

ESPS1000

Introduction to Exercise and Sport Science

Session 1, In person-scheduled-weekday, North Ryde 2022

Department of Health Sciences

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General Information

Unit convenor and teaching staff Jodie Wills jodie.wills@mq.edu.au Tim Doyle tim.doyle@mq.edu.au Credit points 10 Prerequisites Corequisites Co-badged status Unit description This unit broadly introduces you to the discipline of exercise science and provides you with fundamental knowledge in core exercise science sub-disciplines. You will learn the fundamental principles of biomechanics, exercise physiology, and human motor control and explore how these sub-disciplines formulate an integrated approach to assessing human performance. You will also learn analysis and communication skills that are imperative to help

you become reflective exercise science 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: Identify and explain the fundamental principles of sport and exercise science subdisciplines

ULO2: Explain key terminology and basic principles as they apply to exercise science

ULO3: Discuss the mechanical principles to describe the motion of the human body

ULO4: Analyse and interpret basic mechanical and physiological data relevant to an exercise scientist

ULO5: Communicate effectively using data in written and oral formats.

General Assessment Information

General Assessment Information

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, which corresponds to the grade descriptors specified in the Assess ment Procedure (clause 128).

To pass this unit, students must demonstrate sufficient evidence of achievement of the learning outcomes, meet any ungraded requirements including professionalism, and achieve a final mark of 50 or better. Further details for each assessment task will be available on iLearn.

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Student 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 tutorials and laboratory-based practical sessions.

Furthermore, lectures and seminars are key learning activities that you are expected to attend throughout completion of your degree. While audio recordings and lecture slides may be made available following these large group sessions, it is important to recognise that such resources are a study aid - and should not be considered an alternative to lecture or seminar attendance. Echo360 recordings of live lectures do not always work and are not a substitute for in-person lecture attendance.

Students are required to attend a minimum of 80% of all noted compulsory activities. Students that do not meet this requirement may be deemed unable to meet expectations regarding professionalism, learning outcomes, and may be referred for disciplinary action (which may include exclusion from assessments and unit failure).

Similarly, as part of developing professionalism, students are expected to submit all work by the due date. Applications for assessment task extensions must be supported by appropriate evidence and submitted via www.ask.mq.edu.au. For further details please refer to the Special Consideration Policy available at https://students.mq.edu.au. For further details please refer to the Special Consideration Policy available at https://students.mq.edu.au/study/my-study-program/special-consideration.

Late Submission

All assignments which are officially received after the due date, and where no extension has been granted, will receive a 5% per day penalty including weekends and public holidays. If you submit the assessment task 10 days or more beyond the due date, without an approved extension, you will be awarded a maximum of 50% of the overall assessment marks. For example:

Due date	Received	Days late	Deduction	Raw mark	Final mark
Friday 14th	Monday 17th	3	15%	75%	60%
Friday 14th	Monday 24th	10	50%	75%	25%

Assessment Tasks

Name	Weighting	Hurdle	Due
Topic content quizzes	60%	No	Weeks 4, 8, and 12
Exercise Science Laboratory Book	0%	Yes	Week 13
Final Exam	40%	No	Central Exam Period

Topic content quizzes

Assessment Type 1: Quiz/Test Indicative Time on Task 2: 25 hours Due: Weeks 4, 8, and 12 Weighting: 60%

At the end of each topic throughout the semester a quiz will assess understanding and comprehension of each of those topic areas.

On successful completion you will be able to:

- Identify and explain the fundamental principles of sport and exercise science subdisciplines
- · Explain key terminology and basic principles as they apply to exercise science
- Discuss the mechanical principles to describe the motion of the human body
- Analyse and interpret basic mechanical and physiological data relevant to an exercise scientist

Exercise Science 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. This task is a hurdle assessment.

On successful completion you will be able to:

- · Discuss the mechanical principles to describe the motion of the human body
- Analyse and interpret basic mechanical and physiological data relevant to an exercise scientist
- Communicate effectively using data in written and oral formats.

Final Exam

Assessment Type 1: Examination Indicative Time on Task 2: 25 hours Due: **Central Exam Period** Weighting: **40%**

This final exam will assess all content from the unit. Basic content, it's application, and appropriateness of reporting findings will be assessed.

On successful completion you will be able to:

- Identify and explain the fundamental principles of sport and exercise science subdisciplines
- Explain key terminology and basic principles as they apply to exercise science
- Discuss the mechanical principles to describe the motion of the human body
- Analyse and interpret basic mechanical and physiological data relevant to an exercise scientist
- Communicate effectively using data in written and oral formats.

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

Unit Organisation

This is a 10 credit point unit run over a 13 week session. Each week there is a lecture and a laboratory. These will be run using a mix of face to face and online modes. Further information is available via the ESPS1000 iLearn site.

Teaching and Learning Strategy

This unit will have a weekly lecture and laboratory every week n.b., refer to weekly schedule for specific timings and weeks where laboratories may not be scheduled due to assessments. Lectures will provide foundation knowledge and also provide discussion of concepts and ideas to further understanding of the content. Laboratories will allow for the demonstration and learning of practical skills relevant to Exercise Science. 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 scenarios.

Textbooks & Readings

Recommended Readings

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

- Biomechanics and motor control of human movement David A. Winter, 4th ed., Hoboken, N.J.: Wiley, c 2009, Wiley-Blackwell Online Books.
- Motor learning and control: concepts and applications Richard A. Magill, New York University, David I. Anderson, San Francisco State University. Tenth edition., New York, NY: McGraw-Hill.
- Sports biomechanics: the basics: optimising human performance Anthony J. Blazevich, 2nd ed., A & C Black Publishers: London.
- <u>ACSM's resource manual for Guidelines for exercise testing and prescription</u> American College of Sports Medicine.; Kaminsky, Leonard A., 1955-; American College of Sports Medicine. 5th ed. Baltimore, MD: Lippincott Williams & Wilkins c 2006.

Attendance

All lectures and laboratories are scheduled in your individual timetable. You may make a request to your tutor to attend a different laboratory on a one-off basis for extenuating circumstances. In most cases lectures are recorded (this cannot be guaranteed as ICT issues may occur preventing this) however, attendance is expected at both lectures (face to face and online) and laboratories, as this is where the majority of learning occurs. Failure to attend may impact your final results. It is the responsibility of the student to contact their tutor by email to inform tutors if

they are going to be absent. The timetable for classes can be found on the University website at: http://www.timetables.mq.edu.au/.

Technology and Equipment

On-campus

The Exercise and Sports Science laboratories are located in the Macquarie University Sport and Aquatic Center (MUSAC). This teaching space is equipped with state of the art exercise and sports science equipment, audio-visual, and ICT equipment including iPads, internet connection, and multiple LCD screens. Students will use a range of specific equipment typically used in the assessment, management, and development of human physical performance.

Off-campus

Should you choose to work off campus you will need to have access to a reliable internet connection in order to retrieve unit information & at times to submit assessment tasks via iLearn.

Unit Schedule

Please consult iLearn for specific unit schedule details.

Policies and Procedures

Macquarie University policies and procedures are accessible from Policy Central (https://policie s.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 <u>Student Policies</u> (<u>https://students.mq.edu.au/su</u> <u>pport/study/policies</u>). 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 <u>Policy Central</u> (<u>https://policies.mq.e</u> <u>du.au</u>) and use the <u>search tool</u>.

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 <u>eStudent</u>, (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 <u>eStudent</u>. For more information visit <u>ask.mq.edu.au</u> or if you are a Global MBA student contact globalmba.support@mq.edu.au

Academic Integrity

At Macquarie, we believe <u>academic integrity</u> – 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 <u>online writing an</u> d maths support, academic skills development and wellbeing consultations.

Student Support

Macquarie University provides a range of support services for students. For details, visit <u>http://stu</u> dents.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 <u>Student Support Services</u> including:

- IT Support
- Accessibility and disability support with study
- Mental health support
- <u>Safety support</u> 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 <u>http://www.mq.edu.au/about_us/</u>offices_and_units/information_technology/help/.

When using the University's IT, you must adhere to the <u>Acceptable Use of IT Resources Policy</u>. The policy applies to all who connect to the MQ network including students.

Changes since First Published

Date	Description
07/02/ 2022	Updated 'General Assessment Information' to reflect updates in MQ assessment policy.
07/02/ 2022	Updated General Assessment Information
31/01/ 2022	Typos corrected