

ANAT2111

Introductory Anatomy

Course Outline
Term 1, 2023

School of Biomedical Sciences
Faculty of Medicine & Health

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1. Staff

Position	Name	Email	Consultation times and locations
Course Convenor	Dr Christina Byun	christina.byun@unsw.edu.au	Arranged via email
Co-convenor	Patrick Chau	patrick.chau@unsw.edu.au	Arranged via email
Co-convenor	Dr Cristian Leyton Moscoso	c.leyton_moscoso@unsw.edu.au	Arranged via email

If you would like an appointment with any of the teaching staff, please arrange this **via email**. If you have a general question relating to the course content, please post on the discussion forum or send to the course email address: introanatomy@unsw.edu.au.

2. Course information

Units of credit: 6

Pre-requisite(s): A pass in BABS1201 or DPST1051 plus either a pass in ANAT2241 or BABS1202 or DPST1052 or BABS2202 or BABS2204 or BIOC2201 or BIOC2291 or BIOS1101 or HESC1501 or PHSL2101 or PHSL2121 or VISN1101

Teaching times and locations: <https://timetable.unsw.edu.au/2023/ANAT2111.html>

2.1 Course summary

This course provides an introduction to the topographical anatomy of the whole human body, based on the study of prosected human specimens. Topics for study include: general topographical and descriptive anatomy, and the musculoskeletal, nervous, special sensory organ, cardiovascular, respiratory, digestive, urinary, and reproductive systems.

This course is designed for students who require the broad study of human anatomy, as well as those who wish to proceed to Level III (advanced) studies or a major in Anatomy.

2.2 Course aims

This course aims to provide students with an understanding of the structure and organisation of the human body as it relates to function.

2.3 Course learning outcomes (CLO)

At the successful completion of this course you (the student) should be able to:

1. Demonstrate an understanding of the ethical considerations, and good practice of, working with human cadaveric tissue.
2. Demonstrate understanding by applying the appropriate use of anatomical terminology of body planes, relations, movement, and cavities.
3. Relate and integrate the following body systems and their components: musculoskeletal, nervous, special sensory organ, cardiovascular, respiratory, digestive, urinary, and reproductive systems.
4. Examine and explain the inter-dependence of body systems.

2.4 Relationship between course and program learning outcomes and assessments

Course Learning Outcome (CLO)	LO Statement	Related Tasks & Assessment
CLO 1	Demonstrate an understanding of the ethical considerations, and good practice of, working with human cadaveric tissue.	Continuous Assessment
CLO 2	Demonstrate understanding by applying the appropriate use of anatomical terminology of body planes, relations, movement, and cavities.	Continuous Assessment Mid-Term Spot Test End-Term Spot Test Final Theory Exam
CLO 3	Relate and integrate the following body systems and their components: musculoskeletal, nervous, special sensory organ, cardiovascular, respiratory, digestive, urinary, and reproductive systems.	Continuous Assessment Mid-Term Spot Test End-Term Spot Test Final Theory Exam
CLO 4	Examine and explain the inter-dependence of body systems.	Continuous Assessment Mid-Term Spot Test End-Term Spot Test Final Theory Exam

3. Strategies and approaches to learning

3.1 Learning and teaching activities

Lectures – Students are required to attend the live lecture via Teams. Attending the live lecture (or watching the recorded lecture in cases of public holidays) is critical to prepare for the weekly laboratory/practical sessions. The lectures aim to present essential concepts and theoretical details on specific topics throughout the course.

Laboratory/practical sessions – The purpose of weekly face-to-face laboratory/practical sessions is to give students first-hand experience of the content covered and studied in the course. During the 3-hour sessions, students are involved in active learning to identify the anatomical structures, making connections of their features and relations, and to discuss the concepts relevant to the topics studied. The Anatomy Laboratory is a privileged space provided to students learning anatomy, where students are allowed to explore prosected (professionally dissected) specimens, as well as human bones, models, plastinated specimens and cross-sectional slices. Students will be led to work in small groups, guided by teaching staff, to consolidate their knowledge using problem-solving approaches.

Self-directed learning activities – The purpose of weekly self-directed activities is to help students revise the content covered and studied in the course by engaging in various online learning materials. During these activities, students will review and check their understanding of the anatomical structures and the relevant concepts. The **revision quiz** is a formative (non-graded) assessment designed to be interactive and helpful for revising the weekly content. All self-directed learning activities aim to assist students independently assess their performance.

Question forum – Students are encouraged to use the online discussion forum (Moodle and/or Teams) for questions and discussions related to the course content. The discussion forum is a place for students to submit questions and interact with their peers by answering and commenting on queries of other students. Teaching staff will also engage with and respond to questions in the forum.

Independent study – There is insufficient time in the lectures and practicals for you to develop a deep understanding of the concepts covered in this course. To achieve the learning outcomes that will be assessed, students will need to revise the material presented in the course regularly and do additional reading beyond the lecture materials to learn effectively. Relevant additional resources, including textbook chapters, will be cited in lecture and practical sessions.

3.2 Expectations of students

UNSW recommends that a 6 units-of-credit course should involve about 150 hours of study and learning activities. The formal learning activities total approximately 60 hours throughout the term and students are expected (and strongly recommended) to do at least the same number of hours of additional study.

The formal scheduled learning activities include:

- 2-hour lecture
- 3-hour laboratory/practical class
- 1 hour of self-directed activities – short videos, online activities, and revision quiz

Student attendance at lectures and laboratory sessions, reviewing of self-directed online activities, and completion of assessments are highly important and recommended. No 'make-up' sessions will be provided for any missed activities. **Before attending the first week laboratory/practical session, students MUST complete the 'Week 0' compulsory module available in the course Moodle site.**

4. Course schedule and structure

This course consists of 60 hours of class contact hours. You are expected to take an additional 60 hours of non-class contact hours to complete assessments, readings and exam preparation.

The course timetable is included below. Any changes to the timetable will be communicated via the course Moodle and Teams.





Please note that the course integrates the use of Moodle and MS Teams. It is suggested that students download the MS Teams app available via UNSW IT before the course commences.

The weekly format is as follows:

1. **Lectures*** – Monday 10am-12pm. These will be delivered via Teams and will be recorded.
2. **Laboratory/practical sessions**** – Tuesday 10am-1pm OR Tuesday 2pm-5pm. Students will attend ONE of the lab sessions in-person in Anatomy Lab 07 (Level 1, D26).
3. **Continuous assessment** – During the weekly lab sessions, students will complete a short assessment task. Students have ONE attempt at this assessment.
4. **Self-directed activities** – available via Moodle and completed at any time during the week.
5. **Revision quiz** – available via Moodle and completed at any time during the week.
6. **Exam (Spot Test)** – Wednesday 4pm-6pm in week 5 and 10 only.

***While it is expected that the lectures will be recorded, please note that this cannot be guaranteed.** It is strongly recommended that students attend all lectures as they form the basis for the practical content for the week, and the continuous assessment.

****Please note that lab coat, enclosed shoes, safety glasses and face mask are required for ALL laboratory/practical sessions.**

	LECTURE	LAB	CONTINUOUS ASSESSMENT	SELF DIRECTED ACTIVITIES	REVISION QUIZ	EXAM
DATE & TIME	Monday 10am-12pm	Tuesday 10am-1pm or 2pm-5pm	Tuesday 10am-1pm or 2pm-5pm	Self paced each week	Self paced each week	Wednesday 4pm-6pm
MODE OF DELIVERY	ONLINE 	IN PERSON Anat Lab 07, Level 1, Biological Sciences, D26	IN PERSON Anat Lab 07, Level 1, Biological Sciences, D26	ONLINE 	ONLINE 	ONLINE 
W0	06/02 - 10/02	Please COMPLETE Week 0 Compulsory Module on Moodle BEFORE Week 1				
W1	13/02 - 17/02	Introduction to Anatomy Musculoskeletal System 1	Introduction to Anatomy Musculoskeletal System 1	Quiz 1	Introduction to Anatomy Musculoskeletal System 1	Introduction to Anatomy Musculoskeletal System 1
W2	20/02 - 24/02	Musculoskeletal System 2 & Joints	Musculoskeletal System 2 & Joints	Quiz 2	Musculoskeletal System 2 & Joints	Musculoskeletal System 2 & Joints
W3	28/02 - 03/03	CNS	CNS	Quiz 3	CNS	Brain & Spinal Cord
W4	06/03 - 10/03	PNS & ANS	PNS & ANS	Quiz 4	PNS & ANS	PNS & ANS
W5	13/03 - 17/03	Cardiovascular System	Cardiovascular System	Quiz 5	Cardiovascular System	Cardiovascular System
W6	20/03 - 24/03	FLEXI WEEK				
W7	27/03 - 31/03	Respiratory System	Respiratory System	Quiz 6	Respiratory System	Respiratory System
W8	03/04 - 07/04	Digestive System	Digestive System	Quiz 7	Digestive System	Digestive System
W9	10/04 - 14/04	Urinary & Reproductive Systems PUBLIC HOLIDAY	Urinary & Reproductive System	Quiz 8	Urinary & Reproductive System	Urinary & Reproductive Systems
W10	17/04 - 21/04	Special Senses	Special Senses	Quiz 9	Special Senses	Ear & Eye
	22/04 - 27/04	STUDY PERIOD				
	28/04 - 11/05	FINAL EXAM PERIOD				
	22/05 - 26/05	SUPPLEMENTARY EXAM PERIOD				

5. Assessment

5.1 Assessment tasks

Assessment task	Length	Weight	Due date and time
Assessment 1: Continuous Assessment	short online quiz	30%	Weeks 1-5, 7-10 Tuesday 10am-1pm OR 2-5pm
Assessment 2: Mid-Term Spot Test	50 mins	20%	Week 5 Wednesday 4-6pm
Assessment 3: End-Term Spot Test	50 mins	20%	Week 10 Wednesday 4-6pm
Assessment 4: Final Theory Exam	2 hours + 15 mins reading time	30%	Exam period

Further information

UNSW grading system: <https://student.unsw.edu.au/grades>

UNSW assessment policy: <https://student.unsw.edu.au/assessment>

5.2 Assessment criteria and standards

Continuous Assessment

These comprise of online activities that encompass both the identification of structures as well as theoretical concepts and ethical considerations. Students will complete this assessment during the weekly laboratory/practical sessions. Students have ONE attempt at this assessment. The 6 highest scoring assessment marks will be used to calculate the final grade. No supplementary continuous assessment will be provided.

Mid-Term Spot Test and End-Term Spot Test

These are online assessments that cover content delivered in each half of the term. These assessments encompass both the identification of structures as well as theoretical concepts.

Final Theory Exam

A single 2-hour written exam will be held during the formal examination period. It assesses student knowledge of the course content and deeper learning (such as the ability to make connections between ideas or to assess capacity for problem-solving). The written exam comprises of multiple-choice and short/long answer questions and will test knowledge obtained from lectures and laboratories.

Access to previous exam papers

Past exam papers are not available to students. Sample questions are provided via Moodle.

5.3 Submission of assessment tasks

Late Submission

UNSW has standard late submission penalties as outlined in the UNSW Assessment Implementation Procedure, with no permitted variation. All late assignments (unless extension or exemption previously agreed) will be penalised by 5% of the maximum mark per day (including Saturday, Sunday and public holidays). For example, if an assessment task is worth 30 marks, then 1.5 marks will be lost per day (5% of 30) for each day it is late. So, if the grade earned is 24/30 and the task is two days late the student receives a grade of 24 – 3 marks = 21 marks.

Late submissions will be penalized at 5% per day capped at five days (120 hours). Students will not be permitted to submit their assessments after this date.

Special Consideration

If you experience a short-term event beyond your control (exceptional circumstances) that impacts your performance in a particular assessment task, you can apply for Special Considerations.

You must apply for Special Consideration **before** the start of your exam or due date for your assessment, except where your circumstances of illness or misadventure stop you from doing so.

If your circumstances stop you from applying before your exam or assessment due date, you must **apply within 3 working days** of the assessment, or the period covered by your supporting documentation.

More information can be found on the [Special Consideration website](#).

Educational Adjustments

Students who have a condition that requires some adjustment in their teaching or learning environment are encouraged to discuss their study needs with an Advisor in the Equitable Learning Services (<https://student.unsw.edu.au/els>). **Students that have been granted an Equitable Learning Plan (ELP) should email this to the Course Convenors as soon as possible in the term.**

5.4 Feedback on assessment

Feedback on Continuous Assessment will be provided at the end of their laboratory/practical sessions. Feedback on Mid-Term and End-Term assessments will be provided shortly after the release of the grades.

6. Academic integrity, referencing and plagiarism

Referencing is a way of acknowledging the sources of information that you use to research your assignments. You need to provide a reference whenever you draw on someone else's words, ideas or research. Not referencing other people's work can constitute plagiarism. Further information about referencing styles can be located at <https://student.unsw.edu.au/referencing>

Academic integrity is fundamental to success at university. Academic integrity can be defined as a commitment to six fundamental values in academic pursuits: honesty, trust, fairness, respect, responsibility and courage.¹ At UNSW, this means that your work must be your own, and others' ideas should be appropriately acknowledged. If you don't follow these rules, plagiarism may be detected in your work.

Further information about academic integrity and **plagiarism** can be located at:

- The Current Students site <https://student.unsw.edu.au/plagiarism>, and
- The ELISE training site <http://subjectguides.library.unsw.edu.au/elise/presentation>

The Conduct and Integrity Unit provides further resources to assist you to understand your conduct obligations as a student: <https://student.unsw.edu.au/conduct>.

7. Readings and resources

Prescribed Text

Marieb EN, Wilhelm PB & Mallat J (2019). *Human Anatomy, Global Edition, 9th ed.*, Pearson.

Atlas

Logan BM (2016). *Logan's Illustrated Human Anatomy, 1st ed.*, CRC press.

Other books that are useful and may be used as texts instead (available in the library)

Drake, R. et al. (2019). *Gray's Anatomy for Students, 4th ed.*, Churchill Livingstone. (ONLINE)

Moore, K. & Dalley, A. (2018). *Clinically Oriented Anatomy, 8th ed.* Wolters Kluwer.

Tortora, G.J. & Derrickson B.H. (2018). *Tortora's Introduction to the Human Body, 11th ed.* John Wiley & Sons Australia Ltd.

Snell, R. (2012). *Clinical Anatomy by Systems, 9th ed.*, Lippincott, Williams and Wilkins.

Rohen, J., Yokochi, C. & Lütjen-Drecoll, E. (2006). *Color Atlas of Anatomy: A Photographic Study of the Human Body, 6th ed.* Lippincott, Williams and Wilkins.

Please see the course Moodle page for links to other **online resources** available.

Revision Facilities

The Anatomy Museum (G09) is located on the ground floor of the Wallace Wurth East. The museum contains a variety of bottled anatomical dissections. Please do not remove the museum jars from the shelves. Access to the museum is by swipe card and is restricted to anatomy students only, between 8:30am-5:30pm Monday to Friday. NO photography is allowed in the Anatomy Museum.

¹ International Center for Academic Integrity, 'The Fundamental Values of Academic Integrity', T. Fishman (ed), Clemson University, 2013.

8. Administrative matters

Student enquiries should be submitted via student portal <https://portal.insight.unsw.edu.au/web-forms/>

Two student representatives will represent the students in this course on the Department Student-Staff Liaison Committee. These representatives are expected to liaise with Course Convenors and student cohort, and to meet department committees as required (usually 2 times per term). During these meetings, representatives will have the opportunity to report on any feedback relating to the course that has been gathered from peers. Being a student representative gives you the opportunity to provide a voice for your student cohort, demonstrate your leadership, and is a role that can be listed on your CV.

9. Additional support for students

- The Current Students Gateway: <https://student.unsw.edu.au/>
- Academic Skills and Support: <https://student.unsw.edu.au/academic-skills>
- Student Wellbeing and Health: <https://www.student.unsw.edu.au/wellbeing>
- UNSW IT Service Centre: <https://www.myit.unsw.edu.au/services/students>
- UNSW Student Life Hub: <https://student.unsw.edu.au/hub#main-content>
- Student Support and Development: <https://student.unsw.edu.au/support>
- IT, eLearning and Apps: <https://student.unsw.edu.au/elearning>
- Student Support and Success Advisors: <https://student.unsw.edu.au/advisors>
- Equitable Learning Services (Formerly Disability Support Unit): <https://student.unsw.edu.au/els>
- Transitioning to Online Learning <https://www.covid19studyonline.unsw.edu.au/>
- Guide to Online Study <https://student.unsw.edu.au/online-study>

10. Ethical behaviour and human remains







In this course, you will be required to study human anatomical specimens. Each year, people donate their bodies to UNSW via a Bequeathal Program so that you and your colleagues can learn about the human body. The donations are provided through the extraordinary generosity of the donors and their families and is a special privilege. Treating these remains with the utmost care and respect is mandatory, and our responsibility. This is mandated by NSW Law, and a good ethical practice. The University operates the Bequeathal Program under the Code of Practice noted below, which all students are required to adhere to.

Code of Practice:

The University recognises the magnitude of the contribution made by those who donate their bodies for the teaching of anatomy, and it is committed to treating the human remains entrusted to its care with the utmost respect and professionalism. In keeping with this commitment, the University requires its employees and students to uphold all legal, public health, and ethical standards associated with the handling of bodies and human tissue samples. Any activity which undermines its ability to meet UNSW's legislative obligations, or which devalues the contribution made by those who donate their bodies for the purposes of the teaching of anatomy to students will be in breach of this policy and subject to further action.

For those engaging in the online space (learning and teaching), the University considers that the Code of Practice remains relevant. The use of images of anatomical specimens should follow principles consistent with the *Anatomy Act 1977* and/or *Human Tissue Act 1983*. When images are used online, these should never be identifiable, caricatured and shared for any purpose other than educational; and should not be published on social media platforms.

11. Student risk assessments

Medicine and Science Teaching Laboratory				Anatomy Practical Classes for Medical and Science Students	
Student Risk Assessment				D26 Ian Jacobs Building L1 LAB08A/07	
Hazards	Risks	Controls			
Chemical Formaldehyde Methylated spirits 2-phenoxyethanol Physical Cold temperature Heavy and sharp models (e.g. bone/plastic) Biological Fungi Bacteria (tetanus) Hepatitis B and C	Corrosive Flammable Irritant Cold Penetrating wound or foot injury Infection	<ul style="list-style-type: none"> • Low concentrations of chemicals used • Adequate air changes and ventilation provided • Safety Data Sheets for chemicals available • Always wear a laboratory coat • Wear enclosed shoes with full coverage of dorsum of foot • Wear protective eyewear • Ensure appropriate immunisation is current • Wear a face mask (if required) • Wear disposable gloves when handling wet specimens and do not cross-contaminate models or bones with wet specimens • Do not bring in any food or drinks • Do not place anything into your mouth (e.g. pen) • Use disinfectant provided for cleaning models and surfaces • Use hand sanitisers provided regularly • Wash hands with soap and dry thoroughly before leaving 			
Personal Protective Equipment (required)					
 Lab. Coat		 Closed in footwear		 Safety Glasses	
		 Gloves		 Mask	
Emergency Procedures					
<p>In the event of an alarm, follow the instructions of the academic in charge. The initial sound (beep) is advising you to prepare for evacuation. During this time pack up your personal belongings. The second sound (whoop) gives instruction to leave. The assembly point is on the lawn in front of the Chancellery. In the event of an injury inform the academic in charge (and/or lab staff). First aider and fire warden contact details are on display by the lifts on the floor and in each room. There are portable First Aid Kits located in LAB08A and LAB07.</p>					
Clean up and waste disposal					
<ul style="list-style-type: none"> • Cover wet specimens with the towels provided. Make sure that towels do not hang over the edge of the table as this may result in fluid dripping onto the floor. Fluids on the floor are a major safety hazard and should be reported to lab staff immediately. • Replace stools under the tables (if applicable). • Remove your gloves and dispose in the biowaste bins provided. • Wash your hands thoroughly with soap and dry with paper towels provided. • Remove your laboratory coat as you leave the room. 					
Ethics Approval					
<p>This type of practical has been previously considered and approved by the UNSW Human Research Ethics Advisory Panel (HC180115).</p>					
Declaration					
<p>I have read and understand the safety requirements for this practical class, and I will observe these requirements.</p>					
Signature:.....		Date:.....			
Student number:					

ANAT-SRA-Med&SciStudent relates to RA-MED-06. Date for review: 01/02/2024

Hazards	Risks	Controls
<p>Chemical Formaldehyde Methylated spirits 2-phenoxyethanol</p> <p>Physical Cold temperature Heavy and sharp models (e.g. bone/plastic) Sharp tools</p> <p>Biological Fungi Bacteria (tetanus) Hepatitis B and C</p>	<p>Corrosive Flammable Irritant</p> <p>Cold Penetrating wound Foot injury</p> <p>Infection</p>	<ul style="list-style-type: none"> Low concentrations of chemicals used Adequate air changes and ventilation are provided Safety Data Sheets for chemicals available Always wear a laboratory coat (over warm clothing as required) Wear a long-sleeved surgical gown when working with fresh tissue and embalming Wear enclosed shoes with full coverage of dorsum of foot Wear protective eyewear Use QlickSmart blade removal unit to remove scalpel blades Ensure appropriate immunisation is current Wear a face mask (if required) Wear disposable gloves when handling wet specimens and do not cross-contaminate models or bones with wet specimens Do not bring in any food or drinks Do not place anything into your mouth (e.g. pen) Use disinfectant provided for cleaning models and surfaces Use hand sanitisers provided regularly Wash hands with soap and dry thoroughly before leaving

Personal Protective Equipment (required)

				
Lab. Coat	Closed in footwear	Safety Glasses	Gloves	Mask

Emergency Procedures

In the event of an alarm, follow the instructions of the academic in charge. The initial sound (beep) is advising you to prepare for evacuation. During this time pack up your personal belongings. The second sound (whoop) gives instruction to leave. Follow the instructions of the academic in charge and/or the fire warden to the assembly point. In the event of an injury inform the academic in charge (and/or lab staff). First aider and fire warden contact details are on display near the entrance/exit doors. There is a wall mounted First Aid Kit located near the entrance/exit doors.

Clean up and waste disposal

- Refer to SWP-MED-MED-00093: GASU - Dissecting embalmed cadaveric material.
- Refer to SWP-MED-MED-00094: GASU - Recording and tracking dissection and waste.
- Fluids on the floor are a major safety hazard and should be reported to staff immediately.
- Replace stools under the tables (if applicable).
- Remove your gloves and dispose in the biowaste bins provided.
- Wash your hands thoroughly with soap and dry with paper towels provided.
- Remove your laboratory coat or gown as you leave the room.

Ethics Approval

This type of practical has been previously considered and approved by the UNSW Human Research Ethics Advisory Panel (HC180115).

Declaration

I have read and understand the safety requirements for this practical class, and I will observe these requirements.

Signature:..... Date:.....
Student number: