## Contents

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Information</td>
<td>2</td>
</tr>
<tr>
<td>Learning Outcomes</td>
<td>2</td>
</tr>
<tr>
<td>General Assessment Information</td>
<td>3</td>
</tr>
<tr>
<td>Assessment Tasks</td>
<td>4</td>
</tr>
<tr>
<td>Delivery and Resources</td>
<td>6</td>
</tr>
<tr>
<td>Policies and Procedures</td>
<td>6</td>
</tr>
<tr>
<td>Inclusion And Diversity</td>
<td>8</td>
</tr>
<tr>
<td>Professionalism</td>
<td>9</td>
</tr>
<tr>
<td>Changes since First Published</td>
<td>10</td>
</tr>
</tbody>
</table>

Disclaimer

Macquarie University has taken all reasonable measures to ensure the information in this publication is accurate and up-to-date. However, the information may change or become out-dated as a result of change in University policies, procedures or rules. The University reserves the right to make changes to any information in this publication without notice. Users of this publication are advised to check the website version of this publication [or the relevant faculty or department] before acting on any information in this publication.
General Information

Unit convenor and teaching staff
Convenor
Aaron Beach
aaron.beach@mq.edu.au
Email for appointment

Credit points
10

Prerequisites
Admission to BExerSpSc

Corequisites

Co-badged status

Unit description
The unit will cover the basic principles of human physiology and provide context within an exercise and sport setting. You will learn about energy systems and the function of physiological systems broadly. Laboratory experiences will allow you to see and apply this theoretical knowledge and explore the interaction of these systems.

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: Demonstrate an understanding of the function and relationship of human physiological systems relating to exercise
ULO2: Describe the interaction of different physiological systems as they relate to exercise
ULO3: Demonstrate an understanding of the physiological functions of human cells in signal transduction, regulation of gene expression, transport, excitability, transmission, and homeostasis
ULO4: Demonstrate a basic level of understanding how and why pre-exercise screening is important prior to undertaking a physical training program
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>

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.
Assessment Tasks

<table>
<thead>
<tr>
<th>Name</th>
<th>Weighting</th>
<th>Hurdle</th>
<th>Due</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quiz 1</td>
<td>15%</td>
<td>No</td>
<td>Week 4</td>
</tr>
<tr>
<td>Quiz 2 - Mid-semester</td>
<td>25%</td>
<td>No</td>
<td>Week 8</td>
</tr>
<tr>
<td>Final Examination</td>
<td>60%</td>
<td>No</td>
<td>Central Exam Period</td>
</tr>
<tr>
<td>Exercise Physiology Laboratory Book</td>
<td>0%</td>
<td>Yes</td>
<td>Week 13</td>
</tr>
</tbody>
</table>

Quiz 1
Assessment Type 1: Quiz/Test
Indicative Time on Task 2: 20 hours
Due: Week 4
Weighting: 15%

This quiz will assess your knowledge of basic exercise physiology

On successful completion you will be able to:
  • Demonstrate an understanding of the function and relationship of human physiological systems relating to exercise
  • Describe the interaction of different physiological systems as they relate to exercise
  • Demonstrate an understanding of the physiological functions of human cells in signal transduction, regulation of gene expression, transport, excitability, transmission, and homeostasis

Quiz 2 - Mid-semester
Assessment Type 1: Quiz/Test
Indicative Time on Task 2: 20 hours
Due: Week 8
Weighting: 25%

This quiz will assess your knowledge of basic exercise physiology

On successful completion you will be able to:
• Demonstrate an understanding of the function and relationship of human physiological systems relating to exercise
• Describe the interaction of different physiological systems as they relate to exercise
• Demonstrate an understanding of the physiological functions of human cells in signal transduction, regulation of gene expression, transport, excitability, transmission, and homeostasis

Final Examination

Assessment Type ¹: Examination
Indicative Time on Task ²: 35 hours
Due: Central Exam Period
Weighting: 60%

This final exam will be a comprehensive assessment of your understanding and application of exercise physiology.

On successful completion you will be able to:
• Demonstrate an understanding of the function and relationship of human physiological systems relating to exercise
• Describe the interaction of different physiological systems as they relate to exercise
• Demonstrate an understanding of the physiological functions of human cells in signal transduction, regulation of gene expression, transport, excitability, transmission, and homeostasis
• Demonstrate a basic level of understanding how and why pre-exercise screening is important prior to undertaking a physical training program

Exercise Physiology Laboratory Book

Assessment Type ¹: Lab book
Indicative Time on Task ²: 25 hours
Due: Week 13
Weighting: 0%
This is a hurdle assessment task (see assessment policy for more information on hurdle assessment tasks)

During the practical components of this unit you will maintain a lab book that will be assessed regularly to provide feedback on practical skills, knowledge, and communication relevant to an exercise scientist. Each week’s entry will be pass or fail.
On successful completion you will be able to:

- Demonstrate an understanding of the function and relationship of human physiological systems relating to exercise
- Demonstrate a basic level of understanding how and why pre-exercise screening is important prior to undertaking a physical training program

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. 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.

**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:
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/.

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**

Fitness to Practice (FTP) is the demonstration of professional competence, acceptable professional behaviour, freedom from impairment and compliance with course-specific requirements needed for a student to practice properly and safely throughout their course and to appropriately practice within a professional environment as a future Exercise Scientist.

Students undertaking the Bachelor of Exercise and Sports Science are required to demonstrate they meet requirements of the four attributes of FTP - Conduct, Performance, Health and Compliance throughout their entire program of study so that they can meet the requirements of the exercise science profession.

Students must also meet the inherent requirements to complete their degree, course, or unit and graduate. To meet the course requirements of the Bachelor of Exercise and Sport Science, full participation in practical classes which involve observation, manual handling, undertaking exercise for the purposes of instruction and demonstration is expected.

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>
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<tbody>
<tr>
<td>13/02/2023</td>
<td>Modified the following statement: &quot;Students must also meet the inherent requirements to complete their degree, course, or unit and graduate. To meet the course requirements of the Bachelor of Exercise and Sport Science, full participation in practical classes which involve observation, manual handling, undertaking exercise for the purposes of instruction and demonstration is expected.&quot;</td>
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<tr>
<td>05/02/2023</td>
<td>Added statement to the Professionalism section. Added description to Staff Contact.</td>
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