# ANAT1001

## Introduction to Anatomy

Session 1, In person-scheduled-weekday, North Ryde 2023

*Department of Chiropractic*

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### Disclaimer

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General Information

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Stephanie Marhoff-Beard
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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

Grade descriptors and other information concerning grading are contained in the Macquarie University Assessment Policy.

All final grades are determined by a grading committee, in accordance with the Macquarie University Assessment Policy, and are not the sole responsibility of the Unit Convenor.

Students will be awarded a final grade and a mark which must correspond to the grade descriptors specified in the Assessment Procedure (clause 128).

To pass this unit, you must demonstrate sufficient evidence of achievement of the learning outcomes, meet any ungraded requirements, and achieve a final mark of 50 or better.

Further details for each assessment task will be available on iLearn.

Late Submissions

Unless a Special Consideration request has been submitted and approved, a 5% penalty (OF THE TOTAL POSSIBLE MARK) will be applied each day a written assessment is not submitted, up until the 7th day (including weekends). After the 7th day, a grade of ‘0’ will be awarded even if the assessment is submitted. Submission time for all written assessments is set at 11.55pm. A 1-hour grace period is provided to students who experience a technical concern.

For example:

<table>
<thead>
<tr>
<th>Number of days (hours) late</th>
<th>Total Possible Marks</th>
<th>Deduction</th>
<th>Raw mark</th>
<th>Final mark</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 day (1-24 hours)</td>
<td>100</td>
<td>5</td>
<td>75</td>
<td>70</td>
</tr>
<tr>
<td>2 days (24-48 hours)</td>
<td>100</td>
<td>10</td>
<td>75</td>
<td>65</td>
</tr>
<tr>
<td>3 days (48-72 hours)</td>
<td>100</td>
<td>15</td>
<td>75</td>
<td>60</td>
</tr>
<tr>
<td>7 days (144-168 hours)</td>
<td>100</td>
<td>35</td>
<td>75</td>
<td>40</td>
</tr>
<tr>
<td>&gt;7 days (&gt;168 hours)</td>
<td>100</td>
<td>-</td>
<td>75</td>
<td>0</td>
</tr>
</tbody>
</table>

For any late submissions of time-sensitive tasks, such as scheduled tests/exams, performance assessments/presentations, and/or scheduled practical assessments/labs, students need to submit an application for Special Consideration.
### Assessment Tasks

<table>
<thead>
<tr>
<th>Name</th>
<th>Weighting</th>
<th>Hurdle</th>
<th>Due</th>
</tr>
</thead>
<tbody>
<tr>
<td>Online Quizzes</td>
<td>20%</td>
<td>No</td>
<td>Sunday, 11:55pm of Weeks 2, 4, 6, 8, 10, 12</td>
</tr>
<tr>
<td>Practical test 1</td>
<td>20%</td>
<td>No</td>
<td>Week 7</td>
</tr>
<tr>
<td>Practical Test 2</td>
<td>20%</td>
<td>No</td>
<td>Week 13</td>
</tr>
<tr>
<td>Final Theory Exam</td>
<td>40%</td>
<td>No</td>
<td>Official University Examination Period</td>
</tr>
</tbody>
</table>

### Online Quizzes

**Assessment Type**: Quiz/Test  
**Indicative Time on Task**: 4 hours  
**Due**: Sunday, 11:55pm of 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**: Examination  
**Indicative Time on Task**: 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: Examination
Indicative Time on Task: 10 hours
Due: Week 13
Weighting: 20%

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

On successful completion you will be able to:

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

Assessment Type 1: Examination
Indicative Time on Task 2: 25 hours
Due: Official University Examination Period
Weighting: 40%

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

On successful completion you will be able to:

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

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

As a student enrolled in this unit, you will engage in a range of online and face to face learning activities, including lectures, practicals and tutorials. Details can be found on the iLearn site for this unit. You are highly encouraged to attend and participate in all learning activities to ensure
success in this unit.

Recommended Readings


Technology Used

Active participation in the learning activities throughout the unit will require students to have access to a tablet, laptop or similar device. Students who do not own their own laptop computer may borrow one from the university library.

### Unit Schedule

<table>
<thead>
<tr>
<th>WEEK</th>
<th>LECTURE (Monday; 1 hr)</th>
<th>LECTURE (Tuesday; 2 hr)</th>
<th>TUTORIAL (Fortnightly: Mon/Tues)</th>
<th>LABORATORY PRACTICAL (Weekly: Wed/Thurs/Fri)</th>
<th>ONLINE QUIZ</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Introduction</td>
<td>Cells</td>
<td></td>
<td>Cell Biology and epithelium (No on campus practical, complete practical 1 at home; see ilearn)</td>
<td></td>
</tr>
<tr>
<td>20</td>
<td>20 February</td>
<td>Cells</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>February</td>
<td>Connective tissue</td>
<td>Skeletal system</td>
<td>Terminology and orientation,</td>
<td></td>
<td>(QUIZ 1)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>cell biology and connective</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>tissue</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>27 February</td>
<td>Joints</td>
<td>Bone tissue</td>
<td>Joints</td>
<td>Specialised connective tissue</td>
</tr>
<tr>
<td>3</td>
<td>6 March</td>
<td>Muscle tissue</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>13 March</td>
<td>Embryology</td>
<td>Skeletal muscles, Embryology</td>
<td>Skeletal muscles</td>
<td>(QUIZ 2)</td>
</tr>
<tr>
<td>5</td>
<td>20 March</td>
<td>Cardiovascular system</td>
<td>Bones, joints and</td>
<td>Muscle tissue</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Embryology</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>27 March</td>
<td>Blood</td>
<td>Nervous tissue, Brain (Part 1)</td>
<td>Revision</td>
<td>(QUIZ 3)</td>
</tr>
<tr>
<td>7</td>
<td>3 April</td>
<td>Lymphatics</td>
<td>Revision</td>
<td>Practical Test 1</td>
<td></td>
</tr>
</tbody>
</table>

https://unitguides.mq.edu.au/unit_offerings/155831/unit_guide/print
Policies and Procedures

Macquarie University policies and procedures are accessible from Policy Central (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). 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) 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:
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.

Inclusion and Diversity

Social inclusion at Macquarie University is about giving everyone who has the potential to benefit from higher education the opportunity to study at university, participate in campus life and flourish in their chosen field. The University has made significant moves to promote an equitable, diverse and exciting campus community for the benefit of staff and students. It is your responsibility to contribute towards the development of an inclusive culture and practice in the areas of learning and teaching, research, and service orientation and delivery. As a member of the Macquarie University community, you must not discriminate against or harass others based on their sex, gender, race, marital status, carers’ responsibilities, disability, sexual orientation, age, political conviction or religious belief. All staff and students are expected to display appropriate behaviour that is conducive to a healthy learning environment for everyone.

Professionalism

In the Faculty of Medicine, Health and Human Sciences, professionalism is a key capability embedded in all our courses.

As part of developing professionalism, students are expected to attend all small group interactive sessions including clinical, practical, laboratory, work-integrated learning (e.g., PACE placements), and team-based learning activities. Some learning activities are recorded (e.g., face-to-face lectures), however you are encouraged to avoid relying upon such material as they do not recreate the whole learning experience and technical issues can and do occur. As an adult learner, we respect your decision to choose how you engage with your learning, but we would remind you that the learning opportunities we create for you have been done so to enable your success, and that by not engaging you may impact your ability to successfully complete this
unit. We equally expect that you show respect for the academic staff who have worked hard to develop meaningful activities and prioritise your learning by communicating with them in advance if you are unable to attend a small group interactive session.

Another dimension of professionalism is having respect for your peers. It is the right of every student to learn in an environment that is free of disruption and distraction. Please arrive to all learning activities on time, and if you are unavoidably detained, please join activity as quietly as possible to minimise disruption. Phones and other electronic devices that produce noise and other distractions must be turned off prior to entering class. Where your own device (e.g., laptop) is being used for class-related activities, you are asked to close down all other applications to avoid distraction to you and others. Please treat your fellow students with the utmost respect. If you are uncomfortable participating in any specific activity, please let the relevant academic know.