



PHSL2201/PHSL2221/PHSL2502

Physiology 1B

Course Outline

Term 2, 2023

School of Biomedical Sciences
Faculty of Medicine & Health

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1. Staff

Position	Name	Email	Consultation times and locations	Contact Details
Course Convenors	Dr Lesley Ulman Dr Nicole Marden	phys1b@unsw.edu.au phys1b@unsw.edu.au	By Appointment	ph: (02) 9385 3601 ph: (02) 9065 0453
Lecturers	Dr V.Birzniece Dr N.Marden Dr J.Cederholm Dr K.Gibson Dr T. Murphy	v.birzniece@unsw.edu.au n.marden@unsw.edu.au j.cederholm@unsw.edu.au k.gibson@unsw.edu.au Tim.Murphy@unsw.edu.au	By Appointment	Email

If you need to consult with the course convenors or a lecturer, appointments can be set up through email.

The teaching staff involved in the running of this course are located on the second and third floors of the east and west wings of the Wallace Wurth building. Unfortunately, students are not able to access these areas and if you wish to contact one of us you will need to do so by email, and we can organise to meet with you if necessary.

2. Course information

Units of credit: 6 Units of Credit

Pre-requisite(s): PHSL2101 or PHSL2121 or PHSL2501

Teaching times and locations - this is a jointly taught course. Refer to:

- PHSL2201 - <https://timetable.unsw.edu.au/2023/PHSL2201.html>
- PHSL2221 - <https://timetable.unsw.edu.au/2023/PHSL2221.html>
- PHSL2502 - <https://timetable.unsw.edu.au/2023/PHSL2502.html>

2.1 Course summary

This course introduces students to fundamental physiological principles, from basic cellular function in terms of chemical and physical principles to the operation and interaction of body systems. Although introductory in the level of content, this course in Human Physiology is comprehensive in scope covering a range of body systems from a cellular to a more integrative approach. The areas of physiology covered in this course are temperature regulation, endocrine physiology, reproduction, respiratory physiology, kidney and body fluids, and the gastrointestinal system. The course includes a substantial series of practical class experiments in which students work in small groups to conduct experiments that give a deeper insight into these specific topic areas, and an appreciation of how the results of experiments depend not only on what we measure but how we measure it. Online self-directed activities and practicals classes further support the course content and learning objectives.

2.2 Course aims

This is the second of our two introductory physiology courses and is offered to students who have successfully completed the first term course. The major aims of this course are to provide students with a basic understanding of the fundamental processes and mechanisms that serve and control the various functions of the body. Physiology is a core discipline in the study of body function and this introductory course is offered to students from a diverse range of study programs. The course aims to equip students to progress further in medical sciences or related subjects, and / or to be able to apply their specific program knowledge in a biological context.

It should be noted that, although introductory, this course in Human Physiology is comprehensive in scope. Areas treated in detail include both relatively simple cellular mechanisms as well as more complex interactions between whole organ systems. It should also be noted that, where appropriate, subject areas are treated quantitatively as well as qualitatively, an approach that requires students to have at least a basic knowledge of mathematics and chemistry.

2.3 Course learning outcomes (CLO)

At the successful completion of this course you (the student) should be able to:

1. demonstrate an understanding of the fundamental principles underlying the function of the individual body systems covered, which include temperature regulation, endocrine physiology, reproduction, respiratory physiology, kidney and body fluids, and the gastrointestinal system.
2. clearly and concisely describe the basic physiological mechanisms underlying the body's response to different stimuli and/or maintaining homeostasis as related to the different organ systems covered.
3. develop basic skills in experimental physiology with a focus on skills in accurately interpreting experimental data related to the systems under study.

The Bachelor of Science learning outcomes are outlined at

[Handbook - Science \(unsw.edu.au\)](http://unsw.edu.au)

UNSW programs aspire to graduate:

- a) Scholars capable of independent and collaborative enquiry, rigorous in their analysis, critique and reflection, and able to innovate by applying their knowledge and skills to the solution of novel as well as routine problems.
- b) Entrepreneurial leaders capable of initiating and embracing innovation and change, as well as engaging and enabling others to contribute to change.
- c) Professionals capable of ethical, self- directed practice and independent lifelong learning.
- d) Global citizens who are culturally adept and capable of respecting diversity and acting in a socially just and responsible way.

2.4. Relationship between course learning outcomes and assessments

Course Learning Outcome (CLO)	LO Statement	Related Tasks & Assessment
CLO 1	Demonstrate an understanding of the fundamental principles underlying the function of the individual body systems covered, which include temperature regulation, endocrine physiology, reproduction, respiratory physiology, kidney and body fluids, and the gastrointestinal system.	Mid-session Theory exam Online tutorials End of session exam
CLO 2	Clearly and concisely describe the basic physiological mechanisms underlying the body's response to different stimuli and/or maintaining homeostasis as related to the different organ systems covered.	Mid-session Theory Exam Post lab revision modules End of session exam
CLO 3	Develop basic skills in experimental physiology with a focus on skills in accurately interpreting experimental data related to the systems under study.	Post lab revision modules End of session exam

3.Strategies and approaches to learning

3.1 Learning and teaching activities

The philosophy underpinning this course and its Teaching and Learning Strategies is based on "Guidelines on Learning that Inform Teaching at UNSW". The teaching activities are centered on assisting you to achieve the course aims and learning objectives, in an environment which interests and challenges you. The teaching of Physiology 1B is structured around established knowledge of the fundamental processes and mechanisms that serve and control the various functions of the body. Content is delivered by discipline experts, drawn from different research areas.

Physiology 1B is delivered across 10 teaching weeks in Term 2, typically comprising 3 x 1 hr lectures per week, 1 x 3 hours practical class per fortnight, and a series of supporting online learning activities. Although the primary source of information for this course is the lecture material, effective learning can be enhanced through self-directed use of other resources such as textbooks, literature references and web-based sources. Lectures will provide you with the concepts and theory essential for an understanding of the fundamental processes of body function. Your practical classes will be directly related to the lecture material, and it is essential that all students prepare for practical classes before attending by completing the online pre-laboratory modules (accessed through Moodle) and reading the practical notes (available via Moodle). The practical classes assist in the development of research and analytical skills, and further learning of the key objectives. Physiology is an experimental discipline, and the practical work allows you to obtain insights into the development of knowledge and experimental approaches.

The online learning modules are a mix of activities designed to review the materials and/or support the exploration of the material in more depth. Online tutorials allow you to engage in a more interactive form of learning than is possible in the lectures. They have been carefully designed to enhance and test your understanding of the lecture material.

It is up to you to ensure you perform well in each part of the course: keeping up with the lecture material posted on Moodle, attending the weekly online question and answer sessions, engaging with the tutorials, making full use of the pre and post laboratory modules, studying for exams and seeking assistance to clarify your understanding. Online Knowledge Consolidation quizzes and past exam questions are provided to assist you in preparing for examinations.

Students are strongly recommended to allocate additional time for self-directed study, which includes revision for assessments.

3.2 Expectations of students

Students are reminded that UNSW recommends that a 6 units-of-credit course should involve about 150 hours of study and learning activities. The formal learning activities total approximately 50 hours throughout the term and students are expected (and strongly recommended) to do at least the same number of hours of additional study.

Participation

Attendance at **ALL** of the face-to-face practical classes is deemed to be compulsory unless you have a medical or other valid reason for non-attendance. It is really important that you register your attendance in each practical class by ensuring that you get your name marked off the class roll.

Satisfactory completion of the work set for each class is essential and **IS A REQUIREMENT FOR PASSING PHYSIOLOGY**. Non-attendance for other than documented medical or other serious reasons may make you ineligible to successfully complete this course. At the very least you may be required to complete written reports on the practical classes, as well as undertaking the normal practical exam.

Students who miss practical classes due to illness or for other reasons must submit a medical certificate to the course convenors **WITHIN 7 DAYS** of missing a class. If received after this time, no consideration will be given, and you will be marked absent from that class. Medical certificates may be sent via email to the course convenors (phys1b@unsw.edu.au), submitted to academic staff during lab time, or left with a member of the technical staff located in room 118 East Wing Wallace Wurth Building.

The following details must be provided along with the medical certificate: Name, Student number, Group number, Date of the class, Name of class missed.

Please note that you are NOT required to apply for special consideration via Online Services in myUNSW for a missed practical class. The Special Considerations unit will NOT process these applications.

The practical exam is compulsory FOR ALL STUDENTS.

Missing any examination, however, requires lodging a medical certificate via Online Services in myUNSW within 3 DAYS of the missed assessment.

(further details on how to do this can be found via the following link: student.unsw.edu.au/special-consideration).

Important note regarding COVID-19 and attendance:

It is important that we highlight safety precautions relating to COVID-19 and attendance.

You should not attend campus if you are unwell or experiencing any COVID-19 or respiratory symptoms. If you are unwell, please take the time you need to recover. If you have mild symptoms but are well enough to study, we urge you to study from home until your symptoms have cleared. Staying off campus when you have symptoms will ensure that we continue to protect everyone in our community, especially the most vulnerable.

If you were on campus during your infectious period, (2 days before onset of symptoms or positive test), please let us know immediately by submitting the UNSW COVID-19 Case Notification [form](#). We use this information to alert our community members to the sites of potential exposure on campus.

Household and close contacts of COVID-19 do not need to self-isolate. However, you should not attend campus if you are unwell or experiencing any COVID-19 or respiratory symptoms. If you are unwell, please follow the advice above.

Students who miss practical classes due to infection with COVID-19 are not required to provide any medical documentation, however you **must** contact the course convenors (Phys1b@unsw.edu.au) to inform them of your absence.

Please refer to the UNSW COVID 19 Coronavirus Advice & FAQs – Information for Students for further information relating to keeping the UNSW community safe from COVID-19: <https://www.covid-19.unsw.edu.au/information-students>

Guidelines on Extra-curricular activities affecting attendance

Students should refer to the following website for information relating to extracurricular activities.

<https://medicalsciences.med.unsw.edu.au/sites/default/files/Extra-curricularActivitiesSOMS.pdf>

4. Course schedule and structure

4.1 Course structure

Physiology 1 is a 6 unit of credit course which will be delivered in a blended mode. There will be no face-to-face lectures; instead lecture material will be incorporated into an online delivery mode combining short videos, text, activities and quizzes. These online lecture modules will provide you with the concepts and theory essential for understanding the fundamental processes of body function. There will be a series of synchronous online Q&A sessions at 5pm most Mondays for students to ask questions and clarify any issues which may have arisen from the previous weeks lecture material. In some weeks, Q&A sessions have been scheduled for 9am on Tuesday or Wednesday – this is to make up for sessions missed due to public holidays and to allow extra sessions for exam revision. Please refer to the course schedule for details of these. There are online tutorials relating to all the major topic areas. These are designed to complement and enhance your understanding of the lecture material.

The practical classes are a major component of our course.

All students enrol in a face-to-face practical group. There will be 4 timetabled face-to-face practical sessions. You will be divided into small working teams of approximately 6 students within your practical group at the beginning of the term and you will remain in these teams throughout the term. These practicals comprise a fortnightly 3-hour laboratory session during which you will work in your teams and carry out the laboratory exercises outlined in the practical notes.

There are also 2 online self-directed practical classes which all students will complete in their own time. These classes are clearly outlined in your practical timetable.

4.2 Term 2 2023 Course Schedule

PHSL2201 / 2221 / PHSL2502: TERM 2 2023 COURSE SCHEDULE

Week No. Commencing	Recorded Lectures (Asynchronous: accessed via Moodle)	Live Sessions: Q&A Sessions (MS Teams) & Mid-term exam	Practicals	Deadlines (post-labs and tutorials)
O-Week, 22-May	Moodle Welcome – Introductory presentation video			
1 29-May (CLO 1, 2 & 3)	<p>Endocrine L1: Mechanisms of hormone action <i>Birzniece</i></p> <p>Endocrine L2: Pancreas and feedback loops <i>Birzniece</i></p> <p>Endocrine L3: Thyroid and parathyroid gland <i>Birzniece</i></p>	<p>Mon 29 May 5-6 PM Course Introduction & Q&A <i>Ulman, Marden, All Staff</i></p>	<p>Thyroid Physiology: Group 1: Tues 30 May 10-1 <i>WW 115</i></p> <p>Group 2: Tues 30 May 2-5 <i>WW 115</i></p> <p>Group 3: Wed 31 May 10-1 <i>WW 115</i></p>	
2 5-Jun (CLO 1, 2 & 3)	<p>Endocrine L4: Hypothalamus and pituitary <i>Birzniece</i></p> <p>Endocrine L5: Adrenal gland <i>Birzniece</i></p> <p>Reproduction L1: Male reproductive system <i>Marden</i></p>	<p>Mon 5 June 5-6 PM Endocrine L1-L3 Q&A <i>Birzniece</i></p>	<p>Thyroid Physiology: Group 4: Tues 6 Jun 10-1 <i>WW 115</i></p> <p>Group 5: Tues 6 Jun 2-5 <i>WW 115</i></p> <p>Group 6: Wed 7 Jun 10-1 <i>WW 115</i></p>	
3 12-Jun (CLO 1, 2 & 3)	<p>Reproduction L2: Female reproductive system <i>Marden</i></p> <p>Reproduction L3: Pregnancy <i>Marden</i></p> <p>Respiration L1: Respiratory System <i>Cederholm</i></p>	<p>Mon 12 June: Kings Birthday – no Q&A</p> <p>Tues 13th June 9-10 AM Endocrine L4-L5 Q&A <i>Birzniece</i></p>	<p>Endocrine and Reproductive Physiology: Group 1: Tues 13 Jun 10-1 <i>WW 115</i></p> <p>Group 2: Tues 13 Jun 2-5 <i>WW 115</i></p> <p>Group 3: Wed 14 Jun 10-1 <i>WW 115</i></p>	

<p>4 19-Jun (CLO 1, 2 & 3)</p>	<p>Respiration L2: Lung Volumes, capacities and compliance <i>Cederholm</i></p> <p>Respiration L3: Ventilation <i>Cederholm</i></p> <p>Respiration L4: Oxygen transport <i>Cederholm</i></p>	<p>Mon 19 June 5-6 PM Reproduction Q&A <i>Marden</i></p>	<p>Endocrine and Reproductive Physiology: Group 4: Tues 20 Jun 10-1 <i>WW 115</i></p> <p>Group 5: Tues 20 Jun 2-5 <i>WW 115</i></p> <p>Group 6: Wed 21 Jun 10-1 <i>WW 115</i></p>	<p>Thyroid post-lab due Wednesday 21st June 11.55 PM</p> <p>Endocrine Physiology tutorial due Sunday 25th June 11.55 PM</p>
<p>5 26-Jun (CLO 1, 2 & 3)</p>	<p>Respiration L5: Carbon dioxide and blood buffering <i>Cederholm</i></p> <p>Respiration L6: Control of respiration <i>Cederholm</i></p> <p>Temperature Regulation <i>Gibson</i></p>	<p>Mon 26 June 5-6 PM Mid-term Revision Q&A <i>Ulman, Birzniece, Marden</i></p> <p>Wed 28 June 9-10 AM Mid-term Exam</p>	<p>NO PRACTICALS</p>	<p>Reproductive Physiology tutorial due Sunday 2nd July 11.55 PM</p>
<p>6 3-Jul</p>	<p>Flexibility Week</p>			
<p>7 10-Jul (CLO 1, 2 & 3)</p>	<p>Kidney & Body Fluids L1: Body fluids and introduction to the kidney <i>Gibson</i></p> <p>Kidney & Body Fluids L2: Process of urine formation; renal blood flow and glomerular filtration <i>Gibson</i></p> <p>Kidney & Body Fluids L3: Measurement of RPF; clearance and tubular function <i>Gibson</i></p>	<p>Mon 10 Jul 5-6 PM Respiration / Temp Reg Q&A <i>Cederholm & Gibson</i></p>	<p>Respiratory Gas Exchange: Group 1: Tues 11 Jul 10-1 <i>WW 115</i></p> <p>Group 2: Tues 11 Jul 2-5 <i>WW 115</i></p> <p>Group 3: Wed 12 Jul 10-1 <i>WW 115</i></p> <p>Online Renal Physiology Practical Module 1: All groups</p>	<p>Reproductive & Endocrine Physiology post-lab due Monday 10th July 11.55 PM</p> <p>Respiratory Physiology tutorial due Sunday 16th July 11.55 PM</p>

<p>8 17-Jul (CLO 1, 2 & 3)</p>	<p>Kidney & Body Fluids L4: Tubular function (cont) and water balance <i>Gibson</i></p> <p>Kidney & Body Fluids L5: Water balance (cont); sodium balance and potassium balance <i>Gibson</i></p> <p>Kidney & Body Fluids L6: Potassium balance (cont) and acid-base balance and the kidney <i>Gibson</i></p>	<p>Mon 17 Jul 5-6 PM Kidney & Body Fluids L1-L3 Q&A <i>Gibson</i></p>	<p>Respiratory Gas Exchange: Group 4: Tues 18 Jul 10-1 <i>WW 115</i></p> <p>Group 5: Tues 18 Jul 2-5 <i>WW 115</i></p> <p>Group 6: Wed 19 Jul 10-1 <i>WW 115</i></p> <p>Online Renal Physiology Practical Modules 2 & 3: All groups</p>	
<p>9 24-Jul (CLO 1, 2 & 3)</p>	<p>Gastrointestinal Tract L1: Overview of the Gastrointestinal System <i>Murphy</i></p> <p>Gastrointestinal Tract L2: Digestion and Absorption of Nutrients <i>Murphy</i></p> <p>Gastrointestinal Tract L3: Gastrointestinal Secretions <i>Murphy</i></p>	<p>Mon 24 Jul 5-6 PM Kidney & Body Fluids L4-L6 Q&A <i>Gibson</i></p>	<p>Control of Respiration: Group 1: Tues 25 Jul 10-1 <i>WW 115</i></p> <p>Group 2: Tues 25 Jul 2-5 <i>WW 115</i></p> <p>Group 3: Wed 26 Jul 10-1 <i>WW 115</i></p> <p>Online Renal Endocrine Practical: All groups</p>	
<p>10 31-Jul (CLO 1, 2 & 3)</p>	<p>Gastrointestinal Tract L4: Liver and the biliary system <i>Gibson</i></p> <p>Gastrointestinal Tract L5: Motility in the GI Tract <i>Murphy</i></p> <p>Gastrointestinal Tract L6: The Large Intestine <i>Murphy</i></p>	<p>Mon 31 Jul 5-6 PM Theory and Prac Exam Revision Q&A <i>Ulman, Marden, Birzniece, Cederholm, Gibson & Murphy</i></p> <p>Wed 2 Aug 9 AM Gastrointestinal Tract Q&A <i>Murphy & Gibson</i></p>	<p>Control of Respiration: Group 4: Tues 1 Aug 10-1 <i>WW 115</i></p> <p>Group 5: Tues 1 Aug 2-5 <i>WW 115</i></p> <p>Group 6: Wed 2 Aug 10-1 <i>WW 115</i></p>	<p>Respiratory Gas Exchange post-lab due Wednesday 2nd August 11.55 PM</p> <p>Kidney & Body Fluids tutorial due Sunday 6th August 11.55 PM</p> <p>Control of Respiration post-lab due Wednesday 16th August 11.55 PM</p> <p>GIT tutorial due Sunday 20th August 11.55 PM</p>

Exam Period: 11 Aug – 24 Aug 2023

Supplementary Exam Period: 4 Sep – 8 Sep 2023

4.3 Practical Class Information

Practical classes are a core experience in your degree and are a major component of our course. Practical classes provide the opportunity to acquire valuable generic skills.

All students will complete 6 practical classes. 4 of the 6 practicals (Thyroid Physiology, Endocrine & Reproductive Physiology, Respiratory Gas Exchange and Control of Respiration) will be run as face-to-face practical classes in our teaching laboratories in the Wallace Wurth Building, while the remaining 2 practical classes will be self-directed online practical classes which all students will complete in their own time. All 6 practical classes are examinable in the end of session exam.

The first self-directed online practical is the Renal Physiology practical, which consists of 3 modules. Module 1 can be completed after the first Kidney & Body Fluids lecture, while Modules 2 and 3 should be completed towards the end of the Kidney & Body Fluids lectures. The second online practical is the Renal Endocrine practical which should be completed towards the end of the Kidney & Body Fluids lectures.

For each face-to-face practical class, we have designed an online pre-laboratory module to enable you to understand what you will be doing in that particular class and to outline important Health and Safety information relating to the practical. You are required to complete this module before attending the relevant practical and will not be allowed into the class if this has not been completed.

PHYSIOLOGY TERM 2 PRACTICAL TIMETABLE 2023

Week	Day & Time	Date	Prac Group	Face-to-face practicals Wallace Wurth East Wing LAB 115	Prac Group	Online practicals
1 (CLO 3)	Tues 10-1 Tues 2-5 Wed 10-1	30/5 30/5 31/5	1 2 3	THYROID PHYSIOLOGY		N/A
2 (CLO 3)	Tues 10-1 Tues 2-5 Wed 10-1	6/6 6/6 7/6	4 5 6			
3 (CLO 3)	Tues 10-1 Tues 2-5 Wed 10-1	13/6 13/6 14/6	1 2 3	ENDO/REPRO PHYSIOLOGY		N/A
4 (CLO 3)	Tues 10-1 Tues 2-5 Wed 10-1	20/6 20/6 21/6	4 5 6	ENDO/REPRO PHYSIOLOGY		N/A
5 (CLO 3)	Tues 10-1 Tues 2-5 Wed 10-1	27/6 27/6 28/6	NO PRACTICALS			
6 (CLO 3)	Tues 10-1 Tues 2-5 Wed 10-1	4/7 4/7 5/7	FLEXIBILITY WEEK			
7 (CLO 3)	Tues 10-1 Tues 2-5 Wed 10-1	11/7 11/7 12/7	1 2 3	RESPIRATORY GAS EXCHANGE	ALL GPS	Online Renal Physiology Practical Module 1
8 (CLO 3)	Tues 10-1 Tues 2-5 Wed 10-1	18/7 18/7 19/7	4 5 6	RESPIRATORY GAS EXCHANGE	ALL GPS	Online Renal Physiology Practical Modules 2 & 3
9 (CLO 3)	Tues 10-1 Tues 2-5 Wed 10-1	25/7 25/7 26/7	1 2 3	CONTROL OF RESPIRATION	ALL GPS	Online Renal Endocrine Practical
10 (CLO 3)	Tues 10-1 Tues 2-5 Wed 10-1	1/8 1/8 2/8	4 5 6	CONTROL OF RESPIRATION		

COMPULSORY LAB COATS REQUIRED FOR "SHADED" CLASSES

Exam Period: 11 Aug – 24 Aug 2023

Supplementary Exam Period: 4 Sep – 8 Sep 2023

Laboratory Regulations and Behaviour

Health and Safety is a primary concern for both students and staff working in any laboratory.

The following regulations MUST be adhered to when participating in Physiology practical classes:

- Each practical class has a student risk assessment (SRA) and a student safe working procedure (SSWP) associated with it.
- The SRA identifies the hazards and risks associated with the particular practical and outlines appropriate controls that must be followed to minimize these risks. The SRA also lists the personal protective equipment (PPE) that students are required to wear for that class, emergency procedures and clean up and waste disposal instructions. Please note that the SRA has been updated carefully to incorporate COVID-19 safety precautions.
- The SSWP provides background information relating to the class and outlines the procedures to be carried out in that class.
- Students must read the practical notes and sign the SRA prior to commencing the class.
- In each laboratory there are also more comprehensive school approved risk assessments, associated safe work procedures and safety data sheets (SDS) for each particular class. You may refer to these if you require further information. First aid kits and specific spill kits are also located in the laboratories.
- If any accidents or incidents occur, they should be reported immediately to the demonstrator in charge of the class who will record the incident and recommend what further action is required.
- Students are required to wear the appropriate PPE for each class. As part of our COVID-19 safety precautions, students are strongly advised to wear surgical facemasks in addition to other PPE required for the class. Students should bring their own masks, or they can purchase one from the technical staff or on campus.
- Enclosed shoes are mandatory for entering any laboratory and you will not be permitted to participate in the practical if you are not wearing appropriate footwear. Most practical classes will also require a lab coat which you must provide. You must regularly wash your lab coat. If you do not bring your lab coat to these classes, you will not be able to participate.
- Many classes will require you to wear gloves (which will be provided). Gloves must be removed before writing in lab books and using computers or other electrical equipment.
- You must not wear lab coats or gloves outside the laboratory.
- You must not eat or drink in any laboratory.
- Students are expected to arrive on time. Any student arriving more than 10 minutes late may be refused entry.
- Mobile phones should be turned off before entering the class.
- Laboratory computers may only be used for work relating to the practical class.
- It is expected that students behave appropriately in laboratory classes. In the event of inappropriate behaviour students may be asked to leave.

- It is of course vital that animals used in practical classes **MUST** be treated humanely and with respect. Taking photos or videos is **ABSOLUTELY UNACCEPTABLE** and will result in removal from the class and a referral to the Head of Department.

The procedures used in the laboratory classes involving the use of animals have been approved by the UNSW Animal Ethics Committee on the Use of Animals in Research and Teaching (Approval Number: ACEC 22/54B expiring on May 17, 2025).

Experiments in this course which involve the use of human subjects, have been considered and approved by the School of Biomedical Sciences Teaching Ethics Committee on Experimental Procedures Involving Human Subjects for teaching. Practical classes involving your participation as a subject requires you to read the Participant information sheet and sign a witnessed, informed consent form.

5. Assessment

5.1 Assessment tasks

The exams will be held online and more details will be given closer to the exam dates.

Assessment task	Length	Weight	Mark	Due date
1: Mid-session Theory Exam	50 min (+5 min reading time)	20%	<p>Wednesday 28th June 9am <i>10 multiple choice questions on material covered in all Endocrine Physiology and Reproductive Physiology lectures and tutorials.</i></p> <p>Two 15-minute short answer questions: one on <i>Endocrine Physiology</i> and one on <i>Reproductive Physiology</i>.</p>	Week 5 Wed 9am 28 June
2: Online tutorials	varied	10%	<p>5 online tutorials (2% each) related to each of the major lecture topics. You will be required to interact and provide answers to questions online in Moodle. You can attempt these tutorials as many times as you wish but you need to score 90% or more by the due date in order to attain the 2% course credit assigned to each of the online tutorials.</p> <p><i>Part marks will not be awarded for attempts scoring less than 90%. Once you do get your 2% or if the deadline is reached, this graded version of the tutorial will no longer be available, but an identical non-graded revision module will be available.</i></p> <p><i>A timetable showing the due dates for each tutorial is available on Moodle.</i></p>	Refer to 4.2 Course Schedule
3: Post lab Revision Modules	varied	10%	<p>4 post-laboratory revision modules (2.5% each), one for each of the face-to-face practical classes. The post-lab modules are accessed via Moodle and should be completed after the respective practicals as they have been designed to consolidate your understanding of the material covered in the practical.</p>	Refer to 4.2 Course Schedule

			<p>You can attempt these revision modules as many times as you wish but you need to score 90% or more by the due date in order to attain the 2.5% course credit assigned to each revision module.</p> <p><i>Part marks will not be awarded for attempts scoring less than 90%. Once you do get your 2.5% or if the deadline is reached, this graded version of the post-lab revision module will no longer be available, but an identical non-graded revision module will be available.</i></p> <p><i>A timetable showing the due dates for each post-lab revision module is available on Moodle.</i></p>	
4: End of session Exams			<p>Exam Period: 11 Aug – 24 Aug 2023</p>	Exam period – exact dates / times to be advised
Part 1 – Theory	Part 1 85 min (+10 min reading time)	35%	<p><i>Part 1 covers topics in the <u>second</u> part of the course and consists of 20 MCQs on Respiration, Temperature Regulation, Kidney & Body Fluids and Gastrointestinal Physiology lectures and tutorials and three 15-minute short answer questions: one on Respiration, one on Kidney & Body Fluids and one on Gastrointestinal Physiology lectures and tutorials.</i></p>	
Part 2 – Practical	Part 2 60 min	25%	<p><i>Part 2 covers material from the Practical Classes throughout the <u>whole</u> course (face-to-face and online) and is comprised of 30 MCQs.</i></p>	

Further information

UNSW grading system: <https://student.unsw.edu.au/grades>

UNSW assessment policy: <https://student.unsw.edu.au/assessment>

5.2 Assessment criteria and standards

Grading of online tutorials

There are five major tutorial topics: Endocrine Physiology, Reproductive Physiology, Respiration, Kidney & Body Fluids and Gastrointestinal Physiology. Within each of these major tutorial topics, some are broken down into smaller sub-topic modules.

Each of the major tutorial topics contribute 2% towards the final course grade. The grades for the smaller sub-topic modules within a major topic are equally weighted and thus depend on the number of smaller modules within that topic (e.g. for Reproductive Physiology there are 3 sub-topic modules, which are each worth approximately 0.67%, whereas for the Kidney there are only 2 sub-topic modules, which are therefore each worth 1%).

Remember that you need to achieve a minimum score of 90% in a particular tutorial module by the due date in order to be awarded the grade for that module. If you do not achieve the required minimum score, the gradebook will either show no grade or a zero grade for that particular module and you will need to attempt it again before the due date.

Absolutely no extensions on due dates will be given.

The grades for all the tutorial modules are outlined below:

Major tutorial topic	Subtopic Module	Grade
Tutorial 1: Endocrine Physiology	Only 1 part: Endocrine Physiology	2.00
	Maximum Total for Endocrine Physiology	2.00
Tutorial 2: Reproductive Physiology	Part 1: Male Reproductive System	0.67
	Part 2: Female Reproductive System	0.67
	Part 3: Pregnancy	0.66
	Maximum Total for Reproductive Physiology	2.00
Tutorial 3: Respiration	Only 1 part: Respiratory System	2.00
	Maximum Total for Respiration	2.00
Tutorial 4: Kidney & Body Fluids	Part 1: Kidney & Body Fluids	1.00
	Part 2: Kidney & Body Fluids	1.00
	Maximum Total for Kidney & Body Fluids	2.00
Tutorial 5: Gastrointestinal Tract	Only 1 part: Gastrointestinal Physiology	2.00
	Maximum Total for GIT	2.00

Grading of post-laboratory revision modules

There are 4 post-laboratory revision modules, one for each of the face-to-face practical classes: Thyroid Physiology, Endocrine & Reproductive Physiology, Respiratory Gas Exchange and Control of Respiration. Each post-laboratory revision module is accessed via Moodle and contributes 2.5% towards the final course grade. You will be required to interact and provide answers to questions online in Moodle, and you will receive feedback to help you understand why your answers are correct or incorrect.

Remember that you need to achieve a minimum score of 90% in a particular post-laboratory revision module by the due date in order to be awarded the grade for that module. If you do not achieve the required minimum score, the gradebook will either show no grade or a zero grade for that particular module and you will need to attempt it again before the due date.

Absolutely no extensions on due dates will be given.

5.3 Submission of assessment tasks

Tutorials and post-lab revision modules are to be completed online in Moodle by the due dates. No extensions on deadlines will be given. Exams will also be held online and more details will be given closer to the exam dates.

Late Submission

UNSW has standard late submission penalties as outlined in the UNSW Assessment Implementation Procedure, with no permitted variation. All late assignments (unless extension or exemption previously agreed) will be penalised by 5% of the maximum mark per day (including Saturday, Sunday and public holidays). For example, if an assessment task is worth 30 marks, then 1.5 marks will be lost per day (5% of 30) for each day it is late. So, if the grade earned is 24/30 and the task is two days late the student receives a grade of 24 – 3 marks = 21 marks.

Late submission is capped at 5 days (120 hours). This means that a student cannot submit an assessment more than 5 days (120 hours) after the due date for that assessment.

Special Consideration

If you experience a short-term event beyond your control (exceptional circumstances) that impacts your performance in a particular assessment task, you can apply for Special Considerations.

You must apply for Special Consideration **before** the start of your exam or due date for your assessment, except where your circumstances of illness or misadventure stop you from doing so.

If your circumstances stop you from applying before your exam or assessment due date, you must **apply within 3 working days** of the assessment, or the period covered by your supporting documentation.

More information can be found on the [Special Consideration website](#).

UNSW has a Fit to Sit / Submit rule, which means that if you sit an exam or submit a piece of assessment, you are declaring yourself fit to do so and cannot later apply for Special Consideration. If you miss an assessment and have applied for Special Consideration, this will be taken into account when your final grade is determined. You should note that marks derived from completed assessment tasks may be used as the primary basis for determining an overall mark e.g. by extrapolating from your percentile rank on those tasks. Where appropriate, supplementary examination may be offered. **These will be held between 4 Sep – 8 Sep 2023 for Term 2 2023 so you MUST ensure that you are available throughout this period.**

Normally, if you miss an exam (without medical reasons) you will be given an absent fail. If you start an exam late no time extension will be granted. Please refer to student.unsw.edu.au/special-consideration for further details regarding special consideration.

Repeating students

Practical class exemptions may be granted to repeat students, but students must check with the course convenor whether they have exemption prior to their first practical class. All students must be familiar with the material covered in the practical classes. All students must do the final practical exam.

Educational Adjustments

Those students who have a disability that requires some adjustment in their teaching or learning environment are encouraged to discuss their study needs with the course convenors prior to, or at the commencement of their course, or with the Disability Advisor in the Equitable Learning Services unit (formerly Disability Support Services) (9385 4734 or <https://student.unsw.edu.au/els>). Students that have been granted an Equitable Learning Plan (ELP) should email this to the Course Convenors (Phys1b@unsw.edu.au) as soon as possible in the term.

Issues to be discussed may include access to materials, signers or note-takers, the provision of services and additional exam and assessment arrangements. Early notification is essential to enable any necessary adjustments to be made.

5.4 Feedback on assessment

Feedback on Mid-session Theory Exam, Online Tutorials and Post-laboratory Revision Modules

Model answers to the short answer questions in the mid-session theory exam will be posted up in Moodle as soon as possible after the exam. Students will be given temporary access to their own submitted answers and will be able to see where they went wrong by comparing their answers to the model answer supplied.

The online tutorials and post lab modules are interactive and will let the student know if they have provided an incorrect answer.

Knowledge Consolidation Quizzes

Aside from the graded assessments, we also have a series of formative knowledge consolidation quizzes relating to each lecture topic. While there is no course credit assigned to these quizzes, they allow you to test your understanding of each topic and half of the multiple choice questions in the theory exams will be taken directly from this bank of questions while the other half will be modified bank questions. These quizzes will be available via Moodle throughout the entire term but are best attempted after completion of the corresponding lectures. These quizzes are designed to be used as a study aid and you will receive immediate detailed feedback after submitting your answers. You can attempt these formative quizzes in your own time and as many times as you wish.

Please note that knowledge consolidation quizzes are intended to motivate your study, provide feedback on your progress and to stimulate your learning. There is published data which demonstrates that students who participate in this sort of assessment perform significantly better than their peers in end of course examinations.

When attempting each knowledge consolidation quiz, it is recommended that you complete it under exam conditions (by exam conditions, we mean you should do it by yourself, don't look up the answers as you do it, and commit yourself to an answer), at least the first time you attempt it. This will provide the most realistic appraisal of your performance.

Give yourself plenty of time and attempt the assessment in a place where you won't be interrupted. If you are attempting to simulate exam conditions, you should allow up to 2 minutes per question.

Write down items that you are not sure about as you go. Even if you get the question right, you should still read further about anything that is unclear to you.

If you don't agree with, or can't understand the reason for an answer, ask the appropriate member of academic staff. If you are not sure who that is, ask your colleagues or the course convenors.

6. Academic integrity, referencing and plagiarism

Referencing is a way of acknowledging the sources of information that you use to research your assignments. You need to provide a reference whenever you draw on someone else's words, ideas or research. Not referencing other people's work can constitute plagiarism.

Further information about referencing styles can be located at <https://student.unsw.edu.au/referencing>

Academic integrity is fundamental to success at university. Academic integrity can be defined as a commitment to six fundamental values in academic pursuits: honesty, trust, fairness, respect, responsibility and courage.¹ At UNSW, this means that your work must be your own, and others' ideas should be appropriately acknowledged. If you don't follow these rules, plagiarism may be detected in your work.

Further information about academic integrity and **plagiarism** can be located at:

- The Current Students site <https://student.unsw.edu.au/plagiarism>, and
- The ELISE training site <https://subjectguides.library.unsw.edu.au/elise>

The Conduct and Integrity Unit provides further resources to assist you to understand your conduct obligations as a student: <https://student.unsw.edu.au/conduct>.

The School of Biomedical Sciences will not tolerate plagiarism in submitted written work. The University regards this as academic misconduct and imposes severe penalties. Evidence of plagiarism in submitted assignments, etc. will be thoroughly investigated and may be penalised by the award of a score of zero for the assessable work. Flagrant plagiarism will be directly referred to the Division of the Registrar for disciplinary action under UNSW rules.

Plagiarism at UNSW is defined as using the words or ideas of others and passing them off as your own. Examples include:

Copying	Using the same or very similar words to the original text or idea without acknowledging the source or using quotation marks. This includes copying materials, ideas or concepts from a book, article, report or other written document, presentation, composition, artwork, design, drawing, circuitry, computer program or software, website, internet, other electronic resource, or another person's assignment, without appropriate acknowledgement.
Inappropriate paraphrasing	Changing a few words and phrases while mostly retaining the original structure and/or progression of ideas of the original, and information without acknowledgement. This also applies in presentations where someone paraphrases another's ideas or words without credit and to piecing together quotes and paraphrases into a new whole, without appropriate referencing.
Collusion	Presenting work as independent work when it has been produced in whole or part in collusion with other people. Collusion includes <ul style="list-style-type: none"> ▪ students providing their work to another student before the due date, or for the purpose of them plagiarising at any time ▪ paying another person to perform an academic task and passing it off as your own ▪ stealing or acquiring another person's academic work and copying it ▪ offering to complete another person's work or seeking payment for completing academic work. This should not be confused with academic collaboration.
Inappropriate citation	Citing sources which have not been read, without acknowledging the 'secondary' source from which knowledge of them has been obtained.

¹ International Center for Academic Integrity, 'The Fundamental Values of Academic Integrity', T. Fishman (ed), Clemson University, 2013.

Self-plagiarism	<p>'Self-plagiarism' occurs where an author republishes their own previously written work and presents it as new findings without referencing the earlier work, either in its entirety or partially.</p> <p>Self-plagiarism is also referred to as 'recycling', 'duplication', or 'multiple submissions of research findings' without disclosure. In the student context, self-plagiarism includes re-using parts of, or all of, a body of work that has already been submitted for assessment without proper citation.</p>
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Students are reminded of their Rights and Responsibilities in respect of plagiarism, as set out in the University Undergraduate and Postgraduate Handbooks and are encouraged to seek advice from academic staff whenever necessary to ensure they avoid plagiarism in all its forms.

7. Readings and resources

We will be using the UNSW Moodle learning management system to provide you with information about the course and access to online resources. Lecture notes, online modules, access to your grades, course documents and reference material can all be found on the course Moodle site. For System Requirements for Moodle refer to: <https://www.student.unsw.edu.au/moodle-system-requirements>

All resources such as textbooks and some reference materials are available through Moodle. The textbook for this course is:

PRINCIPLES OF HUMAN PHYSIOLOGY by Cindy L. Stanfield, Global Edition (6th edition), 2016, published by Pearson Education. Books are available from the UNSW bookshop.

This textbook comes with an online platform called Mastering A&P which contains some useful interactive modules. We have selected some of these interactive modules which provide a good supplement to the lecture and tutorial material and will help with revision of this material. You will not be examined on this material specifically as it really serves to clarify and consolidate your understanding of the lecture content. There is no set time allocated for these suggested self-study sessions. You are encouraged to work through these sessions in your own time. Please refer to the section on self-study sessions for further details, including how to access these modules.

8. Administrative matters

General Information

The Department of Physiology is part of the School of Biomedical Sciences and is within the Faculty of Medicine and Health. It is located on the 2nd and 3rd floors of the East and West Wings of the Wallace Wurth Building. General inquiries can be submitted via the UNSW Student Portal Web Forms

<https://unswinsight.microsoftcrmpartals.com/web-forms/>

Professor Gary Housley is Head of Department and appointments to see him may be made through email (G.Housley@unsw.edu.au).

There is an honours program conducted by the School. Any students considering an Honours year should discuss the requirements with the honour's convenor (SBMShonours@unsw.edu.au). Outstanding students may be considered for scholarships offered by the University and School, and these are offered annually.

Postgraduate research degrees - The Department of Physiology offers students the opportunity to undertake a Doctorate (*Ph.D*). For further information contact the co-ordinator, A. Prof Pascal Carrive (P.Carrive@unsw.edu.au).

Communication

All students in courses PHSL2201, 2221 and 2502 are advised that email is the official means by which the School of Biomedical Sciences at UNSW will communicate with you. All email messages will be sent to your official UNSW email address (e.g. z1234567@unsw.edu.au) and, if you do not wish to use the University email system, you MUST arrange for your official mail to be forwarded to your chosen address. Email correspondence with the University should be from your UNSW email address in order to reduce identity confusion.

The University recommends that you check your mail at least every other day. Facilities for checking email are available in the School of Biomedical Sciences and in the University library. Further information and assistance is available from the IT Service Centre (02) 9385 1333.

All current timetables, notices and information relevant to you will be available on Moodle. It is your responsibility to check Moodle regularly.

Grievance Resolution Officer

In case you have any problems or grievance about the course, you should try to resolve it with one of the Course Convenors. If the grievance cannot be resolved in this way, you should contact the School of Biomedical Sciences Grievance Officer, Prof Nick di Girolamo (n.digirolamo@unsw.edu.au).

9. Additional support for students

Some pages with important information for students:

- The Current Students Gateway: <https://student.unsw.edu.au/>
- Academic Skills and Support: <https://student.unsw.edu.au/academic-skills>
- Student Wellbeing and Health <https://www.student.unsw.edu.au/wellbeing>
- UNSW IT Service Centre: <https://www.myit.unsw.edu.au/services/students>
- UNSW Student Life Hub: <https://student.unsw.edu.au/hub#main-content>
- Student Support and Development: <https://student.unsw.edu.au/support>
- IT, eLearning and Apps: <https://student.unsw.edu.au/elearning>
- Student Support and Success Advisors: <https://student.unsw.edu.au/advisors>
- Equitable Learning Services (Formerly Disability Support Unit): <https://student.unsw.edu.au/els>
- Transitioning to Online Learning <https://www.covid19studyonline.unsw.edu.au/>
- Guide to Online Study <https://student.unsw.edu.au/online-study>
- UNSW Student Life Online <https://www.student.unsw.edu.au/hub>

The UNSW Learning and Career Hub offers workshop programmes throughout the academic year on a wide variety of Academic and Career Development skills. These include referencing, writing skills, critical thinking, exam preparation and time management. Individual assistance is available on request. Further information can be obtained using the link <https://student.unsw.edu.au/support>

10. Continual Course Improvement

Periodically student evaluative feedback on the course is gathered, using, among other means, UNSW's MyExperience process. Student feedback is taken seriously, and continual improvements are made to the course based in part on such feedback. Significant changes to the course will be communicated to subsequent cohorts of students taking the course.

Student Representatives

We are seeking student representatives for our term 2 2023 course. Ideally, we would like to have two representatives from each of our different cohorts (Science, Medical Science, Engineering, Optometry and Exercise Physiology). In terms of commitment, it is expected that we would meet online with student representatives about twice during the term. During these meetings representatives will have the opportunity to report on any feedback relating to the course that has been gathered from peers. Being a student representative gives you the opportunity to provide a voice for your student cohort and is a role that can be listed on your CV. Please email Dr Nicole Marden (Phys1b@unsw.edu.au) if you would like to be a student representative or if you would like any further information.