Unit guide  HLTH108 Introduction to Anatomy

General Information

Unit convenor and teaching staff
Goran Strkalj
goran.strkalji@mq.edu.au

Credit points
3

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 and tutorials.

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](https://www.mq.edu.au/study/calendar-of-dates)

Learning Outcomes
On successful completion of this unit, 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 fetal periods.
- Describe and identify the microscopic and macroscopic anatomy of all systems of the human body and explain their function and integration: Integumentary, Skeletal, Muscular, Cardiovascular, Lymphatic, Nervous, Endocrine, Respiratory, Digestive, Urinary, Reproductive.
- Apply the knowledge of anatomy within the clinical and research contexts and in the interpretation of medical imaging.
General Assessment Information

Serious and unavoidable disruption: The University classifies a disruption as serious and unavoidable if it:

- could not have reasonably been anticipated, avoided or guarded against by the student; and
- was beyond the student’s control; and
- caused substantial disruption to the student’s capacity for effective study and/or completion of required work; and
- occurred during an event critical study period and was at least three (3) consecutive days duration, and/or
- prevented completion of a final examination.

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 supplementary examination is granted as a result of the disruption to studies process the examination will be scheduled after the conclusion of the official examination period. (Individual Faculties may wish to signal when the Faculty Supplementary exams are normally scheduled.)

If you are granted a supplementary exam via the Disruption to Studies process, you will have to write a supplementary exam in the supplementary exam period. In this scenario, only your supplementary exam mark will count towards your final exam mark, irrespective of whether or not you attended the final exam in the normal examination period. The submission of a Disruption to Studies form should not be used as a ‘just in case’ strategy.

You are advised that it is Macquarie University policy not to set early examinations for individuals or groups of students. You are expected to ensure that you are available until the end of the teaching semester that is the final day of the official examination period.

Assessment Tasks

<table>
<thead>
<tr>
<th>Name</th>
<th>Weighting</th>
<th>Due</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quiz</td>
<td>20%</td>
<td>Weeks 2, 4, 6, 8, 10 and 12..</td>
</tr>
<tr>
<td>Practical test 1</td>
<td>20%</td>
<td>Week 7</td>
</tr>
<tr>
<td>Practical test 2</td>
<td>20%</td>
<td>Week 13</td>
</tr>
</tbody>
</table>
### Unit guide

**HLTH108 Introduction to Anatomy**

<table>
<thead>
<tr>
<th>Name</th>
<th>Weighting</th>
<th>Due</th>
</tr>
</thead>
<tbody>
<tr>
<td>Final Examination</td>
<td>40%</td>
<td>University Examination Period</td>
</tr>
<tr>
<td><strong>Quiz</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Due: <strong>Weeks 2, 4, 6, 8, 10 and 12..</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Weighting: 20%</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Six on-line quizzes related to selected learning outcomes.

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 fetal periods.
- Describe and identify the microscopic and macroscopic anatomy of all systems of the human body and explain their function and integration: Integumentary, Skeletal, Muscular, Cardiovascular, Lymphatic, Nervous, Endocrine, Respiratory, Digestive, Urinary, Reproductive.
- Apply the knowledge of anatomy within the clinical and research contexts and in the interpretation of medical imaging.

**Practical test 1**

**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 fetal periods.
- Describe and identify the microscopic and macroscopic anatomy of all systems of the human body.
human body and explain their function and integration: Integumentary, Skeletal, Muscular, Cardiovascular, Lymphatic, Nervous, Endocrine, Respiratory, Digestive, Urinary, Reproductive.

• Apply the knowledge of anatomy within the clinical and research contexts and in the interpretation of medical imaging.

Practical test 2
Due: **Week 13**
Weighting: **20%**

Practical test (related to models and histology slides used during the practicals and tutorials). Test two will cover weeks 7-13.

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 fetal periods.
• Describe and identify the microscopic and macroscopic anatomy of all systems of the human body and explain their function and integration: Integumentary, Skeletal, Muscular, Cardiovascular, Lymphatic, Nervous, Endocrine, Respiratory, Digestive, Urinary, Reproductive.
• Apply the knowledge of anatomy within the clinical and research contexts and in the interpretation of medical imaging.

Final Examination
Due: **University Examination Period**
Weighting: **40%**

This will cover the content of the entire semester. Questions will include multiple choice questions, short answer questions and short essay 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 fetal periods.

Describe and identify the microscopic and macroscopic anatomy of all systems of the human body and explain their function and integration: Integumentary, Skeletal, Muscular, Cardiovascular, Lymphatic, Nervous, Endocrine, Respiratory, Digestive, Urinary, Reproductive.

Apply the knowledge of anatomy within the clinical and research contexts and in the interpretation of medical imaging.

Delivery and Resources

Classes

This unit is characterised by a moderate degree of flexibility. It incorporates a variety of learning tools and media. It will comprise:

1. Three 1-hour lectures per week, weeks 1-13.

2. One 1-hour tutorial per week, weeks 2-13 (except where indicated) in university classrooms; discussions will be carried; histology slides, anatomy models and flow charts will be used.

3. One 2-hours laboratory practical per week 1-13 (except where indicated) in the anatomy laboratories; histology slides and anatomy models will be used.

Students must attend the practical classes (tutorials and lab practicals) in which they enrolled. They may not exchange their class time. In special circumstances, students may apply (with the appropriate documentation) in writing to the unit convener, for requests regarding changes. These requests are to be submitted to the scientific officer.

The attendance of practical classes (tutorials and lab practicals). A minimum of 80% attendance at practical classes is required in order to complete this unit.

Required and Recommended Texts and/or Materials

Core:


Recommended:

Anatomy and Physiology (on-line, available through the University Library).

More detailed anatomy textbooks:
Unit Schedule

<table>
<thead>
<tr>
<th>WEEK</th>
<th>LECTURE (Monday)</th>
<th>TUTORIAL (Monday/Tuesday/Thursday)</th>
<th>LECTURE (Tuesday)</th>
<th>LABORATORY PRACTICAL (Thursday/Friday)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Introduction</td>
<td>No tutorials</td>
<td>Cells</td>
<td>Cell biology</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Basic tissues</td>
<td>Epithelium</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Epithelium</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Connective tissue</td>
<td>Terminology and orientation</td>
<td>Axial skeleton</td>
<td>Connective tissue</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Appendicular</td>
<td>(Quiz 1)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>skeleton</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Joints</td>
<td>Bones and joints</td>
<td>Bone tissue</td>
<td>Joints</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Muscle tissue</td>
<td>Specialised connective tissue</td>
</tr>
</tbody>
</table>


Atlases:


Histology:


Other:

Nielsen M and Miller S. Real Anatomy 1.0. Wiley. (CD)


Albertine KH. Anatomy Flash Cards. Palgrave Macmillan.

Changes to this Unit

None.
### Policies and Procedures

Macquarie University policies and procedures are accessible from [Policy Central](http://mq.edu.au/policy/docs/academic_honesty/policy.html). Students should be aware of the following policies in particular with regard to Learning and Teaching:

**Academic Honesty Policy**


**New Assessment Policy** in effect from Session 2 2016  

---

**Unit guide** HLTH108 Introduction to Anatomy

<table>
<thead>
<tr>
<th>Week</th>
<th>Date</th>
<th>Topics</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>21 March</td>
<td>Embryology</td>
</tr>
<tr>
<td>5</td>
<td>29 March</td>
<td>Public holiday</td>
</tr>
<tr>
<td>6</td>
<td>4 April</td>
<td>Skin</td>
</tr>
<tr>
<td></td>
<td>MID</td>
<td>SEMESTER</td>
</tr>
<tr>
<td>7</td>
<td>26 April</td>
<td>Public holiday</td>
</tr>
<tr>
<td>8</td>
<td>2 May</td>
<td>Nervous system</td>
</tr>
<tr>
<td>9</td>
<td>9 May</td>
<td>Endocrine system</td>
</tr>
<tr>
<td>10</td>
<td>16 May</td>
<td>Digestive system</td>
</tr>
<tr>
<td>11</td>
<td>23 May</td>
<td>Surface anatomy</td>
</tr>
<tr>
<td>12</td>
<td>30 May</td>
<td>Special senses</td>
</tr>
<tr>
<td>13</td>
<td>6 June</td>
<td>Somatic senses and motor control</td>
</tr>
</tbody>
</table>
Student Support

Macquarie University provides a range of support services for students. For details, visit http://students.mq.edu.au/support/

Learning Skills

Learning Skills (mq.edu.au/learningskills) provides academic writing resources and study strategies to improve your marks and take control of your study.

• Workshops
• StudyWise
• Academic Integrity Module for Students
• Ask a Learning Adviser

Disruption to Studies Policy http://www.mq.edu.au/policy/docs/disruption_studies/policy.html The Disruption to Studies Policy is effective from March 3 2014 and replaces the Special Consideration Policy.

In addition, a number of other policies can be found in the Learning and Teaching Category of Policy Central.

Student Code of Conduct

Macquarie University students have a responsibility to be familiar with the Student Code of Conduct: https://students.mq.edu.au/support/student_conduct/

Results

Results shown in iLearn, 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.
Graduate Capabilities

Creative and Innovative

Our graduates will also be capable of creative thinking and of creating knowledge. They will be imaginative and open to experience and capable of innovation at work and in the community. We want them to be engaged in applying their critical, creative thinking.

This graduate capability is supported by:

Learning outcome
- Apply the knowledge of anatomy within the clinical and research contexts and in the interpretation of medical imaging.

Assessment tasks
- Quiz
- Practical test 2
- Final Examination

Capable of Professional and Personal Judgement and Initiative

We want our graduates to have emotional intelligence and sound interpersonal skills and to demonstrate discernment and common sense in their professional and personal judgement. They will exercise initiative as needed. They will be capable of risk assessment, and be able to handle ambiguity and complexity, enabling them to be adaptable in diverse and changing environments.

This graduate capability is supported by:

Learning outcome
- Apply the knowledge of anatomy within the clinical and research contexts and in the interpretation of medical imaging.

Assessment tasks
- Quiz
Commitment to Continuous Learning

Our graduates will have enquiring minds and a literate curiosity which will lead them to pursue knowledge for its own sake. They will continue to pursue learning in their careers and as they participate in the world. They will be capable of reflecting on their experiences and relationships with others and the environment, learning from them, and growing - personally, professionally and socially.

This graduate capability is supported by:

**Learning outcomes**

- 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 fetal periods.
- Describe and identify the microscopic and macroscopic anatomy of all systems of the human body and explain their function and integration: Integumentary, Skeletal, Muscular, Cardiovascular, Lymphatic, Nervous, Endocrine, Respiratory, Digestive, Urinary, Reproductive.

**Assessment tasks**

- Quiz
- Practical test 1
- Practical test 2
- Final Examination

**Discipline Specific Knowledge and Skills**

Our graduates will take with them the intellectual development, depth and breadth of knowledge, scholarly understanding, and specific subject content in their chosen fields to make them competent and confident in their subject or profession. They will be able to demonstrate, where relevant, professional technical competence and meet professional standards. They will be able to articulate the structure of knowledge of their discipline, be able to adapt discipline-specific knowledge to novel situations, and be able to contribute from their discipline to inter-disciplinary solutions to problems.

This graduate capability is supported by:
Learning outcomes

• 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 fetal periods.
• Describe and identify the microscopic and macroscopic anatomy of all systems of the human body and explain their function and integration: Integumentary, Skeletal, Muscular, Cardiovascular, Lymphatic, Nervous, Endocrine, Respiratory, Digestive, Urinary, Reproductive.

Assessment tasks

• Quiz
• Practical test 1
• Practical test 2
• Final Examination

Critical, Analytical and Integrative Thinking

We want our graduates to be capable of reasoning, questioning and analysing, and to integrate and synthesise learning and knowledge from a range of sources and environments; to be able to critique constraints, assumptions and limitations; to be able to think independently and systemically in relation to scholarly activity, in the workplace, and in the world. We want them to have a level of scientific and information technology literacy.

This graduate capability is supported by:

Learning outcome

• Describe and identify the microscopic and macroscopic anatomy of all systems of the human body and explain their function and integration: Integumentary, Skeletal, Muscular, Cardiovascular, Lymphatic, Nervous, Endocrine, Respiratory, Digestive, Urinary, Reproductive.

Assessment tasks

• Quiz
• Practical test 1
• Practical test 2
• Final Examination
Problem Solving and Research Capability

Our graduates should be capable of researching; of analysing, and interpreting and assessing data and information in various forms; of drawing connections across fields of knowledge; and they should be able to relate their knowledge to complex situations at work or in the world, in order to diagnose and solve problems. We want them to have the confidence to take the initiative in doing so, within an awareness of their own limitations.

This graduate capability is supported by:

Learning outcome

• Apply the knowledge of anatomy within the clinical and research contexts and in the interpretation of medical imaging.

Assessment tasks

• Quiz
• Final Examination

Effective Communication

We want to develop in our students the ability to communicate and convey their views in forms effective with different audiences. We want our graduates to take with them the capability to read, listen, question, gather and evaluate information resources in a variety of formats, assess, write clearly, speak effectively, and to use visual communication and communication technologies as appropriate.

This graduate capability is supported by:

Learning outcome

• Adopt and be able to use anatomical terminology: define and understand the anatomical position, anatomical planes, sections and directional terms.

Assessment tasks

• Quiz
• Practical test 1
• Practical test 2
• Final Examination

Engaged and Ethical Local and Global citizens

As local citizens our graduates will be aware of indigenous perspectives and of the nation's historical context. They will be engaged with the challenges of contemporary society and with knowledge and ideas. We want our graduates to have respect for diversity, to be open-minded, sensitive to others and inclusive, and to be open to other cultures and perspectives: they should have a level of cultural literacy. Our graduates should be aware of disadvantage and social
justice, and be willing to participate to help create a wiser and better society.

This graduate capability is supported by:

**Learning outcome**

- Apply the knowledge of anatomy within the clinical and research contexts and in the interpretation of medical imaging.

**Assessment tasks**

- Quiz
- Final Examination

**Socially and Environmentally Active and Responsible**

We want our graduates to be aware of and have respect for self and others; to be able to work with others as a leader and a team player; to have a sense of connectedness with others and country; and to have a sense of mutual obligation. Our graduates should be informed and active participants in moving society towards sustainability.

This graduate capability is supported by:

**Learning outcome**

- Apply the knowledge of anatomy within the clinical and research contexts and in the interpretation of medical imaging.

**Assessment tasks**

- Quiz
- Practical test 1
- Practical test 2
- Final Examination

**Changes since First Published**

<table>
<thead>
<tr>
<th>Date</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>24/02/2016</td>
<td>&quot;Disruption of Studies Policy&quot; was added.</td>
</tr>
</tbody>
</table>