



## UNSW Course Outline

# ANAT1452 Functional Anatomy and Biomechanics 2 - 2024

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## General Course Information

Course Code : ANAT1452

Year : 2024

Term : Term 3

Teaching Period : T3

Is a multi-term course? : No

Faculty : Faculty of Medicine and Health

Academic Unit : School of Biomedical Sciences

Delivery Mode : In Person

Delivery Format : Standard

Delivery Location : Kensington

Campus : Sydney

Study Level : Undergraduate

Units of Credit : 6

### Useful Links

[Handbook Class Timetable](#)

## Course Details & Outcomes

### Course Description

In this course you will study functional and clinically relevant musculoskeletal anatomy of the neck, back and trunk focusing on its role in movement and posture. Application of anatomical and biomechanical principles in relation to the analysis and description of tissues and movement

will be emphasised. Hands-on laboratory-based study involving human donor cadavers, medical imaging and surface anatomy will be complemented by adaptive online learning modules and problem-based tutorials to understand biomechanical concepts, clinical presentation, and functional deficits.

## Course Aims

This course aims to provide you with a thorough understanding of the musculoskeletal elements of the neck, back and trunk, along with fundamental principles of biomechanics. You will correlate the functional anatomy with patient assessment, medical imaging and surface and cross-sectional anatomy. You will also apply anatomical principles to clinical and biomechanical problems.

## Relationship to Other Courses

This course directly follows on from the content of ANAT1451 Functional Anatomy and Biomechanics 1, which will be required knowledge for content in this course.

### Assistance with progression checking:

If you are unsure how this course fits within your program, you can seek guidance on optimising your program structure, from staff at the [Nucleus Student Hub](#).

- Progression plans for UNSW Medicine and Health programs can be found on the [UNSW Medicine & Health website](#).
- Progression plans for UNSW Science programs can be found on the [UNSW Science website](#).

# Course Learning Outcomes

Course Learning Outcomes
CL01 : Demonstrate ethical principles of working with diverse groups of people and human tissue
CL02 : Discuss the histological and mechanical properties of musculoskeletal tissues
CL03 : Describe the musculoskeletal anatomy including origin, insertions, bony landmarks, joint structure and neurovascular supply of the neck, back and trunk
CL04 : Correlate functional and clinical anatomy of the neck, back and trunk with surface and cross-sectional anatomy, medical imaging, clinical presentation, and fundamental biomechanical principles
CL05 : Analyse movement by identifying individual joint complexes and muscles active in producing and controlling posture and movement
CL06 : Explain the rationale for biomechanical measurements and concepts relevant to movement and posture

Course Learning Outcomes	Assessment Item
CL01 : Demonstrate ethical principles of working with diverse groups of people and human tissue	• Integrated Practical Assessment
CL02 : Discuss the histological and mechanical properties of musculoskeletal tissues	• Weekly Quiz • Tutorial Work • Examination • Integrated Practical Assessment
CL03 : Describe the musculoskeletal anatomy including origin, insertions, bony landmarks, joint structure and neurovascular supply of the neck, back and trunk	• Weekly Quiz • Tutorial Work • Examination • Integrated Practical Assessment
CL04 : Correlate functional and clinical anatomy of the neck, back and trunk with surface and cross-sectional anatomy, medical imaging, clinical presentation, and fundamental biomechanical principles	• Weekly Quiz • Tutorial Work • Examination • Integrated Practical Assessment
CL05 : Analyse movement by identifying individual joint complexes and muscles active in producing and controlling posture and movement	• Weekly Quiz • Tutorial Work • Examination • Integrated Practical Assessment
CL06 : Explain the rationale for biomechanical measurements and concepts relevant to movement and posture	• Weekly Quiz • Tutorial Work • Examination • Integrated Practical Assessment

# Learning and Teaching Technologies

Moodle - Learning Management System

## Learning and Teaching in this course

All course materials and course announcements are provided on the course learning management system, Moodle (or Open Access).

By accessing and using the ICT resources provided by UNSW, you are agreeing to abide by the ['Acceptable Use of UNSW ICT Resources'](#) policy particularly on respect for intellectual property and copyright, legal and ethical use of ICT resources and security and privacy.

## Additional Course Information

The laboratory practical class is an opportunity for students to develop graduate attributes by behaving in an ethical, socially responsible and professional manner within the practical class. Students must take due care with biological and hazardous material and make sure all equipment is left clean and functional. In the interests of safety, special attention should be paid to any precautionary measures recommended in the Student Risk Assessment Form (see Moodle). If any accidents or incidents occur they should be reported immediately to the demonstrator in charge of the class who will record the incident and recommend what further action is required.

Students are responsible for meeting the requirements of entry to the anatomy laboratory, including completion of the Student Risk Assessment Form and wearing the required Personal Protective Equipment, as described on the course Moodle page.

Students are encouraged to use the Moodle discussion forum with queries related to the course and anatomical content. Personal issues can be emailed to the course email account (listed on the Moodle page), which will be attended to by the course convenors. All communications should be presented in a professional and respectful manner.

The Department of Anatomy is part of the School of Biomedical Sciences, UNSW Medicine & Health, and is located in the Wallace Wurth Building.

# Assessments

## Assessment Structure

Assessment Item	Weight	Relevant Dates
Weekly Quiz Assessment Format: Individual	10%	Start Date: Weekly quizzes open on Mondays at 9am Due Date: Weekly quizzes close the following Monday at 5pm
Tutorial Work Assessment Format: Individual	20%	Start Date: Weekly Tutorial modules will be available online a week prior, or in class during the tutorial Due Date: Weekly Tutorial modules are to be completed prior to class. Skills checks are to be completed prior to week 10.
Examination Assessment Format: Individual	30%	Start Date: Not Applicable Due Date: Final Exam will be held during Exam period
Integrated Practical Assessment Assessment Format: Individual	40%	Start Date: Weeks 5, 10 Due Date: Week 5: 07 October - 13 October, Week 10: 11 November - 17 November

## Assessment Details

### Weekly Quiz

#### Assessment Overview

This is a continuous assessment delivered online and released each week (9 quizzes in total, the five highest quiz marks contribute to this assessment mark). The aim of this assessment is to ensure you attain an understanding of the concepts in each topic and to identify any concepts for immediate remediation.

Individualised feedback is provided at the end of the assessment time. Cohort feedback is provided at the next session led by an academic facilitator and misconceptions discussed. You will be able to access online activities to remediate any misconceptions or troublesome concepts.

#### Course Learning Outcomes

- CL02 : Discuss the histological and mechanical properties of musculoskeletal tissues
- CL03 : Describe the musculoskeletal anatomy including origin, insertions, bony landmarks, joint structure and neurovascular supply of the neck, back and trunk
- CL04 : Correlate functional and clinical anatomy of the neck, back and trunk with surface and cross-sectional anatomy, medical imaging, clinical presentation, and fundamental

biomechanical principles

- CLO5 : Analyse movement by identifying individual joint complexes and muscles active in producing and controlling posture and movement
- CLO6 : Explain the rationale for biomechanical measurements and concepts relevant to movement and posture

### Detailed Assessment Description

Detailed information about this assessment will be provided on the course Moodle page

### Submission notes

Refer to Moodle for submission information.

### Generative AI Permission Level

#### **No Assistance**

This assessment is designed for you to complete without the use of any generative AI. You are not permitted to use any generative AI tools, software or service to search for or generate information or answers.

For more information on Generative AI and permitted use please see [here](#).

## **Tutorial Work**

### Assessment Overview

This assessment task comprises weekly pre-tutorial online modules and in-class tutorial activities that are cumulatively worth 20% of the overall course mark. The weekly pre-tutorial online modules are cumulatively worth 10% of the overall course mark. Feedback on the weekly pre-tutorial online modules is provided immediately via the course learning management system. Feedback on the weekly in-class tutorial activities is provided immediately during tutorial throughout the term.

### Course Learning Outcomes

- CLO2 : Discuss the histological and mechanical properties of musculoskeletal tissues
- CLO3 : Describe the musculoskeletal anatomy including origin, insertions, bony landmarks, joint structure and neurovascular supply of the neck, back and trunk
- CLO4 : Correlate functional and clinical anatomy of the neck, back and trunk with surface and cross-sectional anatomy, medical imaging, clinical presentation, and fundamental biomechanical principles
- CLO5 : Analyse movement by identifying individual joint complexes and muscles active in producing and controlling posture and movement
- CLO6 : Explain the rationale for biomechanical measurements and concepts relevant to movement and posture

### Detailed Assessment Description

Detailed information about this assessment will be provided on the course Moodle page

### Submission notes

Refer to Moodle for submission information

### Assignment submission Turnitin type

This is not a Turnitin assignment

### Generative AI Permission Level

**Not Applicable**

Generative AI is not considered to be of assistance to you in completing this assessment. If you do use generative AI in completing this assessment, you should attribute its use.

For more information on Generative AI and permitted use please see [here](#).

## **Examination**

### Assessment Overview

This is a final written examination that takes place during the term examination period. The task assesses the integration of theoretical and practical components of the course. Cohort feedback is provided once the exams are completed in the form of a post in the course learning management system.

### Course Learning Outcomes

- CL02 : Discuss the histological and mechanical properties of musculoskeletal tissues
- CL03 : Describe the musculoskeletal anatomy including origin, insertions, bony landmarks, joint structure and neurovascular supply of the neck, back and trunk
- CL04 : Correlate functional and clinical anatomy of the neck, back and trunk with surface and cross-sectional anatomy, medical imaging, clinical presentation, and fundamental biomechanical principles
- CL05 : Analyse movement by identifying individual joint complexes and muscles active in producing and controlling posture and movement
- CL06 : Explain the rationale for biomechanical measurements and concepts relevant to movement and posture

### Detailed Assessment Description

Detailed information about this assessment will be provided on the course Moodle page

### Submission notes

Refer to Moodle for submission information.

## Generative AI Permission Level

### **No Assistance**

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For more information on Generative AI and permitted use please see [here](#).

## **Integrated Practical Assessment**

### Assessment Overview

Two integrated practical assessments will be administered mid- and end-term. Content is based on laboratory practical concepts and delivery will be in-lab on material studied in the preceding weeks. You will be expected to identify anatomical structures and concepts from cadaveric specimens. Individualised feedback is provided at the end of the assessment. Cohort feedback is provided at the next session led by an academic facilitator.

### Course Learning Outcomes

- CL01 : Demonstrate ethical principles of working with diverse groups of people and human tissue
- CL02 : Discuss the histological and mechanical properties of musculoskeletal tissues
- CL03 : Describe the musculoskeletal anatomy including origin, insertions, bony landmarks, joint structure and neurovascular supply of the neck, back and trunk
- CL04 : Correlate functional and clinical anatomy of the neck, back and trunk with surface and cross-sectional anatomy, medical imaging, clinical presentation, and fundamental biomechanical principles
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### Submission notes

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not permitted to use any generative AI tools, software or service to search for or generate information or answers.

For more information on Generative AI and permitted use please see [here](#).

## General Assessment Information

Detailed instructions regarding assessments for this course are provided on the course Moodle page (or Open Learning).

For student information on results, grades, and guides to assessment see: <https://student.unsw.edu.au/assessment>

### Grading Basis

Standard

### Requirements to pass course

In order to pass this course students must:

- Achieve a composite grade of at least 50 out of 100
- Meet any additional requirements specified in the assessment details section and on Moodle.

## Course Schedule

Teaching Week/Module	Activity Type	Content
Week 1 : 9 September - 15 September	Topic	Introduction to the Axial Skeleton
	Topic	Basics of Biomechanics: This week will explore the basic mechanical and physical principles of biomechanics, and applying them to understand functional aspects of limb musculoskeletal morphology.
Week 2 : 16 September - 22 September	Topic	The Head: Bones of the Skull, muscles of Facial Expression, and Cranial Nerves
	Tut-Lab	Spinal Curvature and Posture Assessments.
Week 3 : 23 September - 29 September	Topic	Anatomy of the Posterior Head, Neck, and Cervical Spine
	Tut-Lab	Thoracolumbar Range of Motion
Week 4 : 30 September - 6 October	Topic	Anterior Head and Neck, Jaw function, Mastication, Swallowing and Speech
	Tut-Lab	Cervical Spine Range of Motion
Week 5 : 7 October - 13 October	Topic	Biomechanics of Connective Tissues: Collagen, Tendons, Ligaments, Cartilage and Bone
	Assessment	Integrated Practical Assessment 1 (Weeks 1-5)
Week 6 : 14 October - 20 October	Other	FLEXI WEEK
Week 7 : 21 October - 27 October	Topic	Anatomy of the Thorax: Breathing and Cardiac Function
	Tut-Lab	Skills Checks and Revision (Weeks 1-5)
Week 8 : 28 October - 3 November	Topic	Lumbar Back, Core Anatomy of the Abdomen, Pelvis (again).
	Tut-Lab	Surface Anatomy of the Lungs, Breathing and Respiration
Week 9 : 4 November - 10 November	Topic	Changes through Time: Pediatrics, Aging and Evolution
	Tut-Lab	Breathing and Heart Rate
Week 10 : 11 November - 17 November	Assessment	Integrated Practical Assessment 2 (Weeks 7-10)
	Tut-Lab	Revision and Final Skills Checks

## Attendance Requirements

Students are required to meet the 80% attendance requirements of the degree program.

Attendance at face-to-face tutorials and laboratory classes is mandatory.

- In line with the Special Consideration procedure, if students miss a class, please provide the Course Convenor with supporting documentation (e.g. medical certificate) within 3 days of the missed class. Students should not submit this through the Special Consideration portal, but just directly to the Course Convenor.

## General Schedule Information

The times and locations of classes can be found on [myUNSW](#) under Class Timetable.

The expected engagement for all UNSW 6UOC courses is 150 hours per term. This includes lectures, tutorials, readings, and completion of assessments and exam preparation (if relevant).

## Course Resources

### Prescribed Resources

Learning resources for this course will be available on Moodle:

1. Lecture Slides and Recordings
2. Lab Manual and Anatomy Checklists
3. Tutorial Learning material

**Kinesiology, Fourth Edition (2023) by Joseph E. Muscolino, DC** is the prescribed anatomy and biomechanics text, and is available for free through ClinicalKey Student

### Recommended Resources

**Complete Anatomy** is supplied FOR FREE through the UNSW library

**Clinical anatomy of the spine, spinal cord, and ANS (2013) by Cramer, G. D., & Darby, S. A.** is also suggested as additional reading, and is accessible for free through Science Direct via the UNSW library

Additional recommended resources for this course are provided on the course Moodle page.

## Additional Costs

There are no additional costs associated with this course.

## Course Evaluation and Development

Student feedback is taken seriously, and continual improvements are made to the course based, in part, on such feedback.

We use student feedback from myExperience surveys to develop and make improvements to the course each year. We do this by identifying areas of the course that require development from both the rating responses and written comments. Please spare a few minutes to complete the myExperience surveys for this course posted at the top of the Moodle page at the end of term.

## Staff Details

Position	Name	Email	Location	Phone	Availability	Equitable Learning Services Contact	Primary Contact
Convenor	Blake Dickson					Yes	Yes
	Stanley Serafin					No	No
Program director	Kemi Wright					No	No
	Nattai Borges					No	No
	Michael Lee					No	No

## Other Useful Information

### Academic Information

As a student of UNSW Medicine & Health you are expected to familiarise yourself with the contents of this course outline and the UNSW Student Code and policies and procedures related to your studies.

### Student Code of Conduct

Throughout your time studying at UNSW Medicine & Health, you share a responsibility with us for maintaining a safe, harmonious and tolerant University environment. This includes within the courses you undertake during your degree and your interactions with the UNSW community, both on campus and online.

The [UNSW Student Code of Conduct](#) website provides a framework for the standard of conduct

expected of UNSW students with respect to both academic integrity and your responsibility as a UNSW citizen.

Where the University believes a student may have breached the code, the University may take disciplinary action in accordance with the [Student Misconduct Procedure](#).

The [Student Conduct and Integrity Office](#) provides further resources to assist you to understand your conduct obligations as a student at UNSW.

## Academic Honesty and Plagiarism

### Academic integrity

UNSW has an ongoing commitment to fostering a culture of learning informed by academic integrity. All UNSW staff and students have a responsibility to adhere to the principle of academic integrity, and ethical scholarship of learning is fundamental to your success at UNSW Medicine & Health.

Plagiarism, contract cheating, and inappropriate use of generative AI undermine academic integrity and are not tolerated at UNSW. For more information see the [Academic Integrity and Plagiarism toolkit](#).

In addition to the information you are required to review in your [ELISE training](#), UNSW Medicine & Health strongly recommends that you complete the [Working with Academic Integrity](#) module before submitting your first assessment task.

### Referencing

Referencing is a way of acknowledging the sources of information that you use to research your assignments. Preferred referencing styles vary among UNSW Medicine & Health disciplines, so check your course Learning Management System (e.g. Moodle or Open Learning) page for information on preferred referencing styles.

For further information on referencing support and styles, see the Current Student [Referencing page](#).

### Academic misconduct and plagiarism

At UNSW, academic misconduct is managed in accordance with the [Student Misconduct](#)

[Procedure](#). Allegations of plagiarism are generally handled according to the [UNSW Plagiarism Management Procedure](#). Plagiarism is defined in the [UNSW Plagiarism Policy](#) and is not tolerated at UNSW.

## **Use of Generative AI and other tools in your assessment**

UNSW has provided guiding statements for the [use of Generative AI in assessments](#). This will differ, depending on the individual assessment task, your course requirements, and the course stage within your program.

Your course convenor will outline if and how you can use Generative AI in each of your assessment tasks. Inappropriate use of generative AI is considered academic misconduct.

Options for the use of generative AI include: (1) no assistance (for invigilated assessments); (2) simple editing assistance; (3) drafting assistance; and (4) full assistance with attribution; and (5) Generative AI software-based assessments. See your individual assessment descriptions for the level of permitted use of generative AI for each task and see your course Moodle (or Open Learning) page for the full instructions on permitted use of generative AI in your assessment tasks for this course.

Instructions may include a requirement to submit the original generative AI responses, or drafts of your original work, or provide on request.

## **Submission of Assessment Tasks**

### **Short extensions and special consideration**

#### Short extension

UNSW has a short extension procedure for submission of assessment tasks. Not all tasks are eligible, and eligible tasks have a predetermined extension length. UNSW Medicine and Health have set School-level extension lengths for eligible assessment tasks. See your course assessment descriptions for more information.

Students must check the availability of a short extension in the individual assessment task information for their courses.

Short extensions do not require supporting documentation. They must be submitted through [Special Consideration](#) before the assessment task deadline. No late applications will be

accepted.

Late penalties apply to submission of assessment tasks without approved extension.

### Special consideration

In cases where illness, misadventure or other circumstances beyond your control will prevent you from submitting your assessment by the due date and you require an extension, you need to formally apply for [Special Consideration](#) through myUNSW.

UNSW has a **Fit to Sit/Submit rule**, which means that by sitting or submitting an assessment on the scheduled assessment date, you are declaring that you are fit to do so and cannot later apply for Special Consideration. Examinations include centrally timetabled examinations and scheduled, timed examinations and tests managed by your School.

Important information relating to Short Extension and Special Consideration is available [here](#), including eligibility for Special Consideration, circumstances where students with Equitable Learning Plans can apply for Short Extensions and Special Consideration, and the appeals process.

### **Examinations**

Information about the conduct of examinations in your course is provided on your course Moodle page.

### **Timed online assessment tasks**

If you experience a technical or connection problem during a timed online assessment, such as a timed quiz, you can apply for Special Consideration. To be eligible to apply you need to contact the Course Convenor and advise them of the issue immediately. You will need to submit an application for Special Consideration immediately, and upload screenshots, error messages or other evidence of the technical issue as supporting documentation. Additional information can be found on: <https://student.unsw.edu.au/special-consideration>

### **Other assessment tasks**

### **Late submission of assessment tasks**

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 calendar day (including Saturday, Sunday and public holidays).

Late submissions penalties are capped at five calendar days (120 hours). This means that a student is not permitted to submit an assessment more than 5 calendar days (120 hours) after the due date for that assessment (unless extension or exemption previously agreed).

### **Failure to complete an assessment task**

You are expected to complete all assessment tasks for your courses. In some courses, there will be a minimum pass mark required on a specific assessment task (a “hurdle task”) due to the need to assure clinical competency.

Where a hurdle task is applicable, additional information is provided in the assessment information on your course Moodle page.

### **Feedback on assessments**

Feedback on your performance in assessment tasks will be provided to you in a timely manner. For assessment tasks completed within the teaching period of a course, other than a final assessment, feedback will be provided within 10 working days of submission, under normal circumstances.

Feedback on continuous assessment tasks (e.g. laboratory and studio-based, workplace-based, weekly quizzes) will be provided prior to the midpoint of the course.

Any variation from the above information that is specific to an assessment task will be clearly indicated in the course and assessment information provided to you on your course Moodle (or Open Learning) page.

## **Faculty-specific Information**

### **Additional support for students**

The university offers a wide range of support services that are available for students. Here are some links for you to explore.

- The Current Students Gateway: <https://student.unsw.edu.au>

- Academic Skills and Support: <https://student.unsw.edu.au/academic-skills>
- Student support: <https://www.student.unsw.edu.au/support>
- Student Wellbeing, Health and Safety: <https://student.unsw.edu.au/wellbeing>

Mind Smart Guides are a series of mental health self-help resources designed to give you the psychological flexibility, resilience and self-management skills you need to thrive at university and at work.

- Mind Smart Guides: <https://student.unsw.edu.au/mindsmart>
- Equitable Learning Services: <https://student.unsw.edu.au/els>
- Guide to studying online: <https://www.student.unsw.edu.au/online-study>

Most courses in UNSW Medicine & Health use Moodle as your Learning Management System. Guidance for using UNSW Moodle can be found on the Current Student page. Difficulties with Moodle should be logged with the IT Service Centre.

- Moodle Support: <https://student.unsw.edu.au/moodle-support>

The IT Service Desk is your central point of contact for assistance and support with remote and on-campus study.

- UNSW IT Service Centre: <https://www.myit.unsw.edu.au/services/students>

## Course evaluation and development

At UNSW Medicine & Health, students take an active role in designing their courses and their overall student experience. We regularly seek feedback from students, and continuous improvements are made based on your input. Towards the end of the term, you will be asked to participate in the [myExperience survey](#), which serves as a source of evaluative feedback from students. Your input to this quality enhancement process is valuable in helping us meet your learning needs and deliver an effective and enriching learning experience. Student responses are carefully considered, and the action taken to enhance educational quality is documented in the myFeedback Matters section of your Moodle (or Open Learning) course page.



## School-specific Information

### Laboratory or practical class safety.

For courses where there is a laboratory or practical-based component, students are required to wear the specified personal protective equipment (e.g., laboratory coat, covered shoes, safety glasses) indicated in the associated student risk assessments. The student risk assessments will be provided on the course Moodle page and must be read and acknowledged prior to the class.

### Master of Science in Health Data Science courses

Courses in the Master of Science in Health Data Science are hosted through [Open Learning](#). Additional resources are available on the [Health Data Science Student Hub](#).

## School Contact Information

School guidelines on contacting staff:

### Course questions

All questions related to course content should be posted on Moodle (or Open Learning) or as directed by your Course Convenor.

In cases where email communication with course convenors is necessary, we kindly request the following:

- Use your official email address for any correspondence with teaching staff.
- We expect a high standard of communication. All communication should avoid using short-hand or texting language.
- Include your full name, student ID, and your course code and name in all communication.

Our course convenors are expected to respond to emails during standard working hours of Monday to Friday, 9am-5pm.

### Administrative questions

If you have an administrative question about your program of study at the School please submit your enquiry online at [UNSW Ask Us](#).

## **Complaints and appeals**

Student complaints and appeals: <https://student.unsw.edu.au/complaints>

If you have any grievances about your studies, we invite you to address these initially to the Course Convenor. If the response does not meet your expectations, you may then contact:

School Grievance Officer, Prof Nick Di Girolamo ([n.digirolamo@unsw.edu.au](mailto:n.digirolamo@unsw.edu.au))

**Master of Science in Health Data Science programs:** School Grievance Officer, Dr Sanja Lujic ([s.lujic@unsw.edu.au](mailto:s.lujic@unsw.edu.au))