PHTY3000
Exercise Physiology
Session 1, In person-scheduled-weekday, North Ryde 2023

Department of Health Sciences

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General Information

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Contact via Email for an appointment

Tutor
Darryl Hands
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Contact via Email for an appointment

Credit points
10

Prerequisites
120cp including (HLTH108 or ANAT1001) and ((HLTH109 or ANAT1002) or (MEDI203 or MEDI2100)) and (BIOL247 or BIOL2220 or MEDI211 or MEDI2101)

Corequisites

Co-badged status

Unit description
The unit will cover the basic principles of exercise physiology. You will build on this knowledge and apply an integrated approach to explore: i) how the body responds to different types exercise training strategies; ii) how the body responds to exercise in different environments; and iii) why exercise is beneficial for improving fitness and health-related parameters in healthy individuals and those with common health conditions. You will draw on knowledge from human physiology and anatomy, and be provided with practical experiences to apply this theoretical knowledge.

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 the normal physiological (cardiovascular, respiratory, metabolic and musculoskeletal) response to exercise.

**ULO2:** Describe and identify appropriate exercise testing for a healthy population.

**ULO3:** Evaluate an exercise programme for healthy adults and modify for those with common health conditions.

**ULO4:** Analyse and interpret exercise data from healthy adults and modify for those with common health conditions.

**ULO5:** Describe the physiological rationale for different exercise paradigms.

**ULO6:** Apply an integrated approach to describe the human physiological responses to exercising in hot, cold, hypoxic, and hyperbaric conditions.

**ULO7:** Communicate awareness of the societal, cultural and ethical aspects of exercise to the wider community.

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>
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</table>

https://unitguides.mq.edu.au/unit_offerings/158614/unit_guide/print
Assessment Tasks

<table>
<thead>
<tr>
<th>Name</th>
<th>Weighting</th>
<th>Hurdle</th>
<th>Due</th>
</tr>
</thead>
<tbody>
<tr>
<td>Final Examination</td>
<td>50%</td>
<td>No</td>
<td>Exam Period</td>
</tr>
<tr>
<td>Mid session quiz</td>
<td>20%</td>
<td>No</td>
<td>Week 6 (scheduled lab/tutorial time)</td>
</tr>
<tr>
<td>Health Pitch</td>
<td>30%</td>
<td>No</td>
<td>Week 12 (scheduled lab/tutorial time)</td>
</tr>
</tbody>
</table>

Final Examination

Assessment Type: Examination
Indicative Time on Task: 30 hours
Due: Exam Period
Weighting: 50%

This written exam will test your understanding of all content delivered in this unit of study. It will comprise a combination of multiple choice and short answer questions. This exam will be invigilated.

On successful completion you will be able to:

- Describe the normal physiological (cardiovascular, respiratory, metabolic and musculoskeletal) response to exercise.
- Describe and identify appropriate exercise testing for a healthy population.
- Evaluate an exercise programme for healthy adults and modify for those with common health conditions.
• Analyse and interpret exercise data from healthy adults and modify for those with common health conditions.
• Describe the physiological rationale for different exercise paradigms.
• Apply an integrated approach to describe the human physiological responses to exercising in hot, cold, hypoxic, and hyperbaric conditions.
• Communicate awareness of the societal, cultural and ethical aspects of exercise to the wider community.

Mid session quiz
Assessment Type 1: Quiz/Test
Indicative Time on Task 2: 15 hours
Due: Week 6 (scheduled lab/tutorial time)
Weighting: 20%

Students will complete an online quiz during a specified period.

On successful completion you will be able to:
• Describe the normal physiological (cardiovascular, respiratory, metabolic and musculoskeletal) response to exercise.
• Describe and identify appropriate exercise testing for a healthy population.
• Evaluate an exercise programme for healthy adults and modify for those with common health conditions.
• Analyse and interpret exercise data from healthy adults and modify for those with common health conditions.
• Describe the physiological rationale for different exercise paradigms.

Health Pitch
Assessment Type 1: Presentation
Indicative Time on Task 2: 20 hours
Due: Week 12 (scheduled lab/tutorial time)
Weighting: 30%

In small groups you will develop and present a short health pitch and accompanying infographic demonstrating your understanding of exercising in a challenging environment or with a common health condition.
On successful completion you will be able to:

• Describe the physiological rationale for different exercise paradigms.
• Apply an integrated approach to describe the human physiological responses to exercising in hot, cold, hypoxic, and hyperbaric conditions.
• Communicate awareness of the societal, cultural and ethical aspects of exercise to the wider community.

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 readings, online modules, videos and lectures etc. Details can be found on the iLearn site for this unit.

Recommended Readings


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.

Unit Schedule

Please consult iLearn for specific unit schedule details.

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

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
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 Advocacy** provides independent advice on MQ policies, procedures, and processes

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 & 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.

Changes since First Published

<table>
<thead>
<tr>
<th>Date</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>07/02/2023</td>
<td>I’ve updated the teaching staff to include a new tutor.</td>
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