



HLTH109

Anatomy of Limbs and Back

S2 Day 2018

Dept of Chiropractic

Contents

<u>General Information</u>	2
<u>Learning Outcomes</u>	2
<u>General Assessment Information</u>	3
<u>Assessment Tasks</u>	4
<u>Delivery and Resources</u>	8
<u>Unit Schedule</u>	9
<u>Policies and Procedures</u>	10
<u>Graduate Capabilities</u>	13

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General Information

Unit convenor and teaching staff

Unit convenor

Goran Strkalj

goran.strkalj@mq.edu.au

Contact via goran.strkalj@mq.edu.au

C5C West, office 350

Mondays, 10.00-11.00 AM

Credit points

3

Prerequisites

HLTH108(P)

Corequisites

Co-badged status

Unit description

This unit builds on the basic anatomy taught in 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 prosected cadavers, 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:

Describe and identify the structural and functional features of the musculoskeletal components of the limbs and back and their anatomical relations.

Describe and identify the arterial supply, venous and lymphatic drainage of the musculoskeletal components of the limbs and back.

Demonstrate, where appropriate, on a living subject: a. musculoskeletal landmarks of the limbs and back b. the route of nerves and blood vessels of the limbs and back c. movements at joints d. muscle actions.

Identify bony landmarks of the limbs and back and identify major structures on selected radiographs, CT and MRI images.

Use acquired knowledge of the anatomy of the limbs and back to investigate clinical case studies.

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

General Assessment Information

Participation

A minimum of 80% attendance and participation at practical classes (laboratory practicals and tutorials) is requested in order to successfully complete this unit. Participation in this unit includes the completion of weekly take home exercises - these will be checked by tutors at the beginning of tutorial 2.

Examination(s)

The University Examination period in for Second Half Year 2018 is from Monday 12 November to Friday 30 November 2018.

You are expected to present yourself for examination at the time and place designated in the University Examination Timetable. The timetable will be available in Draft form approximately eight weeks before the commencement of the examinations and in Final form approximately four weeks before the commencement of the examinations.

The only exception to not sitting an examination at the designated time is because of documented illness or unavoidable disruption. In these circumstances you may wish to consider applying for *Special Consideration*. Information about is available at Policy Central: <http://www.mq.edu.au/policy/>

If a Supplementary Examination is granted as a result of your application, the examination will be scheduled after the conclusion of the official examination period.

You are advised that it is Macquarie University policy not to set early examinations for individuals or groups of students. All students are expected to ensure that they are available until the end of the teaching semester, that is, the final day of the official examination period.

Grades

Achievement of grades will be based on the following criteria:

High Distinction (85-100): provides consistent evidence of deep and critical understanding in relation to the learning outcomes. There is substantial originality and insight in identifying, generating and communicating competing arguments, perspectives or problem solving

approaches; critical evaluation of problems, their solutions and their implications; creativity in application.

Distinction (75-84): provides evidence of integration and evaluation of critical ideas, principles and theories, distinctive insight and ability in applying relevant skills and concepts in relation to learning outcomes. There is demonstration of frequent originality in defining and analysing issues or problems and providing solutions; and the use of means of communication appropriate to the discipline and the audience.

Credit (65-74): provides evidence of learning that goes beyond replication of content knowledge or skills relevant to the learning outcomes. There is demonstration of substantial understanding of fundamental concepts in the field of study and the ability to apply these concepts in a variety of contexts; plus communication of ideas fluently and clearly in terms of the conventions of the discipline.

Pass (50-64): provides sufficient evidence of the achievement of learning outcomes. There is demonstration of understanding and application of fundamental concepts of the field of study; and communication of information and ideas adequately in terms of the conventions of the discipline. The learning attainment is considered satisfactory or adequate or competent or capable in relation to the specified outcomes.

Fail (<50): does not provide evidence of attainment of all learning outcomes.

There is missing or partial or superficial or faulty understanding and application of the fundamental concepts in the field of study; and incomplete, confusing or lacking communication of ideas in ways that give little attention to the conventions of the discipline.

Assessment Tasks

Name	Weighting	Hurdle	Due
Participation	0%	Yes	Weeks 2-13
Quiz 1	4%	No	Week 5
Quiz 2	4%	No	Week 10
Quiz 3	2%	No	week 13
Test 1	20%	No	Week 6
Test 2	30%	No	Week 13
Exam	40%	No	University examination period

Participation

Due: **Weeks 2-13**

Weighting: **0%**

This is a hurdle assessment task (see [assessment policy](#) for more information on hurdle assessment tasks)

Active participation and completion of Take Home Exercises.

On successful completion you will be able to:

- Describe and identify the structural and functional features of the musculoskeletal components of the limbs and back and their anatomical relations.
- Describe and identify the arterial supply, venous and lymphatic drainage of the musculoskeletal components of the limbs and back.
- Demonstrate, where appropriate, on a living subject: a. musculoskeletal landmarks of the limbs and back b. the route of nerves and blood vessels of the limbs and back c. movements at joints d. muscle actions.
- Identify bony landmarks of the limbs and back and identify major structures on selected radiographs, CT and MRI images.
- Use acquired knowledge of the anatomy of the limbs and back to investigate clinical case studies.
- Show an appreciation and respect for those who have bequeathed their bodies to research.

Quiz 1

Due: **Week 5**

Weighting: **4%**

Multiple choice question online quiz focusing on the upper limb; utilising images of cadaveric specimens, bones, x-rays, surface anatomy photographs.

On successful completion you will be able to:

- Describe and identify the structural and functional features of the musculoskeletal components of the limbs and back and their anatomical relations.
- Describe and identify the arterial supply, venous and lymphatic drainage of the musculoskeletal components of the limbs and back.
- Demonstrate, where appropriate, on a living subject: a. musculoskeletal landmarks of the limbs and back b. the route of nerves and blood vessels of the limbs and back c. movements at joints d. muscle actions.
- Identify bony landmarks of the limbs and back and identify major structures on selected radiographs, CT and MRI images.
- Use acquired knowledge of the anatomy of the limbs and back to investigate clinical

case studies.

Quiz 2

Due: **Week 10**

Weighting: **4%**

Multiple choice question online quiz focusing on the lower limb; utilising images of cadaveric specimens, bones, x-rays, surface anatomy photographs.

On successful completion you will be able to:

- Describe and identify the structural and functional features of the musculoskeletal components of the limbs and back and their anatomical relations.
- Describe and identify the arterial supply, venous and lymphatic drainage of the musculoskeletal components of the limbs and back.
- Demonstrate, where appropriate, on a living subject: a. musculoskeletal landmarks of the limbs and back b. the route of nerves and blood vessels of the limbs and back c. movements at joints d. muscle actions.
- Identify bony landmarks of the limbs and back and identify major structures on selected radiographs, CT and MRI images.
- Use acquired knowledge of the anatomy of the limbs and back to investigate clinical case studies.

Quiz 3

Due: **week 13**

Weighting: **2%**

Multiple choice question online quiz focusing on the back; utilising images of cadaveric specimens, bones, x-rays, surface anatomy photographs.

On successful completion you will be able to:

- Describe and identify the structural and functional features of the musculoskeletal components of the limbs and back and their anatomical relations.
- Describe and identify the arterial supply, venous and lymphatic drainage of the musculoskeletal components of the limbs and back.
- Demonstrate, where appropriate, on a living subject: a. musculoskeletal landmarks of the limbs and back b. the route of nerves and blood vessels of the limbs and back c. movements at joints d. muscle actions.
- Identify bony landmarks of the limbs and back and identify major structures on selected radiographs, CT and MRI images.

- Use acquired knowledge of the anatomy of the limbs and back to investigate clinical case studies.

Test 1

Due: **Week 6**

Weighting: **20%**

Spot test in the anatomy laboratory focusing on the upper limb; utilising cadaveric specimens, bones, x-rays, surface anatomy photographs.

On successful completion you will be able to:

- Describe and identify the structural and functional features of the musculoskeletal components of the limbs and back and their anatomical relations.
- Describe and identify the arterial supply, venous and lymphatic drainage of the musculoskeletal components of the limbs and back.
- Demonstrate, where appropriate, on a living subject: a. musculoskeletal landmarks of the limbs and back b. the route of nerves and blood vessels of the limbs and back c. movements at joints d. muscle actions.
- Identify bony landmarks of the limbs and back and identify major structures on selected radiographs, CT and MRI images.
- Use acquired knowledge of the anatomy of the limbs and back to investigate clinical case studies.
- Show an appreciation and respect for those who have bequeathed their bodies to research.

Test 2

Due: **Week 13**

Weighting: **30%**

Spot test in the anatomy laboratory, focusing on the lower limb and back; utilising cadaveric specimens, bones, x-rays, surface anatomy photographs.

On successful completion you will be able to:

- Describe and identify the structural and functional features of the musculoskeletal components of the limbs and back and their anatomical relations.
- Describe and identify the arterial supply, venous and lymphatic drainage of the musculoskeletal components of the limbs and back.
- Demonstrate, where appropriate, on a living subject: a. musculoskeletal landmarks of the limbs and back b. the route of nerves and blood vessels of the limbs and back c.

movements at joints d. muscle actions.

- Identify bony landmarks of the limbs and back and identify major structures on selected radiographs, CT and MRI images.
- Use acquired knowledge of the anatomy of the limbs and back to investigate clinical case studies.
- Show an appreciation and respect for those who have bequeathed their bodies to research.

Exam

Due: **University examination period**

Weighting: **40%**

Theory exam covering the anatomy of the limbs and back. It consist of multiple choice questions, short answer questions and includes clinical cases.

On successful completion you will be able to:

- Describe and identify the structural and functional features of the musculoskeletal components of the limbs and back and their anatomical relations.
- Describe and identify the arterial supply, venous and lymphatic drainage of the musculoskeletal components of the limbs and back.
- Demonstrate, where appropriate, on a living subject: a. musculoskeletal landmarks of the limbs and back b. the route of nerves and blood vessels of the limbs and back c. movements at joints d. muscle actions.
- Identify bony landmarks of the limbs and back and identify major structures on selected radiographs, CT and MRI images.
- Use acquired knowledge of the anatomy of the limbs and back to investigate clinical case studies.

Delivery and Resources

This unit is characterized by a moderate degree of flexibility. It incorporates a variety of learning tools and media. It comprises:

1. 3 x 1 hour lectures per week, weeks 1 - 13
2. 1 x 2 hours laboratory session, weeks 2 - 13
3. 1 x 1 hour tutorials per week, weeks 2 - 13

Prescribed textbooks and learning materials

Textbook:

- Drake RL & Lowrie (2014) *Gray's Anatomy for Students*.3rd ed. Elsevier.

or

- Moore KL, Agur AMR, Dalley AF. (2013) *Clinically Oriented Anatomy* 7th ed. Lippincott Williams & Wilkins. Baltimore.

Laboratory manual:

- HLTH109 Lab Manual – available at Co-op bookshop. Macquarie University Printery.

Atlas:

- Abrahams PH, Boon J, Spratt JD (2009) *McMinn's Clinical Atlas of Human Anatomy*. 6th ed. Mosby/Saunders Elsevier.

Software:

- Anatomy TV - available through the university library.

Unit Schedule

WEEK	LECTURE (Monday)	LECTURE (Tuesday)	LAB PRACTICAL (Tuesday/ Wednesday)	TUTORIAL (Thursday/ Friday)
1 31 July	Introduction to the unit Overview of the upper limb Shoulder	Shoulder	No practicals in week 1	No tutorials in week 1
2 7 August	Arm Elbow	Forearm Wrist	Introduction to laboratory classes Shoulder	Shoulder
3 14 August	Forearm Wrist Hand	Vessels and lymphatics of upper limb	Arm and elbow	Arm and elbow
4 21 August	Nerves of the upper limb Development of the limbs	Revision of the upper limb	Forearm and wrist	Forearm and wrist
5 28 August	Overview of the lower limb Pelvis and hip	Gluteal region	Hand Vessels and nerves of the upper limb	Vessels and nerves of the upper limb

6 4 September	Thigh Thigh	Knee	Test 1	Test 1 (results and discussion)
7 11 September	Leg Ankle	Foot	Hip and thigh	Hip and thigh
MID-SESSION BREAK				
8 3 October	Public holiday	Foot	Knee and leg	Knee and leg
9 9 October	Nerves of the lower limbs Vessels of lower limb	Gait and locomotion	Ankle and foot	Ankle and foot
10 16 October	Revision of the lower limb Overview of the vertebral column Bones	Bones	Vessels and nerves of the lower limb	Vessels and nerves of the lower limb
11 23 October	Joints Muscles of the back	Muscles of the back	Bones and joints	Bones and joints
12 30 October	Trunk wall	Development of the vertebral column	Muscles of the back Trunk wall	Muscles of the back and trunk wall
13 6 November	Posture Revision of the back and trunk	Revision	Test 2	Test 2 (results and discussion)

Policies and Procedures

Macquarie University policies and procedures are accessible from [Policy Central \(https://staff.mq.edu.au/work/strategy-planning-and-governance/university-policies-and-procedures/policy-central\)](https://staff.mq.edu.au/work/strategy-planning-and-governance/university-policies-and-procedures/policy-central). 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](#) (**Note:** *The Special Consideration Policy is effective from 4 December 2017 and replaces the Disruption to Studies Policy.*)

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

If you would like to see all the policies relevant to Learning and Teaching visit [Policy Central](http://staff.mq.edu.au/work/strategy-planning-and-governance/university-policies-and-procedures/policy-central) (<http://staff.mq.edu.au/work/strategy-planning-and-governance/university-policies-and-procedures/policy-central>).

Student Code of Conduct

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

Results

Results shown in *iLearn*, 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.

Special Consideration

Serious and unavoidable disruption: The University classifies a disruption as **serious and unavoidable** if it:

- could not have reasonably been anticipated, avoided or guarded against by the student; and
- was beyond the student's control; and
- caused substantial disruption to the student's capacity for effective study and/or completion of required work; and
- occurred during an event critical study period and was at least three (3) consecutive days duration, and/or
- prevented completion of a final examination.

Students with a pre-existing disability/health condition or prolonged adverse circumstances may be eligible for ongoing assistance and support. Such support is governed by other policies and may be sought and coordinated through [Campus Wellbeing and Support Services](#).

If a supplementary examination is granted as a result of the disruption to studies process the examination will be scheduled after the conclusion of the official examination period. (Individual

Faculties may wish to signal when the Faculty Supplementary exams are normally scheduled.)

If you are granted a supplementary exam via the Special Consideration process, you will have to write a supplementary exam in the supplementary exam period. In this scenario, only your supplementary exam mark will count towards your final exam mark, irrespective of whether or not you attended the final exam in the normal examination period. The submission of a Special Consideration form should not be used as a 'just in case' strategy.

There are no time extensions for the quizzes. Students who miss a practical test or a quiz will be given a supplementary viva voce (oral) practical test.

You are advised that it is Macquarie University policy not to set early examinations for individuals or groups of students. You are expected to ensure that you are available until the end of the teaching semester that is the final day of the official examination period.'

Student Support

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

Learning Skills

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

- [Workshops](#)
- [StudyWise](#)
- [Academic Integrity Module for Students](#)
- [Ask a Learning Adviser](#)

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

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.

Graduate Capabilities

Creative and Innovative

Our graduates will also be capable of creative thinking and of creating knowledge. They will be imaginative and open to experience and capable of innovation at work and in the community. We want them to be engaged in applying their critical, creative thinking.

This graduate capability is supported by:

Learning outcomes

- Demonstrate, where appropriate, on a living subject: a. musculoskeletal landmarks of the limbs and back b. the route of nerves and blood vessels of the limbs and back c. movements at joints d. muscle actions.
- Identify bony landmarks of the limbs and back and identify major structures on selected radiographs, CT and MRI images.
- Use acquired knowledge of the anatomy of the limbs and back to investigate clinical case studies.
- Show an appreciation and respect for those who have bequeathed their bodies to research.

Assessment tasks

- Participation
- Exam

Capable of Professional and Personal Judgement and Initiative

We want our graduates to have emotional intelligence and sound interpersonal skills and to demonstrate discernment and common sense in their professional and personal judgement. They will exercise initiative as needed. They will be capable of risk assessment, and be able to handle ambiguity and complexity, enabling them to be adaptable in diverse and changing environments.

This graduate capability is supported by:

Learning outcomes

- Demonstrate, where appropriate, on a living subject: a. musculoskeletal landmarks of the limbs and back b. the route of nerves and blood vessels of the limbs and back c. movements at joints d. muscle actions.
- Identify bony landmarks of the limbs and back and identify major structures on selected radiographs, CT and MRI images.
- Use acquired knowledge of the anatomy of the limbs and back to investigate clinical

case studies.

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

Assessment tasks

- Participation
- Quiz 1
- Quiz 2
- Quiz 3
- Test 1
- Test 2
- Exam

Commitment to Continuous Learning

Our graduates will have enquiring minds and a literate curiosity which will lead them to pursue knowledge for its own sake. They will continue to pursue learning in their careers and as they participate in the world. They will be capable of reflecting on their experiences and relationships with others and the environment, learning from them, and growing - personally, professionally and socially.

This graduate capability is supported by:

Learning outcomes

- Describe and identify the structural and functional features of the musculoskeletal components of the limbs and back and their anatomical relations.
- Describe and identify the arterial supply, venous and lymphatic drainage of the musculoskeletal components of the limbs and back.
- Demonstrate, where appropriate, on a living subject: a. musculoskeletal landmarks of the limbs and back b. the route of nerves and blood vessels of the limbs and back c. movements at joints d. muscle actions.
- Identify bony landmarks of the limbs and back and identify major structures on selected radiographs, CT and MRI images.
- Use acquired knowledge of the anatomy of the limbs and back to investigate clinical case studies.

Assessment tasks

- Participation
- Quiz 1
- Quiz 2

- Quiz 3
- Test 1
- Test 2
- Exam

Discipline Specific Knowledge and Skills

Our graduates will take with them the intellectual development, depth and breadth of knowledge, scholarly understanding, and specific subject content in their chosen fields to make them competent and confident in their subject or profession. They will be able to demonstrate, where relevant, professional technical competence and meet professional standards. They will be able to articulate the structure of knowledge of their discipline, be able to adapt discipline-specific knowledge to novel situations, and be able to contribute from their discipline to inter-disciplinary solutions to problems.

This graduate capability is supported by:

Learning outcomes

- Describe and identify the structural and functional features of the musculoskeletal components of the limbs and back and their anatomical relations.
- Describe and identify the arterial supply, venous and lymphatic drainage of the musculoskeletal components of the limbs and back.
- Demonstrate, where appropriate, on a living subject: a. musculoskeletal landmarks of the limbs and back b. the route of nerves and blood vessels of the limbs and back c. movements at joints d. muscle actions.
- Identify bony landmarks of the limbs and back and identify major structures on selected radiographs, CT and MRI images.
- Use acquired knowledge of the anatomy of the limbs and back to investigate clinical case studies.
- Show an appreciation and respect for those who have bequeathed their bodies to research.

Assessment tasks

- Participation
- Quiz 1
- Quiz 2
- Quiz 3
- Test 1
- Test 2
- Exam

Critical, Analytical and Integrative Thinking

We want our graduates to be capable of reasoning, questioning and analysing, and to integrate and synthesise learning and knowledge from a range of sources and environments; to be able to critique constraints, assumptions and limitations; to be able to think independently and systemically in relation to scholarly activity, in the workplace, and in the world. We want them to have a level of scientific and information technology literacy.

This graduate capability is supported by:

Learning outcomes

- Describe and identify the structural and functional features of the musculoskeletal components of the limbs and back and their anatomical relations.
- Describe and identify the arterial supply, venous and lymphatic drainage of the musculoskeletal components of the limbs and back.
- Demonstrate, where appropriate, on a living subject: a. musculoskeletal landmarks of the limbs and back b. the route of nerves and blood vessels of the limbs and back c. movements at joints d. muscle actions.
- Identify bony landmarks of the limbs and back and identify major structures on selected radiographs, CT and MRI images.
- Use acquired knowledge of the anatomy of the limbs and back to investigate clinical case studies.

Assessment tasks

- Participation
- Quiz 1
- Quiz 2
- Quiz 3
- Test 1
- Test 2
- Exam

Problem Solving and Research Capability

Our graduates should be capable of researching; of analysing, and interpreting and assessing data and information in various forms; of drawing connections across fields of knowledge; and they should be able to relate their knowledge to complex situations at work or in the world, in order to diagnose and solve problems. We want them to have the confidence to take the initiative in doing so, within an awareness of their own limitations.

This graduate capability is supported by:

Learning outcomes

- Demonstrate, where appropriate, on a living subject: a. musculoskeletal landmarks of the limbs and back b. the route of nerves and blood vessels of the limbs and back c. movements at joints d. muscle actions.
- Identify bony landmarks of the limbs and back and identify major structures on selected radiographs, CT and MRI images.
- Use acquired knowledge of the anatomy of the limbs and back to investigate clinical case studies.

Assessment tasks

- Participation
- Test 1
- Test 2
- Exam

Effective Communication

We want to develop in our students the ability to communicate and convey their views in forms effective with different audiences. We want our graduates to take with them the capability to read, listen, question, gather and evaluate information resources in a variety of formats, assess, write clearly, speak effectively, and to use visual communication and communication technologies as appropriate.

This graduate capability is supported by:

Learning outcomes

- Demonstrate, where appropriate, on a living subject: a. musculoskeletal landmarks of the limbs and back b. the route of nerves and blood vessels of the limbs and back c. movements at joints d. muscle actions.
- Identify bony landmarks of the limbs and back and identify major structures on selected radiographs, CT and MRI images.
- Use acquired knowledge of the anatomy of the limbs and back to investigate clinical case studies.
- Show an appreciation and respect for those who have bequeathed their bodies to research.

Assessment tasks

- Participation
- Quiz 1
- Quiz 2

- Quiz 3
- Test 1
- Test 2
- Exam

Engaged and Ethical Local and Global citizens

As local citizens our graduates will be aware of indigenous perspectives and of the nation's historical context. They will be engaged with the challenges of contemporary society and with knowledge and ideas. We want our graduates to have respect for diversity, to be open-minded, sensitive to others and inclusive, and to be open to other cultures and perspectives: they should have a level of cultural literacy. Our graduates should be aware of disadvantage and social justice, and be willing to participate to help create a wiser and better society.

This graduate capability is supported by:

Learning outcomes

- Use acquired knowledge of the anatomy of the limbs and back to investigate clinical case studies.
- Show an appreciation and respect for those who have bequeathed their bodies to research.

Assessment tasks

- Participation
- Test 1
- Test 2
- Exam

Socially and Environmentally Active and Responsible

We want our graduates to be aware of and have respect for self and others; to be able to work with others as a leader and a team player; to have a sense of connectedness with others and country; and to have a sense of mutual obligation. Our graduates should be informed and active participants in moving society towards sustainability.

This graduate capability is supported by:

Learning outcomes

- Use acquired knowledge of the anatomy of the limbs and back to investigate clinical case studies.
- Show an appreciation and respect for those who have bequeathed their bodies to research.

Assessment tasks

- Participation
- Test 1
- Test 2
- Exam