

Course Information / *Ngā Whakamārama* - 2024

BIOL 481

Environmental Animal Physiology

0.125 EFTS 15 Points

Semester 2

Description/ *Whakamahuki*

This is a course that explores current topics in comparative environmental animal physiology. It follows on from the 3rd year physiology courses and concentrates on animals in their environments.

Goals of the Course

To introduce and discuss the methodology and principles involved in research in animal ecophysiology.

Course Coordinator / *Kairuruku Akoranga*

Prof Elissa Cameron, Room 234 Julius von Haast; phone 369 5596

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Lecturers / *Pūkenga*

Dr Robyn Hetem, Room 235 Julius von Haast

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Learning Outcomes / *Hua Akoranga* and Associated Assessment / *Aromatawai*

As a student in this course, I will develop the ability to:

- Demonstrate a sophisticated understanding and evaluation of experimental design, methodology and data in the field of environmental physiology (assessment tasks: seminar presentations)
- Demonstrate how dogma shapes scientific thinking (assessment tasks: tutorials)
- Use methodology designed for one purpose to develop universal hypotheses (assessment tasks: examination)
- The ability to access and critically assess the scientific literature (assessment task: examination)
- Develop and trial your own “teaching to learn” techniques (task: seminar presentations)

Transferable Skills / *Pūkenga Ngaio*

As a student in this course, I will develop the following skills:

- Ability to manage team work. Most jobs require interactions with others to accomplish a task to a particular standard and on time.
- Greater competence in evaluation and design of techniques relevant to physiology.
- Engage in science and technology issues with a broader understanding of their social context.
- The ability to develop methods and techniques for use in applied settings

Graduate attributes

	Critically competent	Employable, innovative and enterprising	Biculturally competent and confident	Engaged with the community	Globally aware
BIOL481	X	X		X	X

In planning activities and assessments for this course we will be guided by the descriptors for Level 8 of the NZQF:

Knowledge

Advanced technical and/or theoretical knowledge in a discipline or practice, involving a critical understanding of the underpinning key principles

Skills

Analyse and generate solutions to complex and sometimes unpredictable problems
Evaluate and apply a range of processes relevant to the profession or discipline field of work or study

Application

Developing identification with a profession and/or discipline through application of advanced generic skills and/or specialist knowledge and skills
Some responsibility for integrity of the profession or discipline field of work or study

Course content / *Hōtaka* (subject to minor changes)

The course is designed around six teaching periods (seminars). Readings will be distributed for each seminar well before the class and we expect you to read them. The seminars are discussion based and we expect that all students in the class will participate.

Topics may include:

Changing diets of wildlife

Body size physiology

Reproduction and birth

Contraception

Stress physiology

Maternal physiological effects on offspring development

The final list of topics will be determined during the first teaching session when we are aware of who is in the class. There is also the potential to discuss topics outside of this list if there is student interest.

Assessment / *Aromatawai*

Class presentations 10%

Assessment 1 20%

Assessment 2 20%

Exam 50%

Suggested deadline mid-course

Suggested deadline two weeks before the end of the course

Readings / *Pukapuka Ako*

Additional reading of recent books and scientific papers will be an essential adjunct to the tutorials, and development of the ability to evaluate such readings is an important objective for the course. Beyond formal sessions, you may be required to (and given time to) read material in a particular topic as part of the preparation.

Class material on Learn & use of *Turnitin*

We will be using Learn extensively to develop the **sense of community** within the course, and as a **forum** to conduct a range of learning activities. Resources used or referred to in tutorials will be available on-line on the course link in Learn. Please make contact with the Learn page for BIOL4xx on a regular basis.

Please also note that we will be requesting that you submit written work in both hard copy (for grading) **and in electronic form** (for assessment of originality using “*Turnitin*”). Instructions will be given on how you do this via Learn.

Students with Disabilities

Students with disabilities should speak with someone at the Equity & Disability Service, if you have not already done so (<https://www.canterbury.ac.nz/equity-disability/>). Please speak to the course coordinator at least one week before any course activity for which you have a special requirement.

Prerequisite - BSc in Biological Sciences or equivalent as determined by the Head of School and/or 4th-year coordinator.

RULES, REGULATIONS, AND WHAT TO DO WHEN THINGS GO WRONG

[updated March 2023]

If in doubt: ASK! The course coordinator is happy to answer questions. All staff involved in the course are available for advice on specific issues.

What do I do if I have to miss a test/exam or if my performance was impaired?

In Biological Sciences, we require a satisfactory level of achievement in both the theoretical aspects of the discipline and in practical activities. **This means you must attend all class activities (labs, tutorials, fieldtrips)** and submit all items of assessment unless you have a very good reason not to (e.g. medical reasons) and if this has been approved by your course coordinator.

If you feel that **illness, injury, bereavement or other extenuating circumstances beyond your control** prevented you from completing a **test/exam** worth 10% or more of the total course assessment, or if these circumstances affected your performance in such assessments, you should apply for Special Consideration. Applications for Special Consideration should be submitted via the Special Consideration website <http://www.canterbury.ac.nz/study/special-consideration/> *within five working days* of the assessment or its due date. You should also notify the course coordinator. If you apply for Special Consideration because of medical reasons, you should visit a doctor within a reasonable timeframe (application form available on the website above or from the Student Health Centre).

The Special Consideration provisions are intended to assist students who have covered the work of a course but have been prevented by illness or other critical circumstances from demonstrating their mastery of the material or skills at the time of a text/exam – **they do not excuse you from doing the test/exam** within a reasonable time agreed with the course coordinator.

What do I do if I have to miss a quiz or assignment or if I need an extension?

You cannot apply for Special Consideration if you miss an assessment that is not a test/exam, such as a quiz, lab report, essay, literature review or other assignment, or if the test/exam is worth less than 10% or more of the total course assessment. If this happens or if you need an extension because of **illness, injury, bereavement or other extenuating circumstances beyond your control**, please contact the course coordinator and arrange an alternate activity and/or submission date. You should also do this if you have to miss a laboratory, tutorial or field trip.

What are other valid reasons to miss an assessment or mandatory course activity?

The Special Considerations policy (<https://www.canterbury.ac.nz/about/governance/ucpolicy/student/specialconsideration-procedures-and-guidelines/>) outlines only a few kinds of activities that UC considers valid reasons for missing an assessment or mandatory course activity other than those outlined above. These include **involvement in international or national representative sport or cultural groups**. Holiday trips, birthday parties, weddings, workrelated commitments etc. are not given special status in this University policy. Please contact your course coordinator to ask for an alternate activity and/or submission date if you are eligible.

Special Consideration for late discontinuation of a course

Students prevented by **extenuating circumstances** from completing the course after the final date for withdrawing, may apply for Special Consideration for late discontinuation of the course. Applications must be submitted via <http://www.canterbury.ac.nz/study/special-consideration/> no later than five working days after the examination period has finished.

Academic Integrity

It is the responsibility of each student to be familiar with the definitions, policies and procedures concerning academic misconduct/dishonest behaviour. Instances of academic misconduct will be dealt with in a serious and appropriate manner. Students should refer to: <https://www.canterbury.ac.nz/about/ako/academic-quality/academic-integrity/>

Plagiarism

It is essential that you are aware that plagiarism is considered a very serious offence by the academic community, the University and the School of Biological Sciences. Plagiarism is defined as taking content from another work or author and presenting it, without attribution, as if it is your own work. Content here includes text (sentences or major parts of sentences), display items (graphs and tables), and overall structure (the detailed sequence of ideas). Plagiarism includes:

- re-use of previous assignments (even if each individual sentence has been rephrased to say the same thing in different words, if the overall structure is re-used).
- copying of another student's work (with or without their consent).
- the unreferenced use of published material or material from the internet, e.g. cutting and pasting of paragraphs or pages into an essay.
- the generation of text using artificial intelligence technology without disclosure and when it is not intended to be part of an assignment.

For most pieces of in-term assessment you will be given information concerning the use of direct and indirect quotes from previously published work. If you have any doubt about the appropriate use of published material, please speak with an academic staff member. If you are unsure what plagiarism is, seek advice.

It is a School policy that courses will likely that you submit work electronically for subsequent analysis of originality using *Turnitin*. Students agree that by taking courses in BIOL, assessments may be submitted to Turnitin.com for textual similarity review. All submitted papers will be included as source documents in the Turnitin.com reference database solely for the purpose of detecting plagiarism of such papers. Use of the Turnitin.com service is subject to the Terms and Conditions of Use as posted on the Turnitin.com site.

Where do I hand in assignments and then collect them once marked?

All assignments should be submitted as directed by the course coordinator. Typically, this will be electronically via Learn for on-line grading and for analysis in *Turnitin*. If a hard copy is requested, assignments should be placed in the designated collection boxes in the foyer of the 2nd floor of the School of Biological Sciences (Julius von Haast building, at the top of the stairs). All assignments must be accompanied by a cover sheet signed by you stating that the submitted work is not plagiarised. Cover sheets are available on top of the collection boxes, or you can download one from the Biology website (<http://www.canterbury.ac.nz/media/documents/science-documents/assignment-coversheet.pdf>).

Marked assignments will be returned through Learn or, if in hard copy, can be collected from the School of Biological Sciences reception, unless directed otherwise by the course coordinator. Teaching staff will endeavour to return work as soon as possible, and should contact you if there are likely to be any delays that will prevent return within the maximum 4-week timeframe.

What if I can't get it finished in time?

Reports and assignments should be handed in on time. Extensions may be granted if you have a valid reason (see above). **If you require an extension, you should request one from the course coordinator** (or the lecturer responsible for marking the work), with as much notice as possible. Please do this BEFORE the deadline for the assignment. **If you have been given an extension and you have been asked to submit a hard-copy of your work, you should hand the work DIRECTLY to the course coordinator** (do not put it in the drop box as it may not be cleared after the due date).

If an extension has not been granted:

- work handed in within 1 hour of the deadline: penalty of up to 5 percentage points of the mark for the assignment (e.g., a mark of 75% might be reduced to 70%).
- work handed in 1 – 24 hours after the deadline: penalty of 10 percentage points of the mark for the assignment (e.g., a mark of 75% is reduced to 65%).
- work handed in 1 – 7 days after the deadline: penalty of 15 percentage points of the mark for the assignment (e.g., a mark of 75% is reduced to 60%).
- work handed in more than 7 days after the deadline will not be marked or earn credit.

What if I have written more than the word or page limit?

If there is a word limit on an assignment, it is usually there to stop you doing too much work and to encourage you to write succinctly. You can be up to 10% over without too much worry, but if the length increases beyond that your mark may suffer due to failure to follow the requirements. If you find yourself way over the word limit talk to the lecturer concerned about how to get your assignment to an acceptable length. Unless specifically advised that there is flexibility, you must adhere to the word limit indicated.

What if I fail part of the course?

In Biological Sciences, we require a satisfactory level of achievement in both the theoretical aspects of the discipline and in practical activities. This means you must attend all class activities and submit all items of assessment unless you have a very good reason not to (e.g. medical reasons). **A student must attain an average score of at least 40% for incourse assessments (e.g. assignments, reports, quizzes) and an average score of at least 40% in the exam and/or tests, AND score at least 50% overall for the course, to be awarded a passing grade. See the course outlines for clarification of the assessment items included in each category and ask the coordinator if you are still unsure.**

What's the best way to give feedback?

We welcome constructive feedback at all times – help us to make this a valuable course for you. We endeavour to remain approachable at all times. If you would rather give feedback anonymously, please use the online course survey or talk to lab demonstrators, or your class rep (who will all report back to the staff-student liaison committee that includes a representative from each of the undergraduate classes). Class representatives will be selected from each class at the start of course.

What's the best way to complain?

If you feel you have not been fairly treated during this course, please raise the issue with the lecturer or course coordinator in the first instance. Other avenues include your class rep., who can raise issues anonymously, or the UCSA education coordinator.

Grading

A+	90% or above A
	85 – 90
A-	80 – 84
B+	75 – 79
B	70 – 74
B-	65 – 69
C+	60 – 64
C	55 – 59
C-	50 – 54

A restricted pass (R) **may** be awarded to those who are close to a pass (i.e. an overall score of 48-49.9%) AND who have achieved at least a 40% overall score in both in-course assessment and tests/exams. If an R grade is awarded you gain credit for the course but **cannot continue into papers that require this course as a pre-requisite**. NB. The R grade is only available at 100 and 200 level - it cannot be awarded for third year papers.

Failing grades: D 40-49 E 0-39