developing professionalism, students are expected to attend all small group interactive sessions including clinical, practical, laboratory, work-integrated learning (e.g., PACE placements), and team-based learning activities. Some learning activities are recorded (e.g., face-to-face lectures), however you are encouraged to avoid relying upon such material as they do not recreate the whole learning experience and technical issues can and do occur. 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.

**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.