Faculty of Health Sciences

MASTER OF PHYSIOTHERAPY PRE-REQUISITE INFORMATION FORM (2020)

Before completing this document please read all the instructions carefully and ensure that you refer to the Supplementary information, approved degrees and units document to check if your prior study has already been assessed as meeting some or all of the requirements.

<table>
<thead>
<tr>
<th>Name:</th>
<th>Sue Smith</th>
</tr>
</thead>
<tbody>
<tr>
<td>Student ID:</td>
<td>123 456 789</td>
</tr>
<tr>
<td>Applicant type:</td>
<td>☐ International / ☑ Domestic</td>
</tr>
<tr>
<td>Email ID:</td>
<td><a href="mailto:suesmith@domain.com">suesmith@domain.com</a></td>
</tr>
<tr>
<td>Phone:</td>
<td>0123 456 789</td>
</tr>
<tr>
<td>Date:</td>
<td>3/7/2019</td>
</tr>
<tr>
<td>Name of undergraduate degree:</td>
<td>Bachelor of Exercise and Sport Science</td>
</tr>
<tr>
<td>Institution obtained from:</td>
<td>The University of Sydney</td>
</tr>
</tbody>
</table>

**Human Anatomy**

Note – minimum 2 units (or the equivalence of 2 units (approx. 40 hours class time per unit) required.

My prior study for Human Anatomy is listed in the approved units list: Yes ☑ / No ☐

<table>
<thead>
<tr>
<th>Unit (subject) code and name</th>
<th>Number of hours / weeks</th>
<th>Number of weeks</th>
<th>Year Completed</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOS1168 Functional Musculoskeletal Anatomy A</td>
<td>5</td>
<td>13</td>
<td>2018</td>
</tr>
<tr>
<td>BIOS1169 Functional Musculoskeletal Anatomy B</td>
<td>5</td>
<td>13</td>
<td>2018</td>
</tr>
<tr>
<td>BIOS1170 Body Systems: Structure and Function</td>
<td>5</td>
<td>13</td>
<td>2018</td>
</tr>
</tbody>
</table>

**Areas of study:** the areas listed below must include study of bones, muscles, ligaments, nerves and blood vessels

- Upper limb
- Lower limb
- Vertebral column, thorax and pelvis
- Cardiovascular system
- Respiratory system
- Renal System

Unit (subject) code(s)

- BIOS1168
- BIOS1169
- BIOS1170

Updated 01 Apr 2019
### Human Physiology

**My prior study for Human Anatomy is listed in the approved units list:**

Yes ☑ / No ☐

<table>
<thead>
<tr>
<th>Unit (subject) code and name</th>
<th>Number of hours / weeks</th>
<th>Number of weeks</th>
<th>Year Completed</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOS1170 <em>Body Systems: Structure and Function</em></td>
<td>5</td>
<td>13</td>
<td>2018</td>
</tr>
</tbody>
</table>

**Areas of study:** The physiology and histology of the systems below

- Cardiovascular system
- Respiratory system
- Endocrine system
- Renal system
- Reproductive system

### Exercise Physiology

**My prior study for Human Anatomy is listed in the approved units list:**

Yes ☑ / No ☐

<table>
<thead>
<tr>
<th>Unit (subject) code and name</th>
<th>Number of hours / weeks</th>
<th>Number of weeks</th>
<th>Year Completed</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESSS2027 <em>Exercise Physiology for Clinicians</em></td>
<td>5</td>
<td>13</td>
<td>2018</td>
</tr>
<tr>
<td>ESSS1029 <em>Muscle Mechanics and Training</em></td>
<td>5</td>
<td>13</td>
<td>2018</td>
</tr>
</tbody>
</table>

**Areas of study:** the systemic responses to exercise and exercise training in the systems below

- Cardiovascular system
- Respiratory system
- Endocrine system
- Acid/base regulation (renal and respiratory)
- Muscle

<table>
<thead>
<tr>
<th>Unit (subject) code(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESSS2027</td>
</tr>
<tr>
<td>ESSS2027</td>
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<tr>
<td>ESSS2027</td>
</tr>
<tr>
<td>ESSS2029</td>
</tr>
<tr>
<td>ESSS1029</td>
</tr>
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</table>
## Neuroscience

<table>
<thead>
<tr>
<th>My prior study for Human Anatomy is listed in the approved units list:</th>
<th>Yes √ / No □</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unit (subject) code and name</td>
<td>Number of hours / weeks</td>
</tr>
<tr>
<td>BIOS1171 Neuroscience</td>
<td>5</td>
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</tbody>
</table>

**Areas of study:** the anatomy and physiology of the areas listed below

<table>
<thead>
<tr>
<th>Unit (subject) code(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brain and spinal cord</td>
</tr>
<tr>
<td>Somatosensory receptors (e.g., mechanoreceptors and pathways for sensations such as touch, temperature, pain, proprioception)</td>
</tr>
<tr>
<td>Spinal reflexes (e.g. stretch reflex)</td>
</tr>
<tr>
<td>Autonomic nervous system (sympathetic/parasympathetic pathways)</td>
</tr>
<tr>
<td>Motor pathways (pyramidal and extrapyramidal pathways)</td>
</tr>
</tbody>
</table>

## Psychology

<table>
<thead>
<tr>
<th>My prior study for Human Anatomy is listed in the approved units list:</th>
<th>Yes √ / No □</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unit (subject) code and name</td>
<td>Number of hours / week</td>
</tr>
<tr>
<td>HSBH1003 Health, Behaviour and Society</td>
<td>5</td>
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</tbody>
</table>

**Areas of study**

<table>
<thead>
<tr>
<th>Unit (subject) code(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Introduction to major paradigms/methodological approaches of contemporary psychology</td>
</tr>
</tbody>
</table>

## Non-award / Cross-institutional Studies

<table>
<thead>
<tr>
<th>Area of study</th>
<th>Institution study undertaken at</th>
<th>Year Completed</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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</tbody>
</table>
HUMAN ANATOMY

BIOS1168 – Functional Musculoskeletal Anatomy A

BIOS1169 – Functional Musculoskeletal Anatomy B

BIOS1170 – Body Systems: Structure and Function
Discipline of Biomedical Science  
Faculty of Medicine  
The University of Sydney

Unit of Study Outline

BIOS1168  
Functional Musculoskeletal Anatomy A  
Semester 1, 2018

Co-ordinators  
Dr Cliffton Chan and Associate Professor Leslie Nicholson

Unit of Study Description

This Unit of Study introduces the basic concepts in musculoskeletal anatomy prior to a more detailed study of the gross anatomical structure of the upper limb as it relates to daily activities. Students will also study the histological structure of musculoskeletal tissues and surface anatomy of the upper limb. Material will be presented in lectures and practical sessions, and online via the eLearning site. Students will be expected to undertake some independent learning activities. This unit includes laboratory classes in which human cadavers are studied; attendance at such classes is strongly encouraged.
Unit of Study Aims

In this unit, you will be introduced to the study of anatomy with particular reference to the neuromusculoskeletal systems. A detailed study of the gross anatomical structure and functional anatomy of the upper limb will then be undertaken. There will be an emphasis on the application of anatomical principles, such as the functional roles of muscles and types of muscle contractions, to the analysis of movement. In particular, activities of daily living, e.g. reaching, lifting, gripping and recreational activities, will be used as examples for movement analysis. In this Unit of Study, the histological features of the tissues of the musculoskeletal system will be examined as well as the ways in which some of these tissues are altered by varying activity and by pathological states.

Required/Recommended Texts and Resources

Title: Anatomy and Human Movement  
Author: Palastanga, N., Field, D. and Soames, R.  
Publisher: Butterworth-Heinemann  
Type: Required resource [Traditional textbook layout. Also available as an ebook via the library website (free access) - http://opac.library.usyd.edu.au/record=3920921]

AND (one of the following atlases)

Title: Color Atlas of Anatomy  
Author: Rohen, J.W., Yokochi, C., and Lütjen-Drecoll, E.  
Publisher: Lippincott Williams & Wilkins  
Type: Recommended resource [Contains cadaveric and surface anatomy photos] OR

Title: Atlas of Anatomy - General Anatomy and Musculoskeletal System  
Author: Schuenke, M., Schulte, E., Schumacher, U., and Ross, L.M.  
Publisher: Thieme  
Type: Recommended resource [Contains detailed and clear animated drawings; great for visual learners]

If you obtain earlier editions of the above textbooks, that is fine. Just note that the page numbers used as referencing during lectures will use the above editions. Other references and resources may be placed on the eLearning site by individual lecturers.

Unit of Study Coordinators

All general questions concerning the subject should be addressed to the Unit of Study coordinators. Such questions include matters regarding advanced standing, medical certificates and examinations.

Dr Clifton Chan  
L120

Associate Professor Leslie Nicholson  
L122
Lecturers

Academic questions and questions regarding clarification of the lecture content should be addressed to the individual lecturer concerned. All staff members involved as instructors within this subject would appreciate your cooperation in making appointments at mutually agreeable times, should you wish to discuss any aspect of the work with them.

Dr Cliffton Chan
Consultation hours: By appointment
Musculoskeletal Anatomy (Intro to Anatomy, Elbow and Muscle Function, Surface Anatomy)

Dr Darren Reid
Consultation hours: By appointment
Musculoskeletal Anatomy (Shoulder)

A/Prof Leslie Nicholson
Consultation hours: By appointment
Musculoskeletal Anatomy (Histology, Wrist and Hand, Nervous and Vascular Systems, Surface Anatomy)

Unit Overview - Classes and Topics

Lectures: 2 x 1hr lectures per week (please check the timetable below and on the BIOS1168 eLearning site for times of each week’s lectures)

Practical/Tutorial Classes: will be held in Weeks 1-6, 8-13 in L107. Students will be allocated to a practical group. Check the time of your practical or tutorial on your personal timetable.

Note: Students must attend their own practical/tutorial at the time and place indicated. Students may not swap groups for their own convenience. Each tutor will have a list of students in the tutorial group and regular attendance checks will be made.

Requests for change of groups due to work commitments will be denied. There are many students who work and there is no equitable way to grant all requests as we are bound by WHS legislation to limit student numbers in labs.

Practical classes and their associated tutorial sessions require that you PREPARE prior to the scheduled class. Bring your lecture notes and an atlas to each anatomy practical/tutorial class.

Note: Content presented in Practical/Tutorial classes will be examined in the Mid-semester and End-semester exams.

There are two learning modules in FMA. Module 1 introduces the basic structure and function of the musculoskeletal system before detailing functional musculoskeletal anatomy of the shoulder and elbow regions and the ways shoulder and elbow structures work together in functional activities. The structure and function of muscle tissue, connective tissue, synovial membrane, synovial fluid and cartilage are also examined.
Module 2 details the functional musculoskeletal anatomy of the forearm, wrist and hand and the ways these structures work together in functional activities, eg. gripping. This module examines the blood vessels and nerves of the upper limb, bone tissue and the growth of bones. How tissues of the musculoskeletal system are altered by varying activity states is also discussed. Additionally, you will be introduced to some concepts that illustrate the importance of anatomical knowledge as a clinical tool.

As an independent, adult learner it is up to you to determine a study plan that best suits you. It is recommended that you undertake independent learning outside of scheduled lecture and practical class time. You have a number of resources available to assist your learning including post-lecture activities (online), practical/tutorial classes, practice exam quizzes (online), a range of textbooks, and the Anatomy Museum with its potted specimens, models and self-test resources. Analyses of previous year’s student experiences has shown that those students who do not complete post-lecture activities and attend practical/tutorial classes are more likely to obtain a FAIL grade for this Unit of Study.

Help! - Who to see if you need help in BIOS1168

If you have questions about the material covered in the lectures, you can make an appointment (by email) to meet with the relevant lecturer in the first instance, and then a Unit of Study Coordinator.

Questions from the practical/tutorial classes should be directed to the academic who teaches your practical group in the Anatomy Laboratory.

Information about the Anatomy Laboratory and Museum

Staff
Bev Karlik, Laboratory Manager.
See Bev or other lab staff to obtain material from the Anatomy Laboratory for use in the Museum. You will need to provide your Student ID card to obtain this material.

Anatomy Laboratory (L107)
The following conditions apply for use of the Anatomy Laboratory:

♦ A 'Conditions of Entry' declaration must be read, signed and submitted via the eLearning site. You will not be able to access any resources on the eLearning site until you have completed this declaration.
♦ Only bona fide students of Anatomy are permitted entry to the Anatomy laboratory. Visitors are strictly forbidden.
♦ Student admission to the Anatomy Laboratory will be for formally scheduled classes only. The laboratory is not available for private study.
♦ Laboratory coats, gloves and closed-in shoes must be worn.
♦ Eating, drinking and the use of mobile phones and other electronic equipment are strictly forbidden.
♦ Proper respect must be shown to the cadaver specimens at all times.

Anatomy Museum (L105)
Hours of opening: 9.00am - 4.00pm Monday to Friday. The Museum will be closed on days when there are examinations in the Anatomy Laboratory, any scheduled classes in the Museum and if there is no laboratory staff available to oversee the Museum.

The following conditions apply for use of the Anatomy Museum:

☐ Students using the Museum must comply with any requests by academic and technical staff
☐ Maximum 32 students in the Museum.
☐ No food or drinks allowed.
☐ No bags or personal belongings to be left unattended.
☐ No materials to be removed from the Museum.
☐ Student identification cards will be held as a deposit for the loan of bones, models, catalogues for use in the Museum.

From time to time unforeseen circumstances may necessitate the cancellation of lectures. If this occurs, the Discipline of Biomedical Science will endeavour to schedule a replacement lecture at the earliest convenient time. However, timetabling constraints may make rescheduling impossible. In these circumstances an alternative that is deemed educationally valid will be provided. Under no circumstances will students be educationally disadvantaged by lecture cancellations.
Expectations

What you can expect of us

Teachers will:
- provide formal and informal feedback on your performance in this unit.
- attempt to identify your learning needs and, within resource constraints, tailor activities to the needs of individuals and/or the group.
- present material in a manner to illustrate its professional relevance.
- be available to consult with students outside scheduled classes either online or at mutually agreeable times face-to-face.
- listen to your feedback regarding this unit and make appropriate changes.

What do we expect of you?
- You should be aware of the day-to-day timetable for this unit as not all lecture time slots are used.
- You should consult the Unit of Study Outline (this document) for all information about the administration of this unit.
- While it is not essential that you prepare material prior to attending lectures, reading through the associated prescribed textbook readings and reading the lecture notes beforehand may assist you to construct a useful framework for the lecture, enable you to engage with the content and ask pertinent questions. Lectures are a means for academics to deliver information efficiently but, because of the number of students in each lecture, there will be limited opportunities for student/teacher interaction. You will be expected to be considerate of others during lecture presentations.
- You will be expected to prepare for and participate actively in practical classes and by doing so, gain maximum benefit from each class. You should bring your lecture notes, prepared objectives/workbook and atlas to each practical class so that you can use these to help you learn your anatomy. Practical class tutors should be regarded as resource people who will verify your identification of anatomical structures and their applications. You may also be required to participate in tutorial discussions. Group participation and student interaction for problem-solving is encouraged. A teacher will monitor discussions and provide input if needed.
- Self-directed learning: We expect that you will learn from self-directed learning/private study outside scheduled class times. FMA’s website and your workbook are invaluable sources of additional information. The Anatomy Museum is also available for private study.

Practical (Wet-lab) Attendance

Faculty of Health Science policy stipulates that: "Students are expected to attend a minimum of 90% of timetabled activities for a Unit of Study, unless granted exemption by the Dean, head of school or professor most concerned. The Dean, head of school or professor most concerned may determine that a student fails a Unit of Study because of inadequate attendance."

Please note that class rolls will be taken each week. Non-attendance at three or more of the 12 lab sessions will be considered "inadequate attendance" and result in failure to meet the requirements of the Unit of Study. In this instance, you will be required to demonstrate that you have understood and completed the objectives of the missed lab sessions as outlined in your course manual. You will need to contact the course co-ordinators to determine how best you can demonstrate this (e.g. submitting completed objectives, sending in a video of you explaining the objectives). Failure to do this will result in a Fail (FA) grade for this Unit of Study.

What to do when you miss a class

If you miss a:
- lecture the onus is on you to cover the material in your own time using the lecture summaries available on FMA’s website plus your textbook and atlas.
- practical class again the onus is on you to cover the material in your own time. You could do this using some of the material available in the Anatomy Museum. You may be able to examine the learning resources of the missed class during subsequent practical classes. Note that absence at three or more practical classes, without demonstrating you have completed the missed objectives, will result in a Fail grade. If you know ahead of the HECS census date that you will be absent for three or more classes, you may wish to discuss withdrawing from BIOS1168 until a later semester with your FHS course director.
<table>
<thead>
<tr>
<th>WEEK</th>
<th>Lecture</th>
<th>Lecture</th>
<th>Practical/Tutorials</th>
<th>Required Readings</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 (05/3/18)</td>
<td>Introduction to FMA, Anatomy &amp; Osteology</td>
<td><strong>Bones of the Shoulder and Introductory Arthrology</strong></td>
<td>Introduction to Anatomy Labs</td>
<td>Palastanga Pages 1-3, 8-22, 40-44</td>
</tr>
<tr>
<td>2 (12/3/18)</td>
<td><strong>Joints of Shoulder Region 1</strong></td>
<td>Joints of Shoulder Region 2</td>
<td>Introductory Arthrology</td>
<td>Palastanga Pages 101-125</td>
</tr>
<tr>
<td>3 (19/3/18)</td>
<td>Introductory Myology / Muscle Tissue</td>
<td>Muscles of the Shoulder Region</td>
<td>Introductory Myology</td>
<td>Palastanga Pages 52-68</td>
</tr>
<tr>
<td>5 (09/4/18)</td>
<td>Generalised Connective Tissue/ Cartilage Tissue / Synovium</td>
<td><strong>Bones, Joints and Muscles of the Elbow Region</strong></td>
<td>Bones and Joints of the Elbow Region</td>
<td>Palastanga Pages 127-133, 141-148</td>
</tr>
<tr>
<td>7 (23/4/18)</td>
<td>Surface Anatomy of the Proximal Upper Limb</td>
<td>Revision and Feedback</td>
<td>MID-SEMESTER EXAM</td>
<td></td>
</tr>
<tr>
<td>8 (30/4/18)</td>
<td><strong>Bones and Joints of the Wrist and Hand</strong></td>
<td>Muscles of the Forearm and Wrist and Hand</td>
<td><strong>Bones &amp; Joints of Wrist &amp; Hand Forearm Muscles 1</strong></td>
<td>Palastanga Pages 48-52, 81-94, 148-155</td>
</tr>
</tbody>
</table>

**MID SEMESTER BREAK (30/03/18 – 06/04/18)**

**BIOS1168 Timetable – Semester 1, 2018**
<table>
<thead>
<tr>
<th>Week</th>
<th>Topic</th>
<th>Lectures</th>
<th>Readings</th>
</tr>
</thead>
<tbody>
<tr>
<td>9</td>
<td>Muscles of the Hand; Hand Function 1</td>
<td>Hand Function 2</td>
<td>Forearm Muscles 2 Hand Muscles</td>
</tr>
<tr>
<td>(07/5/18)</td>
<td></td>
<td></td>
<td>Palastanga Pages 94-98, 100-101 (Gripping), 161-178</td>
</tr>
<tr>
<td>10</td>
<td>NO LECTURE</td>
<td>NO LECTURE</td>
<td>Hand Function Surface Anatomy of Forearm &amp; Hand</td>
</tr>
<tr>
<td>(14/5/18)</td>
<td>Self-Directed Learning Activities</td>
<td>Self-Directed Learning Activities</td>
<td>Palastanga Pages 178-180</td>
</tr>
<tr>
<td>11</td>
<td>Peripheral Nervous System; Brachial Plexus and Nerves of the Upper Limb</td>
<td>Segmental Nervous System and Nerve Lesions of the Upper Limb</td>
<td>Brachial Plexus Nerves of the Upper Limb 1</td>
</tr>
<tr>
<td>(21/5/18)</td>
<td></td>
<td></td>
<td>Palastanga Pages 183-194</td>
</tr>
<tr>
<td>12</td>
<td>Bone Tissue, Growth and Healing</td>
<td>Blood Supply of the Upper Limb</td>
<td>Nerves of the Upper Limb 2 Upper Limb Nerve Tutorial ES Exam Practice ID Questions</td>
</tr>
<tr>
<td>(28/5/18)</td>
<td></td>
<td></td>
<td>Palastanga Pages 195-198</td>
</tr>
<tr>
<td>13</td>
<td>Surface Anatomy of the Distal Upper Limb</td>
<td>Revision and feedback</td>
<td>Blood vessels of Upper Limb Revision ES Exam Practice ID questions</td>
</tr>
<tr>
<td>(04/6/18)</td>
<td></td>
<td></td>
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</tbody>
</table>
Lecture Recordings

The Discipline of Biomedical Science will record lectures in accordance with university policies. Recordings may not be made if recording facilities are unavailable, non-operational in the lecture venue, or if the lecturer exercises their right not to be recorded. From time to time, delays in lecture uploading may occur. Because lectures are recorded remotely, neither the individual lecturer nor the Discipline of Biomedical Science have control over lecture uploading.

Assessment

Explanation of assessment
The aim of our teaching is to support your learning. The various assessment tools have been developed over many years as a result of our experience of teaching and previous students’ learning. We have also learned much from surveys of learning that previous students have completed.

As a result we have learnt that students with little or no background in the topics covered in this unit need to work steadily at understanding, because so much of the later semester work is building on material covered in the early weeks. It takes some time for all the pieces to come together. Because of this, there are several post-lecture activities, which carry no marks, but completion is recommended. Assessments carrying marks (summative assessment) are held in Weeks 7 and 15/16 when there has been more time for the “bigger picture” to have been painted and understood.

The online quizzes also give students the opportunity to assess what they already know, and the areas where they need to focus more strongly. Students are highly encouraged to work in groups in the labs and the anatomy museum to further their understanding and assist development of collaborative skills, a key graduate attribute.

Exam questions are designed to test both factual knowledge of relevant material and critical analysis.

Types of Assessment:

FORMATIVE ASSESSMENT i.e. assessment that provides ongoing feedback on your progress, not centrally recorded and administered, in the following ways:

1. Non-assessed Practice Identification Questions
2. Topic-based online quizzes appear on FMA’s eLearning site throughout the semester. These topic-based online quizzes support student learning for all three summative assessments
3. Test-yourself resources in the Anatomy Museum
4. Discussion of questions and answers with peers
   • via the ‘Discussions’ tab on the eLearning site
   • via the FMA Facebook group page

SUMMATIVE ASSESSMENT i.e the formal assessment, centrally recorded:

There are 3 summative assessments ie. exams contributing marks towards your final mark - two practical exams (one in Week 7 and the other in Week 15 or 16), plus 1 theory paper (in Week 15 or 16).

The practical exams comprise 65 minutes of exam time, including administration time. Your mark for each practical exam will be out of 30%. These exams will examine all content covered in Module 1 in Weeks 1-6 or Module 2 in Weeks 7-13 (Week 15 or 16 exam). Both practical exams will test your identification ability and its application in muscle function and movement, as well as some basic theory.

The theory paper will be of 2 hours duration plus 10 minutes of reading time. Your mark for the theory exam will be out of 40%. This end-semester theory exam will examine all content covered in Modules 1 & 2, i.e. the whole semester's content from lectures, objectives to required readings. It will include questions testing the more difficult functional concepts relating to musculoskeletal anatomy.
### Assessment

<table>
<thead>
<tr>
<th>Assessment title</th>
<th>Assessment category</th>
<th>Assessment type</th>
<th>Description of Assessment type</th>
<th>Exam / Quiz type</th>
<th>Individual or Group</th>
<th>Length / duration</th>
<th>Weight</th>
<th>Due date and time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mid semester exam</td>
<td>Exam</td>
<td>In-semester exam</td>
<td>Written (MCQ)</td>
<td>Practical ID exam</td>
<td>Individual</td>
<td>1hr</td>
<td>30%</td>
<td>Week 7</td>
</tr>
<tr>
<td>End semester exam</td>
<td>Exam</td>
<td>Final exam</td>
<td>Written (MCQ)</td>
<td>Practical ID exam</td>
<td>Individual</td>
<td>1hr</td>
<td>30%</td>
<td>Week 15/16</td>
</tr>
<tr>
<td>End semester exam</td>
<td>Exam</td>
<td>Final exam</td>
<td>Written (MCQ)</td>
<td>Theory exam</td>
<td>Individual</td>
<td>2hrs</td>
<td>40%</td>
<td>Week 15/16</td>
</tr>
</tbody>
</table>

#### i. Mid semester examination
- To be held in a scheduled timeslot on **Thursday 26th April in Week 7** in L107.
- This will be an identification exam with cadaver specimens, anatomical models, imaging films and surface anatomy photographs. This paper will consist of multiple choice questions and will cover the following topics in **Module 1**.
- For students granted “Special Consideration” due to illness or misadventure, the replacement practical exam will be held in week 9.

#### ii. End semester examinations (practical and written)
- To be held in **Week 15/16**. Dates, times and venues will be made available prior to the examination period at: [https://sydney.edu.au/students/exams.html](https://sydney.edu.au/students/exams.html)
- The written paper will consist of multiple choice questions and will cover content from **Modules 1 and 2**.
- The practical exam will be an identification exam with cadaver specimens, anatomical models, imaging films and surface anatomy photographs. This paper will consist of multiple choice questions and will cover the following topics in **Module 2**.
- For students granted “Special Consideration” due to illness or misadventure, the replacement practical exam will be held in week 18.

### Feedback

**Feedback** – How do you know whether you are studying well?

As well as the feedback you receive by completing the online quizzes and the practice questions in your lab classes, you will also receive individualised feedback via your University of Sydney email about your performance in each of the topic areas examined in the mid-semester exam. The opportunity for individual face-to-face feedback will also be provided to those at risk of failing the unit (<60%) after the mid-semester exam.

### Assessment policy and procedures

**It is the individual student’s responsibility to be available for all assessments.**

Students are required to be present at the correct time and place. Misreading or misunderstanding of the time and/or the location of an assessment will not be accepted as a reason for failure to attend an assessment. Calculators are not permitted in examinations; are not required.

### Communication Policies

**Canvas (eLearning site)**
This Unit of Study requires students to use the BIOS1168, Functional Musculoskeletal Anatomy A online eLearning site (Canvas) (https://canvas.sydney.edu.au) to access information or complete assessments. Materials on the site include: the Unit of Study Outline, Timetable, Lecture Notes, Practical Notes (Course Manual), Quizzes and Discussions Forum.

The eLearning site should be accessed by students at regular intervals. Announcements will be made continuously regarding timetable changes, assessment advice etc.

Students are encouraged to use the ‘Discussions’ forum or Facebook group page to discuss material covered in the Unit of Study. Please put a specific ‘Topic Title’ on all your postings. Most likely other students will have been struggling with the same issues and may be able to help you. Remember as a group you have the resources to deal with nearly all content issues that may arise. Lecturers may monitor these discussions and intervene if material being discussed contains any errors.

Questions regarding the administration of this Unit of Study (that are not already addressed in the unit outline), can be posted on the ‘Discussions’ forum or Facebook group page also.

Help for logging in to eLearning is at: https://sydney.edu.au/students/learning-in-canvas-and-blackboard.html

ICT helpdesk links can be found at: http://sydney.edu.au/ict/contact/helpdesk.shtml

Email
When communicating with teaching staff the most straightforward method is via email. Note the following guidelines when emailing staff.

- Use your university email address.
- Address the person appropriately
- Identify yourself by name.
- Identify the Unit of Study that you are enquiring about
- Word your email clearly

Due to concerns about viruses, anonymous emails, emails containing unsolicited attachments and emails from a non-university address are unlikely to be opened or read.
**Academic Honesty**

Deliberate breaches of academic honesty constitute academic misconduct. These breaches include:
- Plagiarism
- Fabrication of data
- Recycling previously submitted material
- Engaging someone else to complete an assessment on one’s behalf
- Misconduct during supervised assessments

The penalties for academic misconduct may include:
- A mark of zero on the assessment
- A fail grade in the Unit of Study
- Additional assessment (including an unseen exam)
- Reference of the matter to the University Registrar

Issues concerning breaches of academic honesty may be dealt with either through the process of determining academic results in a Unit of Study, or, in the most serious cases, by invocation of misconduct procedures.

Students should consult:

**Special Consideration**

**What it means to receive Special Consideration**
- If you apply and receive approval for Special Consideration **prior** to the examination, you do not sit for the normal examination and you will be required to sit a Replacement Assessment*.
- If you apply and receive approval for Special Consideration **after** the examination **and did not sit** the examination, you will be required to sit a Replacement Assessment*.
- If you apply and receive approval for Special Consideration **after sitting** the examination, your exam paper for the normal examination will not be marked and you will be required to sit a Replacement Assessment*.

*You must make yourself available at the University’s Replacement Assessment periods.*

- Mid Semester Replacement Assessments: Week 9 or 10 TBA
- End Semester Replacement Assessments: Week 18 (all week)

**Please Note:**
- No alternative arrangements are available
- There will be changes in the replacement examination questions from those in the original examination.
- The replacement exam may not cover the same topics as the exam that was impacted, but will test the same learning outcomes. Other factors (such as the length, duration or structure of the exam) may also be different.

**Applying for Special Consideration**

Please visit the following website for information and application form:

https://sydney.edu.au/current_students/special_consideration/index.shtml
USE OF SIMILARITY DETECTION SOFTWARE

All written assignments submitted in this unit of study will be submitted to the similarity detecting software program known as Turnitin. Turnitin searches for matches between text in your written assessment task and text sourced from the Internet, published works and assignments that have previously been submitted to Turnitin for analysis.

There will always be some degree of text-matching when using Turnitin. Text-matching may occur in use of direct quotations, technical terms and phrases, or the listing of bibliographic material. This does not mean you will automatically be accused of academic dishonesty or plagiarism, although Turnitin reports may be used as evidence in academic dishonesty and plagiarism decision-making processes.

Student Appeals

Student Appeals: Academic and Administrative
A student may appeal against a mark or grade for either a single assessment, or the final assessment for a whole unit of study. Students are encouraged to consult with their unit of study coordinator in the first instance.

A student may appeal against an administrative decision. More information can be found here: [http://sydney.edu.au/students/academic-appeals.html](http://sydney.edu.au/students/academic-appeals.html)

Available IT Services for students

Computer access
All Students are given a UniKey account that lets them access IT (internet) services around the university. The University Computer Access Labs provide students and staff members of the University of Sydney with access to computers. These labs give students and staff access to printing, scanning, internet access, word processing, and expert staff assistance.

Response to Student Feedback

Student feedback, gathered through surveys and other sources, has been incorporated into practicals and lectures. Lecture notes are provided prior to each lecture. Lectures are recorded (quality is out of our control). Resources have been provided in the Anatomy Museum and more are currently under development. A Facebook page has been provided as an alternative to the unit of study website discussion board.
Student Support

Student Administration

The Student Centre can assist you with matters relating to admissions, enrolments, HECS and domestic fees, student cards, class timetables, examinations and graduation.

http://sydney.edu.au/study/student-administration.html

Phone: 1800 SYD UNI (1800 793 864)
or enquire online https://sydney.edu.au/students/forms/make-an-enquiry.html

Counseling Service

http://sydney.edu.au/current_students/counselling/

Disability Services Office


Progressing to Functional Musculoskeletal Anatomy B (BIOS1169)

The coordinators of FMA (BIOS1168) and FMB (BIOS1169) strongly recommend that students undertake FMB in the semester immediately following FMA. The anatomical knowledge learned in FMA is assumed in FMB. The longer the timeframe between units, the more time you will need to set aside to revise FMA content.
Unit of Study Outline

BIOS1169
Functional Musculoskeletal Anatomy B (FMB)

Semester 2 2018

Coordinator: Jan
Douglas-Morris

Unit of Study Description

This unit of study examines the detailed gross anatomical structure and surface anatomy of the lower limb, trunk and neck. Included are the anatomical analyses of functional activities which involve the lower limb, back and neck. Material will be presented in lectures, practical sessions and online. Students will also be expected to undertake some independent learning activities. This unit includes laboratory classes in which human cadavers are studied; attendance at such classes is strongly encouraged.
Unit of Study Aims

In this unit, you will continue to apply the knowledge and skills you gained in your study of the pectoral girdle and upper limb in BIOS1168 Functional Musculoskeletal Anatomy A (FMA) to the study of the neuromusculoskeletal anatomy of the lower limbs, trunk and neck and also to the study of the major blood vessels of the lower limb. FMB students are expected to further develop their abilities to i) differentiate anatomical structures on a variety of anatomical media, including bones, models, cadaveric sections, radiological images and resources for surface anatomy, ii) to deduce function based on structure and iii) to use their anatomical knowledge to explain how movement is produced and controlled during functional activities.

Recommended Texts and Resources

<table>
<thead>
<tr>
<th>Title:</th>
<th>Anatomy and Human Movement. Structure and Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>Author:</td>
<td>N. Palastanga and R. Soames</td>
</tr>
<tr>
<td>Publisher:</td>
<td>Churchill Livingstone Elsevier</td>
</tr>
<tr>
<td>Type:</td>
<td>Required resource</td>
</tr>
</tbody>
</table>

AND

<table>
<thead>
<tr>
<th>Title:</th>
<th>Anatomy. A Photographic Atlas</th>
</tr>
</thead>
<tbody>
<tr>
<td>Author:</td>
<td>J.W. Rohen, C. Yokochi and E. Lütjen-Drecoll</td>
</tr>
<tr>
<td>Publisher:</td>
<td>Wolters Kluwer</td>
</tr>
<tr>
<td>Type:</td>
<td>Required resource</td>
</tr>
</tbody>
</table>

OR

<table>
<thead>
<tr>
<th>Title:</th>
<th>Atlas of Anatomy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Author:</td>
<td>Gilmore, A.M., MacPherson, B.R. (eds)</td>
</tr>
<tr>
<td>Publisher:</td>
<td>Thieme</td>
</tr>
<tr>
<td>Type:</td>
<td>Recommended resource/alternate required resource</td>
</tr>
</tbody>
</table>

Other references and resources may be placed on FMB's eLearning site by individual lecturers as required.

Unit of Study Coordinator

All general questions concerning BIOS1169 FMB should be addressed to the Unit of Study Coordinator. Such questions include matters regarding advanced standing, medical certificates and examinations.

Jan Douglas-Morris Room: L112

Lecturers and Laboratory Tutors

Consultation times with academic staff are generally by prior appointment (organised via email). Lecturers include the Unit of Study Co-ordinator plus:

Dr Clifton Chan Room: L120
Dr Joanna Diong Room: L117
Dr Aaron Camp Room: L114
Dr Helen Ritchie Room: L121
Anna Davidson, Sarah Kobayashi, David Petersen & Declan Price
Lectures: 2 lectures per week (Check the timetable below or on FMB’s Canvas eLearning site as to the exact timing of each face-to-face class). Lectures are a way for us to deliver core information efficiently (with limited opportunities for student/teacher interaction; no prior preparation is expected) and/or to facilitate student-student interactions to consolidate core concept learning/apply factual information for motion analysis (prior preparation is expected).

If you miss any scheduled lecture the onus is on you to cover the material in your own time.

Practical/Tutorial Classes: scheduled in Weeks 1-7 and 10-13 in the Anatomy Laboratory (L107) (or alternative room as occasionally timetabled). Note that the Mid-Semester exam will be scheduled within your usual practical class time slot in Week 8. There is no practical class in Week 9.

You have been allocated to a practical group. Check the times of your practical/tutorial classes on your personal timetable. You must only attend at the time and place timetabled for your practical group. You may not swap groups for your own convenience. Each group’s tutor will have a list of students in their group. The tutor will ask any student to leave the group if their name is not on this list.

Requests for a change of practical group/practical class time slot due to work commitments will be denied. There are many students who work. There is no equitable way to grant all requests for a change of practical group as we are bound by WHS legislation to limit student numbers in the Anatomy Laboratory.

You are expected to participate actively and independently in practical classes. You will gain most benefit from the practical classes if you prepare for each one beforehand – by reading over lecture notes, watching a relevant video clip in Acland’s video atlas of the human body available online in the Library’s database collection, re-listening to Echo lecture recordings, reading text book references, creating your own notes etc

IMPORTANT: Your personal hand-held electronic devices are not currently permitted to be used in the Anatomy Laboratory so please do bring paper copies of your prepared/lecture notes and an atlas to each anatomy practical/tutorial class.

Practical class tutors should be regarded as another Laboratory resource. Your tutor will verify your identification of anatomical structures if needed. Group participation and student interaction for problem-solving are encouraged. You may also be required to participate in tutorial discussions.

Mandatory Practical (Wet-Lab) Attendance
Faculty of Health Science Policy stipulates: “Students are expected to attend a minimum of 90% of timetabled activities for a Unit of Study, unless granted exemption by the Dean, head of school or professor most concerned. The Dean, head of school or professor most concerned may determine that a student fails a Unit of Study because of inadequate attendance”.

For this reason, your attendance at FMB practical classes will be checked at the beginning of each class EACH WEEK. Please ensure that your name has been checked off as attending (especially if you are delayed for the start of a class). Your attendance will also OCCASIONALLY be checked towards the end of a practical class. FAILURE TO ATTEND AT LEAST 10 OF THE 11 FMB PRACTICAL CLASSES will be considered ‘inadequate attendance’ and MAY RESULT IN A FAIL (FA) GRADE IN BIOS1169 FMB.
**IMPORTANT:** If you do know ahead of the HECS Census date that you will be unable to attend 10 or more of FMB’s practical classes this semester, then you should immediately discuss your withdrawal from this semester’s enrolment in FMB with your FHS Course Director and re-enrol in BIOS1169 FMB later in your study program at a time when regular practical class attendance can be maintained.

**What to do when you miss a practical class**

If you miss a practical class the onus is on you to cover the material in your own time. You could do this using some of the material available in the Anatomy Museum. You may be able to examine the learning resources of the missed class during subsequent practical classes. Viewing the missed content using the Acland video clips on the Library’s database will also be helpful.

If you are unable to attend any practical class due to sudden illness or misadventure, you are advised to seek documented evidence of this illness/misadventure** at the time of the missed class(es) and to then keep such documentation in a secure place until your final result is known.

**You do NOT need to submit a Special Consideration application for any missed FMB practical class.** In BIOS1169 FMB, Special Consideration applications only apply to any summative assessment (an exam worth marks) that is missed due to illness/misadventure. However, should your final result in BIOS1169 FMB be a fail, and this fail is based solely on your having missed 2 or more of FMB’s practical classes, then you will need your previously ‘saved’ documentation** to form the basis of your appeal of this fail result.

**Conditions of Entry to the Anatomy Laboratory (L107)**

The conditions below apply to entry to the Anatomy Laboratory for the practical classes and for the two identification (practical) exams.

- A ‘Conditions of Entry to the Anatomy Laboratory’ form must be completed and submitted online before your first practical class in the Lab.
- Only bona fide students of Anatomy are permitted entry to the Anatomy laboratory. Visitors are strictly forbidden.
- Student admission to the Anatomy Laboratory will be for formally scheduled classes only. The laboratory is not available for private study.
- Incoming students should wait until there is a green sign above the entry door to the building (L block) before entering the laboratory. Please do not enter when the sign is still showing red.
- Laboratory coats, gloves and closed-in shoes must be worn. Long hair should be tied back.
- **Eating, drinking and the use of mobile phones and other electronic equipment are strictly forbidden.**
- Proper respect must be shown to the cadaver specimens at all times.

**Independent Learning**

As an independent adult learner it is up to you to determine a study plan that best suits you. You have a large number of resources available to assist your learning of musculoskeletal anatomy including your textbook, atlas, lecture summaries, lecture recordings, Acland’s Video Atlas of the Human Body (available on the Library’s website), additional text files within ‘Supplementary Notes’ folders on FMB’s elearning site, practical/tutorial classes, many formative assessment opportunities (online quizzes for each topic within ‘Quizzes’ folders, Anatomy Laboratory-based practice Identification questions), web-based resources and the Anatomy Museum (self-study or as part of a self-organised study group).
**Anatomy Museum (L105)**

**Hours of opening:** 8.30am - 4.00pm Monday to Thursday; 8.30am - ~3.00pm Friday. The Museum will be closed on the days examinations are held in the Laboratory and at any other time as determined by the Laboratory Manager.

**Anatomy Laboratory Staff**
The Manager of the Anatomy Laboratory and Museum is Deva Karlik (Room L111). See Deva or other lab staff to obtain material from the Anatomy Laboratory for use in the Museum. You will need to provide your Student ID card to obtain this material.

**Where to find help**

For any questions regarding the administration of this unit of study, email the Unit of Study Co-ordinator. For any questions about the content (ie. the learning objectives), email your tutor or the relevant lecturer.

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**Lecture Recordings**

The Discipline of Biomedical Science will record lectures in accordance with university policies. Recordings may not be made if recording facilities are unavailable, non-operational in the lecture venue, or if the lecturer exercises their right not to be recorded. From time to time, delays in lecture uploading may occur. Because lectures are recorded remotely, neither the individual lecturer nor the Discipline of Biomedical Science has control over lecture uploading.

*From time to time unforeseen circumstances may necessitate the cancellation of lectures. If this occurs, the Discipline of Biomedical Science will endeavour to schedule a replacement lecture at the earliest convenient time. However, timetabling constraints may make rescheduling impossible. In these circumstances an alternative that is deemed educationally valid will be provided. Under no circumstances will students be educationally disadvantaged by lecture cancellation.*
### BIOS1169 FMB Timetable – Semester 2 2018

<table>
<thead>
<tr>
<th>WEEK</th>
<th>Lecture</th>
<th>Lecture</th>
<th>Practical/Tutorials</th>
<th>Formative assessment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mon 8-9am E101</td>
<td>Mon 9-10am E101</td>
<td>Fri 9-11am/11am-1pm/1-3pm/2-5pm L107 (Anatomy Lab) or <strong>alternative (H204/H205L214/L217)</strong></td>
<td>ie. practice questions for the practical exams</td>
<td></td>
</tr>
<tr>
<td>1 (30/07/2018)</td>
<td>Introduction to FMB &amp; Pelvis</td>
<td>Pelvis and Hip 1</td>
<td>Bones &amp; joints of the pelvis &amp; hip</td>
<td></td>
</tr>
<tr>
<td>2 (6/08/2018)</td>
<td>Hip 2</td>
<td>Knee 1</td>
<td>Bones &amp; joints of the knee region; Gluteal &amp; thigh muscles 1</td>
<td></td>
</tr>
<tr>
<td>3 (13/08/2018)</td>
<td>Knee 2</td>
<td>Proximal lower limb function</td>
<td>Gluteal &amp; thigh muscles 2</td>
<td></td>
</tr>
<tr>
<td>4 (20/08/2018)</td>
<td>Leg &amp; ankle</td>
<td>Foot</td>
<td>Bones of the distal lower limb</td>
<td></td>
</tr>
<tr>
<td>5 (27/08/2018)</td>
<td>Distal lower limb function</td>
<td>Lower limb nerves</td>
<td>Joints &amp; muscles of the distal lower limb</td>
<td></td>
</tr>
<tr>
<td><strong>ONLINE QUIZ (WEDNESDAY) (5%)</strong></td>
<td></td>
<td></td>
<td>Distal lower limb</td>
<td></td>
</tr>
<tr>
<td>6 (03/09/2018)</td>
<td>Nerve lesions of the lower limb</td>
<td>Anatomy of gait 1</td>
<td><strong>Surface anatomy of pelvis &amp; lower limb</strong></td>
<td></td>
</tr>
<tr>
<td>7 (10/09/2018)</td>
<td>Lower limb function 1</td>
<td>Lower limb function 2</td>
<td>Blood vessels of the lower limb</td>
<td></td>
</tr>
<tr>
<td>8 (17/09/2018)</td>
<td>Anatomy of gait 2</td>
<td>Skeleton of trunk &amp; neck 1</td>
<td>MID-SEMESTER EXAM (30%)</td>
<td></td>
</tr>
<tr>
<td><strong>INTRA-SEMESTER BREAK</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9 (01/10/2018)</td>
<td>NO LECTURES SCHEDULED (PUBLIC HOLIDAY)</td>
<td>NO PRACTICAL CLASSES SCHEDULED</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10 (08/10/2018)</td>
<td>Skeleton of trunk &amp; neck 2</td>
<td>Skeleton of trunk &amp; neck 3</td>
<td>Skeleton of the trunk &amp; neck</td>
<td></td>
</tr>
<tr>
<td>11 (15/10/2018)</td>
<td>Muscles of the trunk 1</td>
<td>Muscles of the trunk 2</td>
<td>Trunk muscles</td>
<td></td>
</tr>
<tr>
<td>12 (22/10/2018)</td>
<td>Core stability</td>
<td>Muscles of the neck</td>
<td>Neck muscles</td>
<td></td>
</tr>
<tr>
<td>13 (29/10/2018)</td>
<td>Neck stability; Axial dermatomes</td>
<td>Review</td>
<td><strong>Surface anatomy of trunk &amp; neck</strong></td>
<td></td>
</tr>
</tbody>
</table>

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**Notes:**
- **WEEK**: The week number and date.
- **Lecture**: The lecture topics.
- **Practical/Tutorials**: The practical tutorial topics.
- **Formative assessment**: The formative assessment topics.
- **Surface anatomy**: The surface anatomy topics.
- **Revision**: The revision topics.
### Assessment

**Overview**  The aim of our teaching is to **support your independent learning**. The various assessment tools available to support independent learning of FMB content have been developed over many years as a result of our experience of teaching and prior students’ learning.

**Summative Assessments**  ie. formal assessments, centrally recorded and so contributing marks towards your final mark in BIOS1169 FMB. All summative assessments are compulsory.

The content covered in lectures, tutorial/practical sessions and independently by students (and as defined by the learning objectives) will be assessed in four (4) written examinations – one online quiz (the GART), two ‘Identification’ (Anatomy Laboratory-based) exams and one ‘Theory’ paper (in an examination room as scheduled by the University’s exam administration section).

Questions will be allocated to each topic in proportion to the time devoted to the topic through face-to-face classes.

**Dates, times and venues for the End-Semester exams will be made available prior to the examination period at [http://www.usyd.edu.au/current_students/student_administration/examinations/](http://www.usyd.edu.au/current_students/student_administration/examinations/)

As BIOS1169 FMB End-Semester examinations have previously been scheduled on the Friday in Week 16, **students are strongly advised NOT TO MAKE any personal travel arrangements for overseas or interstate travel for the mid-year break BEFORE early evening of the Friday in Week 16** if they are intending to book such travel before publication of the final exam timetable for Weeks 15/16.

Students should also be aware that they will need to make themselves available for any **Replacement exams in Week 18** should they find themselves not able to complete an FMB exam in Weeks 15 or 16.

Pre-existing travel plans will need to be changed if they clash with any scheduled exam or Replacement exam. **Note that there will be no opportunities to sit for any BIOS1169 FMB exam PRIOR TO its scheduled time slot.**

**Formative Assessments**  ie. assessments that provide ongoing **feedback** on your progress but do not contribute any marks towards your final mark in BIOS1169 FMB. Examples of formative assessments include the practice Identification questions in the Anatomy Laboratory, the GART Prep-Quizzes and the topic-based online quizzes. Formative assessments provide opportunities for you to check your current understanding of FMB’s content. They help direct your study to increase your potential for a better final result. Any marks allocated to the online quizzes are not centrally recorded.
<table>
<thead>
<tr>
<th>Assessment title</th>
<th>Assessment category</th>
<th>Assessment type</th>
<th>Description of Assessment type</th>
<th>Exam / Quiz type</th>
<th>Individual or Group</th>
<th>Length / duration</th>
<th>Weight</th>
<th>Due date and time</th>
</tr>
</thead>
<tbody>
<tr>
<td>End-Sem Theory Theory</td>
<td>Exam</td>
<td>Final exam</td>
<td>Written exam (MCQ)</td>
<td>Final exam</td>
<td>Individual</td>
<td>2 hours</td>
<td>40%</td>
<td>Final exam period</td>
</tr>
<tr>
<td>End-Sem Practical Exam</td>
<td>Exam</td>
<td>Final exam</td>
<td>Written, identification exam (MCQ)</td>
<td>Final exam</td>
<td>Individual</td>
<td>45 minutes</td>
<td>25%</td>
<td>Final exam period</td>
</tr>
<tr>
<td>Mid-Sem Exam</td>
<td>Exam</td>
<td>In-semester exam</td>
<td>Written, identification exam (MCQ)</td>
<td>In-semester exam</td>
<td>Individual</td>
<td>55 minutes</td>
<td>30%</td>
<td>Week 8</td>
</tr>
<tr>
<td>GART test</td>
<td>In-class assessments</td>
<td>Tutorial quiz, small test or online task</td>
<td>Online quiz (MCQ)</td>
<td>Online quiz</td>
<td>Individual</td>
<td>20 minutes</td>
<td>5%</td>
<td>Week 5</td>
</tr>
</tbody>
</table>
Feedback – How do you know whether you are studying well enough?

1. Your final result in BIOS1168 FMA (BIOS1169 FMB’s prerequisite Unit of Study) provides feedback to you about your knowledge and understanding of the facts and concepts underpinning the study of Musculoskeletal Anatomy to date. For this reason, students who:

   ● **achieved less than 60% in FMA and/or failed FMA and/or FMB at their first attempt are considered to be at most risk of failing FMB.**

   ● **have delayed their FMB studies for one semester or more following completion of FMA are also considered to be at risk of failing FMB.**

2. You receive continuous feedback during practical classes about your progress in FMB as a result of your interactions with your peers, your group tutor and the Laboratory resources. Your tutor will attempt to identify your learning needs and, within resource constraints, tailor activities to the needs of individuals and/or their practical class group.

3. You also receive valuable feedback when you attempt the formative assessments (in-Lab practice questions, pre-lecture worksheets, GART Prep-Quizzes, topic-based quizzes).

4. More feedback will be provided to you via the **eLearning site and/or email communication** regarding your performances in the GART and/or Mid-semester exam at the time of, or soon after, the release of the results.

**General comments about the Mid-Semester exam (MSE) results**

You will receive a mark out of 30% for your MSE ~5 working days after your examination. The focus of the MSE is on examining a student's ability to identify structures and on his/her understanding of more basic information about these structures. Therefore, as a generalisation, an unsatisfactory performance in the MSE is a reflection of an inability to correctly identify – either conceptually (e.g. muscles that flex the joints they cross are generally located on the anterior surfaces of body segments) or specifically by recognising the name of individual anatomical structures.

Note that the MSE **DOES NOT** focus on testing the more difficult (functionally-related/applied) content in FMB. The testing of this content is the focus of the Theory exam in Week 15 or 16.

For this reason, students who **score less than 18 out of 30 for the MSE are at increased risk of failing FMB.** Such students should adjust their application to their FMB studies accordingly. They are strongly advised to follow any available recommendations to potentially improve their results. Some students may be requested to consult with the FMB Co-ordinator and/or group tutor about their progress following release of the GART or Mid Semester exam results.

**Assessment policy and procedures**

**It is the individual student’s responsibility to be available for all summative (marks contribute to final grade) assessments including Replacement Assessments.**

Schedule of **Standard** assessments is: Week 5 (online); Friday Week 8 (Anatomy Lab); Week 15 or 16 (Anatomy Lab); Week 15 or 16 (unknown venue).

Schedule of **Replacement** assessments (if a student’s Special Consideration application for any of the standard schedule of assessments is approved) is: Week 7 (online) for a missed/compromised Week 5 assessment; Friday Week 10 for a missed/compromised Week 8 assessment; Week 18 for a missed/compromised Week 15 or 16 assessment.
Misreading or misunderstanding of the time and/or the location of an assessment will **NOT BE ACCEPTED** as a valid reason for failing to attend any assessment when the scheduling of that assessment is known at the beginning of the semester.

Any pre-booked personal vacation “clashing” with a Standard or a Replacement Assessment **IS NOT A VALID REASON** for applying for Special Exam Arrangements. Therefore, if you do know before semester starts and/or before the HECS Census date that you will be unable to attend the FMB examinations on the Friday of Week 8 and/or anytime during Weeks 15 & 16 (eg. due to any holiday plans previously arranged for these weeks), then you should immediately discuss your withdrawal from this semester’s enrolment in FMB with your FHS Course Director and then re-enrol in BIOS1169 FMB later in your study program at a time when you are able to attend all of FMB’s scheduled assessments.

Calculators are not required nor permitted in examinations in BIOS1169 FMB.

### Communication Policies

#### Canvas (eLearning site)

This unit of study requires students to **regularly and frequently access** the on-line eLearning site ([https://canvas.sydney.edu.au](https://canvas.sydney.edu.au)) (Canvas) for BIOS1169 Functional Musculoskeletal Anatomy B (FMB).

On FMB’s Canvas site are the Unit of Study Outline, timetable, Learning Objectives manual, lists of objectives to be covered in lectures and practical classes/tutorials, lecture summaries, supplementary lecture notes, answers to Frequently Asked Questions, discussion forums, topic-based Practice Quizzes, worksheets and links to sites to support the learning experience.

Students are encouraged to use the Discussion forums in each week’s learning module to post questions or comments about the learning objectives or lecture content and/or to respond to other Discussion forum users’ postings. Lecturers monitor these discussions and respond with clarifications and/or additional material when necessary.


ICT helpdesk links can be found at: [http://sydney.edu.au/ict/contact/helpdesk.shtml](http://sydney.edu.au/ict/contact/helpdesk.shtml)

#### Email

The most straightforward method of communication with Biomedical Sciences staff is via email. The guidelines for email communication include:

- use your official University of Sydney email address for all correspondence
- address the Biomedical Science staff member appropriately
- identify yourself by name
- identify your Unit of Study
- word your email clearly and succinctly

Due to concerns about viruses, anonymous emails, emails containing unsolicited attachments, **emails from a non-university address are unlikely to be opened by staff.**

### Academic Honesty

Deliberate breaches of academic honesty constitute academic misconduct. These breaches include:

- Plagiarism
- Fabrication of data
- Recycling previously submitted material
- Engaging someone else to complete an assessment on one’s behalf
- Misconduct during supervised assessments
The penalties for academic misconduct may include:
- A mark of zero on the assessment
- A fail grade in the Unit of Study
- Additional assessment (including an unseen exam)
- Reference of the matter to the University Registrar

Issues concerning breaches of academic honesty may be dealt with either through the process of determining academic results in a Unit of Study, or, in the most serious cases, by invocation of misconduct procedures.

Students should consult:


**USE OF SIMILARITY DETECTION SOFTWARE**

All written assignments submitted in this unit of study will be submitted to the similarity detecting software program known as Turnitin. Turnitin searches for matches between text in your written assessment task and text sourced from the Internet, published works and assignments that have previously been submitted to Turnitin for analysis.

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**Special Consideration**

What it means to receive Special Consideration

- If you apply and receive approval for Special Consideration prior to the examination, you do not sit for the examination at its advertised time and you will be required to attend a Replacement Assessment*.
- If you apply and receive approval for Special Consideration after the examination and did not sit the examination, you will be required to attend a Replacement Assessment*.
- If you apply and receive approval for Special Consideration after sitting the examination, your exam paper for the normal examination will not be marked and you will be required to attend a Replacement Assessment*.

*Should your application for Special Consideration for any assessment in BIOS1169 FMB be successful, you must make yourself available for the relevant Replacement Assessment at the following times:

- **Mid-Semester Replacement Assessment**: Friday Week 10 (in Sem 2 2018) most usually at 8.00am-9.00am in the Anatomy Laboratory (to be confirmed as exact timing is subject to student and Lab availability)
- **End-Semester Replacement Assessment for the 2 hour Theory Paper**: Week 18 (as scheduled by the University's Exams Branch - Replacement assessments are scheduled from Wednesday to Saturday inclusive in Week 18).
- **End-Semester Replacement Assessment for the 1 hour Identification Paper (Practical/Anatomy Laboratory-based Exam)**: Week 18 (most likely late morning or lunch time on the Tuesday of Week 18)
Please Note:

- Alternative timings for the Replacement Assessments to those listed above are **not available**
- Replacement assessments are equivalent, but not identical, to the originally scheduled assessments.
- The replacement exam may not cover the same topics as the exam that was impacted, but will test the same learning outcomes. Other factors (such as the length, duration or structure of the exam) may also be different.

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Please visit the following website for information and the application form:

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A student may appeal against a mark or grade for either a single assessment within or the final assessment for the whole of a Unit of Study. Students are encouraged to consult with their Unit of Study Coordinator in the first instance prior to lodging an appeal.

A student may appeal against an administrative decision. More information can be found here:

http://sydney.edu.au/students/academic-appeals.html

**Available IT Services for students**

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All Students are given a *UniKey* account that lets them access IT (internet) services around the university.

The University Computer Access Labs provide students and staff members of the University of Sydney with access to computers. These labs give students and staff access to printing, scanning, internet access, word processing, and expert staff assistance.

**On the Cumberland Campus**, computer labs are located on Level 2 of Building B in Room B107


**Opening hours**: *During Semester*: Monday, Tuesday, Friday 9 am - 5 pm

**Response to Student Feedback**

New to 2018 are:

- revised lectures and related learning resources for the gait analysis lectures
- new Learning Management System (Canvas)
Student Administration

The Student Centre can assist you with matters relating to admissions, enrolments, HECS and domestic fees, student cards, class timetables, examinations and graduation.

http://sydney.edu.au/study/student-administration.html

Phone: 1800 SYD UNI (1800 793 864)

or enquire online https://sydney.edu.au/students/forms/make-an-enquiry.html

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Disability Services Office

Unit of Study Outline

BIOS 1170
Body Systems: Structure and Function
Semester 1, 2018

Coordinator: Dr Jaimie Polson

Unit of Study Description

This unit will present the gross anatomy, functional histology and physiology of three major body systems that are vital for maintaining homeostasis: the cardiovascular, respiratory and urinary systems. Some of the specific diseases of these systems that are commonly encountered in health care practice will be described in terms of how dysfunction in anatomy and physiological processes leads to disease. The unit will also cover the characteristics of the body's fluids and the concept of acid-base balance within the body. Material will be presented in lectures and practical/tutorial sessions. This unit includes laboratory classes in which human cadaveric material is studied; attendance at these classes is compulsory.
In this Unit you will learn about the anatomy, physiology and some common diseases (pathophysiology) of three of the key organ systems of the body: the cardiovascular, respiratory and urinary systems. Some basic physical principles of the laws governing the motion of fluids and gases will also be covered.


The relevant chapters on the cardiovascular, respiratory and urinary systems (including acid base balance) are easily identified. It is recommended that you read these chapters in their entirety.

All general questions concerning the subject should be addressed to the unit of study coordinator. Such questions include matters regarding advanced standing, special consideration, medical certificates and examinations.

**Dr Jaimie Polson**  
*Cumberland Campus*  
Office: Rm L228

**Camperdown Campus**  
Lab: Rm N646, Anderson Stuart Bldg Tel:

Academic questions and questions regarding clarification of the lecture content should be addressed to the individual lecturer concerned. All staff members involved as instructors within this subject would appreciate your cooperation in making appointments at mutually agreeable times, should you wish to discuss any aspect of the work with them.

**A/Prof Fazlul Huq**  
L233

**Dr Peter Knight**  
L223

**Dr Jaimie Polson**  
L228

**Additional senior members of teaching team:**

**Dr Elizabeth Hegedus**  
L220

**Dr Diana Oakes**  
L213A
### Unit Overview - Classes and Topics

#### Lectures:
Up to 3 lectures per week. Lectures are held in lecture theatre E101. Lecture slots are Mondays 12pm & 1pm and Tuesdays 8am (please check the timetable below and on the BIOS1170 eLearning site for times of each week’s lectures)

#### Practical/Tutorial Classes:
will be held in Weeks 2,3,4,5,6,9,11,12 and 13

You have been allocated to a practical group. **Check the time of your practical or tutorial on your personal timetable.**

**Note:** Students **must** attend their own practical/tutorial at the time and place indicated. Students may not swap groups for their own convenience. Each tutor will have a list of students in the tutorial group and regular attendance checks will be made.

*Requests for change of groups due to work commitments will be denied; there are many students who work and there is no equitable way to grant all requests as we are bound by WHS legislation to limit student numbers in labs.*

The **exact location** of the practical class **must** be confirmed through the BIOS timetable link on the website before the practical class. The locations of practical classes, other than those held in L107 (the Anatomy Lab), are also found on various notice boards near the entrance to the labs. **Note that the physiology and fluids labs and the renal/acid base tutorial (i.e. those other than anatomy) are on the 2nd floor.** Locations of Practical classes have Building code, Level code and Room number. For example L107 (building L, level 1 = ground floor, room 07).

**Practical and tutorial classes require that you PREPARE prior to the scheduled class. Bring your lecture notes and an atlas to each anatomy practical class.**

#### Practical and Tutorial Class Attendance:

Faculty of Health Science policy stipulates that:

“Students are expected to attend a minimum of 90% of timetabled activities for a Unit of Study, unless granted exemption by the Dean, head of school or professor most concerned. The Dean, head of school or professor most concerned may determine that a student fails a Unit of Study because of inadequate attendance.”

Please note that class rolls will be taken each week. Non-attendance at more than 2 of the practical/tutorial sessions will be considered “inadequate attendance” and result in failure to meet the requirements of the Unit of Study. In this instance, you will be required to demonstrate that you have understood and completed the objectives of the missed practical class/tutorial sessions as outlined in your course manual. You will need to contact the course co-ordinator to determine how best you can demonstrate this (e.g. submitting completed objectives, sending in a video of you explaining the objectives). Failure to do this may result in a Fail (FA) grade for this Unit of Study.

### Lecture Recordings

The Discipline of Biomedical Science will record lectures in accordance with university policies. Recordings may not be made if recording facilities are unavailable, non-operational in the lecture venue, or if the lecturer exercises their right not to be recorded. From time to time, delays in lecture uploading may occur. Because lectures are recorded remotely, neither the individual lecturer nor the Discipline of Biomedical Science have control over lecture uploading.

You should not rely on recordings to replace face-to-face classes.
What to do when you miss a class:

If you miss a:
- lecture: the onus is on you to cover the material in your own time using the lecture summaries available on the eLearning site plus your textbook.
- practical class: again, the onus is on you to cover the material in your own time. Your textbook or other reference material will help. If you have a student colleague that attended the class you may be able to examine their learning resources of the missed class during subsequent practical classes. Note that absence at more than 2 practical classes, without demonstrating that you have completed the missed objectives, may result in a Fail grade. If you know ahead of the HECS census date that you will be absent for more than 2 classes, you may wish to discuss withdrawing from BIOS1170 until a later semester with your FHS course director.

Note: Content presented in Practical and Tutorial classes will be examinable in the Mid-semester and End-semester exams.

Anatomy Museum (L105): Hours of opening: 9.00am - 4.00pm Monday to Friday. The Museum will be closed on days when there are examinations in the Anatomy Laboratory, any scheduled classes in the Museum and if there is no laboratory staff available to oversee the Museum.

The following conditions apply for use of the Anatomy Museum:
- Students using Museum must comply with any requests by academic and technical staff.
- Maximum of 32 students in the Museum.
- No food or drinks allowed.
- No bags or personal belongings to be left unattended.
- No materials to be removed from the Museum.
- Student identification cards will be held as a deposit for the loan of bones, models, catalogues for use in the Museum.

As an independent, adult learner it is up to you to determine a study plan that best suits you. You have a number of resources available to assist your learning including the practical/tutorial classes, a range of textbooks in the library, sample exam questions and other materials (such as papers or review articles) that may be recommended by lecturers. This means that besides lectures, an important aspect of your learning requires you to complete activities, in your own time.

Analyses of past student experiences has shown that those students who do not complete post-lecture activities and attend practical/tutorial classes are more likely to obtain a FAIL grade for this Unit of Study.

Help! - Who to see if you need help in BIOS1170

If you have questions about the material covered in the lectures, you can make an appointment (by email, see page 2 for email addresses) to meet with the relevant lecturer.

Questions from the practical/tutorial classes should be directed to the tutor who teaches your practical class.
<table>
<thead>
<tr>
<th>WEEK</th>
<th>Lecture Mon 12-1 (Rm E101)</th>
<th>Lecture Mon 1-2 (Rm E101)</th>
<th>Lecture Tue 8-9 (Rm E101)</th>
<th>Pracs/Tutes Tues 9-11, 11-1, 1-3, Wed 9-11</th>
<th>Friday</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Introduction</td>
<td>CVS1</td>
<td>Fluids 1</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>2</td>
<td>Fluids 2</td>
<td>CVS2</td>
<td>CVS3</td>
<td>Anatomy of the heart &amp; vessels Prac (2 hours)</td>
<td>CVS Anatomy W’sheet due</td>
</tr>
<tr>
<td>3</td>
<td>CVS4</td>
<td>CVS5</td>
<td>CVS6</td>
<td>Fluids Prac (2 hours)</td>
<td>Fluids W’sheet due</td>
</tr>
<tr>
<td>4</td>
<td>CVS7</td>
<td>CVS8</td>
<td>CVS9</td>
<td>CVS Function Prac (2 hours)</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Break week</td>
<td>Break week</td>
<td>Break week</td>
<td>Break week</td>
<td>Break week</td>
</tr>
<tr>
<td>5</td>
<td>Respiratory System 1</td>
<td>Respiratory System 2</td>
<td>Respiratory System 3</td>
<td>Control of Blood Pressure</td>
<td>CVS Physiology W’sheet due</td>
</tr>
<tr>
<td>6</td>
<td>Respiratory System 4</td>
<td>Feedback CVS</td>
<td>Gases</td>
<td>Respiratory Anatomy Prac (2 hours)</td>
<td>Gases W’sheet due</td>
</tr>
<tr>
<td>7</td>
<td>Mid Semester Exam</td>
<td>Respiratory System 5</td>
<td>-</td>
<td>-</td>
<td>Respiratory Anatomy W’sheet due</td>
</tr>
<tr>
<td>8</td>
<td>Respiratory System 6</td>
<td>-</td>
<td>Respiratory System 7</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>9</td>
<td>Respiratory System 8</td>
<td>Urinary System 1</td>
<td>Urinary System 2</td>
<td>Pulmonary Function Tests Prac (2 hours)</td>
<td>Respiratory Physiology W’sheet due</td>
</tr>
<tr>
<td>10</td>
<td>Urinary System 3</td>
<td>-</td>
<td>Urinary System 4</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>11</td>
<td>Urinary System 5</td>
<td>Myth Busters urinary</td>
<td>Urinary System 6</td>
<td>Urinary Anatomy Prac (2 hours)</td>
<td>Urinary Anatomy W’sheet due</td>
</tr>
<tr>
<td>12</td>
<td>Acid-base Balance 1</td>
<td>Acid-base Balance 2</td>
<td>-</td>
<td>Urinary System tutorial (1 hour)</td>
<td>Urinary Physiology W’sheet due</td>
</tr>
<tr>
<td>13</td>
<td>Feedback Urinary</td>
<td>-</td>
<td>-</td>
<td>Acid-base tutorial (1 hour)</td>
<td>Acid Base W’sheet due</td>
</tr>
</tbody>
</table>

**BIOS1170 Timetable – Semester 1, 2018**
Explanation of assessment

The aim of our teaching is to support your learning. The assessment tools have been developed over many years as a result of our experience of teaching and previous student learning. We have also learned much from surveys of learning that previous students have completed.

As a result we have learnt that students with little or no background in the topics covered in this unit need to work steadily and consistently at understanding, because so much of the later semester work is building on material covered in the early weeks. It takes some time for all the pieces to come together. Because of this, although the worksheets carry no marks, they are vital for successful completion of the Unit.

Assessments carrying marks (summative assessment) include 10% in the form of quizzes during the practical classes and then the remaining 90% in the form of examinations in week 7 and 15/16 when there has been more time for the “bigger picture” to have been understood.

These worksheets also give students who have some background the opportunity to assess what they do already know, and the areas where they need to focus more strongly.

Types of Assessment:

**FORMATIVE ASSESSMENT** i.e. assessment that provides ongoing feedback on your progress. The marks are not centrally recorded and do not count to your final grade. In BIOS1170 formative assessment takes place primarily in the form of worksheets and sample questions.

*Worksheets (x9):* It is highly recommended that you complete all the worksheets. The worksheets test your understanding and application of key concepts. Note that some of the material in worksheets may not be covered in detail in lectures but is examinable content. Submission of worksheets is noted by the UoS coordinator.

- Worksheets are submitted via the eLearning site by the due date.
- Model answers will be provided several days after the completion dates.

<table>
<thead>
<tr>
<th>Worksheet</th>
<th>Submission Due Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>CVS anatomy</td>
<td>Friday (wk 2)</td>
</tr>
<tr>
<td>Fluids</td>
<td>Friday (wk 3)</td>
</tr>
<tr>
<td>CVS physiology</td>
<td>Friday (wk 5)</td>
</tr>
<tr>
<td>Gases</td>
<td>Friday (wk 6)</td>
</tr>
<tr>
<td><strong>Respiratory anatomy</strong></td>
<td>Friday (wk 7)</td>
</tr>
<tr>
<td>Respiratory physiology</td>
<td>Friday (wk 9)</td>
</tr>
<tr>
<td><strong>Urinary anatomy</strong></td>
<td>Friday (wk 11)</td>
</tr>
<tr>
<td>Urinary physiology</td>
<td>Friday (wk 12)</td>
</tr>
<tr>
<td>Acid base</td>
<td>Friday (wk 13)</td>
</tr>
</tbody>
</table>
Sample Questions: Sample questions for each topic will be provided 1-2 weeks before an exam. The sample questions will be of a similar level of difficulty to those in the exam.

SUMMATIVE ASSESSMENT i.e. the formal assessment, centrally recorded: This is in the form of 7 quizzes that take place during practical classes and two examinations; the mid-semester exam and the end-semester exam. The quizzes will be worth 10% of the final mark and will include the 5 best performances. **ALL SUMMATIVE ASSESSMENTS MUST BE COMPLETED in order to complete this unit of study successfully** (i.e. you must sit both exams in order to pass this Unit).

Written examinations: Material covered in lectures, tutorials, practical sessions, and worksheets will be assessed in two formal written examinations. **Questions will be allocated to each topic in proportion to the time devoted to it through lectures, practical classes, tutorial classes and worksheets.**

<table>
<thead>
<tr>
<th>Assessment title</th>
<th>Assessment category</th>
<th>Assessment type</th>
<th>Description of Assessment type</th>
<th>Exam / Quiz type</th>
<th>Individual or Group</th>
<th>Length / duration</th>
<th>Weight</th>
<th>Due date and time</th>
</tr>
</thead>
<tbody>
<tr>
<td>In-class quizzes</td>
<td>Exam</td>
<td>In-semester exam</td>
<td>Written exam (MCQ)</td>
<td>In-semester exam</td>
<td>Individual</td>
<td>10 min/quiz</td>
<td>10%</td>
<td>During practical classes in Weeks 2,3,4,5,6,9,11</td>
</tr>
<tr>
<td>Mid Semester Exam</td>
<td>Exam</td>
<td>In-semester exam</td>
<td>Written exam (MCQ)</td>
<td>In-semester exam</td>
<td>Individual</td>
<td>50 minutes</td>
<td>35%</td>
<td>Week 7 (Monday 24 April, 12pm) Venue: TBA</td>
</tr>
<tr>
<td>End Semester Exam</td>
<td>Exam</td>
<td>Final exam</td>
<td>Written exam (MCQ)</td>
<td>Final exam</td>
<td>Individual</td>
<td>120 minutes</td>
<td>55%</td>
<td>Week 15/16</td>
</tr>
</tbody>
</table>

Mid semester exam: This examination will cover fluids and cardiovascular system (anatomy, physiology & pathophysiology). End semester exam:

This examination will cover the material that was **not** covered in the mid-semester exam.
Feedback – How do you know whether you are studying well?

Your major source of feedback will be by completing the worksheets and sample questions mentioned above (answers will be provided). Feedback will also be provided via your performance in the quizzes conducted in the practical classes and in the mid-semester exam. You will receive an email via your University of Sydney account detailing your results in the quizzes and the mid-semester examination.

Assessment policy and procedures

It is the individual student’s responsibility to be available for all assessments.

Students are required to be present at the correct time and place. Misreading or misunderstanding of the time and/or the location of an assessment will not be accepted as a reason for failure to attend an assessment.

Calculators are not permitted in examinations; assessments have been modified so that calculators are not required.

Canvas (eLearning site)

This unit of study requires students to use the BIOS1170 Body Systems: structure and Function on-line eLearning site (https://canvas.sydney.edu.au/) (Canvas) to access information or complete assessments. Materials on the site include: the Unit of Study Outline, Handbook, Timetable, Lecture Notes, Worksheets and Discussion Forum.

The eLearning site should be accessed by students at regular intervals.

Students are encouraged to use the discussion forum to discuss material covered in the Unit of Study. Lecturers may monitor these discussions and intervene if material being discussed contains any errors.

Help for logging in to eLearning is at: https://sydney.edu.au/students/learning-in-canvas-and-blackboard.html

ICT helpdesk links can be found at: http://sydney.edu.au/ict/contact/helpdesk.shtml

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When communicating with teaching staff the most straightforward method is via email. Note the following guidelines when emailing staff.

- Use your university email address.
- Address the person appropriately
- Identify yourself by name
- Identify the Unit of Study that you are enquiring about
- Word your email clearly

Due to concerns about viruses, anonymous emails, emails containing unsolicited attachments emails from a non-university address are unlikely to be opened or read.
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- If you apply and receive approval for Special Consideration after the examination and did not sit the examination, you will be required to sit a Replacement Assessment.
- If you apply and receive approval for Special Consideration after sitting the examination, your exam paper for the normal examination will not be marked and you will be required to sit a Replacement Assessment*.

You must make yourself available at the University’s Replacement Assessment periods.

- Mid-semester Replacement Assessments: Week 13 Mon or Tues (late afternoon)
- End-semester Replacement Assessments: Week 18.

Please Note:
- No alternative arrangements are available.
- There will be changes in the replacement examination questions from those in the original examination.
- The replacement exam may not cover the same topics as the exam that was impacted, but will test the same learning outcomes. Other factors (such as the length, duration or structure of the exam) may also be different.

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Available IT Services for students

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All Students are given a *UniKey* account that lets them access IT (internet) services around the university.
The University Computer Access Labs provide students and staff members of the University of Sydney with access to computers. These labs give students and staff access to printing, scanning, internet access, word processing, and expert staff assistance.

**On the Cumberland Campus**, computer labs are located on level 2 of Building B, in Room B107 **Opening hours: During Semester**: Monday – Friday 7:30 am - 10:00 pm, **During Vacation**: Monday – Friday, 7:30am - 6:00pm, **Staff available**: Monday to Friday 7:30am- 3:30pm


**Response to Student Feedback**
Student feedback, gathered through surveys and other sources, have been incorporated into worksheets, practicals, tutorials and lectures. Lecture notes are now provided the week prior to delivery of the lecture. Changes have been made to the sequencing of lectures and to the use of worksheets for feedback.

**Student Support**

**Student Administration**
The Student Centre can assist you with matters relating to admissions, enrolments, HECS and domestic fees, student cards, class timetables, examinations and graduation.


**Phone**: 1800 SYD UNI (1800 793 864) or enquire online [https://sydney.edu.au/students/forms/make-an-enquiry.html](https://sydney.edu.au/students/forms/make-an-enquiry.html)

**Counseling Service**

**Disability Services Office**
Unit of Study Outline

BIOS 1170
Body Systems: Structure and Function
Semester 1, 2018

Coordinator: Dr Jaimie Polson

Unit of Study Description

This unit will present the gross anatomy, functional histology and physiology of three major body systems that are vital for maintaining homeostasis: the cardiovascular, respiratory and urinary systems. Some of the specific diseases of these systems that are commonly encountered in health care practice will be described in terms of how dysfunction in anatomy and physiological processes leads to disease. The unit will also cover the characteristics of the body’s fluids and the concept of acid-base balance within the body. Material will be presented in lectures and practical/tutorial sessions. This unit includes laboratory classes in which human cadaveric material is studied; attendance at these classes is compulsory.
In this Unit you will learn about the anatomy, physiology and some common diseases (pathophysiology) of three of the key organ systems of the body: the cardiovascular, respiratory and urinary systems. Some basic physical principles of the laws governing the motion of fluids and gases will also be covered.


The relevant chapters on the cardiovascular, respiratory and urinary systems (including acid base balance) are easily identified. It is recommended that you read these chapters in their entirety.

### Unit of Study Coordinator

All general questions concerning the subject should be addressed to the unit of study coordinator. Such questions include matters regarding advanced standing, special consideration, medical certificates and examinations.

**Dr Jaimie Polson**  
*Cumberland Campus*  
Office: Rm L228

**Camperdown Campus**  
Lab: Rm N646, Anderson Stuart Bldg  
Tel: 

### Lecturers

**Academic questions and questions regarding clarification of the lecture content should be addressed to the individual lecturer concerned.** All staff members involved as instructors within this subject would appreciate your cooperation in making appointments at mutually agreeable times, should you wish to discuss any aspect of the work with them.

**A/Prof Fazlul Huq**  
L233

**Dr Peter Knight**  
L223

**Dr Jaimie Polson**  
L228

**Additional senior members of teaching team:**

**Dr Elizabeth Hegedus**  
L220

**Dr Diana Oakes**  
L213A
Unit Overview - Classes and Topics

**Lectures:** Up to 3 lectures per week. Lectures are held in lecture theatre E101. Lecture slots are Mondays 12pm & 1pm and Tuesdays 8am (please check the timetable below and on the BIOS1170 eLearning site for times of each week’s lectures)

**Practical/Tutorial Classes:** will be held in Weeks 2,3,4,5,6,9,11,12 and 13

You have been allocated to a practical group. Check the time of your practical or tutorial on your personal timetable.

**Note:** Students must attend their own practical/tutorial at the time and place indicated. Students may not swap groups for their own convenience. Each tutor will have a list of students in the tutorial group and regular attendance checks will be made.

Requests for change of groups due to work commitments will be denied; there are many students who work and there is no equitable way to grant all requests as we are bound by WHS legislation to limit student numbers in labs.

The exact location of the practical class must be confirmed through the BIOS timetable link on the website before the practical class. The locations of practical classes, other than those held in L107 (the Anatomy Lab), are also found on various notice boards near the entrance to the labs. Note that the physiology and fluids labs and the renal/acid base tutorial (i.e. those other than anatomy) are on the 2nd floor. Locations of Practical classes have Building code, Level code and Room number. For example L107 (building L, level 1 = ground floor, room 07).

Practical and tutorial classes require that you PREPARE prior to the scheduled class. Bring your lecture notes and an atlas to each anatomy practical class.

**Practical and Tutorial Class Attendance:**

Faculty of Health Science policy stipulates that:

“Students are expected to attend a minimum of 90% of timetabled activities for a Unit of Study, unless granted exemption by the Dean, head of school or professor most concerned. The Dean, head of school or professor most concerned may determine that a student fails a Unit of Study because of inadequate attendance.”

Please note that class rolls will be taken each week. Non-attendance at more than 2 of the practical/tutorial sessions will be considered “inadequate attendance” and result in failure to meet the requirements of the Unit of Study. In this instance, you will be required to demonstrate that you have understood and completed the objectives of the missed practical class/tutorial sessions as outlined in your course manual. You will need to contact the course co-ordinator to determine how best you can demonstrate this (e.g. submitting completed objectives, sending in a video of you explaining the objectives). Failure to do this may result in a Fail (FA) grade for this Unit of Study.

**Lecture Recordings**

The Discipline of Biomedical Science will record lectures in accordance with university policies. Recordings may not be made if recording facilities are unavailable, non-operational in the lecture venue, or if the lecturer exercises their right not to be recorded. From time to time, delays in lecture uploading may occur. Because lectures are recorded remotely, neither the individual lecturer nor the Discipline of Biomedical Science have control over lecture uploading.

You should not rely on recordings to replace face-to-face classes.
What to do when you miss a class:

If you miss a:

- lecture: the onus is on you to cover the material in your own time using the lecture summaries available on the eLearning site plus your textbook.
- practical class: again, the onus is on you to cover the material in your own time. Your textbook or other reference material will help. If you have a student colleague that attended the class you may be able to examine their learning resources of the missed class during subsequent practical classes. Note that absence at more than 2 practical classes, without demonstrating that you have completed the missed objectives, may result in a Fail grade. If you know ahead of the HECS census date that you will be absent for more than 2 classes, you may wish to discuss withdrawing from BIOS1170 until a later semester with your FHS course director.

Note: Content presented in Practical and Tutorial classes will be examinable in the Mid-semester and End-semester exams.

Anatomy Museum (L105): Hours of opening: 9.00am - 4.00pm Monday to Friday. The Museum will be closed on days when there are examinations in the Anatomy Laboratory, any scheduled classes in the Museum and if there is no laboratory staff available to oversee the Museum.

The following conditions apply for use of the Anatomy Museum:

- Students using Museum must comply with any requests by academic and technical staff.
- Maximum of 32 students in the Museum.
- No food or drinks allowed.
- No bags or personal belongings to be left unattended.
- No materials to be removed from the Museum.
- Student identification cards will be held as a deposit for the loan of bones, models, catalogues for use in the Museum.

As an independent, adult learner it is up to you to determine a study plan that best suits you. You have a number of resources available to assist your learning including the practical/tutorial classes, a range of textbooks in the library, sample exam questions and other materials (such as papers or review articles) that may be recommended by lecturers. This means that besides lectures, an important aspect of your learning requires you to complete activities, in your own time.

Analyses of past student experiences has shown that those students who do not complete post-lecture activities and attend practical/tutorial classes are more likely to obtain a FAIL grade for this Unit of Study.

Help! - Who to see if you need help in BIOS1170

If you have questions about the material covered in the lectures, you can make an appointment (by email, see page 2 for email addresses) to meet with the relevant lecturer.

Questions from the practical/tutorial classes should be directed to the tutor who teaches your practical class.
<table>
<thead>
<tr>
<th>WEEK</th>
<th>Lecture Mon 12-1 (Rm E101)</th>
<th>Lecture Mon 1-2 (Rm E101)</th>
<th>Lecture Tue 8-9 (Rm E101)</th>
<th>Pracs/Tutes Tues 9-11, 11-1, 1-3, Wed 9-11</th>
<th>Friday</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Introduction</td>
<td>CVS1</td>
<td>Fluids 1</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>2</td>
<td>Fluids 2</td>
<td>CVS2</td>
<td>CVS3</td>
<td>Anatomy of the heart &amp; vessels Prac (2 hours)</td>
<td>CVS Anatomy W’sheet due</td>
</tr>
<tr>
<td>3</td>
<td>CVS4</td>
<td>CVS5</td>
<td>CVS6</td>
<td>Fluids Prac (2 hours)</td>
<td>Fluids W’sheet due</td>
</tr>
<tr>
<td>4</td>
<td>CVS7</td>
<td>CVS8</td>
<td>CVS9</td>
<td>CVS Function Prac (2 hours)</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Break week</td>
<td>Break week</td>
<td>Break week</td>
<td>Break week</td>
<td>Break week</td>
</tr>
<tr>
<td>5</td>
<td>Respiratory System 1</td>
<td>Respiratory System 2</td>
<td>Respiratory System 3</td>
<td>Control of Blood Pressure</td>
<td>CVS Physiology W’sheet due</td>
</tr>
<tr>
<td>6</td>
<td>Respiratory System 4</td>
<td>Feedback CVS</td>
<td>Gases</td>
<td>Respiratory Anatomy Prac (2 hours)</td>
<td>Gases W’sheet due</td>
</tr>
<tr>
<td>7</td>
<td>Mid Semester Exam</td>
<td>Respiratory System 5</td>
<td>-</td>
<td>-</td>
<td>Respiratory Anatomy W’sheet due</td>
</tr>
<tr>
<td>8</td>
<td>Respiratory System 6</td>
<td>-</td>
<td>Respiratory System 7</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>9</td>
<td>Respiratory System 8</td>
<td>Urinary System 1</td>
<td>Urinary System 2</td>
<td>Pulmonary Function Tests Prac (2 hours)</td>
<td>Respiratory Physiology W’sheet due</td>
</tr>
<tr>
<td>10</td>
<td>Urinary System 3</td>
<td>-</td>
<td>Urinary System 4</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>11</td>
<td>Urinary System 5</td>
<td>Myth Busters urinary</td>
<td>Urinary System 6</td>
<td>Urinary Anatomy Prac (2 hours)</td>
<td>Urinary Anatomy W’sheet due</td>
</tr>
<tr>
<td>12</td>
<td>Acid-base Balance 1</td>
<td>Acid-base Balance 2</td>
<td>-</td>
<td>Urinary System tutorial (1 hour)</td>
<td>Urinary Physiology W’sheet due</td>
</tr>
<tr>
<td>13</td>
<td>Feedback Urinary</td>
<td>-</td>
<td>-</td>
<td>Acid-base tutorial (1 hour)</td>
<td>Acid Base W’sheet due</td>
</tr>
</tbody>
</table>
Assessment

Explanation of assessment

The aim of our teaching is to support your learning. The assessment tools have been developed over many years as a result of our experience of teaching and previous student learning. We have also learned much from surveys of learning that previous students have completed.

As a result we have learnt that students with little or no background in the topics covered in this unit need to work steadily and consistently at understanding, because so much of the later semester work is building on material covered in the early weeks. It takes some time for all the pieces to come together. Because of this, although the worksheets carry no marks, they are vital for successful completion of the Unit. Assessments carrying marks (summative assessment) include 10% in the form of quizzes during the practical classes and then the remaining 90% in the form of examinations in week 7 and 15/16 when there has been more time for the “bigger picture” to have been understood.

These worksheets also give students who have some background the opportunity to assess what they do already know, and the areas where they need to focus more strongly.

Types of Assessment:

**FORMATIVE ASSESSMENT** i.e. assessment that provides ongoing feedback on your progress. The marks are not centrally recorded and do not count to your final grade. In BIOS1170 formative assessment takes place primarily in the form of worksheets and sample questions.

*Worksheets (x9):* It is highly recommended that you complete all the worksheets. The worksheets test your understanding and application of key concepts. Note that some of the material in worksheets may not be covered in detail in lectures but is examinable content. Submission of worksheets is noted by the UoS coordinator.

- Worksheets are submitted via the eLearning site by the due date.
- Model answers will be provided several days after the completion dates.

<table>
<thead>
<tr>
<th>Worksheet</th>
<th>Submission Due Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>CVS anatomy</td>
<td>Friday (wk 2)</td>
</tr>
<tr>
<td>Fluids</td>
<td>Friday (wk 3)</td>
</tr>
<tr>
<td>CVS physiology</td>
<td>Friday (wk 5)</td>
</tr>
<tr>
<td>Gases</td>
<td>Friday (wk 6)</td>
</tr>
<tr>
<td>Respiratory anatomy</td>
<td>Friday (wk 7)</td>
</tr>
<tr>
<td>Respiratory physiology</td>
<td>Friday (wk 9)</td>
</tr>
<tr>
<td>Urinary anatomy</td>
<td>Friday (wk 11)</td>
</tr>
<tr>
<td>Urinary physiology</td>
<td>Friday (wk 12)</td>
</tr>
<tr>
<td>Acid base</td>
<td>Friday (wk 13)</td>
</tr>
</tbody>
</table>
Sample Questions: Sample questions for each topic will be provided 1-2 weeks before an exam. The sample questions will be of a similar level of difficulty to those in the exam.

SUMMATIVE ASSESSMENT i.e. the formal assessment, centrally recorded: This is in the form of 7 quizzes that take place during practical classes and two examinations; the mid-semester exam and the end-semester exam. The quizzes will be worth 10% of the final mark and will include the 5 best performances. **ALL SUMMATIVE ASSESSMENTS MUST BE COMPLETED in order to complete this unit of study successfully** (i.e. you must sit both exams in order to pass this Unit).

**Written examinations:** Material covered in lectures, tutorials, practical sessions, and worksheets will be assessed in two formal written examinations. **Questions will be allocated to each topic in proportion to the time devoted to it through lectures, practical classes, tutorial classes and worksheets.**

<table>
<thead>
<tr>
<th>Assessment title</th>
<th>Assessment category</th>
<th>Assessment type</th>
<th>Description of Assessment type</th>
<th>Exam / Quiz type</th>
<th>Individual or Group</th>
<th>Length / duration</th>
<th>Weight</th>
<th>Due date and time¹</th>
</tr>
</thead>
<tbody>
<tr>
<td>In-class quizzes</td>
<td>Exam</td>
<td>In-semester exam</td>
<td>Written exam (MCQ)</td>
<td>In-semester exam</td>
<td>Individual</td>
<td>10 min/quiz</td>
<td>10%</td>
<td>During practical classes in Weeks 2,3,4,5,6,9,11</td>
</tr>
<tr>
<td>Mid Semester Exam</td>
<td>Exam</td>
<td>In-semester exam</td>
<td>Written exam (MCQ)</td>
<td>In-semester exam</td>
<td>Individual</td>
<td>50 minutes</td>
<td>35%</td>
<td>Week 7 (Monday 24 April, 12pm)</td>
</tr>
<tr>
<td>End Semester Exam</td>
<td>Exam</td>
<td>Final exam</td>
<td>Written exam (MCQ)</td>
<td>Final exam</td>
<td>Individual</td>
<td>120 minutes</td>
<td>55%</td>
<td>Week 15/16</td>
</tr>
</tbody>
</table>

Mid semester exam: This examination will cover fluids and cardiovascular system (anatomy, physiology & pathophysiology). End semester exam:

This examination will cover the material that was **not** covered in the mid-semester exam.
Feedback – How do you know whether you are studying well?

Your major source of feedback will be by completing the worksheets and sample questions mentioned above (answers will be provided). Feedback will also be provided via your performance in the quizzes conducted in the practical classes and in the mid-semester exam. You will receive an email via your University of Sydney account detailing your results in the quizzes and the mid-semester examination.

Assessment policy and procedures

**It is the individual student’s responsibility to be available for all assessments.**

Students are required to be present at the correct time and place. Misreading or misunderstanding of the time and/or the location of an assessment will not be accepted as a reason for failure to attend an assessment.

Calculators are not permitted in examinations; assessments have been modified so that calculators are not required.

Communication Policies

Canvas (eLearning site)

This unit of study requires students to use the BIOS1170 Body Systems: structure and Function on-line eLearning site (https://canvas.sydney.edu.au/) (Canvas) to access information or complete assessments. Materials on the site include: the Unit of Study Outline, Handbook, Timetable, Lecture Notes, Worksheets and Discussion Forum.

The eLearning site should be accessed by students at regular intervals.

Students are encouraged to use the discussion forum to discuss material covered in the Unit of Study. Lecturers may monitor these discussions and intervene if material being discussed contains any errors.

Help for logging in to eLearning is at: https://sydney.edu.au/students/learning-in-canvas-and-blackboard.html

ICT helpdesk links can be found at: http://sydney.edu.au/ict/contact/helpdesk.shtml

Email

When communicating with teaching staff the most straightforward method is via email. Note the following guidelines when emailing staff.

- Use your university email address.
- Address the person appropriately
- Identify yourself by name
- Identify the Unit of Study that you are enquiring about
- Word your email clearly

Due to concerns about viruses, anonymous emails, emails containing unsolicited attachments emails from a non-university address are unlikely to be opened or read.
Academic Honesty

Deliberate breaches of academic honesty constitute academic misconduct. These breaches include:

- Plagiarism
- Fabrication of data
- Recycling previously submitted material
- Engaging someone else to complete an assessment on one's behalf
- Misconduct during supervised assessments

The penalties for academic misconduct may include:

- A mark of zero on the assessment
- A fail grade in the Unit of Study
- Additional assessment (including an unseen exam)
- Reference of the matter to the University Registrar

Issues concerning breaches of academic honesty may be dealt with either through the process of determining academic results in a Unit of Study, or, in the most serious cases, by invocation of misconduct procedures.

Students should consult:


USE OF SIMILARITY DETECTION SOFTWARE

All written assignments submitted in this unit of study will be submitted to the similarity detecting software program known as Turnitin. Turnitin searches for matches between text in your written assessment task and text sourced from the Internet, published works and assignments that have previously been submitted to Turnitin for analysis.

There will always be some degree of text-matching when using Turnitin. Text-matching may occur in use of direct quotations, technical terms and phrases, or the listing of bibliographic material. This does not mean you will automatically be accused of academic dishonesty or plagiarism, although Turnitin reports may be used as evidence in academic dishonesty and plagiarism decision-making processes.
Special consideration

What it means to receive Special Consideration

- If you apply and receive approval for Special Consideration prior to the examination, you do not sit for the normal examination and you will be required to sit a Replacement Assessment.
- If you apply and receive approval for Special Consideration after the examination and did not sit the examination, you will be required to sit a Replacement Assessment.
- If you apply and receive approval for Special Consideration after sitting the examination, your exam paper for the normal examination will not be marked and you will be required to sit a Replacement Assessment*.

You must make yourself available at the University’s Replacement Assessment periods.

- Mid-semester Replacement Assessments: Week 13 Mon or Tues (late afternoon)
- End-semester Replacement Assessments: Week 18.

Please Note:

- No alternative arrangements are available.
- There will be changes in the replacement examination questions from those in the original examination.
- The replacement exam may not cover the same topics as the exam that was impacted, but will test the same learning outcomes. Other factors (such as the length, duration or structure of the exam) may also be different.

Applying for Special Consideration

Please visit the following website for information and application form:

https://sydney.edu.au/current_students/special_consideration/index.shtml

Student Appeals

Student Appeals: Academic and Administrative

A student may appeal against a mark or grade for either a single assessment, or the final assessment for a whole unit of study. Students are encouraged to consult with their unit of study coordinator in the first instance.

A student may appeal against an administrative decision. More information can be found here:

http://sydney.edu.au/students/academic-appeals.html
Available IT Services for students

Computer access
All Students are given a UniKey account that lets them access IT (internet) services around the university.
The University Computer Access Labs provide students and staff members of the University of Sydney with access to computers. These labs give students and staff access to printing, scanning, internet access, word processing, and expert staff assistance.

On the Cumberland Campus, computer labs are located on level 2 of Building B, in Room B107. Opening hours: During Semester: Monday – Friday 7:30 am - 10:00 pm, During Vacation: Monday – Friday, 7:30am - 6:00pm, Staff available: Monday to Friday 7:30am-3:30pm
http://sydney.edu.au/students/student-it.html

Response to Student Feedback
Student feedback, gathered through surveys and other sources, have been incorporated into worksheets, practicals, tutorials and lectures. Lecture notes are now provided the week prior to delivery of the lecture. Changes have been made to the sequencing of lectures and to the use of worksheets for feedback.

Student Support

Student Administration
The Student Centre can assist you with matters relating to admissions, enrolments, HECS and domestic fees, student cards, class timetables, examinations and graduation.
http://sydney.edu.au/study/student-administration.html

Phone: 1800 SYD UNI (1800 793 864)
or enquire online https://sydney.edu.au/students/forms/make-an-enquiry.html

Counseling Service
http://sydney.edu.au/current_students/counselling/

Disability Services Office
EXERCISE PHYSIOLOGY

EXSS2027 – Exercise Physiology for Clinicians

EXSS1029 – Muscle Mechanics and Training
Unit of Study Outline

1. Contact Details

Unit of Study Coordinators

<table>
<thead>
<tr>
<th>Dr Jasmine Yee</th>
<th>Tom Gwinn</th>
</tr>
</thead>
<tbody>
<tr>
<td>Office: H Block, Room H110</td>
<td>Office: K Block, Room K125</td>
</tr>
<tr>
<td>Consultation Times: by appointment</td>
<td>Consultation Times: by appointment</td>
</tr>
</tbody>
</table>

Lecturing and Teaching Staff

<table>
<thead>
<tr>
<th>Staff</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lecturers</td>
</tr>
<tr>
<td>Dr Jasmine Yee</td>
</tr>
<tr>
<td>Tom Gwinn</td>
</tr>
<tr>
<td>Michael Inskip</td>
</tr>
<tr>
<td>Lachlan Mitchell</td>
</tr>
<tr>
<td>Dr Alison Harmer</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Tutors/Demonstrators</th>
</tr>
</thead>
<tbody>
<tr>
<td>Marjan Haghighi</td>
</tr>
<tr>
<td>Michael Inskip</td>
</tr>
<tr>
<td>Lachlan Mitchell</td>
</tr>
<tr>
<td>Tim Davies</td>
</tr>
<tr>
<td>Chris Papic</td>
</tr>
<tr>
<td>Ryan Tam</td>
</tr>
<tr>
<td>Angelo Sabag</td>
</tr>
</tbody>
</table>

Course Administrator

Cristian Alegria
Office: K Block, Room K116a

Student Administration Manual

This unit of study outline MUST be read in conjunction with the Student Administration Manual on the Faculty of Health Sciences Current Students webpage:
All students are required to familiarise themselves with their academic responsibilities, and the academic policies governing their enrolment and progression. The Faculty of Health Sciences student administration manual provides a direct link to the University of Sydney’s Coursework policy and Faculty provisions.

When considering applications and appeals relating to these matters, it will be assumed that students understand their academic responsibilities, and are familiar with these key policies and procedures.

2. Unit of Study Information

The aim of this unit is to provide students with a broad understanding of the physiological responses and adaptations to physical activity and inactivity. The unit has a primary focus on the physiological responses to exercise, and the application of exercise as a treatment modality. The unit describes the basic metabolic, cardiovascular and respiratory responses and adaptations to exercise training in healthy, asymptomatic individuals (children, adults and the elderly). Attention is given to special populations who are often in need of increased exercise training (e.g. overweight, obese, elderly). Two class experiments are included during lecture hours to add practical experience and to develop critical thinking.

2.1 Prerequisites and assumed knowledge

Students should refer to the Faculty Handbook for information on:
- prerequisites, corequisites and assumed knowledge for this unit of study
- other units of study for which this unit is a prerequisite

2.2 Attendance Requirements

You are strongly encouraged to attend and actively take part in all lectures, tutorials and practicals in EXSS2027. Occasional e-lectures will replace live lectures.

3. Learning Outcomes

At the completion of this unit students will be able to:

1. Understand the interaction between the respiratory system and exercise, and describe normal and abnormal ventilatory responses to exercise
2. Understand the relationship between whole-body oxygen consumption, including maximal aerobic power and physical work
3. Describe the normal cardiovascular response to exercise
4. Explain the link between eating, cell metabolism and physical work
5. Describe how the respiratory system, cardiovascular system and cell metabolism interact to produce whole-body oxygen consumption
6. Describe the energy systems used by the body for different duration and intensities of exercise
7. Describe peripheral and central mechanisms of fatigue
8. Describe the adaptive response to regular exercise training
9. Understand the basic physiology underlying obesity and the role of exercise therapy
10. Understand the physiological consequences of inactivity
11. Develop knowledge of the measurement and prescription of cardiorespiratory fitness
12. Apply the principles of exercise prescription and program development over time
13. Understand the role of exercise therapy across the cancer continuum
14. Describe the components that contribute to reduce functional capacity in older people and the role of exercise training in the elderly
4. Learning and Teaching Resources

4.1 Required Textbook / Resources
There is no prescribed textbook for this unit. However, you may wish to use an Exercise Physiology textbook to aid your learning. A good example is:


OR


4.2 Learning Management System (LMS)
A Learning Management System (LMS) supports teaching in this unit. Material presented in lectures will be posted after the lecture on the LMS site, as well as announcements and updates. You should go to the site at least twice a week. You will access online learning activities that complement the seminar program through the LMS site.
## Assessment

### Assessment schedule

<table>
<thead>
<tr>
<th>Assessment title</th>
<th>Assessment Conditions</th>
<th>Individual/ Group</th>
<th>Length / duration</th>
<th>Weight</th>
<th>Due date and time</th>
<th>Unit / Accreditation Outcomes Assessed (as applicable)</th>
<th>Assessment type (for special consideration purposes)</th>
<th>Graduate Qualities Assessed</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Mid-semester exam</td>
<td>N/A</td>
<td>Individual</td>
<td>50 mins</td>
<td>30%</td>
<td>24 April</td>
<td>1 to 6</td>
<td>Exam - In-semester exam</td>
<td>Depth of disciplinary expertise, Critical thinking and problem solving</td>
</tr>
<tr>
<td>2. Practical report 1</td>
<td>N/A</td>
<td>Group</td>
<td>3 pages</td>
<td>10%</td>
<td>11 May</td>
<td>6 and 7</td>
<td>Group work - Assignment</td>
<td>Depth of disciplinary expertise, Critical thinking and problem solving, Communication, Information/ digital literacy</td>
</tr>
<tr>
<td>3. Practical report 2</td>
<td>N/A</td>
<td>Individual</td>
<td>2 pages</td>
<td>10%</td>
<td>1 June</td>
<td>3.11 and 3.12</td>
<td>Submitted work - Assignment</td>
<td>Depth of disciplinary expertise, Critical thinking and problem solving, Communication, Information/ digital literacy</td>
</tr>
<tr>
<td>4. Final exam</td>
<td>N/A</td>
<td>Individual</td>
<td>2 hours</td>
<td>50%</td>
<td>Week 15/16</td>
<td>1 to 14</td>
<td>Exam - Final exam</td>
<td>Depth of disciplinary expertise, Critical thinking and problem solving</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td></td>
<td></td>
<td><strong>100%</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### 5.2 Assessment details

<table>
<thead>
<tr>
<th>Assessment Item 1: Mid-semester exam</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Task description</strong></td>
</tr>
<tr>
<td>The mid-semester exam is conducted during normal lecture time during week 7. It is a closed book exam comprising multiple-choice and short answer questions covering the lecture and tutorial material from Weeks 1-5.</td>
</tr>
<tr>
<td><strong>Task length</strong></td>
</tr>
<tr>
<td>50 minutes</td>
</tr>
<tr>
<td><strong>Links to unit’s intended learning outcomes</strong></td>
</tr>
<tr>
<td>The assessment addresses learning outcomes 1 to 6.</td>
</tr>
<tr>
<td><strong>Dates and times due</strong></td>
</tr>
<tr>
<td>Week 7, Tuesday 24 April, 10am</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Assessment Item 2: Practical report 1</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Task description</strong></td>
</tr>
<tr>
<td>Written report of class practical experiment performed in Week 8. Assessment marking rubric will be available on Blackboard prior to the practical. Ensure you read and use this document in the preparation of your report. Report will be submitted via Turnitin.</td>
</tr>
<tr>
<td><strong>Task length</strong></td>
</tr>
<tr>
<td>Maximum 3 pages (excluding references), 1.5 line spacing, minimum font 12 arial, 1.27cm margins (narrow)</td>
</tr>
<tr>
<td><strong>Links to unit’s intended learning outcomes</strong></td>
</tr>
<tr>
<td>The assessment addresses learning outcomes 6 and 7.</td>
</tr>
<tr>
<td><strong>Dates and times due</strong></td>
</tr>
<tr>
<td>Week 9, Friday 11 May, 11:59pm</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Assessment Item 3: Practical report 2</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Task description</strong></td>
</tr>
<tr>
<td>Written report of class practical experiment performed in Week 11. Assessment marking rubric will be available on Blackboard prior to the practical. Ensure you read and use this document in the preparation of your report. Report will be submitted via Turnitin.</td>
</tr>
<tr>
<td><strong>Task length</strong></td>
</tr>
<tr>
<td>Maximum 2 pages (excluding references), 1.5 line spacing, minimum font 12 arial, 1.27cm margins (narrow)</td>
</tr>
<tr>
<td><strong>Links to unit’s intended learning outcomes</strong></td>
</tr>
<tr>
<td>The assessment addresses learning outcomes 11 and 12.</td>
</tr>
<tr>
<td><strong>Dates and times due</strong></td>
</tr>
<tr>
<td>Week 12, Friday 1 June, 11:59pm</td>
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<table>
<thead>
<tr>
<th>Assessment Item 4: Final exam</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Task description</strong></td>
</tr>
<tr>
<td>The final exam is conducted by the University Registrar in the formal examination period. See the Current Students homepage on the University website for details. Closed book exam comprising a number of multiple-choice and short answer questions covering the lecture, tutorial and practical material of the entire unit.</td>
</tr>
<tr>
<td><strong>Task length</strong></td>
</tr>
<tr>
<td>2 hours</td>
</tr>
<tr>
<td><strong>Links to unit’s intended learning outcomes</strong></td>
</tr>
<tr>
<td>The assessment addresses learning outcomes 1 – 14.</td>
</tr>
<tr>
<td><strong>Dates and times due</strong></td>
</tr>
<tr>
<td>Week 15 or 16</td>
</tr>
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</table>
6. Lecture and Seminar Schedule: Topics and Assessments

<table>
<thead>
<tr>
<th>Week</th>
<th>Day</th>
<th>Date</th>
<th>Time</th>
<th>Lectures (held at E101)</th>
<th>Tutorial/Assessment</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Tue</td>
<td>6 Mar</td>
<td>10 am</td>
<td>Introduction</td>
<td>JY</td>
</tr>
<tr>
<td></td>
<td>Wed</td>
<td>7 Mar</td>
<td>11 am</td>
<td>Gas exchange and transport</td>
<td>JY</td>
</tr>
<tr>
<td></td>
<td>Wed</td>
<td>7 Mar</td>
<td>12 pm</td>
<td>Gas exchange and transport</td>
<td>JY</td>
</tr>
<tr>
<td>2</td>
<td>Tue</td>
<td>13 Mar</td>
<td>10 am</td>
<td>Ventilatory responses to exercise I</td>
<td>JY</td>
</tr>
<tr>
<td></td>
<td>Wed</td>
<td>14 Mar</td>
<td>11 am</td>
<td>Ventilatory responses to exercise II</td>
<td>JY</td>
</tr>
<tr>
<td></td>
<td>Wed</td>
<td>14 Mar</td>
<td>12 pm</td>
<td>Ventilatory responses to exercise III</td>
<td>JY</td>
</tr>
<tr>
<td>3</td>
<td>Tue</td>
<td>20 Mar</td>
<td>10 am</td>
<td>Aerobic power I (Exercise performance) *</td>
<td>TG</td>
</tr>
<tr>
<td></td>
<td>Wed</td>
<td>21 Mar</td>
<td>11 am</td>
<td>Aerobic power II (Limitations to ex. performance)</td>
<td>TG</td>
</tr>
<tr>
<td></td>
<td>Wed</td>
<td>21 Mar</td>
<td>12 pm</td>
<td>Live demonstration lecture</td>
<td>TG</td>
</tr>
<tr>
<td>4</td>
<td>Tue</td>
<td>27 Mar</td>
<td>10 am</td>
<td>Cardiovascular responses to exercise I *</td>
<td>Tutorial 1</td>
</tr>
<tr>
<td></td>
<td>Wed</td>
<td>28 Mar</td>
<td>11 am</td>
<td>Cardiovascular responses to exercise II</td>
<td>TG</td>
</tr>
<tr>
<td></td>
<td>Wed</td>
<td>25 Mar</td>
<td>12 pm</td>
<td>Cardiovascular responses to exercise III</td>
<td>TG</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td><strong>Mid-semester break (2-6 April)</strong></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Tue</td>
<td>10 Apr</td>
<td>10 am</td>
<td>Metabolic responses to exercise I</td>
<td>LM</td>
</tr>
<tr>
<td></td>
<td>Wed</td>
<td>11 Apr</td>
<td>11 am</td>
<td>Metabolic responses to exercise II</td>
<td>LM</td>
</tr>
<tr>
<td></td>
<td>Wed</td>
<td>11 Apr</td>
<td>12 pm</td>
<td>Metabolic responses to exercise III</td>
<td>LM</td>
</tr>
<tr>
<td>6</td>
<td>Tue</td>
<td>17 Apr</td>
<td>10 am</td>
<td>Fatigue</td>
<td>LM</td>
</tr>
<tr>
<td></td>
<td>Wed</td>
<td>18 Apr</td>
<td>11 am</td>
<td>Training adaptations I</td>
<td>TG</td>
</tr>
<tr>
<td></td>
<td>Wed</td>
<td>18 Apr</td>
<td>12 pm</td>
<td>Training adaptations II</td>
<td>TG</td>
</tr>
<tr>
<td>7</td>
<td>Tue</td>
<td>24 Apr</td>
<td>10 am</td>
<td>Mid-Semester Exam</td>
<td>Exam</td>
</tr>
<tr>
<td></td>
<td>Wed</td>
<td>25 Apr</td>
<td>11 am</td>
<td>PH: CV and respiratory deconditioning *</td>
<td>AH</td>
</tr>
<tr>
<td></td>
<td>Wed</td>
<td>25 Apr</td>
<td>12 pm</td>
<td>PH: Peripheral deconditioning *</td>
<td>AH</td>
</tr>
<tr>
<td>8</td>
<td>Tue</td>
<td>1 May</td>
<td>10 am</td>
<td>PRACTICAL 1 Metabolism &amp; Fatigue</td>
<td>JY</td>
</tr>
<tr>
<td></td>
<td>Wed</td>
<td>2 May</td>
<td>11 am</td>
<td>PRACTICAL 1 Metabolism &amp; Fatigue</td>
<td>JY</td>
</tr>
<tr>
<td></td>
<td>Wed</td>
<td>2 May</td>
<td>12 pm</td>
<td>PRACTICAL 1 Metabolism &amp; Fatigue</td>
<td>JY</td>
</tr>
<tr>
<td>9</td>
<td>Tue</td>
<td>8 May</td>
<td>10 am</td>
<td>Clinical exercise testing I</td>
<td>Practical Report 1 due</td>
</tr>
<tr>
<td></td>
<td>Wed</td>
<td>9 May</td>
<td>11 am</td>
<td>Clinical exercise testing II</td>
<td>MI</td>
</tr>
<tr>
<td></td>
<td>Wed</td>
<td>9 May</td>
<td>12 pm</td>
<td>Clinical exercise testing III</td>
<td>MI</td>
</tr>
<tr>
<td>10</td>
<td>Tue</td>
<td>15 May</td>
<td>10 am</td>
<td>Exercise prescription I</td>
<td>MI</td>
</tr>
<tr>
<td></td>
<td>Wed</td>
<td>16 May</td>
<td>11 am</td>
<td>Exercise prescription II</td>
<td>MI</td>
</tr>
<tr>
<td></td>
<td>Wed</td>
<td>16 May</td>
<td>12 pm</td>
<td>Exercise prescription III</td>
<td>MI</td>
</tr>
<tr>
<td>11</td>
<td>Tue</td>
<td>22 May</td>
<td>10 am</td>
<td>PRACTICAL 2 Testing &amp; Prescription</td>
<td>JY</td>
</tr>
<tr>
<td></td>
<td>Wed</td>
<td>23 May</td>
<td>11 am</td>
<td>PRACTICAL 2 Testing &amp; Prescription</td>
<td>JY</td>
</tr>
<tr>
<td></td>
<td>Wed</td>
<td>23 May</td>
<td>12 pm</td>
<td>PRACTICAL 2 Testing &amp; Prescription</td>
<td>JY</td>
</tr>
<tr>
<td>12</td>
<td>Tue</td>
<td>29 May</td>
<td>10 am</td>
<td>Ex. prescription progression + considerations</td>
<td>Practical Report 2 due</td>
</tr>
<tr>
<td></td>
<td>Wed</td>
<td>30 May</td>
<td>11 am</td>
<td>Obesity and exercise</td>
<td>LM</td>
</tr>
<tr>
<td></td>
<td>Wed</td>
<td>31 May</td>
<td>12 pm</td>
<td>Cancer and exercise</td>
<td>JY</td>
</tr>
<tr>
<td>13</td>
<td>Tue</td>
<td>5 Jun</td>
<td>10 am</td>
<td>Exam feedback and session review</td>
<td>Tutorial 4</td>
</tr>
<tr>
<td></td>
<td>Wed</td>
<td>6 Jun</td>
<td>11 am</td>
<td>Exercise and the elderly I</td>
<td>AH</td>
</tr>
<tr>
<td></td>
<td>Wed</td>
<td>7 Jun</td>
<td>12 pm</td>
<td>Exercise and the elderly II</td>
<td>AH</td>
</tr>
<tr>
<td>14</td>
<td></td>
<td></td>
<td></td>
<td>Study vacation (11 - 15 June)</td>
<td></td>
</tr>
<tr>
<td>15 &amp;16</td>
<td></td>
<td></td>
<td></td>
<td>Exam Period (18 - 30 June)</td>
<td></td>
</tr>
</tbody>
</table>

* Lecture to be delivered as an e-Lecture (do not attend E101)

Unit of Study Outline

1. Contact Details

Unit of Study Coordinator

- Mr Tom Gwinn
- Dr Tuguy Esgin

Lecturing and Teaching Staff

- Lectures: Tom Gwinn and Tuguy Esgin
- Practicals and tutorials: Aaron Beach, Tim Davies, Marjan Haghighi, Maryam Saligheh, Tess Hawkins, Tom Gwinn and Tuguy Esgin

Course Administrator

- Cristian Alegria

Student Administration Manual

This unit of study outline MUST be read in conjunction with the Student Administration Manual on the Faculty of Health Sciences Current Students webpage.

All students are required to familiarise themselves with their academic responsibilities, and the academic policies governing their enrolment and progression. The Faculty of Health Sciences student administration manual provides a direct link to the University of Sydney’s Coursework policy and Faculty provisions.

When considering applications and appeals relating to these matters, it will be assumed that students understand their academic responsibilities, and are familiar with these key policies and procedures.

2. Unit of Study Information

The determinants of maximal active muscle force and power production are examined in terms of the crossbridge cycle, sarcomere arrangement, myosin isoforms and the extent of muscle activation. Evidence for neural adaptations to high resistance training is examined and the practical significance of these adaptations is discussed. The responses of skeletal muscle to high-resistance training are discussed in terms of i) the control of protein synthesis, ii) sarcomere remodelling and myofibril assembly, and iii) whole muscle hypertrophy and fibre type shifts. An evidence-based approach is used to examine the dose-response relationship
between high-resistance variables (load, number of sets, training, frequency, rest interval) and hypertrophy. Muscle structural and functional adaptations to disuse (bed rest, non-weight bearing, immobilization) are examined, as well as the effects of re-ambulation and re-training.

2.1 Prerequisites and assumed knowledge

- There are no prerequisites for this Unit of Study
- Successful completion of this unit is a prerequisite for the following Units of Study in the Bachelor of Applied Science (Physiotherapy): PHTY2054 Musculoskeletal Physiotherapy A, PHTY2055 Musculoskeletal Physiotherapy B and PHTY2056 Neurological Physiotherapy A.

2.2 Attendance Requirements

- Lecture content
  - Core lecture content is delivered via custom-made online videos. In addition students may choose to attend live face-to-face lectures which will discuss the online material in “Questions and Answer” style presentations. Also content topics are also presented in ‘chapter’ style written notes, also available online.

- Practicals
  - Attendance at all practicals is expected
  - Students participate in practical sessions involving instruction in strength assessment techniques. In addition students are expected to participate in a 6 week resistance training program consisting of approximately 15 minutes/week of training in out-of-class time. (Exemptions to training are considered on a case-by-case basis).
  - Students’ mastery of strength assessment techniques will be assessed in a practical exam, in Week 8 to Week 9. Students are expected to practice assessments in out-of-class time in preparation for the practical exam.
  - Attendance at the scheduled practical exam date and time is mandatory
  - Assessment data and training log: Students are required to enter pre and post-training assessment data in the Assessment spreadsheet available online. In addition students are required to enter weekly training data in the Training Log also available online. A penalty of a 5% deduction (deducted from the final mark) will be applied to students who do not BOTH complete their Assessment data and Training Log entries by Monday 24 September, 2018.

- Tutorials
  - Attendance at all tutorials is expected
  - Tutorials will consolidate lecture material using range of group and individual activities. Specific sessions will emphasise practice of sample exam questions with feedback. Sessions will also include discussion of the results of the training program as well as application of core content to employment scenarios.

3. Learning Outcomes

At the completion of this unit students will be able to:

A. How muscle works – active force development

1. explain the structural and functional basis of muscle force development in terms of myosin myofilaments, myofibrils, muscle fibers.
2. explain the functional specialization of different anatomical muscles resulting from variation in fiber number, length and pennation.
3. explain the structural and functional characteristic of muscle fiber types in terms of myosin isoforms.
4. explain the neural processes involved in voluntary muscle activation motor unit recruitment.
5. explain the processes involved in EC coupling
6. explain an integrated model of the determinants of voluntary force production in terms of muscle structure and neural input

B. How strength training works

1. explain muscle hypertrophy in terms of the sequence of events relating myofibrillar protein synthesis to fibre hypertrophy and it’s functional consequences
2. describe the molecular events linking mechanotransduction to increased myofibrillar protein synthesis, including the role of mTOR, and interactions with leucine supplementation

3. describe and evaluate evidence demonstrating the significance of the contribution of neural adaptations to voluntary strength following training, and explain these findings in terms of cortical drive and motor unit recruitment.

4. describe the changes in fiber type associated with high-resistance training and detraining, and the molecular processes resulting in fiber type change

5. describe the physiological events associated with DOMS

6. explain an integrated model of the determinants of increase in voluntary strength following high-resistance training

C. Prescription of high-resistance training

1. develop skills in evaluating quality of, and drawing conclusions from, evidence based research

2. explain the evidence base for conventional high-resistance training prescription in terms selection of load and sets, maintenance prescription, efficacy of leucine supplementation, and repeat-bout effect minimizing DOMS

3. describe evidence relating to the time course and extent of increases in voluntary strength and hypertrophy with high-resistance training and gender similarities in responsiveness

4. explain the significant of adherence in determining the overall success of an exercise training program, and discuss the psychological and socio-economic factors that may influence both engagement and adherence in a training program

5. demonstrate skills in face-to-face client communication and professional presentation

6. demonstrate practical skills in safe assessment of training loads (RM) using conventional pin loaded weight machines

7. develop skills in the prescription and evaluation of conventional high-resistance training

D. Adaptations to disuse

1. explain the structural basis of disuse atrophy and responses and describe and explain evidence indication significant neural adaptations to disuse

2. describe the evidence-basis of re-ambulation as a retraining method post lower limb immobilization, the effect of resistance training performed during bed rest and the use of high resistance training to accelerate rehabilitation post disuse.

3. explain an integrated model of the determinants of voluntary weakness following disuse and increased strength following retraining

4. Learning and Teaching Resources

4.1 Required Textbook / Resources

There is no textbook recommended for this unit of study. Evidence-based content is based on primary research material. Five examples of this material are:


For students who want a non-examinable text for additional reading for the neuromuscular physiology module - Richard L. Lieber’s Skeletal muscle structure, function, & plasticity: The
physiological basis of rehabilitation Baltimore, Md.: Lippincott Williams & Wilkins, 2002. 2nd ed. is highly recommended.

Online mode of delivery
Core online resources have the following computer requirements:

- Desktop computer or laptop or tablet. Note: smart phone will not be adequate for data entry to online spreadsheets
- Connection to network with sufficient internet speed: at least 3 Mbps download speed and 3 Mbps upload

4.2 Learning Management System (LMS)
A Learning Management System (LMS) supports teaching in this unit i.e. ‘Canvas’. Video versions of core lecture material are available in Canvas as well as objectives, quizzes, written lectures notes, and additional resources, posted on a week-by-week basis. Students are expected to visit these sites regularly (at least twice a week) to check for announcements and updates.

In addition throughout the semester important announcements will be emailed to the student’s Sydney University email address. Students need to regularly (at least twice a week) check their ‘official’ university email for such announcements.
## 5. Assessment
### 5.1 Assessment schedule

<table>
<thead>
<tr>
<th>Assessment title</th>
<th>Assessment Conditions</th>
<th>Individual/ Group</th>
<th>Length/ duration</th>
<th>Weight</th>
<th>Due date and time</th>
<th>Unit / Accreditation Outcomes Assessed (as applicable)</th>
<th>Assessment type (for special consideration purposes)</th>
<th>Graduate Qualities Assessed</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Mid Semester Exam</td>
<td>N/A</td>
<td>Individual</td>
<td>50 min</td>
<td>30%</td>
<td>Monday 3 Sept 2 pm</td>
<td>A.1-4</td>
<td>Exam - In semester exam</td>
<td>Depth of disciplinary expertise, Critical thinking and problem solving</td>
</tr>
<tr>
<td></td>
<td>Compulsory (assessment must eventually be passed to pass the UoS)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Communication (oral), Integrated professional, ethical and personal identity, Depth of disciplinary expertise,</td>
</tr>
<tr>
<td>2. Practical Exam</td>
<td>Individual</td>
<td>12 min</td>
<td>10%</td>
<td></td>
<td>Weeks 7-8</td>
<td>C.5-6</td>
<td>Skills-based assessment - Skills based evaluation</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(students individually timetabled)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Information/ digital literacy; Depth of disciplinary expertise, Critical thinking and problem solving</td>
</tr>
<tr>
<td>3. Entry of assessment and training data</td>
<td>N/A</td>
<td>individual</td>
<td>-</td>
<td>0%</td>
<td>Monday 24 Sept 11.55 pm</td>
<td>C.4, C.7</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>N/A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4. End Semester Exam</td>
<td>Individual</td>
<td>120 min</td>
<td>60%</td>
<td></td>
<td>Week 15/16</td>
<td>A.5-6, B.1-6, C.2-4, D.1-3</td>
<td>Exam - Final exam</td>
<td></td>
</tr>
</tbody>
</table>
6. Lecture and Seminar Schedule: Topics and Assessments
For Practical and Tutorial Schedule – see table on next page

<table>
<thead>
<tr>
<th>Week</th>
<th>Week Beginning</th>
<th>Topic</th>
<th>Assessment Information</th>
<th>Reading</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>30 July</td>
<td>Introduction. Myosin crossbridge cycle</td>
<td>See Week 1: Canvas</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>6 August</td>
<td>Myofilaments, myofibrils, muscle fibers</td>
<td>See Week 2: Canvas</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>13 August</td>
<td>Active forces and movements</td>
<td>See Week 3: Canvas</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>20 August</td>
<td>Muscle activation</td>
<td>See Week 4: Canvas</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>27 August</td>
<td>EC coupling</td>
<td>See Week 5: Canvas</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>3 September</td>
<td>Mid Semester Exam</td>
<td>Mid Semester Exam</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>10 September</td>
<td>Neural adaptations to resistance training</td>
<td>Practical ExamsGroups: 1, 3, 5, 7, 9, 11, 13, 15</td>
<td>See Week 7: Canvas</td>
</tr>
<tr>
<td>8</td>
<td>17 September</td>
<td>Hypertrophy and resistance training</td>
<td>Practical ExamsGroups: 2, 4, 6, 8, 10, 12, 14, 16</td>
<td>See Week 8: Canvas</td>
</tr>
</tbody>
</table>

Mid-semester break (24 September - 28 September)

<table>
<thead>
<tr>
<th>Week</th>
<th>Week Beginning</th>
<th>Topic</th>
<th>Assessment Information</th>
<th>Reading</th>
</tr>
</thead>
<tbody>
<tr>
<td>9</td>
<td>1 October</td>
<td>Hypertrophy, protein synthesis, protein supplements</td>
<td>See Week 9: Canvas</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>8 October</td>
<td>Adherence to exercise training programs</td>
<td>See Week 10: Canvas</td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>15 October</td>
<td>Adaptations to disuse /Retraining after disuse</td>
<td>See Week 11: Canvas</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>22 October</td>
<td>DOMS/Fiber type change with training</td>
<td>See Week 12: Canvas</td>
<td></td>
</tr>
<tr>
<td>Date</td>
<td>Description</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>-------</td>
<td>------------------------------------</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>29 October Review</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>14</td>
<td><strong>Study vacation (5 November – 9 November)</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>15-16</td>
<td><strong>Exam Period (12 N</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
NEUROSCIENCE

BIOS1171 – Neuroscience
Unit of study outline

BIOS1171
Neuroscience
Semester 2, 2018

Coordinator: Dr. Alan Freeman
COMMONWEALTH OF AUSTRALIA

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Do not remove this notice
This unit of study aims to introduce you to the human nervous system in both health and disease. There is an emphasis on the reflex loop as the fundamental circuit of the nervous system. The unit comprises the following seven topics.

1. Basic structure: the basic anatomy of the nervous system including spinal cord, brainstem and cranial nerves, and forebrain
2. Basic function: the fundamentals of nervous system function including axonal transmission, synapses, and the neuromuscular junction
3. Sensory processes: an introduction to somatosensation, pain, vision, hearing, and the vestibular system
4. Spinal reflexes: motor responses supported by neurons in the spinal cord
5. Motor systems: principles of motor control including upper and lower motor neurons, postural control, and systems contributing to movement
6. Blood supply: the vascular system supplying the nervous system
7. Autonomic nervous system: an introduction to autonomic structure and reflexes.

The case studies represent clinical examples of simple neural problems associated with sensory and motor systems and are specifically designed for students completing professional preparation degrees. Material will be presented in lectures, tutorials and practical classes.

The textbooks will probably not answer all of your questions. You are therefore advised to make good use of the Library, and to supplement your lectures and textbook whenever necessary with information from additional sources. On occasions, your lecturers may recommend other sources of information for particular aspects of your work.

There follows a list of books that you may find useful for reference purposes

**Health sciences**

Neuroscience


**Unit of study coordinator**

All general questions concerning the unit as a whole should be addressed to the unit of study coordinator. Such questions include matters regarding advanced standing, medical certificates and examinations.

**Lecturers**

Difficulties related to the content of the unit should be referred to the appropriate lecturer, tutor or demonstrator. All teaching staff members within this unit of study would appreciate your cooperation in making appointments at mutually agreeable times, should you wish to discuss any aspect of the work with them.

**Dr. Alan Freeman:** Room L230
**Dr. Damian Holsinger:** Room L226
**Dr. Jin Huang:** Room L223
**Dr. David Mor:** Room L231

**Lectures**

There are three lectures per week.

> From time to time unforeseen circumstances may necessitate the cancellation of lectures. If this occurs, the Discipline of Biomedical Science will endeavor to schedule a replacement lecture at the earliest convenient time. However, timetabling constraints may make rescheduling impossible. In these circumstances an alternative that is deemed educationally valid will be provided. Under no circumstances will students be educationally disadvantaged by lecture cancellations.

**Practical and tutorial classes**

Each week, these classes are two hours long. Most of the unit of study’s content is introduced in lectures but new content will also be introduced in tutorials and practical classes. Content presented in practical and tutorial classes will be examinable in the in-semester and final exams. It is therefore important to prepare each class in advance using the preparatory section provided in your practical manual. Remember to bring your lecture notes to the class.

You have been allocated to a group. Check the time of your practical or tutorial on your personal timetable. You must attend your own practical/tutorial at the time and place indicated. You may not swap groups for your own convenience. Each tutor will have a class list and checks will be made that you are in the right group.

The classrooms are located above the Anatomy Laboratory. The assignment of groups to rooms, as well as a map of these rooms, can be found on the notice boards next to Room L217 and other laboratories. The room for your group may change from week to week, so check the assignments on the day. Also, the exact location of the class can be confirmed through the online timetable (see below).

Practical class attendance for this unit is compulsory and class rolls will be taken each week. Your attendance record may affect your grade in this unit: see under the *Assessment* heading for more detail.
The full timetable for lectures, tutorials, and practical classes can be accessed on the BIOS1171 online eLearning site (https://canvas.sydney.edu.au).

Lecture recordings

The Discipline of Biomedical Science will record lectures in accordance with university policies. Recordings may not be made if recording facilities are unavailable, non-operational in the lecture venue, or if the lecturer exercises their right not to be recorded. From time to time, delays in lecture uploading may occur. Because lectures are recorded remotely, neither the individual lecturer nor the Discipline of Biomedical Science have control over lecture uploading.

You should not rely on recordings to replace face-to-face classes.

Assessment

The examinable material in this unit consists of all content presented in the lectures, self-directed learning module, tutorials, and practical classes. There will be four assessments, two of which will contribute to your final result. The timing, format, and contribution of the assessments are as follows.

<table>
<thead>
<tr>
<th>Assessment</th>
<th>Week</th>
<th>Duration</th>
<th>Format</th>
<th>Contribution to final result</th>
</tr>
</thead>
<tbody>
<tr>
<td>In-semester self-test</td>
<td>6</td>
<td>Variable</td>
<td>Online self-test</td>
<td>0%</td>
</tr>
<tr>
<td>In-semester examination</td>
<td>7</td>
<td>Approximately 1 hour and 20 minutes</td>
<td>Multiple-choice questions</td>
<td>40%</td>
</tr>
<tr>
<td>Final self-test</td>
<td>13/14</td>
<td>Variable</td>
<td>Online self-test</td>
<td>0%</td>
</tr>
<tr>
<td>Final examination</td>
<td>15/16</td>
<td>2 hours (plus 10 minutes reading time)</td>
<td>Multiple-choice questions</td>
<td>60%</td>
</tr>
</tbody>
</table>

You will find it difficult to reach a satisfactory standard if you leave your study until the last minute. Only if you learn your work as it is presented will you be able to use the simpler early material to assist in understanding the more complex material presented later in the unit.

Online self-tests

During the semester, you will be given online self-test assessments. These assessments will not count towards your final grade in the unit. However, you are advised to treat each assessment as if it were formal. After studying the topics in detail, do the assessment without interruption and without looking up the answers in your notes or textbooks. In this way you will gain an indication of how satisfactory your study has been and of which areas need more attention.

In-semestern examination

- The Bioelectricity self-directed tutorial is examinable.
- All lecture content presented in weeks 1 to 5 inclusive is examinable.
- All tutorial and practical content presented in weeks 1 to 6 inclusive is examinable.
- Venue: please check the Timetable link on the eLearning site closer to the date.
- What to bring: pencils (preferably 2B), an eraser, and your student ID card. A calculator is not required.
Final examination

- All lecture content presented in weeks 6 to 13 inclusive is examinable.
- All tutorial and practical content presented in weeks 7 to 13 inclusive is examinable.
- Content covered in the in-semester examination provide a foundation for later material, and may therefore be examined indirectly.

Attendance at practical classes and tutorials

Faculty of Health Science policy stipulates that: “Students are expected to attend a minimum of 90% of timetabled activities for a Unit of Study, unless granted exemption by the Dean, head of school or professor most concerned. The Dean, head of school or professor most concerned may determine that a student fails a Unit of Study because of inadequate attendance”. Non-attendance at more than 2 of the 13 practical/tutorial classes will be considered inadequate attendance and may result in a Fail grade for this unit of study.

If you miss a practical class, the onus is on you to complete the material in your own time. If you are unable to attend any practical class due to illness or misadventure, you are advised to obtain documentary evidence (for example medical certificates) of this illness/misadventure and to then keep such documentation in a secure place until your final result is known.

You do not need to submit a Special Consideration application for any missed practical and/or tutorial class. However, should your final result in this unit be a fail, and this fail is based solely on your having missed more than 2 classes, then you will need your documentation to form the basis of your appeal of this fail result.

Assessment policy and procedures

It is your responsibility to be available for all assessments. You are required to be present at the correct time and place. Misreading or misunderstanding of the time and/or the location of an assessment will not be accepted as a reason for failure to attend an assessment.

Grading procedure

The scores in the two examinations will be weighted by their contributions (40% and 60%) and summed to provide the final score. The final scores will then be segregated into grades, as follows.

<table>
<thead>
<tr>
<th>Final score (%)</th>
<th>Grade</th>
<th>Grade name</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 – 49</td>
<td>FA</td>
<td>Fail</td>
</tr>
<tr>
<td>50 – 64</td>
<td>PS</td>
<td>Pass</td>
</tr>
<tr>
<td>65 – 74</td>
<td>CR</td>
<td>Credit</td>
</tr>
<tr>
<td>75 – 84</td>
<td>DI</td>
<td>Distinction</td>
</tr>
<tr>
<td>85 – 100</td>
<td>HD</td>
<td>High Distinction</td>
</tr>
</tbody>
</table>

Grades represent the following abilities.

Fail
- Limited knowledge and understanding of the learning materials.

Pass
- A basic knowledge and understanding of the learning material.
- Some ability to source and use appropriate learning resources.

Communication policies
Canvas (eLearning site)

This unit of study requires you to use the BIOS1171 Neuroscience online eLearning site (https://canvas.sydney.edu.au) (Canvas) to access information or complete assessments. Materials on the site include: the unit of study outline, objectives, timetable, lecture notes, practical and tutorial notes, bioelectricity self-directed learning module, supporting materials and discussion forum.

Students should access the eLearning site at regular intervals.

You are encouraged to use the discussion forum to discuss material covered in the unit of study. Lecturers may monitor these discussions but will not contribute to them. Difficulties related to the content should be addressed to the corresponding lecturer, tutor or demonstrator.

Help for logging in to eLearning is at: https://sydney.edu.au/students/learning-in-canvas-and-blackboard.html

ICT helpdesk links can be found at: http://sydney.edu.au/ict/contact/helpdesk.shtml.

Email

When communicating with teaching staff the most straightforward method is email. Note the following guidelines when emailing staff.

- Use your University email address
- Address the person appropriately
- Identify yourself by name and SID
- Identify the unit of study that you are enquiring about
- Word your email clearly

Due to concerns about viruses, emails that are anonymous, contain unsolicited attachments, or are from a non-University address are unlikely to be opened or read.
**Academic honesty**

Deliberate breaches of academic honesty constitute academic misconduct. These breaches include:

- Plagiarism
- Fabrication of data
- Recycling previously submitted material
- Engaging someone else to complete an assessment on your behalf
- Misconduct during supervised assessments

The penalties for academic misconduct may include:

- A mark of zero on the assessment
- A fail grade in the unit of study
- Additional assessment (including an unseen exam)
- Reference of the matter to the University Registrar

Issues concerning breaches of academic honesty may be dealt with either through the process of determining academic results in a unit of study, or, in the most serious cases, by invocation of misconduct procedures.

Students should consult:


**Use of similarity detection software**

All written assignments submitted in this unit of study will be submitted to the similarity detecting software program known as Turnitin. Turnitin searches for matches between text in your written assessment task and text sourced from the internet, published works and assignments that have previously been submitted to Turnitin for analysis.

There will always be some degree of text-matching when using Turnitin. Text-matching may occur in use of direct quotations, technical terms and phrases, or the listing of bibliographic material. This does not mean you will automatically be accused of academic dishonesty or plagiarism, although Turnitin reports may be used as evidence in academic dishonesty and plagiarism decision-making processes.

**Special consideration**

**What it means to receive Special Consideration**

- If you apply and receive approval for Special Consideration prior to the examination, you do not sit for the normal examination and you will be required to sit a Replacement Assessment.
- If you apply and receive approval for Special Consideration after the examination and did not sit the examination, you will be required to sit a Replacement Assessment.
- If you apply and receive approval for Special Consideration after sitting the examination, your exam paper for the normal examination will not be marked and you will be required to sit a Replacement Assessment*.

*You must make yourself available for the University’s Replacement Assessment periods.

- In-semester Replacement Assessments: Week 13 Monday or Tuesday (late afternoon)
- Final Replacement Assessments: Week 18.

Please Note:

- No alternative arrangements are available.
- There will be changes in the replacement examination questions from those in the original examination.
- The replacement exam may not cover the same topics as the exam that was impacted, but will test the same learning outcomes. Other factors (such as the length, duration or structure of the exam) may also be different.
Applying for Special Consideration

Please visit the following website for information and application form:

https://sydney.edu.au/current_students/special_consideration/index.shtml

Student appeals

Student appeals: academic and administrative

A student may appeal against a mark or grade for either a single assessment, or the final assessment for a whole unit of study. Students are encouraged to consult with their unit of study coordinator in the first instance.

A student may appeal against an administrative decision. More information can be found here: http://sydney.edu.au/students/academic-appeals.html

Available IT services for students

Computer access

All Students are given a UniKey account that lets them access IT (internet) services around the university. The University Computer Access Labs provide students and staff members of The University of Sydney with access to computers. These labs give students and staff access to printing, scanning, internet access, word processing, and expert staff assistance.

On the Cumberland Campus, computer labs are located on level 2 of Building B, in Room B107. Opening hours: During Semester: Monday - Friday 7:30am - 10:00pm, During Vacation: Monday - Friday, 7:30am - 6:00pm, Staff available: Monday to Friday 7:30am - 3:30pm. See: http://sydney.edu.au/students/student-it.html

Response to student feedback

Student feedback, gathered through surveys and other sources, have been incorporated into lectures, practical classes and tutorials.

Student support

Student Administration

The Student Centre can assist you with matters relating to admissions, enrolments, HECS and domestic fees, student cards, class timetables, examinations and graduation. See: http://sydney.edu.au/study/student-administration.html

Phone: 1800 SYD UNI (1800 793 864)
or enquire online https://sydney.edu.au/students/forms/make-an-enquiry.html

Counseling Service

http://sydney.edu.au/current_students/counselling/

Disability Services Office

Unit of Study Outline

1. Contact Details

Unit of Study Coordinators
Dr Mairwen Jones (for psychology module and general queries)
Associate Professor Jen Smith-Merry (for sociology module and general queries)

Lecturing and Tutoring Staff
Sociology teaching staff:
Siun Gallagher
Mandy Henningham
Dr Zakia Hossain
Cathy Monro
Prof Stephanie Short
Assoc Prof Jen Smith-Merry
Shima Sum
Dr Nikki Wedgewood

Psychology teaching staff:
Dr Rob Heard
Dr Mairwen Jones
Angelina Leonello
Shuhada Mansor
Assoc Prof Steve Cumming

Course Administrator: Lynelle Rodrigues

Student Administration Manual
This unit of study outline MUST be read in conjunction with the Student Administration Manual on the Faculty of Health Sciences Current Students webpage: http://sydney.edu.au/health-sciences/current-students/coursework/student-administration-manual.shtml

All students are required to familiarise themselves with their academic responsibilities, and the academic policies governing their enrolment and progression. The Faculty of Health Sciences student administration manual provides a direct link to the University of Sydney’s Coursework policy and Faculty provisions.
2. Unit of Study Information

This unit is an introduction to areas of psychology and sociology relevant to health and wellbeing. The unit provides sociological tools (covering both theory and method) useful for understanding and practicing in health and wellbeing. It is also an introduction to the principles and applications of psychology as they pertain to these areas.

The sociology module in the unit aims to develop in students a 'sociological imagination': a quality of mind that can be used to question common-sense assumptions regarding health and wellbeing. In the psychology module students will gain familiarity with the major paradigms and methodological approaches of contemporary psychology and will develop applications of psychological theory to specific health issues in their major area of study.

2.1 Prerequisites and assumed knowledge

No prerequisites.

2.2 Attendance Requirements.

Lectures take place in weeks 1-13. Lectures are all face-to-face in the lecture rooms specified on your timetable except for the lectures in Week 2 delivered by Associate Professor Jennifer Smith-Merry, Week 5 delivered by Professor Stephanie Short, and Week 7 delivered by Associate Professor Steve Cumming which are online lectures. Students are expected to attend all scheduled lectures and tutorials and view the online lectures in Weeks 2, 5 and 7. There will be 1 hour tutorials commencing in Week 2 up to Week 13 except in Week 4 there are no tutorials for Friday groups and no tutorials in Week 7 except for Friday groups (See schedule in this outline for details.)

3. Learning Outcomes

Introductory Sociology Module (Lecture Weeks 1-6 and associated tutorials):

At the conclusion of this module, a student who has met the required standard will be able to:

- Understand what sociology is and how it has been used to understand health and illness;
- Understand how society impacts on an individual’s health and health care;
- Understand and apply their own 'sociological imagination' to examples from health care practice and health care service access;
- Demonstrate knowledge of key sociological concepts and how they may be applied to health and illness as experienced by individuals and groups in Australian society;
- Understand the key 'social determinants' of health;
- Be familiar with some examples of research into health issues using sociological approaches.
- Understand how sociological concepts and approaches can be applied to the practice of your health profession.
- Communicate your knowledge of the sociology of health and illness in written form and through in-class discussions and presentations with peers.

These learning outcomes guide the assessment of the sociology component of this unit

Introductory Psychology Module (Lecture Weeks 7 -13 and associated tutorials):

At the conclusion of this module, a student who has met the required standard will be able to:
• Understand the role of the brain, and biological bases of behaviour.
• Understand how behaviour is modified through learning.
• Understand the basic cognitive processes underpinning memory, thought and decision making
• Understand the links between psychological factors and physical and mental health.
• Understand the psychological aspects of social interactions, and the behaviour of groups and organisations from a psychological viewpoint.
• Understand some common psychological disorders that were discussed in the lectures.
• Understand what psychology is, and its relevance to the health professions.
• Understand what is meant by nature and nurture.
• Understand how behaviour and health factors interact and influence each other.
• Be able to communicate your knowledge of psychology and health issues in oral and written form.
• Develop organisational, writing, and communication skills needed in the preparation and delivery of a group oral presentation.

In addition all students are expected be able to understand University of Sydney requirements regarding academic honesty.

4. Learning and Teaching Resources

4.1 Required Textbook / Resources Textbook

You should study the relevant chapters of the textbook and other readings as well as material presented in the lectures. Exam questions will be set on the textbook and other set reading content as well as the lecture content.

Psychology Module Textbook

Title: Health, Behaviour and Society HSBH1003 (Customised Book)
Year: 2017
Author: Lilienfeld
ISBN: 9781488618826
RRP: $89.95
Available in hard copy from the bookshop or on Reserve in the library

Additional readings

The following two readings support the lecture content of your Week 7 online lecture. This content may be examinable. Both are available on reserve from the library.

Baddeley, Eysenck, & Anderson, (2015) Memory (Chapter 1)
Gerrig, Zimbardo, Campbell, Cumming & Wilkes (2011) Psychology and Life 2nd Edition (Chapter 5)

Sociology Module Textbook and Readings:

The textbook for the sociology module of this Unit is;

Additional readings

SOCIOLOGY MODULE

The following list is not exhaustive and additional readings will be recommended during semester. The list is sorted into two categories – general sociology/health sociology texts; and specific chapters/articles that relate to lecture content. The content of these texts is not examinable but you should draw on them as needed to assist you in understand the core content.

General sociology / health sociology texts

All of these texts provide a good overview of the field of health sociology:


Other Recommended reading

Most of these readings relate specifically to lecture content in the sociology module:

Bendelow, G. Sociology and concepts of mental illness (search library catalogue)
McGann, P. and D. Hutson (eds) *Sociology of Diagnosis* Bingley: Emerald. (online via university catalogue).
Saggers and Gray (2007), Defining what we mean, in Bronwyn, C. Dunbar, T & Chenhall, R. (Eds), *Social Determinants of Indigenous Health*, Chapter one

4.2 Canvas Learning Management System (LMS)

Canvas eLearning supports teaching in this unit. Material presented in lectures will be posted just after the lecture, or in the week prior to the lecture on the LMS site, as will announcements and updates. You should go to the site at least twice a week. You will access online learning activities that complement the tutorial program through the LMS site.

Please note that the lectures for Week 2, Week 5 and Week 7 are online lectures and you will find the lecture materials on the LMS site.

5. Assessment

5.1 Assessment schedule

<table>
<thead>
<tr>
<th>Assessment Item</th>
<th>Weight</th>
<th>Due</th>
<th>Word Length (if applicable)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Completion of the Academic Honesty Module</td>
<td>0%</td>
<td>End of Week 4.</td>
<td>NA</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Please note:</strong> This is a barrier task which means that if you do not successfully complete this module you will receive a fail grade for the unit.</td>
<td></td>
</tr>
<tr>
<td>1 Hour Sociology Mid Semester MCQ Exam</td>
<td>25%</td>
<td>Week 8</td>
<td>NA</td>
</tr>
<tr>
<td></td>
<td></td>
<td>In the first hour of your timetabled lecture (8-9am or 3-4pm as timetabled)</td>
<td></td>
</tr>
<tr>
<td>Psychology Group Class Presentation</td>
<td>25%</td>
<td>Presented in tutorials in Weeks 10-13</td>
<td>NA</td>
</tr>
<tr>
<td>2 hour Final Exam Short answer and MCQ questions</td>
<td>50%</td>
<td>Exam period weeks 15 or 16</td>
<td>NA</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>100%</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### 5.2 Assessment details

#### Assessment Item 1: Completion of the Academic Honesty Module

<table>
<thead>
<tr>
<th>Task description</th>
<th>Students will be required to successfully complete the Academic Honesty Module AHEM1001</th>
</tr>
</thead>
<tbody>
<tr>
<td>Task length</td>
<td>Approximately 25 minutes depending on number of questions student answers correctly.</td>
</tr>
<tr>
<td>Links to unit's intended learning outcomes</td>
<td>• Understand university requirements regarding academic honesty</td>
</tr>
<tr>
<td>Assessment criteria</td>
<td>This is a barrier task. That means that you cannot pass the unit unless you complete this module.</td>
</tr>
<tr>
<td>Dates and times due</td>
<td>End of Week 4.</td>
</tr>
</tbody>
</table>

#### Assessment Item 2: Sociology Mid Semester Exam

<table>
<thead>
<tr>
<th>Task description</th>
<th>Students will be required to demonstrate their understanding of the material provided in the sociology lectures and readings.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Task length</td>
<td>20 multiple choice questions over 1 hour</td>
</tr>
</tbody>
</table>
| Links to unit's intended learning outcomes | • Understand what sociology is and how it has been used to understand health and illness;  
• Understand how society impacts on an individual’s health and health care;  
• Understand and apply their own 'sociological imagination' to examples from health care practice;  
• Demonstrate knowledge of key sociological concepts and how they may be applied to the social and cultural dimensions of health and illness as experienced by individuals and groups in Australian society;  
• Understand the key social determinants of health;  
• Be familiar with some examples of research into health issues using sociological approaches.  
• Understand how sociological concepts and approaches can be applied to the practice of health professions. |
| Assessment criteria | Assessment criteria will be based on achievement standards. |
| Dates and times due | During Week 8 lecture times |

#### Assessment Item 3: Psychology Group in-class Presentation

<table>
<thead>
<tr>
<th>Task description</th>
<th>A Psychology Group Class Presentation which requires the students to work together in groups to research, discuss and present a psychological issue in depth.</th>
</tr>
</thead>
</table>
Task length

The presentation duration is 25 minutes

Links to unit's intended learning outcomes

Further information about the links between the unit's intended learning outcomes and this assessment will be distributed in tutorials.

Assessment criteria

Assessment criteria will be distributed in tutorials.

Dates and times due

During Psychology Tutorials, weeks 10 - 13.

Assessment Item 4: Exam

Task description

Students will be required to demonstrate their understanding of the material in this module by completing questions in an end-of-semester exam that covers the lecture topics and associated readings for both sociology and psychology. Questions will require both multiple choice and short answers.

Task length

2 hours

Links to unit's intended learning outcomes

This exam will test all of the unit’s learning outcomes.

Assessment criteria

Ability to understand and synthesise the knowledge learnt in lectures and readings.

Dates and times due

During the exam period

6. Lecture and Seminar Schedule: Topics and Assessments

<table>
<thead>
<tr>
<th>Week</th>
<th>Week Beginning</th>
<th>Topic</th>
<th>Tutorial / Assessment Information</th>
<th>Reading</th>
</tr>
</thead>
</table>
| 1    | 5th March      | Introduction to the Unit: Psychology, Sociology and Health | No Tutorial | Lilienfeld (2017). Chapter 1  
Germov. (2014), pp. 1-18  
Complete the online Academic Honesty Module available as a unit on your eLearning site. |
|      |                | Introduction to academic honesty.  
Attendance at this lecture is compulsory | Lecturer: Dr Mairwen Jones | |
| 2    | 12th March     | Introduction to Sociology: Imagining health problems as social issues.  
Sociology of the body and the mind | Sociology Tutorial 1 | Germov. (2014), Chapter 1, pp. 1-18 |
|      |                | Lecturer: Associate Professor Jennifer Smith-Merry  
This lecture is an online lecture | | |
<table>
<thead>
<tr>
<th>Week</th>
<th>Week Beginning</th>
<th>Topic</th>
<th>Tutorial / Assessment Information</th>
<th>Reading</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>19th March</td>
<td>Understanding the social construction of class and inequality</td>
<td>Sociology Tutorial 2</td>
<td>Germov. (2014), pp. 19-40</td>
</tr>
<tr>
<td></td>
<td></td>
<td>The Social determinants of Health</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Lecturer: Professor Stephanie Short</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>26th March</td>
<td>Aboriginality and Disability and Health</td>
<td>Sociology Tutorial 3 (except no tutorial for Friday groups)</td>
<td>Germov. (2014), pp. 41-61 and pp. 62-77</td>
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<td></td>
<td></td>
<td>Cultural Diversity, Ethnicity and Health</td>
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<td>Lecturer: Dr Zakia Hossain</td>
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<td><strong>Mid-semester break (2nd – 8th April)</strong></td>
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<tr>
<td>Week</td>
<td>Week Beginning</td>
<td>Topic</td>
<td>Tutorial / Assessment Information</td>
<td>Reading</td>
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<td>5</td>
<td>9th April</td>
<td>Media and health: moral panic and medicalisation</td>
<td>Sociology Tutorial 4</td>
<td>Germov. (2014), pp. 78-96</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Lecturer: Professor Stephanie Short</td>
<td>This lecture is an online lecture.</td>
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<tr>
<td>6</td>
<td>16th April</td>
<td>A sociology of allied health</td>
<td>Sociology Tutorial 5</td>
<td>Germov. (2014), pp. 97-121</td>
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<td>Lecturer: Professor Stephanie Short</td>
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<td></td>
<td></td>
<td>Lecturer: Assoc Professor Steve Cumming</td>
<td></td>
<td>Gerrig, Zimbardo, Campbell, Cumming &amp; Wilkes (2011) Psychology and Life (Chapter 5)</td>
</tr>
<tr>
<td>8</td>
<td>30th April</td>
<td>8-9am or 3-4pm Sociology MCQ Exam</td>
<td>Psychology Tutorial</td>
<td>Lilienfeld (2017) Chapter 12</td>
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<td>Attendance at this exam is compulsory</td>
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<tr>
<td></td>
<td>9-10am or 4-5pm Health Psychology</td>
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<td></td>
<td>Lecturer: Dr Mairwen Jones</td>
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<tr>
<td>9</td>
<td>7th May</td>
<td>Biological Psychology and Learning</td>
<td>Psychology Tutorial</td>
<td>Lilienfeld (2017) Chapter 3 Chapter 6</td>
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<td></td>
<td>7th May</td>
<td>Dr Mairwen Jones</td>
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<tr>
<td>10</td>
<td>14th May</td>
<td>Social Psychology. What affects a person’s thinking and behaviour as a member of a group?</td>
<td>Psychology Tutorial</td>
<td>Lilienfeld (2017) Chapter 13</td>
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<tr>
<td></td>
<td>14th May</td>
<td>Lecturer: Dr Rob Heard</td>
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<tr>
<td>11</td>
<td>21st May</td>
<td>Abnormal Psychology</td>
<td>Psychology Tutorial</td>
<td>Lilienfeld (2017) Chapter 16</td>
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<tr>
<td></td>
<td>21st May</td>
<td>Lecturer: Dr Mairwen Jones</td>
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<td>Week</td>
<td>Week Beginning</td>
<td>Topic</td>
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<td>Reading</td>
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<td>12</td>
<td>28th May</td>
<td>Developmental Psychology. How does a person’s thinking and behaviour change as they grow up? Lecturer: Assoc Prof Steve Cumming</td>
<td>Psychology Tutorial</td>
<td>Lilenfeld (2017) Chapter 10</td>
</tr>
<tr>
<td>13</td>
<td>4th June</td>
<td>Review Lecture 1 hour only 9-10am or 3-4pm Psychology &amp; Sociology Compared: Dr Mairwen Jones This lecture will contrast sociological &amp; psychological approaches to health issues. <strong>Unit Overview &amp; Exam Revision:</strong> Bring along any questions you have about the exam! Lecturer: Dr Mairwen Jones</td>
<td>Psychology Tutorial</td>
<td>Please revise your readings for your exam.</td>
</tr>
</tbody>
</table>

14 | Study vacation (11th June – 17th June) |

15-16 | Exam Period 18th June – 1st July |