MEDI8103
Applied Medical Science 2
Session 2, In person-scheduled-weekday, North Ryde 2022

Medicine, Health and Human Sciences Faculty level units

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General Information

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Credit points
20

Prerequisites
(MEDI910 or MEDI8100) and (MEDI911 or MEDI8101) and (MEDI912 or MEDI8102)

Corequisites
(MEDI914 or MEDI8104) and (MEDI915 or MEDI8105)

Co-badged status

Unit description
This is the second unit in the Applied Medical Sciences component of the Macquarie MD Course. In this unit you will develop a foundational understanding of the biomedical sciences behind the body systems. You will study how the disciplines of anatomy, physiology, biochemistry, cell biology, pathology, microbiology, immunology and pharmacology contribute to the structure and function of normal body systems, and how these may be altered in common disease states. You will evaluate clinical case studies individually and in small groups to identify questions and learning needs and will draw upon evidence from a range of sources to articulate responses to clinical scenarios. Learning activities will include lectures, interactive practical sessions, online activities, and team based learning sessions. Through this unit you will develop the foundational medical science knowledge needed to be an effective future clinical practitioner.
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: Apply knowledge of the biomedical sciences (anatomy, physiology, biochemistry, cell biology, pathology, microbiology, immunology and pharmacology) to explain optimal health. (Capability 1: Scientist and Scholar)

ULO2: Apply knowledge of the biomedical sciences (anatomy, physiology, biochemistry, cell biology, pathology, microbiology, immunology and pharmacology) that underpin common or clinically significant disease states. (Capability 1: Scientist and Scholar)

ULO3: Explain pharmacological properties and mechanisms of standard treatments. (Capability 1: Scientist and Scholar)

ULO4: Explain scientific and clinical information effectively using the most appropriate scientific sources. (Capability 1: Scientist and Scholar)

ULO5: Demonstrate competency in formulating relevant clinical questions about diagnosis, prognosis and treatment of conditions for which people seek healthcare. (Capability 1: Scientist and Scholar)

ULO6: Explain how psychological, social and cultural issues affect the health of individuals and populations and how these might be mediated, while respecting diversity. (Capability 3: Engaged Global Citizen)

General Assessment Information
Detailed information regarding the assessment of the Macquarie MD and unit-specific assessment is available on the MQMDAssess Macquarie MD Assessment iLearn site.

Grading
In this unit examinations will be numerically graded with a standardised mark out of 100. The numeric marks for the assessment examinations are weighted according to their contribution, and used to calculate the overall Unit aggregate. Unit outcomes based on the unit aggregate will be reported to the University using the standard Macquarie grades (High distinction, Distinction, Credit, Pass, Fail). A single numerical grade (SNG) will be reported for each University grade. The conversion of the aggregate to SNG are available in the Macquarie MD Rules of Assessment and Progression document posted in the Policies and Guidelines section of the MDCU Doctor of Medicine Community iLearn site.

All final grades in the Macquarie MD are reviewed by the MD Course Board and Faculty Assessment Committee and ratified by the Faculty of Medicine, Health and Human Sciences
Faculty Board. Therefore, they are not the sole responsibility of the Unit Convenor. To pass this unit, you must demonstrate sufficient evidence of achievement of the learning outcomes, achieve a final mark of 50 or better, and meet any ungraded requirements, which includes professionalism.

**Extensions for Assessment tasks**

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 via [https://ask.mq.edu.au/](https://ask.mq.edu.au/).

**Professional Expectations**

Professionalism is a key capability embedded in the Macquarie MD. Professional Behaviour Notifications (PBN) which can be a breach (PBNB) or a commendation (PBNC) may be awarded. PBNs will be recorded in the student's portfolio. As part of developing professionalism, Macquarie MD students are expected to attend all small group interactive sessions including clinical, practical, laboratory and team-based learning activities. If attendance is deemed to be of concern, the student will be referred to the Stage 1 Lead for remediation and recording in the portfolio. Similarly, as part of developing professionalism, Macquarie MD students are expected to submit all work by the due date. Late submission without prior approved extension will result in a professional behaviour notification- breach (PBNB) in the portfolio.

**Assessment Tasks**

<table>
<thead>
<tr>
<th>Name</th>
<th>Weighting</th>
<th>Hurdle</th>
<th>Due</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mid-session examination</td>
<td>40%</td>
<td>No</td>
<td>Week 7</td>
</tr>
<tr>
<td>End of session examination</td>
<td>60%</td>
<td>No</td>
<td>Week 14-16 (Exam Period)</td>
</tr>
</tbody>
</table>

**Mid-session examination**

Assessment Type 1: Examination  
Indicative Time on Task 2: 40 hours  
Due: Week 7  
Weighting: 40%

The mid-session examination will assess content delivered during the first half of the session. The examination will consist of multiple choice and short answer questions which will be mapped to capability aspects. Results overall and for focused capability aspects will be recorded in your Macquarie Assessment Portfolio.

On successful completion you will be able to:

- Apply knowledge of the biomedical sciences (anatomy, physiology, biochemistry, cell biology, pathology, microbiology, immunology and pharmacology) to explain optimal health. (Capability 1: Scientist and Scholar)
End of session examination

Assessment Type: Examination
Indicative Time on Task: 60 hours
Due: Week 14-16 (Exam Period)
Weighting: 60%

The end of session examination will assess content delivered during the session. The examination will consist of multiple choice and short answer questions which will be mapped to capability aspects. Results overall and for focused capability aspects will be recorded in your Macquarie Assessment Portfolio.

On successful completion you will be able to:

- Apply knowledge of the biomedical sciences (anatomy, physiology, biochemistry, cell biology, pathology, microbiology, immunology and pharmacology) to explain optimal health. (Capability 1: Scientist and Scholar)
- Apply knowledge of the biomedical sciences (anatomy, physiology, biochemistry, cell biology, pathology, microbiology, immunology and pharmacology) that underpin common or clinically significant disease states. (Capability 1: Scientist and Scholar)
- Explain pharmacological properties and mechanisms of standard treatments. (Capability 1: Scientist and Scholar)
- Explain scientific and clinical information effectively using the most appropriate scientific sources. (Capability 1: Scientist and Scholar)
- Demonstrate competency in formulating relevant clinical questions about diagnosis, prognosis and treatment of conditions for which people seek healthcare. (Capability 1: Scientist and Scholar)
- Explain how psychological, social and cultural issues affect the health of individuals and populations and how these might be mediated, while respecting diversity. (Capability 3: Engaged Global Citizen)
Scientist and Scholar)

• Explain how psychological, social and cultural issues affect the health of individuals and populations and how these might be mediated, while respecting diversity. (Capability 3: Engaged Global Citizen)

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
This unit assumes that you have a comprehensive knowledge of Human Anatomy and Physiology. As a student enrolled in this unit, you will engage in a range of online and face-to-face learning activities, including readings, online modules, videos, lectures, laboratories, practicals and tutorials. During the week you will complete 6 hours of lectures, a 2 hour practical session, and a 2 hour clinical colloquium session. Details can be found on the iLearn site for this unit.

Technology Used
You will require a tablet, laptop or similar device to effectively participate in learning activities.

Recommended readings
The following texts are recommended. Copies are available through the library

Available as hard copies in MQ Library


Available electronically via MQ Library and ClinicalKey Student

• Ralston et al (2018) Davidson’s Principles and Practice of Medicine (23rd Ed.).
• Guyton & Hall. (2021) Textbook of Medical Physiology (14th Ed.).
• Rang et al (2020). Rang and Dale’s Pharmacology (9th Ed.).
• Baynes & Dominiczak (2018). Medical Biochemistry (5th Ed.).
• Kumar et al. Robbins and Cotran Pathologic Basis of Disease (9th Ed.).
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/](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/](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, and team-based learning activities. Some learning activities are recorded, 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.