ANAT2004
Neuroanatomy
Session 2, In person-scheduled-weekday, North Ryde 2022
Department of Chiropractic

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General Information

Unit convenor and teaching staff
Convenor
Stephney Whillier
stephney.whillier@mq.edu.au
Contact via 9850 9387
75 Talavera road, room 2240
This is best arranged via email

Credit points
10

Prerequisites
HLTH108 or ANAT1001 or COGS1000

Corequisites

Co-badged status

Unit description
This unit builds on the basic anatomy taught in ANAT1001. It focuses on the structure and function of the nervous system. 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:

ULO1: Describe in detail the organisation, structure and interconnected function of the nervous system
ULO2: Relate your structural knowledge of the nervous system to its embryological development.
ULO3: Trace somatic and autonomic sensory and motor pathways
ULO4: Extend your acquired knowledge of neuroanatomy to discuss, evaluate and interpret clinical case studies and published research.
ULO5: Show that you are competent in analysing, interpreting and assessing relevant anatomical structures on images, photographs, bones, models, prosections, normal radiographs, MRI and CT scans.

ULO6: Show an appreciation and respect for those who have bequeathed their bodies to research

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>

Late submission of time sensitive tasks, such as timetabled tests/exams, scheduled performance assessments/presentations, scheduled practical assessments/labs, will be addressed by the unit
convenor in a Special consideration application.

Special Consideration

If you are unable to complete an assessment task on or by the specified date due circumstances that are unexpected, unavoidable, significantly disruptive and beyond your control, you may apply for special consideration in accordance with the special consideration policy. Applications for special consideration must be supported by appropriate evidence and submitted via ask.mq.edu.au.

Assessment Tasks Description

1. Nine (9) quizzes: to be completed online in WEEKS 3, 4, 5, 6, 7, 9, 10, 11, 12 that will test lecture material of the previous week/s. See the schedule above for details on content that is covered by looking at the previous week/s lecture content.

The format will be multiple choice questions or fill in the missing word/s. Each quiz will open on Monday at 8am and close on Sunday at 11pm. The first quiz will be posted on Monday of week 3. There will be absolutely no opportunity to submit a quiz after the closing time as answers are released at that point. If you have technical difficulties, email your answers to your convenor and they will be manually marked. If you email these after the closing time, they will not be marked. The quizzes will have a time limit of 10 minutes, and there will be only one submission per student.

The resultant mark will be an AVERAGE of the 9 quiz marks (please note, NOT best x of 9).

2. Participation Task: Weekly attendance and participation in both practicals and tutorials will be recorded. In addition, students will present a short presentation in the tutorial (10%).

Presentation: A strictly two-minute lesson in the tutorial on any one small aspect of the previous week’s lecture content. The intent is to TEACH the concept in your own words, simply, in any creative way to make your audience understand it. You can use PowerPoint, the whiteboard, props/models you make, music, dance, movement – anything you like to ensure the meaning is clear. Please be sure to consult the rubric to see how marks are allocated for this task. The presentation must fit into 2 minutes, and will be stopped at 2 minutes.

<table>
<thead>
<tr>
<th>Assessed</th>
<th>Unsatisfactory (mark: 0 – 1)</th>
<th>Satisfactory (mark: 2)</th>
<th>Good (mark: 3)</th>
<th>Excellent (mark: 4)</th>
</tr>
</thead>
</table>

https://unitguides.mq.edu.au/unit_offerings/149342/unit_guide/print
Presented Information

Presented content is mostly or completely incorrect.

Content has some large mistakes.

Content mostly correct with a few small mistakes.

All presented information is correct.

Choice of topic

A simple topic not conveyed simply or not in own words.

A simple topic conveyed simply and in own words.

A difficult or complex topic not conveyed simply or not in own words.

A difficult or complex topic told simply in own words.

Originality and creativity

No use of aids to enhance meaning. No attempt at originality or creativity.

Some originality and creativity shown, but does not enhance meaning or understanding.

Originality and creativity good, with moderate enhancement of understanding.

Very original and creative, and all aspects add to the understanding.

Meaning and understanding

Not understandable.

Somewhat understandable.

Understandable.

Very understandable.

Overall presentation

Unsatisfactory.

Satisfactory.

Good.

Excellent.

Total/20

3. Final examination: This will cover the content of the entire semester. It tests knowledge of the theory, and the ability to connect that knowledge to real life situations (e.g., case studies). It will consist of a 2 hour written exam with multiple choice questions and short answer questions.

4. Practical test: All identification activities conducted during the practical class are examinable, and include identifying structures on images, bones, models, prosections, radiographs, MRI and CT images. A written examination.

Returning Assessment Tasks

1. Quizzes: feedback is on closure of the quiz for that week.

2. Presentation: individual written feedback will be provided via the tutor’s marked rubric.

3. Practical exam: Papers will not be returned but marks will be given out prior to the final theory
### Assessment Tasks

<table>
<thead>
<tr>
<th>Name</th>
<th>Weighting</th>
<th>Hurdle</th>
<th>Due</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tutorial quizzes</td>
<td>25%</td>
<td>No</td>
<td>weeks 3 - 7, 9 - 12</td>
</tr>
<tr>
<td>Weekly tutorial participation task</td>
<td>10%</td>
<td>No</td>
<td>Weekly</td>
</tr>
<tr>
<td>Final Written Examination</td>
<td>45%</td>
<td>No</td>
<td>Examination Period</td>
</tr>
<tr>
<td>Practical Spot Exam</td>
<td>20%</td>
<td>No</td>
<td>Week 12</td>
</tr>
</tbody>
</table>

#### Tutorial quizzes

**Assessment Type**: Quiz/Test  
**Indicative Time on Task**: 18 hours  
**Due**: weeks 3 - 7, 9 - 12  
**Weighting**: 25%

#### Weekly tutorial participation task

**Assessment Type**: Participatory task  
**Indicative Time on Task**: 6 hours  
**Due**: Weekly  
**Weighting**: 10%

On successful completion you will be able to:

- Describe in detail the organisation, structure and interconnected function of the nervous system.
- Relate your structural knowledge of the nervous system to its embryological development.
- Trace somatic and autonomic sensory and motor pathways.
- Extend your acquired knowledge of neuroanatomy to discuss, evaluate and interpret clinical case studies and published research.

#### Final Written Examination

**Due**: Examination Period  
**Weighting**: 45%

#### Practical Spot Exam

**Due**: Week 12  
**Weighting**: 20%

4. Examination: Papers will not be returned. Marks will be made available on iLearn.
Students will present a short presentation in tutorial, and this plus their weekly participation in the tutorials constitutes the participatory task.

On successful completion you will be able to:

- Describe in detail the organisation, structure and interconnected function of the nervous system.
- Relate your structural knowledge of the nervous system to its embryological development.
- Trace somatic and autonomic sensory and motor pathways.
- Extend your acquired knowledge of neuroanatomy to discuss, evaluate and interpret clinical case studies and published research.
- Show that you are competent in analysing, interpreting and assessing relevant anatomical structures on images, photographs, bones, models, prosections, normal radiographs, MRI and CT scans.
- Show an appreciation and respect for those who have bequeathed their bodies to research.

Final Written Examination

Assessment Type 1: Examination
Indicative Time on Task 2: 29 hours
Due: Examination Period
Weighting: 45%

This will cover the content of the entire semester.

On successful completion you will be able to:

- Describe in detail the organisation, structure and interconnected function of the nervous system.
- Relate your structural knowledge of the nervous system to its embryological development.
- Trace somatic and autonomic sensory and motor pathways.
- Extend your acquired knowledge of neuroanatomy to discuss, evaluate and interpret clinical case studies and published research.
**Practical Spot Exam**

Assessment Type 1: Examination  
Indicative Time on Task 2: 10 hours  
Due: **Week 12**  
Weighting: **20%**

Practical examination assessing knowledge of the nervous system by identifying structures on models, prosections, images, bones, radiographs, MRI and CT images. A written examination.

On successful completion you will be able to:

- Describe in detail the organisation, structure and interconnected function of the nervous system
- Show that you are competent in analysing, interpreting and assessing relevant anatomical structures on images, photographs, bones, models, prosections, normal radiographs, MRI and CT scans.
- Show an appreciation and respect for those who have bequeathed their bodies to research

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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 face-to-face practicals, face-to-face tutorials, readings and online PowerPoint and pre-recordings of lectures. Details can be found on the iLearn site for this unit.

Recommended Readings are detailed in the manual which can be downloaded from iLearn.

**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.
Delivery mode

1. 1 × 2h pre-recorded lecture and 1 × 1 hour pre-recorded lecture per week, available on ECHO, weeks 1 - 12
2. 1× 2h laboratory practical class per week, weeks 2 - 12: Students must register for a practical slot on e-student
3. 1 × 1 hour tutorial class per week, weeks 2 - 12: Students must register for a tutorial slot on e-student
4. 2 – 3 hours per week revision, completing the weekly Haines Atlas reading tasks in the laboratory manual, preparing for the laboratory practical and tutorial, self-instructional learning and readings from the text.

Class times and locations

1. Online Pre-recorded Lectures: Tuesday 9 – 11am and Wednesday 4 - 5pm
3. On campus Tutorials: Choose one of the following: Wednesday 9 – 10, 10 – 11, 11- 12 (12 Second Way, 229), 1 – 2 or 2 - 3 (8 SCO, 117); OR Thursday 11 – 12 (9WW, 131)), 12 – 1 (4 Western, 335), 2 – 3, 3 – 4, 4 – 5 (8SCO, 114). Note that venues are subject to change, so please consult e-student for up-to-date venues.

Unit Web Page

You can log in to iLearn System through [http://learn.mq.edu.au](http://learn.mq.edu.au)

All lectures materials will be posted on iLearn. The Audiovisual recording will be available on ECHO on iLearn.

Required and recommended resources

Required:

- ANAT2004 Laboratory Course Manual – available as a download on iLearn
Recommended:


**A note about textbooks:**

Textbooks for this unit can be purchased online from Booktopia [https://www.booktopia.com.au/coop](https://www.booktopia.com.au/coop)

The list of Macquarie University S2 2022 units and texts can be found on the [Booktopia website](https://www.booktopia.com.au).

**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](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

https://unitguides.mq.edu.au/unit_offerings/149342/unit_guide/print
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.