PHTY8101

Applied Sciences for Physiotherapy B

Session 2, Special circumstance, North Ryde 2020

Department of Health Professions

Contents

Notice

As part of Phase 3 of our return to campus plan, most units will now run tutorials, seminars and ot her small group learning activities on campus for the second half-year, while keeping an online ver sion available for those students unable to return or those who choose to continue their studies onli ne.

To check the availability of face-to-face and onlin e activities for your unit, please go to timetable vi ewer. To check detailed information on unit asses sments visit your unit's iLearn space or consult yo ur unit convenor.

General Information

Unit convenor and teaching staff
Tutor
Victoria Podmore
victoria.podmore@mq.edu.au
75T
Friday

Tutor
Kelly Gray
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75T
Friday

Tutor
Jeremy Bernal Salcedo
jeremy.bernalsalcedo@mq.edu.au
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Wednesday

Joanne Glinsky
joanne.glinsky@mq.edu.au

Taryn Jones
taryn.jones@mq.edu.au

Credit points
10

Prerequisites
Admission to DPT

Corequisites

Co-badged status

Unit description
This unit will build upon your prerequisite and assumed knowledge with a focus on movement science in the context of physiotherapy. You will utilise skills in clinical observation and measurement of human performance to analyse the biomechanical and anatomical characteristics of everyday activities in healthy persons and those with health conditions. Using the World Health Organisation's International Classification of Functioning, Disability and Health as a model of clinical reasoning you will apply strategies to manage common impairments, and promote skill acquisition within the context of motor learning, to optimise human movement and participation.

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 proficient knowledge of anatomy to accurately describe and analyse everyday activities. (Scientist & Scholar)
ULO2: Describe the biomechanical characteristics of performance of common everyday activities in healthy persons across the lifespan. (Scientist & Scholar)
ULO3: Utilise clinical observation and measurement skills to identify adaptive behaviours during the performance of everyday activities, and apply sound clinical reasoning and assessment skills to determine the underlying impairments. (Clinical Practitioner)
ULO4: Competently select, perform and interpret tests commonly used in physiotherapy practice to assess human performance, applying strategies to enhance the reliability and validity of specific measurement procedures. (Clinical Practitioner)
ULO5: Design and progress an evidence-based exercise program to enhance motor learning and performance that considers impairments, goals and preferences, as well as social and behavioural factors alongside cultural background. (Clinical Practitioner)

General Assessment Information

Information concerning Macquarie University's assessment policy is available at http://mq.edu.au/policy/docs/assessment/policy_2016.html. Grade descriptors and other information concerning grading requirements are contained in Schedule 1 of the Macquarie University Assessment Policy.

To pass this unit, students must demonstrate sufficient evidence of achievement of the learning outcomes. Further details for each assessment task will be available on iLearn, including marking rubrics.

All final grades in the Faculty of Medicine, Health and Human Sciences are determined by the Faculty of Medicine, Health and Human Sciences Assessment Committee, and are approved by the Faculty Board. They are not the sole responsibility of the Unit Convenor. Students will be awarded an Assessment Grade plus a Standardised Numerical Grade (SNG). The SNG is not necessarily a summation of the individual assessment components. The final grade and SNG that are awarded reflect the corresponding grade descriptor in Schedule 1 of the Assessment Policy.

Students will be awarded one of these grades plus a Standardised Numerical Grade (SNG). The SNG is not necessarily a summation of the individual assessment components. The final grade and SNG that are awarded reflect the corresponding grade descriptor in Schedule 1 of the Assessment Policy. If there is a lack of sufficient evidence demonstrating that a student has met the required level of achievement in all learning outcomes they will be awarded a Fail grading with an assigned mark of 49 or less.

Extensions for Assessment Tasks

Applications for assessment task extensions may be considered for short-term, unexpected, serious, and unavoidable circumstances affecting assessment. Applications must be submitted via www.ask.mq.edu.au. For further details please refer to the Disruption to Studies Policy available at https://students.mq.edu.au/study/my-study-program/special-consideration/disruption-to-studies

Late Submission of Work

All assignments which are officially received after the due date, and where no extension has been granted by the Unit Convenor, will incur a deduction of 10% of the overall assessment weighting for the first day, and 10% for each subsequent day, including the actual day on which the work is received. Assessments received 5 days or more beyond the due date, without an approved extension, will be awarded a maximum of 50% of the overall assessment marks. Weekends and public holidays are included. For example:

Due Date	Received	Days Late	Deduction	Raw Mark	Final Mark
Friday, 14th	Monday 17th	3	30%	75	45

Hurdle Assessment

The PHTY8101 Mastery Register is a hurdle assessment task. A hurdle requirement is an activity for which a minimum level of performance or participation is a condition of passing the unit in which it occurs. **Students are required to achieve 60% completion of the Mastery Register by the due date to successfully complete the unit**. A student who has obtained a SNG over 50, yet failed the hurdle assessment, fails the unit. Please see Macquarie University's assessment policy for more information about hurdle assessment tasks.

Assessment Tasks

Name	Weighting	Hurdle	Due
Mastery register	0%	Yes	Continuous
Online Quiz 1	20%	No	Week 4
Online Quiz 2	20%	No	Week 8
Viva Examination	30%	No	Week 14/15/16
Clinical skills evaluation	30%	No	Week 14/15/16

Mastery register

Assessment Type [1]: Clinical performance evaluation
Indicative Time on Task [2]: 12 hours
Due: **Continuous**
Weighting: **0%**
This is a hurdle assessment task (see assessment policy for more information on hurdle assessment tasks)

The mastery register for PHTY8101 is a list of key skills in which competence is considered to be a requirement for the assurance of quality physiotherapy practice for registration. You must demonstrate a minimum level of competence in these skills as a condition of passing this unit by achieving 60% completion of the mastery register in order to successfully complete the unit.

On successful completion you will be able to:

- Apply proficient knowledge of anatomy to accurately describe and analyse everyday activities. (Scientist & Scholar)
- Competently select, perform and interpret tests commonly used in physiotherapy practice to assess human performance, applying strategies to enhance the reliability and validity of specific measurement procedures. (Clinical Practitioner)
- Design and progress an evidence-based exercise program to enhance motor learning and performance that considers impairments, goals and preferences, as well as social and behavioural factors alongside cultural background. (Clinical Practitioner)

Online Quiz 1

Assessment Type [1]: Quiz/Test

Indicative Time on Task [2]: 10 hours
Due: **Week 4**
Weighting: **20%**

The online quiz will include short-answer questions on unit content delivered up to the end of the week prior to the quiz.

On successful completion you will be able to:

- Apply proficient knowledge of anatomy to accurately describe and analyse everyday activities. (Scientist & Scholar)
- Describe the biomechanical characteristics of performance of common everyday activities in healthy persons across the lifespan. (Scientist & Scholar)
- Utilise clinical observation and measurement skills to identify adaptive behaviours during the performance of everyday activities, and apply sound clinical reasoning and assessment skills to determine the underlying impairments. (Clinical Practitioner)
- Competently select, perform and interpret tests commonly used in physiotherapy practice to assess human performance, applying strategies to enhance the reliability and validity of specific measurement procedures. (Clinical Practitioner)
- Design and progress an evidence-based exercise program to enhance motor learning and performance that considers impairments, goals and preferences, as well as social and behavioural factors alongside cultural background. (Clinical Practitioner)

Online Quiz 2

Assessment Type [1]: Quiz/Test
Indicative Time on Task [2]: 10 hours
Due: **Week 8**
Weighting: **20%**

The online quiz will include short-answer questions on unit content delivered up to the end of the week prior to the quiz.

On successful completion you will be able to:

- Apply proficient knowledge of anatomy to accurately describe and analyse everyday activities. (Scientist & Scholar)
- Describe the biomechanical characteristics of performance of common everyday

activities in healthy persons across the lifespan. (Scientist & Scholar)
- Utilise clinical observation and measurement skills to identify adaptive behaviours during the performance of everyday activities, and apply sound clinical reasoning and assessment skills to determine the underlying impairments. (Clinical Practitioner)
- Competently select, perform and interpret tests commonly used in physiotherapy practice to assess human performance, applying strategies to enhance the reliability and validity of specific measurement procedures. (Clinical Practitioner)
- Design and progress an evidence-based exercise program to enhance motor learning and performance that considers impairments, goals and preferences, as well as social and behavioural factors alongside cultural background. (Clinical Practitioner)

Viva Examination

Assessment Type [1]: Viva/oral examination
Indicative Time on Task [2]: 22 hours
Due: **Week 14/15/16**
Weighting: **30%**

You will be required to describe and justify a person-centred approach to physiotherapy assessment and management of an individual who is experiencing difficulties in performing everyday movements.

On successful completion you will be able to:

- Apply proficient knowledge of anatomy to accurately describe and analyse everyday activities. (Scientist & Scholar)
- Describe the biomechanical characteristics of performance of common everyday activities in healthy persons across the lifespan. (Scientist & Scholar)
- Utilise clinical observation and measurement skills to identify adaptive behaviours during the performance of everyday activities, and apply sound clinical reasoning and assessment skills to determine the underlying impairments. (Clinical Practitioner)
- Competently select, perform and interpret tests commonly used in physiotherapy practice to assess human performance, applying strategies to enhance the reliability and validity of specific measurement procedures. (Clinical Practitioner)
- Design and progress an evidence-based exercise program to enhance motor learning and performance that considers impairments, goals and preferences, as well as social and behavioural factors alongside cultural background. (Clinical Practitioner)

Clinical skills evaluation

Assessment Type [1]: Clinical performance evaluation
Indicative Time on Task [2]: 20 hours
Due: **Week 14/15/16**
Weighting: **30%**

You will be required to submit a video demonstration of selected practical skills appropriate for a specific case scenario, including the clinical reasoning behind the selection and the explanation required for implementing these skills with a patient.

On successful completion you will be able to:

- Apply proficient knowledge of anatomy to accurately describe and analyse everyday activities. (Scientist & Scholar)
- Describe the biomechanical characteristics of performance of common everyday activities in healthy persons across the lifespan. (Scientist & Scholar)
- Utilise clinical observation and measurement skills to identify adaptive behaviours during the performance of everyday activities, and apply sound clinical reasoning and assessment skills to determine the underlying impairments. (Clinical Practitioner)
- Competently select, perform and interpret tests commonly used in physiotherapy practice to assess human performance, applying strategies to enhance the reliability and validity of specific measurement procedures. (Clinical Practitioner)
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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

In the Faculty of Medicine, Health and Human Sciences professionalism is a key capability

embedded in all our courses. As part of developing professionalism, Faculty of Medicine, Health and Human Sciences students are expected to participate in all learning and teaching activities.

All learning and teaching activities are scheduled in your individual timetable. The timetable for classes can be found on the University web site at: http://www.timetables.mq.edu.au/. You may make a request to your unit convener to attend a different tutorial on a one-off basis for extenuating circumstances.

Failure to participate in any learning and teaching activities may impact your final results. It is the responsibility of the student to contact their unit convenor and tutor by email to inform them if they are going to be absent.

Assumed knowledge

This unit assumes that you have comprehensive knowledge of anatomy and physiology.

Teaching and Learning Strategy

The teaching approach will be based on students developing a deep understanding of principles and the ability to independently solve problems, with the expectation that students can then translate this knowledge to different clinical scenarios (e.g. patients with similar impairments but different diagnoses).

Lectures will provide foundation knowledge for this unit. They will be pre-recorded and complimented by online large group discussions.

Tutorials will consolidate, extend and apply the content covered in lectures. They will take place in small groups via an online video conferencing platform.

Practicals will focus on the development of technical skills and clinical reasoning. Tutorial content will be based on case studies and situated in authentic learning environments to optimally prepare students for their future clinical placements.

This unit's iLearn site will provide weekly resources for students, including:

- lecture notes
- tutorial and practical worksheets
- preparation and consolidation material
- videos
- assessment details

Textbooks & Readings

Essential: This unit does not have any textbooks that are essential for you to purchase.

Recommended: The following texts will be useful resources and available in the library reserve. Recommendations about specific readings from these and other resources (such as research papers, books, websites and videos) will be listed on iLearn.

- Carr JH and Shepherd RB (2010) *Neurological rehabilitation: Optimizing motor*

performance (2nd Ed). Elsevier Health Sciences.

- Carr JH and Shepherd RB (2003) *Stroke rehabilitation: Guidelines for exercise and training to optimize motor skill.* Oxford: Butterworth Heinemann.
- Magill RA (2011) *Motor Learning and Control: Concepts and Applications (9th Ed).* New York: McGraw Hill.
- Oatis CA (2009) *Kinesiology: The Mechanics & Pathomechanics of Human Movement (2nd Ed).* Baltimore: Lippincott Williams and Wilkins.

Policies and Procedures

Macquarie University policies and procedures are accessible from Policy Central (https://staff.mq.edu.au/work/strategy-planning-and-governance/university-policies-and-procedures/policy-central). 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
- Grade Appeal Policy
- Complaint Management Procedure for Students and Members of the Public
- Special Consideration Policy *(**Note:** The Special Consideration Policy is effective from 4 December 2017 and replaces the Disruption to Studies Policy.)*

Students seeking more policy resources can visit the Student Policy Gateway (https://students.mq.edu.au/support/study/student-policy-gateway). It is your one-stop-shop for the key policies you need to know about throughout your undergraduate student journey.

If you would like to see all the policies relevant to Learning and Teaching visit Policy Central (https://staff.mq.edu.au/work/strategy-planning-and-governance/university-policies-and-procedures/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/study/getting-started/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

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 help you improve your marks and take control of your study.

- Getting help with your assignment
- Workshops
- StudyWise
- 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

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

If you are a Global MBA student contact globalmba.support@mq.edu.au

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.

Changes from Previous Offering

The previous offering of PTHY8101 was the unit code PHTY801. PHTY8101 has undergone changes in mode of delivery in response to COVID-19. In this offering tutorials will be delivered in both online and face-to-face modes. Assessments have also been modified from previous offerings to ensure that they are appropriate for the online environment.

The current offering of this unit will include online tutorials to help consolidate, extend and apply the fundamental content covered in lectures. These online tutorials will enable efficient use of class time during small group practical sessions conducted on-campus for practicing core

clinical skills. Lectures will now be pre-recorded to facilitate flexible learning hours for students.