



ESSC12005 *Applied Exercise and Sport* *Physiology* Term 2 - 2017

Profile information current as at 05/05/2024 09:32 am

All details in this unit profile for ESSC12005 have been officially approved by CQUniversity and represent a learning partnership between the University and you (our student). The information will not be changed unless absolutely necessary and any change will be clearly indicated by an approved correction included in the profile.

General Information

Overview

This unit provides you with laboratory skills necessary for the evaluation and monitoring of exercise and work performance in health, sport and workplace settings. You will develop specific knowledge in understanding the physiological responses and adaptations of exercise, as well as develop skills in research methods and oral and written presentation.

Details

Career Level: *Undergraduate*

Unit Level: *Level 2*

Credit Points: 6

Student Contribution Band: 8

Fraction of Full-Time Student Load: 0.125

Pre-requisites or Co-requisites

Pre-requisites For CG85 Bachelor of Exercise and Sport Sciences students: ESSC11002 Measurement and Evaluation in Health Science AND ESSC12001 Exercise and Sport Physiology For CG93 Bachelor of Medical Science students: BMSC11001 Human Body Systems 1 AND BMSC11002 Human Body Systems 2 AND ESSC11002 Measurement and Evaluation in Health Sciences For CC13 Bachelor of Education (Secondary) students: ESSC12001 Exercise and Sport Physiology

Important note: Students enrolled in a subsequent unit who failed their pre-requisite unit, should drop the subsequent unit before the census date or within 10 working days of Fail grade notification. Students who do not drop the unit in this timeframe cannot later drop the unit without academic and financial liability. See details in the [Assessment Policy and Procedure \(Higher Education Coursework\)](#).

Offerings For Term 2 - 2017

- Distance
- Mackay
- Rockhampton

Attendance Requirements

All on-campus students are expected to attend scheduled classes – in some units, these classes are identified as a mandatory (pass/fail) component and attendance is compulsory. International students, on a student visa, must maintain a full time study load and meet both attendance and academic progress requirements in each study period (satisfactory attendance for International students is defined as maintaining at least an 80% attendance record).

Residential Schools

This unit has a Compulsory Residential School for distance mode students and the details are:
Click here to see your [Residential School Timetable](#).

Website

[This unit has a website, within the Moodle system, which is available two weeks before the start of term. It is important that you visit your Moodle site throughout the term. Please visit Moodle for more information.](#)

Class and Assessment Overview

Recommended Student Time Commitment

Each 6-credit Undergraduate unit at CQUniversity requires an overall time commitment of an average of 12.5 hours of study per week, making a total of 150 hours for the unit.

Class Timetable

[Regional Campuses](#)

Bundaberg, Cairns, Emerald, Gladstone, Mackay, Rockhampton, Townsville

[Metropolitan Campuses](#)

Adelaide, Brisbane, Melbourne, Perth, Sydney

Assessment Overview

1. **Portfolio**

Weighting: 80%

2. **Online Quiz(zes)**

Weighting: 20%

3. **On-campus Activity**

Weighting: Pass/Fail

Assessment Grading

This is a graded unit: your overall grade will be calculated from the marks or grades for each assessment task, based on the relative weightings shown in the table above. You must obtain an overall mark for the unit of at least 50%, or an overall grade of 'pass' in order to pass the unit. If any 'pass/fail' tasks are shown in the table above they must also be completed successfully ('pass' grade). You must also meet any minimum mark requirements specified for a particular assessment task, as detailed in the 'assessment task' section (note that in some instances, the minimum mark for a task may be greater than 50%). Consult the [University's Grades and Results Policy](#) for more details of interim results and final grades.

CQUniversity Policies

All University policies are available on the [CQUniversity Policy site](#).

You may wish to view these policies:

- Grades and Results Policy
- Assessment Policy and Procedure (Higher Education Coursework)
- Review of Grade Procedure
- Student Academic Integrity Policy and Procedure
- Monitoring Academic Progress (MAP) Policy and Procedure – Domestic Students
- Monitoring Academic Progress (MAP) Policy and Procedure – International Students
- Student Refund and Credit Balance Policy and Procedure
- Student Feedback – Compliments and Complaints Policy and Procedure
- Information and Communications Technology Acceptable Use Policy and Procedure

This list is not an exhaustive list of all University policies. The full list of University policies are available on the [CQUniversity Policy site](#).

Previous Student Feedback

Feedback, Recommendations and Responses

Every unit is reviewed for enhancement each year. At the most recent review, the following staff and student feedback items were identified and recommendations were made.

Feedback from Student feedback.

Feedback

Timing of assessment items were difficult to manage for some students considering requirements in other units.

Recommendation

Liaise with other course coordinators to set more manageable assessment timings across units.

Unit Learning Outcomes

On successful completion of this unit, you will be able to:

1. Demonstrate laboratory skills necessary for the evaluation and monitoring of exercise and work performance in health, sport and workplace settings.
2. Develop an understanding of physiological exercise responses, exercise adaptations, measurement techniques and equipment.
3. Undertake a research project on the human physiological and biochemical responses to exercise for health, sport or the workplace.

Alignment of Learning Outcomes, Assessment and Graduate Attributes



Alignment of Assessment Tasks to Learning Outcomes

Assessment Tasks	Learning Outcomes		
	1	2	3
1 - Portfolio - 80%			•
2 - Online Quiz(zes) - 20%		•	
3 - On-campus Activity - 0%	•	•	•

Alignment of Graduate Attributes to Learning Outcomes

Graduate Attributes	Learning Outcomes		
	1	2	3
1 - Communication	•	•	•
2 - Problem Solving	•	•	•
3 - Critical Thinking	•	•	•

Graduate Attributes	Learning Outcomes		
	1	2	3
4 - Information Literacy	•	•	•
5 - Team Work		•	•
6 - Information Technology Competence	•	•	•
7 - Cross Cultural Competence	•	•	•
8 - Ethical practice	•	•	•
9 - Social Innovation			
10 - Aboriginal and Torres Strait Islander Cultures			

Alignment of Assessment Tasks to Graduate Attributes

Assessment Tasks	Graduate Attributes									
	1	2	3	4	5	6	7	8	9	10
1 - Portfolio - 80%	•	•	•	•	•	•		•		
2 - Online Quiz(zes) - 20%		•	•	•		•		•		
3 - On-campus Activity - 0%	•	•	•	•	•	•		•		

Textbooks and Resources

Textbooks

There are no required textbooks.

IT Resources

You will need access to the following IT resources:

- CQUniversity Student Email
- Internet
- Unit Website (Moodle)
- Access to a webcam and microphone for online presentation delivery
- Computer with Microsoft Office and Endnote (optional) installed

Referencing Style

All submissions for this unit must use the referencing style: [American Psychological Association 6th Edition \(APA 6th edition\)](#)

For further information, see the Assessment Tasks.

Teaching Contacts

Aaron Scanlan Unit Coordinator
a.scanlan@cqu.edu.au

Schedule

Week 1 - 10 Jul 2017

Module/Topic	Chapter	Events and Submissions/Topic
Unit Introduction	Additional Readings on Moodle	

Week 2 - 17 Jul 2017

Module/Topic	Chapter	Events and Submissions/Topic
Research Project Topics	Additional Readings on Moodle	

Week 3 - 24 Jul 2017

Module/Topic	Chapter	Events and Submissions/Topic
Formulating the Research Question and Study Design	Additional Readings on Moodle	

Week 4 - 31 Jul 2017

Module/Topic	Chapter	Events and Submissions/Topic
Data Analysis, Interpretation, and Presentation	Additional Readings on Moodle	

Week 5 - 07 Aug 2017

Module/Topic	Chapter	Events and Submissions/Topic
Verbal and Written Presentation of Research	Additional Readings on Moodle	

Vacation Week - 14 Aug 2017

Module/Topic	Chapter	Events and Submissions/Topic
		Portfolio component (Research Proposal): You are required to submit your completed research proposal via the unit Moodle site by 5:00 pm Wednesday 16 August 2017 (AEST).

Week 6 - 21 Aug 2017

Module/Topic	Chapter	Events and Submissions/Topic
Measurement in Exercise and Sport Physiology	Additional Readings on Moodle	

Week 7 - 28 Aug 2017

Module/Topic	Chapter	Events and Submissions/Topic
No Lecture		Online Test 1: This test will assess content from lectures 3-6, inclusive. This test will open at 9:00 am Monday 28 August 2017 and close at 9:00 am Monday 4 September 2017 (AEST)

Week 8 - 04 Sep 2017

Module/Topic	Chapter	Events and Submissions/Topic
Measurement of Body Composition	Additional Readings on Moodle	

Week 9 - 11 Sep 2017

Module/Topic	Chapter	Events and Submissions/Topic
Measurement of Oxygen Utilisation	Additional Readings on Moodle	

Week 10 - 18 Sep 2017

Module/Topic	Chapter	Events and Submissions/Topic
Measurement of Cardiovascular Responses	Additional Readings on Moodle	

Week 11 - 25 Sep 2017

Module/Topic	Chapter	Events and Submissions/Topic
Measurement of Thermoregulatory Responses	Additional Readings on Moodle	

Week 12 - 02 Oct 2017

Module/Topic	Chapter	Events and Submissions/Topic
Measurement of Internal and External Load	Additional Readings on Moodle	Portfolio component (Research Presentation): This assessment will be presented during a pre-selected online session during this week. You are required to submit a copy of your presentation via the unit Moodle site by 5:00 pm Friday 6 October 2017 (AEST).

Review/Exam Week - 09 Oct 2017

Module/Topic	Chapter	Events and Submissions/Topic
		Online Test 2: This test will assess content from lectures 7-11, inclusive. This test will open at 9:00 am Monday 9 October 2017 and close at 9:00 am Monday 16 October 2017 (AEST)

Exam Week - 16 Oct 2017

Module/Topic	Chapter	Events and Submissions/Topic
		Portfolio component (Research Manuscript): You are required to submit your completed research manuscript via the unit Moodle site by 5:00 pm Friday 20 October 2017 (AEST).

Assessment Tasks

1 Written Assessment

Assessment Type

Portfolio

Task Description

In this unit, you will apply wide physiological knowledge and skills to complete various research projects during the laboratory sessions. You are required to select one of these topics and develop a research portfolio addressing key objectives relevant for your chosen topic. The portfolio will consist of a research proposal, research presentation, and research manuscript.

Component 1: Research proposal

This assessment involves developing a written proposal related to your chosen research topic. You are recommended to include Background, Purposes and hypotheses, Study design and research plan, Milestones, and References sections. This assessment is to be completed individually.

General information

Word limit: 1000-2000 words

Program: Microsoft Word is the preferred software program.

Font: Use Arial or Times New Roman, size eleven (11) point.

Layout: Double-spaced throughout with 2.5 cm margins all around. Number the pages consecutively at the bottom right corner.

Component 2: Research presentation

This assessment involves developing and delivering a presentation on your chosen research topic. The presentation is to be completed individually and delivered at one of the scheduled online conferences using Zoom.

General information

Time limit: Up to 10 minutes presenting (followed by 2-3 minutes of questions).

Slide volume: 15-20 slides is recommended; however this might vary with content and styles.

Program: Microsoft PowerPoint is the preferred software program.

Component 3: Research manuscript

This component involves developing a journal-style manuscript on your chosen research topic. You are recommended to include Title page, Abstract, Introduction, Methods, Results, Discussion, Conclusion, Practical Implications, References, and Tables/Figures sections. This assessment is to be completed individually.

General information

Word limit: 1500-2500 words (excludes abstract, tables/figures, references).

Use headings for different sections, but use sub-headings sparingly.

References: you should have at least 15 peer-reviewed references, and should not exceed 30 references overall.

Program: Microsoft Word is the preferred software program.

Font: Use Arial or Times New Roman, size eleven (11) point.

Layout: Double-spaced throughout with 2.5 cm margins all around. Number the pages consecutively at the bottom right corner.

Tables and figures: Do not include more than 3 tables and figures in total combined.

The components of the portfolio will be due on different dates across term. Templates, guidelines, and grading rubrics will be made available for each component on the unit Moodle site. You should consider the information provided during the lecture series along with the equipment and measurement techniques described in the laboratory documents when developing each component.

Assessment Due Date

Research proposal due 5:00 pm Wednesday 17 August 2017 (AEST); Research presentation to be presented during session in Week 12 with submission of presentation slides due 5:00 pm Friday 6 October 2017 (AEST); Research manuscript due 5:00 pm Friday 20 October 2017 (AEST).

Return Date to Students

Each component of the portfolio will be returned with feedback within 2 weeks of the due date.

Weighting

80%

Assessment Criteria

The proposal will be a written document assessed on the following areas: background of key concepts, review and interpretation of the related literature, development of the rationale for the project, aim(s) and hypotheses, study design and research plan, methods, milestones, and writing (20% of final grade).

The presentation will be assessed on the following areas: introduction, methods, results, discussion, conclusion, practical implications, and presentation skills (20% of final grade) in the format of a presentation.

The manuscript will be assessed on the following areas: introduction, methods, results, discussion, conclusion, practical implications, and writing (40% of final grade) in the format of a written journal article.

Each portfolio component will be graded using assessment Rubrics available on the unit Moodle site.

Referencing Style

- [American Psychological Association 6th Edition \(APA 6th edition\)](#)

Submission

Online

Submission Instructions

Research presentation will be presented online via Zoom. Please submit all portfolio components electronically via the unit Moodle site, preferably as a .doc or .docx file (or a .ppt or .pptx for the presentation). Please do not submit your assessment as a .pdf file.

Learning Outcomes Assessed

- Undertake a research project on the human physiological and biochemical responses to exercise for health, sport

or the workplace.

Graduate Attributes

- Communication
- Problem Solving
- Critical Thinking
- Information Literacy
- Team Work
- Information Technology Competence
- Ethical practice

2 Online Tests

Assessment Type

Online Quiz(zes)

Task Description

The Online Tests will assess weekly content covered in lectures and readings. It is your responsibility to log onto Moodle and complete each Online Test when they are available. You will have a 20-minute time limit for each Online Test during a single session (you cannot save the Online Test and return to it at a later time).

Online Test 1 (10% of final grade) will cover content from lectures 3-6, inclusive.

Online Test 2 (10% of final grade) will cover content from lectures 7-11, inclusive.

Number of Quizzes

2

Frequency of Quizzes

Other

Assessment Due Date

Online Test 1 will be available from 9:00 am 28 August 2017 to 9:00 am Monday 4 September 2017 (AEST); Online Test 2 will be available from 9:00 am Monday 9 October 2017 to 9:00 am Monday 16 October 2017 (AEST).

Return Date to Students

Online Test results will be made available immediately following the attempt, while specific feedback for each question will be made available following the closure of each Online Test.

Weighting

20%

Assessment Criteria

Online Test 1 will cover lectures 3, 4, 5, and 6 (weeks 3, 4, 5, and 6) contributing to 10% of the final grade. Online Test 2 will cover lectures 7, 8, 9, 10, and 11 (weeks 8, 9, 10, 11, and 12) contributing to 10% of the final grade. Each Online Test will contain 20 questions randomly (and evenly from each week) selected from a bank of questions, worth 1 mark each. Your score out of 20 for each Online Test will be converted to a final result (out of 10%) and contribute to your overall grade in this unit.

Referencing Style

- [American Psychological Association 6th Edition \(APA 6th edition\)](#)

Submission

Online

Learning Outcomes Assessed

- Develop an understanding of physiological exercise responses, exercise adaptations, measurement techniques and equipment.

Graduate Attributes

- Problem Solving
- Critical Thinking
- Information Literacy
- Information Technology Competence
- Ethical practice

3 Attendance at laboratory sessions or residential school

Assessment Type

On-campus Activity

Task Description

You are required to attend all laboratory sessions either during on-campus weekly laboratory sessions held in Rockhampton OR the 2-day laboratory session block held in Mackay OR the 2-day residential school as part of this unit. Attendance at all laboratory sessions is compulsory to pass this unit.

Assessment Due Date

Attendance at all laboratory sessions is completed across term on various dates.

Return Date to Students

Attendance will be taken during all laboratory sessions and students will be immediately awarded a Pass or Fail grade following complete attendance or failure to attend all sessions, respectively.

Weighting

Pass/Fail

Minimum mark or grade

Pass

Assessment Criteria

Attendance at all laboratory sessions is required to pass this assessment. You will be required to attend all laboratory sessions at weekly laboratory sessions in Rockhampton OR a 2-day laboratory session block in Mackay OR a 2-day residential school in Rockhampton.

Referencing Style

- [American Psychological Association 6th Edition \(APA 6th edition\)](#)

Submission

Offline

Submission Instructions

You must attend all laboratory sessions to meet the passing requirements for this assessment.

Learning Outcomes Assessed

- Demonstrate laboratory skills necessary for the evaluation and monitoring of exercise and work performance in health, sport and workplace settings.
- Develop an understanding of physiological exercise responses, exercise adaptations, measurement techniques and equipment.
- Undertake a research project on the human physiological and biochemical responses to exercise for health, sport or the workplace.

Graduate Attributes

- Communication
- Problem Solving
- Critical Thinking
- Information Literacy
- Team Work
- Information Technology Competence
- Ethical practice

Academic Integrity Statement

As a CQUniversity student you are expected to act honestly in all aspects of your academic work.

Any assessable work undertaken or submitted for review or assessment must be your own work. Assessable work is any type of work you do to meet the assessment requirements in the unit, including draft work submitted for review and feedback and final work to be assessed.

When you use the ideas, words or data of others in your assessment, you must thoroughly and clearly acknowledge the source of this information by using the correct referencing style for your unit. Using others' work without proper acknowledgement may be considered a form of intellectual dishonesty.

Participating honestly, respectfully, responsibly, and fairly in your university study ensures the CQUniversity qualification you earn will be valued as a true indication of your individual academic achievement and will continue to receive the respect and recognition it deserves.

As a student, you are responsible for reading and following CQUniversity's policies, including the [Student Academic Integrity Policy and Procedure](#). This policy sets out CQUniversity's expectations of you to act with integrity, examples of academic integrity breaches to avoid, the processes used to address alleged breaches of academic integrity, and potential penalties.

What is a breach of academic integrity?

A breach of academic integrity includes but is not limited to plagiarism, self-plagiarism, collusion, cheating, contract cheating, and academic misconduct. The Student Academic Integrity Policy and Procedure defines what these terms mean and gives examples.

Why is academic integrity important?

A breach of academic integrity may result in one or more penalties, including suspension or even expulsion from the University. It can also have negative implications for student visas and future enrolment at CQUniversity or elsewhere. Students who engage in contract cheating also risk being blackmailed by contract cheating services.

Where can I get assistance?

For academic advice and guidance, the [Academic Learning Centre \(ALC\)](#) can support you in becoming confident in completing assessments with integrity and of high standard.

What can you do to act with integrity?



Be Honest

If your assessment task is done by someone else, it would be dishonest of you to claim it as your own



Seek Help

If you are not sure about how to cite or reference in essays, reports etc, then seek help from your lecturer, the library or the Academic Learning Centre (ALC)



Produce Original Work

Originality comes from your ability to read widely, think critically, and apply your gained knowledge to address a question or problem