



# ANAT1001

## Introduction to Anatomy

Session 1, In person-scheduled-weekday, North Ryde 2022

*Department 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>	7
<u>Unit Schedule</u>	8
<u>Policies and Procedures</u>	9
<u>Changes since First Published</u>	11

#### **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.

## General Information

Unit convenor and teaching staff

Unit Convener

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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

### 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](http://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
<a href="#">Online Quizzes</a>	20%	No	Weeks 2, 4, 6, 8, 10, 12
<a href="#">Practical test 1</a>	20%	No	Week 7
<a href="#">Practical Test 2</a>	20%	No	Week 13
<a href="#">Final Theory Exam</a>	40%	No	Official University Examination Period

### Online Quizzes

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

Indicative Time on Task <sup>2</sup>: 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.

## Practical test 1

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

Indicative Time on Task <sup>2</sup>: 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 <sup>1</sup>: Examination

Indicative Time on Task <sup>2</sup>: 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 <sup>1</sup>: Examination

Indicative Time on Task <sup>2</sup>: 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.

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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

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.

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.

### Prescribed Textbook

McKinley M, O'Loughlin V and Bidle T. 2021. **Anatomy and Physiology: An Integrative Approach**. 4th ed. McGraw Hill.

## Unit Schedule

WEEK	LECTURE (Monday; 1 hr)	LECTURE (Tuesday; 2 hr)	TUTORIAL (Fortnightly: Mon/Tues)	LABORATORY PRACTICAL (Weekly: Wed/Thurs/Fri)		ONLINE QUIZ
				Gross Anatomy	Histology	
1 21 February	Introduction Terminology and orientation	Cells Basic tissue Epithelium		Cell Biology and epithelium  (No on campus practical this week, complete practical 1 at home)		
2 28 February	Connective tissue	Skeletal system	Terminology and orientation, cell biology and connective tissue	Bones	Connective tissue	(QUIZ 1)
3 7 March	Joints	Bone tissue Muscle tissue		Joints	Specialised connective tissue	
4 14 March	Embryology	Skeletal muscles	Bones, joints and Embryology	Skeletal muscles	Muscle tissue	(QUIZ 2)
5 21 March	Skin	Cardiovascular system		Heart and blood vessels	Heart and blood vessels	
6 28 March	Blood	Nervous tissue Brain (Part 1)	Muscles and Skin	Revision	Revision	(QUIZ 3)
7 4 April	Lymphatics	Revision		Practical Test 1		
11-25 April	SEMESTER 1 BREAK					
8 25 April	Brain (part 2)  <i>Online lecture due to p/h</i>	Autonomic nervous system	Blood, blood vessels, lymphatics and nervous system	Nervous system	Nervous system	(QUIZ 4)
9 2 May	Endocrine system	Respiratory system		Respiratory system	Respiratory system	
10 9 May	Digestive system 1	Digestive system 2	Endocrine system and respiratory system	Digestive system	Digestive system	(QUIZ 5)



11 16 May	Special senses	Urinary system		Urinary system anatomy	Digestive system histology	
12 23 May	Somatic senses and motor control	Reproductive system	Digestive system, reproductive system and special senses	Reproductive system anatomy	Urinary and reproductive histology	(QUIZ 6)
13 30 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](#)
- [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](https://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 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 since First Published

Date	Description
09/05/2022	The requirement of 80% attendance to achieve a passing grade in UNIT ANAT1001 has been removed. The UNIT GUIDE has been amendment in the following way: This statement has been removed: "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." To be replaced with: "Participation in practical and tutorial classes is highly encouraged for optimal performance in the unit as all scheduled activities are aligned with the unit learning outcomes of the unit. A minimum of 80% tutorial and practical attendance is RECOMMENDED in order to gain sufficient knowledge in this unit." The removal of the 80% attendance requirement means that you DO NOT need to submit a Special Consideration if you will miss a practical or tutorial class (e.g. due to poor health) on that day. Note: if you are unable to attend an assessment task, you are still required to submit a Special Consideration for that assessment.