# HLTH213

## Anatomy of Head, Neck and Trunk

S1 Day 2015

*Dept of Chiropractic*

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## Disclaimer

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General Information

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

Credit points
3

Prerequisites
HLTH108(P)

Corequisites

Co-badge status

Unit description
This unit builds on the basic anatomy taught in 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, as well as clinical and applied anatomy are incorporated.

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:

- Demonstrate a comprehensive understanding of the anatomy of the head, neck and trunk including the structure and function of the bones, joints, muscle, venous and lymphatic drainage as well as nerve and bloody supply of these structures.
- Demonstrate an understanding of the embryology and age-related changes which occur in the structure and function of the head, neck and trunk.
- Demonstrate an ability to use basic anatomical knowledge of the head, neck and trunk as well as critical thinking and research skills to thoroughly evaluate theoretical clinical case studies.
- Demonstrate an ability to assess, interpret and explain radiographic, MRI and CT images of the head, neck and trunk using appropriate anatomical terminology.
- Demonstrate an appreciation for and respect of people who choose to bequeath their
Assessment Tasks

<table>
<thead>
<tr>
<th>Name</th>
<th>Weighting</th>
<th>Due</th>
</tr>
</thead>
<tbody>
<tr>
<td>Assignment 1</td>
<td>10%</td>
<td>Wednesday, 4 April</td>
</tr>
<tr>
<td>Assignment 2</td>
<td>10%</td>
<td>Wednesday, 27 May</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>
<tr>
<td>Final Examination</td>
<td>40%</td>
<td>Exam period</td>
</tr>
<tr>
<td>Attendance</td>
<td>0%</td>
<td>none</td>
</tr>
</tbody>
</table>

Assignment 1
Due: **Wednesday, 4 April**
Weighting: **10%**

Assignment topics will be given during the first lecture. The assignments will be a short essay related to selected topics in head and neck anatomy. It is to be written in a journal article format. Late submission will penalised at 10% per day or part thereof.

On successful completion you will be able to:

- Demonstrate a comprehensive understanding of the anatomy of the head, neck and trunk including the structure and function of the bones, joints, muscle, venous and lymphatic drainage as well as nerve and bloody supply of these structures.
- Demonstrate an understanding of the embryology and age-related changes which occur in the structure and function of the head, neck and trunk.
- Demonstrate an ability to use basic anatomical knowledge of the head, neck and trunk as well as critical thinking and research skills to thoroughly evaluate theoretical clinical case studies.
- Demonstrate an ability to assess, interpret and explain radiographic, MRI and CT images of the head, neck and trunk using appropriate anatomical terminology.
- Demonstrate an appreciation for and respect of people who choose to bequeath their body for research or teaching purposes.

Assignment 2
Due: **Wednesday, 27 May**
Assignment topics will be given during the first lecture. The assignments will be a short essay related to selected topics in anatomy of the trunk. It is to be written in a journal article format. Late submission will penalised at 10% per day or part thereof.

On successful completion you will be able to:

- Demonstrate a comprehensive understanding of the anatomy of the head, neck and trunk including the structure and function of the bones, joints, muscle, venous and lymphatic drainage as well as nerve and bloody supply of these structures.
- Demonstrate an understanding of the embryology and age-related changes which occur in the structure and function of the head, neck and trunk.
- Demonstrate an ability to use basic anatomical knowledge of the head, neck and trunk as well as critical thinking and research skills to thoroughly evaluate theoretical clinical case studies.
- Demonstrate an ability to assess, interpret and explain radiographic, MRI and CT images of the head, neck and trunk using appropriate anatomical terminology.
- Demonstrate an appreciation for and respect of people who choose to bequeath their body for research or teaching purposes.

**Practical Test 1**

*Due: Week 7*

Weighting: 20%

All identification activities conducted during the practical classes are examinable. These activities include identifying structures on images, bones, models, prosections, radiographs, CT and MRI images. There will be 14 stations, each with three identifications (questions). You will be allowed 1.5 minutes per station. Students are rotated through the 14 stations with one student per station.

On successful completion you will be able to:

- Demonstrate a comprehensive understanding of the anatomy of the head, neck and trunk including the structure and function of the bones, joints, muscle, venous and lymphatic drainage as well as nerve and bloody supply of these structures.
- Demonstrate an understanding of the embryology and age-related changes which occur in the structure and function of the head, neck and trunk.
- Demonstrate an ability to assess, interpret and explain radiographic, MRI and CT images of the head, neck and trunk using appropriate anatomical terminology.
• Demonstrate an appreciation for and respect of people who choose to bequeath their body for research or teaching purposes.

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

See description for practical test 1.

On successful completion you will be able to:
• Demonstrate a comprehensive understanding of the anatomy of the head, neck and trunk including the structure and function of the bones, joints, muscle, venous and lymphatic drainage as well as nerve and bloody supply of these structures.
• Demonstrate an understanding of the embryology and age-related changes which occur in the structure and function of the head, neck and trunk.
• Demonstrate an ability to assess, interpret and explain radiographic, MRI and CT images of the head, neck and trunk using appropriate anatomical terminology.
• Demonstrate an appreciation for and respect of people who choose to bequeath their body for research or teaching purposes.

Final Examination
Due: **Exam period**
Weighting: **40%**

The final examination will cover content from the entire semester. It will test knowledge and comprehension of theory. Questions will include multiple choice questions, true or false questions, annotated diagrams and short answer questions.

On successful completion you will be able to:
• Demonstrate a comprehensive understanding of the anatomy of the head, neck and trunk including the structure and function of the bones, joints, muscle, venous and lymphatic drainage as well as nerve and bloody supply of these structures.
• Demonstrate an understanding of the embryology and age-related changes which occur in the structure and function of the head, neck and trunk.
• Demonstrate an ability to use basic anatomical knowledge of the head, neck and trunk as well as critical thinking and research skills to thoroughly evaluate theoretical clinical case studies.
Attendance

Due: none
Weighting: 0%

In order to pass this unit, you must attend at least 80% of all practical and tutorial classes.

On successful completion you will be able to:

• Demonstrate a comprehensive understanding of the anatomy of the head, neck and trunk including the structure and function of the bones, joints, muscle, venous and lymphatic drainage as well as nerve and bloody supply of these structures.
• Demonstrate an understanding of the embryology and age-related changes which occur in the structure and function of the head, neck and trunk.
• Demonstrate an ability to use basic anatomical knowledge of the head, neck and trunk as well as critical thinking and research skills to thoroughly evaluate theoretical clinical case studies.
• Demonstrate an ability to assess, interpret and explain radiographic, MRI and CT images of the head, neck and trunk using appropriate anatomical terminology.
• Demonstrate an appreciation for and respect of people who choose to bequeath their body for research or teaching purposes.

Delivery and Resources

This unit is characterised by a moderate degree of flexibility. Material will be delivered through:

1. One 2-hour lecture, Tuesday 9-11am, Weeks 1-13
2. One 1-hour lecture, Thursday 9am-10am, Weeks 1-13
3. One 2-hour laboratory class per week, Weeks 1-13
4. One 1-hour tutorial class per week, Weeks 2-13
5. Three to four-hours per week self-instructional learning, set readings from the text and exercises on lecture topics

Class times and locations

Please enter your choice for practical and tutorial classes on e-student. Once you are on the attendance list for that practical, you may not change to another. If you appear at another practical, you will be turned away. Under exceptional circumstances, practical times can be changed, but ONLY if you have contacted the Scientific Officer, and have permission to make a swap.
**Unit guide** HLTH213 Anatomy of Head, Neck and Trunk

**Lectures (attend BOTH)**

<table>
<thead>
<tr>
<th>Day</th>
<th>Start</th>
<th>End</th>
<th>Duration</th>
<th>Room</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tuesday</td>
<td>09:00</td>
<td>11:00</td>
<td>2:00</td>
<td>E7B T3</td>
</tr>
<tr>
<td>Thursday</td>
<td>09:00</td>
<td>10:00</td>
<td>1:00</td>
<td>E7B T3</td>
</tr>
</tbody>
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**Practical class - Wednesday (attend ONE)**

<table>
<thead>
<tr>
<th>Type</th>
<th>Start</th>
<th>End</th>
<th>Duration</th>
<th>Room</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wet lab 1</td>
<td>09:00</td>
<td>11:00</td>
<td>2-hours</td>
<td>F10A lab (ASAM)</td>
</tr>
<tr>
<td>Wet lab 2</td>
<td>11:00</td>
<td>13:00</td>
<td>2-hours</td>
<td>F10A lab (ASAM)</td>
</tr>
<tr>
<td>Wet lab 3</td>
<td>13:00</td>
<td>15:00</td>
<td>2-hours</td>
<td>F10A lab (ASAM)</td>
</tr>
</tbody>
</table>

**Tutorial class - Thursday (attend ONE)**

<table>
<thead>
<tr>
<th>Type</th>
<th>Start</th>
<th>End</th>
<th>Duration</th>
<th>Room</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tutorial 1</td>
<td>10:00</td>
<td>11:00</td>
<td>1-hour</td>
<td>E5A 230</td>
</tr>
<tr>
<td>Tutorial 2</td>
<td>11:00</td>
<td>12:00</td>
<td>1-hour</td>
<td>W6B 350</td>
</tr>
<tr>
<td>Tutorial 3</td>
<td>12:00</td>
<td>13:00</td>
<td>1-hour</td>
<td>C5A 226</td>
</tr>
<tr>
<td>Tutorial 4</td>
<td>13:00</td>
<td>14:00</td>
<td>1-hour</td>
<td>E5A 230</td>
</tr>
</tbody>
</table>

**Unit website**

You can log in to the iLearn website for this unit through [ilearn.mq.edu.au](http://ilearn.mq.edu.au)

All lectures will be posted on the iLearn website for this unit. You will also find a link to Echo 360 recordings of the lectures on this website.

**Required and recommended resources**

**Core:**
- HLTH213 Course Manual – available at Co-op bookshop. Macquarie University Printery (required)
Unit guide HLTH213 Anatomy of Head, Neck and Trunk


**Further Reading:**

- Hansen JT. *Netter’s Anatomy Flash Cards: with student consult online access* 2nd ed. Saunders, 2006.

**Websites (correct and functional as of 15th January, 2014):**

- [http://classroom.sdmesa.edu/anatomy/images/Head3B/Head_sagnerv_labeljpg.jpg](http://classroom.sdmesa.edu/anatomy/images/Head3B/Head_sagnerv_labeljpg.jpg)
  A labelled sagittal model of the brain

  A tutorial designed to teach you about various parts of the brain’s structure and function by the University of Central Florida

- [http://science.tjc.edu/images/heart_model/](http://science.tjc.edu/images/heart_model/)
  Labelled images of the heart by P. Gregory of Tyler Junior College

  An osteology quiz by Suny Downstate Medical Center. Clicking on the links at the top of the page will also lead you to numerous other resources.

  This website contains links to numerous online medical texts,

- [http://msjensen.cehd.umn.edu/webanatomy](http://msjensen.cehd.umn.edu/webanatomy)
  This website by the University of Minnesota contains tests you can use to assess yourself on various topics in anatomy.
An online tutorial of the anatomy of skeletal muscle.

An online website containing images and textual information on regional anatomy as well as practice questions. By Wes Norman PhD DSc, formerly of Georgetown University.

Online osteology tutorials by J Crimando PhD of GateWay Community College, Phoenix, Arizona.

This website contains downloadable slides and quizzes on the osteology of the head, neck and trunk as well as on the upper and lower extremities.

An online anatomy atlas.

An online human anatomy and physiology textbook.

A list of anatomy mnemonics.

This website contains information about the heart and cardiovascular system.

A link to the National Institutes of Health Visible Human Project. This is an attempt to create a complete, three-dimensional representation of the normal human body.

Changes to this offering
No substantive changes have been made to the offering of this unit in 2014.

## Unit Schedule

<table>
<thead>
<tr>
<th>Week</th>
<th>Lectures (Tues &amp; Thurs)</th>
<th>Practical class (Wed)</th>
<th>Tutorial (Thurs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>03/03.</td>
<td>1. Introduction to the unit. Osteology</td>
<td>Skull, Cervical vertebrae</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2. Musculoskeletal features of head and neck</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>3. Musculoskeletal features of head and neck</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>10/03.</td>
<td>1. Temporomandibular joint</td>
<td>Muscles of head and neck</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2. Vascular features of the head and neck</td>
<td>TMJ and scalp</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3. Vascular features of the head and neck</td>
<td>Osteology, Muscles of head and neck</td>
</tr>
<tr>
<td>3</td>
<td>17/03.</td>
<td>1. Lymphatic features of the head and neck</td>
<td>Blood vessels of head and neck, meninges and dural venous sinuses</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2. Cranial nerves – an overview</td>
<td>Blood vessels and lymphatics of head and neck</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3. Cranial nerves – an overview</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>24/03.</td>
<td>1. Cervical plexus and nerves, sympathetic supply</td>
<td>Nerve supply of head and neck</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2. Parotid, temporal and infratemporal regions, pterygopalatine fossa</td>
<td>Nerve supply of head and neck</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3. Nose and paranasal sinuses</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>31/03.</td>
<td>1. Pharynx,</td>
<td>Parotid, temporal &amp; infratemporal regions, TMJ</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2. Larynx and the anatomy of phonation</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>3. Oral cavity</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>07/04.</td>
<td>1. Revision</td>
<td>Nose, paranasal sinuses, Pharynx and larynx</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2. Oral cavity 2</td>
<td>Nose and paranasal sinuses</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3. Embryology of the structures of the head and neck</td>
<td>Assignment due Thursday 10/04/2014</td>
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</table>

Midsemester break
## Policies and Procedures

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


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### HLTH213 Anatomy of Head, Neck and Trunk

<table>
<thead>
<tr>
<th>Date</th>
<th>Topic</th>
<th>Practical Test 1</th>
<th>Oral cavity</th>
</tr>
</thead>
<tbody>
<tr>
<td>7 28/04</td>
<td>Revision</td>
<td></td>
<td>Trunk wall: abdomen</td>
</tr>
<tr>
<td></td>
<td>Trunk wall: thorax</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Trunk wall: abdomen</td>
<td></td>
<td></td>
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<table>
<thead>
<tr>
<th>Date</th>
<th>Topic</th>
<th>Practical Test 1</th>
<th>Oral cavity</th>
</tr>
</thead>
<tbody>
<tr>
<td>8 05/05</td>
<td>Viscera of the thorax</td>
<td>Thoracic and abdominal walls</td>
<td>Trunk walls of thorax and abdomen</td>
</tr>
<tr>
<td></td>
<td>Viscera of the thorax</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Viscera of the thorax</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Date</th>
<th>Topic</th>
<th>Practical Test 1</th>
<th>Oral cavity</th>
</tr>
</thead>
<tbody>
<tr>
<td>9 12/05</td>
<td>Abdominal cavity and peritoneum</td>
<td>Viscera of the thorax, lungs and mediastinum</td>
<td>Viscera of thorax – lungs and mediastinum</td>
</tr>
<tr>
<td></td>
<td>Viscera of abdomen</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Viscera of abdomen</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Date</th>
<th>Topic</th>
<th>Practical Test 1</th>
<th>Oral cavity</th>
</tr>
</thead>
<tbody>
<tr>
<td>10 19/05</td>
<td>Viscera of abdomen</td>
<td>Viscera of abdomen – GIT and related organs</td>
<td>Viscera of abdomen – GIT</td>
</tr>
<tr>
<td></td>
<td>Viscera of abdomen</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pelvis and perineum</td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Date</th>
<th>Topic</th>
<th>Practical Test 1</th>
<th>Oral cavity</th>
</tr>
</thead>
<tbody>
<tr>
<td>11 26/05</td>
<td>Pelvis and perineum</td>
<td>Pelvis and perineum</td>
<td>Pelvis and perineum</td>
</tr>
<tr>
<td></td>
<td>Neurovascular supply, lymphatic drainage of trunk</td>
<td>Neurovascular/lymphatic supply of trunk</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Urinary System</td>
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<table>
<thead>
<tr>
<th>Date</th>
<th>Topic</th>
<th>Practical Test 1</th>
<th>Oral cavity</th>
</tr>
</thead>
<tbody>
<tr>
<td>12 02/06</td>
<td>Reproductive system</td>
<td>Urinary and reproductive system</td>
<td>Urinary and reproductive system</td>
</tr>
<tr>
<td></td>
<td>Reproductive system</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Embryology of trunk</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Date</th>
<th>Topic</th>
<th>Practical Test 2</th>
<th>Oral cavity</th>
</tr>
</thead>
<tbody>
<tr>
<td>13 09/06</td>
<td>Revision of the trunk</td>
<td></td>
<td>Test 2 results and discussion</td>
</tr>
<tr>
<td></td>
<td>Revision head and neck</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Revision head and neck</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>


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/](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](http://ask.mq.edu.au).

**Student Support**

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

**Learning Skills**

Learning Skills ([mq.edu.au/learningskills](http://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

**Student Services and Support**

Students with a disability are encouraged to contact the Disability Service who can provide appropriate help with any issues that arise during their studies.

**Student Enquiries**

For all student enquiries, visit Student Connect at  [ask.mq.edu.au](http://ask.mq.edu.au)

**IT Help**


When using the University's IT, you must adhere to the Acceptable Use Policy. The policy
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

• Demonstrate an understanding of the embryology and age-related changes which occur in the structure and function of the head, neck and trunk.

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

• Demonstrate an appreciation for and respect of people who choose to bequeath their body for research or teaching purposes.

Assessment tasks

• Practical Test 1
• Practical Test 2
• Attendance

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 outcome

• Demonstrate an ability to assess, interpret and explain radiographic, MRI and CT images
of the head, neck and trunk using appropriate anatomical terminology.

**Assessment tasks**

- Assignment 1
- Practical Test 1
- Practical Test 2
- Attendance

**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**

- Demonstrate a comprehensive understanding of the anatomy of the head, neck and trunk including the structure and function of the bones, joints, muscle, venous and lymphatic drainage as well as nerve and bloody supply of these structures.
- Demonstrate an understanding of the embryology and age-related changes which occur in the structure and function of the head, neck and trunk.
- Demonstrate an ability to use basic anatomical knowledge of the head, neck and trunk as well as critical thinking and research skills to thoroughly evaluate theoretical clinical case studies.
- Demonstrate an ability to assess, interpret and explain radiographic, MRI and CT images of the head, neck and trunk using appropriate anatomical terminology.

**Assessment tasks**

- Assignment 1
- Practical Test 1
- Practical Test 2
- Final Examination
- Attendance

**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:

**Assessment tasks**

- Practical Test 1
- Practical Test 2
- Attendance

**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 outcomes**

- Demonstrate an understanding of the embryology and age-related changes which occur in the structure and function of the head, neck and trunk.
- Demonstrate an ability to use basic anatomical knowledge of the head, neck and trunk as well as critical thinking and research skills to thoroughly evaluate theoretical clinical case studies.
- Demonstrate an ability to assess, interpret and explain radiographic, MRI and CT images of the head, neck and trunk using appropriate anatomical terminology.

**Assessment tasks**

- Assignment 1
- 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 outcomes

• Demonstrate an ability to use basic anatomical knowledge of the head, neck and trunk as well as critical thinking and research skills to thoroughly evaluate theoretical clinical case studies.

• Demonstrate an ability to assess, interpret and explain radiographic, MRI and CT images of the head, neck and trunk using appropriate anatomical terminology.

Assessment tasks

• Assignment 1
• Practical Test 1
• Practical Test 2
• Final Examination
• Attendance

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

• Demonstrate an appreciation for and respect of people who choose to bequeath their body for research or teaching purposes.

Assessment tasks

• Practical Test 1
• Practical Test 2

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

• Demonstrate an appreciation for and respect of people who choose to bequeath their body for research or teaching purposes.