



ANAT2003

Anatomy of Head, Neck and Trunk

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

Department of Chiropractic

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General Information

Unit convenor and teaching staff

Unit Convenor

Irina Dedova

irina.dedova@mq.edu.au

Contact via irina.dedova@mq.edu.au

room 2228, Level 2, 75 Talavera Rd (by appointment)

online consultations as announced in iLearn; personal - by appointment

Embryology component

Mirjana Strkalj

N/A; please contact Irina Dedova

Credit points

10

Prerequisites

HLTH108 or ANAT1001

Corequisites

Co-badged status

Unit description

This unit builds on the basic anatomy taught in ANAT1001 (previously HLTH108). The regional anatomy of the head, neck and trunk is examined in detail. The unit utilises an integrated approach within which relevant gross anatomy, histology and embryology are studied. It is clinically oriented and focuses on surface and applied anatomy. The unit includes a significant practical component in which human remains, models, medical images, surface anatomy and clinical cases are studied. Students are expected to show an appreciation and respect for those who have bequeathed their bodies to science.

Important Academic Dates

Information about important academic dates including deadlines for withdrawing from units are available at <https://www.mq.edu.au/study/calendar-of-dates>

Learning Outcomes

On successful completion of this unit, you will be able to:

ULO1: Demonstrate a comprehensive understanding of the anatomy of the head, neck and trunk.

ULO2: Describe and identify the structure and function of the bones, joints, muscles, venous and lymphatic drainage as well as nerve and bloody supply of the head, neck, and trunk.

ULO3: Contextualise embryological development and age-related changes which occur in the structure and function of the head, neck and trunk.

ULO4: Articulate anatomical knowledge of the head, neck and trunk as well as critical thinking to thoroughly evaluate theoretical clinical case studies.

ULO5: Apply anatomical knowledge and terminology to assess, interpret and explain radiographic, MRI and CT images of the head, neck and trunk.

ULO6: Communicate and demonstrate an appreciation for and respect of people who choose to bequeath their body for research or teaching purposes.

General Assessment Information

Online Quizzes These Quizzes will be conducted online in weeks 2, 3, 4, 5, 9, 10, 11 (total seven quizzes). Each Quiz typically consists of around 10 questions (multiple choice, matching, T/F) on the theory of the given week. Questions are drawn from a database organised by specific subtopics for each quiz question. Time allocated: around 1-1.5 min per each question. The Quiz closes automatically once the time allocated runs out. Unfinished attempts are automatically saved. You have ONE attempt at each question and ONE attempt for the whole quiz. The Quiz will become available on the Friday evening of the allocated week and will stay open for one week for you to complete it in your own time. Late attempts are not allowed (zero marks). Written feedback will be provided. A representative quiz will be released to allow more practice and feedback. The best FIVE marks out of SEVEN marks for quizzes will be counted towards the 20% of the final mark for the unit. The schedule of quizzes and their topics can be found in the timetable and iLearn.

Practical Examinations Practical examinations, the Prac Exam 1 (Week 7) and Prac Exam 2 (Week 13), focus on practical identifications of anatomical structures. These tests can be held either in the usual scheduled practical laboratory class (i.e. in the wet laboratory) or online during timetabled lecture time. Students will be advised via iLearn announcements of specific arrangements (mode, location, time) of these tests. Prac Exams assess students' ability to identify correctly anatomical structures on human remains, bones, models, medical images, and surface anatomy (both, real specimens and photographs/images can be used). Typically, there are around 15- 20 stations with several identifications in each. Some relevant theoretical questions may also be included. The scope of Prac Exam 1 is on the practical knowledge achieved during the first six weeks of the semester (week 1 throughout to week 6, inclusive), and Prac Exam 2 examines the practical knowledge relevant to weeks 7 throughout to week 13. The value of Prac Exam 1 is 15% and of Prac Exam 2 is 20% towards the final mark for the unit. When prac exams are conducted in the lab, students must attend the class they are enrolled in, unless permission has been granted by the Campus Well Being and Disability Services. Students with a pre-existing disability/health condition or prolonged adverse circumstances may be eligible for ongoing assistance and support. Such support is governed by

other policies and may be sought and coordinated through Campus Wellbeing and Support Services. If a practical exam is missed a supplementary exam will only be considered under the Special Consideration policy (<https://students.mq.edu.au/study/my-study-program/special-consideration>). Applications for special consideration should be submitted online within 5 days of the missed assessment (see: www.ask.mq.edu.au).

Final Theory Examination This examination is held during the formal examination period, at the end of the semester. Its value is 45% towards the final mark. The examination is based on the entire content studied throughout the term covering gross anatomy of the head, neck and trunk. The format of this paper comprises multiple choice and short answer questions, including clinical cases and problem-solving. A typical structure of the examination paper includes around 60-70 multiple choice questions (answers to be filled in the automated marking sheets) and several (e.g. three to five) short answer questions (answers to be written in the answer booklet provided). Short answer questions are based on scenarios discussed in lectures and tutorials. The content of the final examination is aligned with the learning outcomes for the unit and all the learning activities that students participate in throughout the entire semester. The confidence in the knowledge and the examination skills will be built consistently throughout participation in weekly quizzes (multiple choice questions) and tutorial discussions (problem solving and clinical cases). There will be no identification tasks in the final theory examination. Special Consideration procedures are as described above.

Assessment Tasks

Name	Weighting	Hurdle	Due
Online Quizzes	20%	No	Week 2-5, 9-11
Practical Exam 1	15%	No	Week 7
Practical Exam 2	20%	No	Week 13
Final Theory Exam	45%	No	Examination Period

Online Quizzes

Assessment Type ¹: Quiz/Test

Indicative Time on Task ²: 10 hours

Due: **Week 2-5, 9-11**

Weighting: **20%**

Seven online quizzes throughout the semester testing acquired theory knowledge.

On successful completion you will be able to:

- Demonstrate a comprehensive understanding of the anatomy of the head, neck and trunk.
- Describe and identify the structure and function of the bones, joints, muscles, venous and lymphatic drainage as well as nerve and bloody supply of the head, neck, and trunk.
- Contextualise embryological development and age-related changes which occur in the structure and function of the head, neck and trunk.
- Articulate anatomical knowledge of the head, neck and trunk as well as critical thinking to thoroughly evaluate theoretical clinical case studies.

Practical Exam 1

Assessment Type ¹: Examination

Indicative Time on Task ²: 15 hours

Due: **Week 7**

Weighting: **15%**

Spot test in the anatomy laboratory focusing on trunk anatomy; utilising human remains, bones, x-rays, and surface anatomy photographs. This assessment assess identification of anatomical structures as well as some theoretical knowledge.

On successful completion you will be able to:

- Demonstrate a comprehensive understanding of the anatomy of the head, neck and trunk.
- Describe and identify the structure and function of the bones, joints, muscles, venous and lymphatic drainage as well as nerve and bloody supply of the head, neck, and trunk.
- Articulate anatomical knowledge of the head, neck and trunk as well as critical thinking to thoroughly evaluate theoretical clinical case studies.
- Apply anatomical knowledge and terminology to assess, interpret and explain radiographic, MRI and CT images of the head, neck and trunk.
- Communicate and demonstrate an appreciation for and respect of people who choose to bequeath their body for research or teaching purposes.

Practical Exam 2

Assessment Type ¹: Examination

Indicative Time on Task ²: 15 hours

Due: **Week 13**

Weighting: **20%**

Spot test in the anatomy laboratory focusing on head and neck anatomy; utilising human remains, bones, x-rays, and surface anatomy photographs. This assessment assess identification of anatomical structures as well as some theoretical knowledge.

On successful completion you will be able to:

- Demonstrate a comprehensive understanding of the anatomy of the head, neck and trunk.
- Describe and identify the structure and function of the bones, joints, muscles, venous and lymphatic drainage as well as nerve and bloody supply of the head, neck, and trunk.
- Articulate anatomical knowledge of the head, neck and trunk as well as critical thinking to thoroughly evaluate theoretical clinical case studies.
- Apply anatomical knowledge and terminology to assess, interpret and explain radiographic, MRI and CT images of the head, neck and trunk.
- Communicate and demonstrate an appreciation for and respect of people who choose to bequeath their body for research or teaching purposes.

Final Theory Exam

Assessment Type ¹: Examination

Indicative Time on Task ²: 23 hours

Due: **Examination Period**

Weighting: **45%**

Theory exam covering head, neck and trunk anatomy. The format includes multiple choice and short answer questions, and includes clinical cases.

On successful completion you will be able to:

- Demonstrate a comprehensive understanding of the anatomy of the head, neck and trunk.
- Describe and identify the structure and function of the bones, joints, muscles, venous and lymphatic drainage as well as nerve and bloody supply of the head, neck, and trunk.
- Contextualise embryological development and age-related changes which occur in the structure and function of the head, neck and trunk.
- Articulate anatomical knowledge of the head, neck and trunk as well as critical thinking to thoroughly evaluate theoretical clinical case studies.

- Apply anatomical knowledge and terminology to assess, interpret and explain radiographic, MRI and CT images of the head, neck and trunk.

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

1. Unit Schedule A typical weekly schedule includes:

- three 1-hour lectures (see timetable); lectures are delivered either synchronously in real time via the Zoom platform *or* pre-recorded; students need to download the latest version of the Zoom software; all lectures will be recorded and available via ECHO360.
- one 2-hour face-to-face laboratory practical (as per enrolment); students will be using models, bones, images and human remains; prior to attending the lab, students are advised to watch around 30min video demonstrations via Acland's Video Atlas software (available via MQU Library; this can be done any time before the lab); a pdf file of ANAT2003 Unit Manual will be available via iLearn; to attend the lab, students are required to wear enclosed shoes, lab coat and face mask; students are permitted to attend the labs strictly as per enrolment.
- one 1-hour tutorial class as per enrolment; tutorial notes are included in the Unit Manual.
- independent work (at least 4 hours), including tasks outlined in the Unit Manual, online interactive activities such as revision modules, 'check your understanding' online tutorials, formative quizzes, labelling tasks, and optional resources.

2. Classes Please make your choice for practical and tutorial classes on E-student. You can only attend the classes according to your class registration. If you appear at another practical, you will be turned away. Under exceptional circumstances, practical times may be changed, but **ONLY** if you have a written approval from the Unit Convenor. 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.

3. Required Texts and Materials The unit iLearn website can be accessed through the ilearn.mq.edu.au. Unit Manual (includes Lab and Tut notes) is available in iLearn. You can print your own copy. All lecture and tutorial slides will be posted on iLearn. You will find a link to Echo

recordings of the lectures on this website. You will also find a Leganto link on iLearn that will show you the library resources available to support your learning. Please note that there is a limit in the number of users that simultaneously can access the electronic textbooks. Therefore, it might be a good idea to purchase your own textbook - see a list of prescribed texts below (available via Booktopia). Later or earlier editions of the textbooks/atlas are acceptable (you can discuss this with your tutors and/or convenor). Further readings can be found via the Leganto link.

- Prescribed textbooks: Vogl, Drake, & Mitchell (2019) Gray's Anatomy for Students. 4th Ed, Elsevier; *OR* Moore, Dalley, & Agur (2017) Clinically Oriented Anatomy. 8th Ed, Wolters Kluwer
- Prescribed atlases: Abrahams, Boon & Spratt (2009) McMinn's Clinical Atlas of Human Anatomy. 6th Ed, Mosby/Saunders Elsevier, *OR* Rothen, Lutjen-Drecoll, & Yokochi (2015) A photographic Atlas. 8th Ed, Wolters Kluwer

Unit Schedule

Weekly unit schedule will be provided in iLearn.

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 or if you are a Global MBA student contact 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/.

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 from Previous Offering

In response to the COVID situation and based on student feedback, the ANAT2003 unit has been digitally uplifted. Weekly online learning modules will assist you with revision and checking your understanding of the main learning outcomes for a given week. Formative quizzes and labelling tasks will provide endless opportunities to learn flexibly and to practice the format/content of the real assessments. All formative learning activities can be done multiple times and have immediate feedback that will help you learning efficiently. The laboratory manual has been revised. It includes detailed learning objectives, list of structures to be identified (thus these structures can be included in the prac exams), study notes, diagrams for labelling, and questions for independent studies. The unit convenor placed a specific emphasis on the clarity and positive alignment between the unit outcomes, learning activities and assessment. The content has been broken down into weekly modules that will help you learning gradually, in smaller chunks and building your confidence towards the final exam. This also will help avoiding extra-stress and support your wellbeing. We aim to help you learning, and we will provide plenty of guidance, support and feedback. We value and respect the feedback from students and will be working together with you to ensure that we will provide the best possible learning experience. Should you have any concerns or suggestions, do not hesitate to email the unit convenor.

Changes since First Published

Date	Description
09/05/2022	Delivery and Resources: 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 and tutorial 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."