



ANAT1001

Introduction to Anatomy

Session 1, Weekday attendance, North Ryde 2021

Department of Chiropractic

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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.

Notice

As part of [Phase 3 of our return to campus plan](#), most units will now run tutorials, seminars and other small group activities on campus, and most will keep an online version available to those students unable to return or those who choose to continue their studies online.

To check the availability of face-to-face activities for your unit, please go to [timetable viewer](#). To check detailed information on unit assessments visit your unit's iLearn space or consult your unit convenor.

General Information

Unit convenor and teaching staff

Unit Convener

Dr Stephanie Marhoff-Beard

stephanie.marhoff-beard@mq.edu.au

17 Wally's Walk (west) Room 360

By appointment only

Credit points

10

Prerequisites

Corequisites

Co-badged status

Unit description

This is an introductory unit which presents the basic concepts in gross anatomy, histology and embryology. All systems of the human body are introduced and described at the microscopic and macroscopic levels. The unit also focuses on clinical and surface anatomy. Anatomical models, histology slides and medical imagery are used in the practical sessions.

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: Adopt and be able to use anatomical terminology: define and understand the anatomical position, anatomical planes, sections and directional terms.

ULO2: Describe different levels of structural organisation of the human body.

ULO3: Name and identify the four basic tissues and describe the major characteristics of each.

ULO4: Describe the major developmental events that occur during the embryonic and foetal periods.

ULO5: Describe the microscopic and macroscopic anatomy of all systems of the human body and explain their functions: Integumentary, Skeletal, Muscular, Cardiovascular,

Lymphatic, Nervous, Endocrine, Respiratory, Digestive, Urinary, Reproductive

ULO6: Apply the knowledge of anatomy within clinical contexts.

ULO7: Demonstrate an awareness of the importance of showing appreciation and respect for those who have bequeathed their bodies or parts of to anatomical education.

General Assessment Information

Participation

Participation in practical classes is a hurdle task (see [assessment policy](#) for more information on hurdle assessment tasks).

It is a condition of passing the unit that students must actively participate in a minimum of 80% of the practical classes for the semester. This means you must attend a minimum of at least 10 out of 12 practicals for the semester. Students are expected to present their lab manuals to their tutors at the conclusion of the weekly practical class and will be marked on the completion of the activities.

Please contact the unit convener as soon as possible if you have difficulty attending and participating in any classes throughout the semester. There *may* be alternatives available to make up the work. If there are circumstances that mean you miss a class, you can apply for a Special Consideration. ***If you do not meet the participation requirement, regardless of your accumulative marks, you will be unable to receive a passing grade for this unit.***

Special Consideration

The University is committed to equity and fairness in all aspects of its learning and teaching. It recognises that students may experience events beyond their control that adversely affect their academic performance in assessment activities. Special Consideration applies only to *short-term, serious and unavoidable* circumstances that arise after a study period has commenced, and where specific assessment task/s have been affected. Students are expected to plan their work so that they can meet assessment deadlines at the same time as other obligations which they may have, both inside and outside the University.

Serious and Unavoidable circumstances: the University classifies circumstances as *serious and unavoidable* if they:

- could not have reasonably been anticipated, avoided or guarded against by the student; and
- were beyond the student's control; and
- caused substantial disruption to the student's capacity for undertaking assessment for the unit(s); and
- occurred during an event critical study period and were at least **three (3)** consecutive days duration or a total of 5 days within the teaching period and/or
- prevented completion of an assessment task scheduled for a specific date (e.g. final

examination, in class test/quiz, in class presentation).

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 the Student Disability Support [Policy](#) and may be sought and coordinated through [Campus Wellbeing](#). It is recognised that students with chronic/long-term conditions may experience an acute episode of their condition, and that it may not always be possible for the University to put sufficient arrangements in place to provide a reasonable adjustment at the time of assessment. Such eventualities are covered by this policy.

If you receive [special consideration](#) for the final exam, a supplementary exam will be scheduled in the interval between the regular exam period and the start of the next session. By making a special consideration application for the final exam you are declaring yourself available for a resit during the supplementary examination period and will not be eligible for a second special consideration approval based on pre-existing commitments. Please ensure you are familiar with the [policy](#) prior to submitting an application. You can check the supplementary exam information page on FSE101 in iLearn (bit.ly/FSESupp) for dates, and approved applicants will receive an individual notification one week prior to the exam with the exact date and time of their supplementary examination.

Fit to Sit Model

Macquarie University operates under a 'Fit to Sit' model. This means that, in sitting an examination and/or in-class test or otherwise submitting an assessment, a student is declaring that they are fit to do so. It is the responsibility of the student to determine whether they are fit to sit an examination or test, or otherwise submit an assessment. Therefore, if a student is feeling unfit to sit the examination or test, or otherwise submit the assessment, they should not do so.

Nonetheless, a student may submit an application for Special Consideration if they can demonstrate that:

- they were unfit to make reasonable judgement on their fitness to undertake the assessment, due to mental illness or other exceptional circumstances, or
- they were taken ill during the assessment (in the case of an examination or test), and this can be independently corroborated.

In cases where a student is taken ill during an examination/class test, the student must advise the examination supervisor, who will record the case on the Examination Room Report Form.

Assessment Tasks

Name	Weighting	Hurdle	Due
Practical test 1	20%	No	Week 7

Name	Weighting	Hurdle	Due
Practical Test 2	20%	No	Week 13
Final Theory Exam	40%	No	Official University Examination Period
Online Quizzes	20%	No	Weeks 2, 4, 6, 8, 10, 12

Practical test 1

Assessment Type ¹: Examination

Indicative Time on Task ²: 10 hours

Due: **Week 7**

Weighting: **20%**

Practical test (related to models and histology slides used during the practicals and tutorials).
Test one will cover weeks 1-6.

On successful completion you will be able to:

- Adopt and be able to use anatomical terminology: define and understand the anatomical position, anatomical planes, sections and directional terms.
- Describe different levels of structural organisation of the human body.
- Name and identify the four basic tissues and describe the major characteristics of each.
- Describe the major developmental events that occur during the embryonic and foetal periods.
- Describe the microscopic and macroscopic anatomy of all systems of the human body and explain their functions: Integumentary, Skeletal, Muscular, Cardiovascular, Lymphatic, Nervous, Endocrine, Respiratory, Digestive, Urinary, Reproductive

Practical Test 2

Assessment Type ¹: Examination

Indicative Time on Task ²: 10 hours

Due: **Week 13**

Weighting: **20%**

Practical test (related to models and histology slides used during the practicals and tutorials).
Test two will cover weeks 7-12.

On successful completion you will be able to:

- Adopt and be able to use anatomical terminology: define and understand the anatomical position, anatomical planes, sections and directional terms.
- Describe different levels of structural organisation of the human body.
- Name and identify the four basic tissues and describe the major characteristics of each.
- Describe the major developmental events that occur during the embryonic and foetal periods.
- Describe the microscopic and macroscopic anatomy of all systems of the human body and explain their functions: Integumentary, Skeletal, Muscular, Cardiovascular, Lymphatic, Nervous, Endocrine, Respiratory, Digestive, Urinary, Reproductive

Final Theory Exam

Assessment Type ¹: Examination

Indicative Time on Task ²: 25 hours

Due: **Official University Examination Period**

Weighting: **40%**

This will cover the content of the entire semester. Questions will include multiple choice questions, short answer questions, short answer questions and annotate the diagram questions. The final exam covers weeks 1-13.

On successful completion you will be able to:

- Adopt and be able to use anatomical terminology: define and understand the anatomical position, anatomical planes, sections and directional terms.
- Describe different levels of structural organisation of the human body.
- Name and identify the four basic tissues and describe the major characteristics of each.
- Describe the major developmental events that occur during the embryonic and foetal periods.
- Describe the microscopic and macroscopic anatomy of all systems of the human body and explain their functions: Integumentary, Skeletal, Muscular, Cardiovascular, Lymphatic, Nervous, Endocrine, Respiratory, Digestive, Urinary, Reproductive
- Apply the knowledge of anatomy within clinical contexts.
- Demonstrate an awareness of the importance of showing appreciation and respect for those who have bequeathed their bodies or parts of to anatomical education.

Online Quizzes

Assessment Type ¹: Quiz/Test

Indicative Time on Task ²: 4 hours

Due: **Weeks 2, 4, 6, 8, 10, 12**

Weighting: **20%**

Six online quizzes completed fortnightly. Questions are based on the previous weeks lecture topics.

On successful completion you will be able to:

- Adopt and be able to use anatomical terminology: define and understand the anatomical position, anatomical planes, sections and directional terms.
- Describe different levels of structural organisation of the human body.
- Name and identify the four basic tissues and describe the major characteristics of each.
- Describe the major developmental events that occur during the embryonic and foetal periods.
- Describe the microscopic and macroscopic anatomy of all systems of the human body and explain their functions: Integumentary, Skeletal, Muscular, Cardiovascular, Lymphatic, Nervous, Endocrine, Respiratory, Digestive, Urinary, Reproductive
- Apply the knowledge of anatomy within clinical contexts.

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 is characterized by a moderate degree of flexibility. It incorporates a variety of learning tools and media. It will comprise:

1. One 1-hour and one 2-hour lecture per week (3-hours total), weeks 1-13. Lectures will be delivered via Zoom, there are no face-to-face lectures, and these can be viewed on the unit iLearn page.

2. One 1-hour tutorial fortnightly during weeks 2, 4, 6, 8, 10, 12 in university classrooms; you will have the opportunity to have discussions with your tutor and peers on the key concepts covered during the previous two weeks of content.

3. One 2-hour laboratory practical per week 1-13 (except where indicated) in the anatomy laboratories; histology slides and anatomy models will be used.

Participation in practical classes is a **hurdle requirement** for this unit. It is a condition of passing the unit that students must actively participate in a minimum of 80% of the practical classes for the semester. Students are expected to present their lab manuals to their tutors at the conclusion of the weekly practical class and will be marked on the completion of the activities. ***If you do not meet the participation requirement, regardless of your accumulative marks, you will be unable to receive a passing grade for this unit.***

Students must attend the classes (tutorials and lab practicals) in which they enrolled. They may not exchange their class time. In special circumstances, students may apply (with the appropriate documentation) in writing to the unit convener, for requests regarding changes. These requests are to be submitted to the unit convenor.

Unit Schedule

WEEK	LECTURE (Monday)	LECTURE (Tuesday)	TUTORIAL (Mon/Tues)	LABORATORY PRACTICAL (Wed/Thurs/Fri)
1 22 February	Introduction Terminology and orientation	Cells Basic tissue Epithelium		Cell Biology and epithelium (No on campus practical, complete practical 1 at home)
2 1 March	Connective tissue	Axial and appendicular skeleton	Terminology and orientation, cell biology and connective tissue	Bones Connective tissue (QUIZ 1)
3 8 March	Joints	Bone tissue Muscle tissue		Joints Specialised connective tissue
4 15 March	Embryology	Skeletal muscles	Bones, joints and Embryology	Skeletal muscles Muscle tissue (QUIZ 2)
5 22 March	Skin	Cardiovascular system		Blood vessels (histology and anatomy) Heart
6 29 March	Blood	No lecture	Muscles and Skin	Revision (QUIZ 3)

5-16 April	SEMESTER 1 BREAK			
7 19 April	Lymphatics	Nervous tissue Brain (Part 1)		Practical Test 1
8 26 April	Brain (part 2) Cranial nerves	Spinal cord Spinal nerves Autonomic nervous system	Blood, blood vessels, lymphatics and nervous system	Nervous system histology and anatomy (QUIZ 4)
9 3 May	Endocrine system	Respiratory system		Respiratory system histology and anatomy
10 10 May	Digestive system 1	Digestive system 2	Endocrine system and respiratory system	Digestive system histology and anatomy (QUIZ 5)
11 17 May	Special senses	Urinary system		Digestive system histology Urinary system anatomy
24 May	Somatic senses and motor control	Reproductive system	Digestive system, reproductive system and special senses	Urinary histology Reproductive system histology and anatomy (QUIZ 6)
13 31 May	Surface anatomy	Revision		Practical Test 2

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://students.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.

Unit information based on version 2021.02 of the [Handbook](#)