UNIVERSITY OF WOLLONGONG AUSTRALIA

School of Medicine

MEDI330: Sensorimotor Control of Movement

Subject Outline

Spring 2018
On-Campus
Wollongong

Subject Information

Credit Points: 6
Pre-requisite(s): SHS211/MEDI211
Co-requisite(s): Nil
Restrictions: Nil
Contact Hours: 2hrs Lectures and 2 hrs Practicals/Tutorials per week

Subject Contacts

Subject Coordinator/Lecturer

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Consultation mode and times:	Tuesday 9.30am-11.30am; Wednesday 1.30pm-3.30pm.

Subject Lecturer

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Consultation mode and times:	Tuesday 9.30am-11.30am; Wednesday 1.30pm-3.30pm

Student Support and Advice

For general enquiries please contact StudentHub 41:

Location: 41.138B
Telephone: 61 2 4221 3492
Email: smah-students@uow.edu.au

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Section A: General Information

Subject Learning Outcomes

On completion of this subject, students should be able to:
1. Explain the neurophysiological basis of human voluntary movements. This includes understanding the roles of specific nervous system regions such as the cerebral cortex, cerebellum, basal ganglia, and spinal cord as well as understanding how sensation (e.g., proprioception, vestibular, vision) contributes to the regulation of human movement;
2. Explain the fundamental neurophysiological bases of common clinical motor dysfunctions, such as Parkinson's disease, spinal cord injury, Multiple Sclerosis and stroke;
3. Undertake basic experiments to investigate principles of human neurophysiology & motor learning/adaptation, including: the organisation of single & multi-joint movements, observing and interpreting motor evoked potentials using transcranial magnetic stimulation, patellar stretch reflexes, measuring gaze shifts using electrooculography, & the adaptation of human motor control.
4. Students will be able to discuss the findings of these experiments in the context of how the brain & spinal cord controls human movements.

Subject Description

This subject will provide students with an understanding of the neurophysiological basis of the control of human movement. The neurophysiological and anatomical basis of some of the major disorders of human motion including Parkinson's disease, spinal cord injury, multiple sclerosis, peripheral nerve injury and stroke will be presented when appropriate.

Readings, References and Materials

Textbooks

Nil

Prescribed Readings (includes eReadings)

The following readings are prescribed for this subject, but students are not expected to purchase these. They are available to students through the library on the subjects eLearning site.

Textbooks:

Latash ML (2008). Neurophysiological Basis of Movement, 2nd Ed. Human Kinetics, Champaign, IL.

Enoka RM (2008). Neuromechanics of Human Movement, 4th Ed. Human Kinetics, Champaign, IL.

Kandel ER, Schwartz JH, Jessell TM (2000). Principles of Neural Science, 4th Ed. McGraw-Hill, Appleton & Lange.

Shadmehr R, Wise SP (2005). The Computational Neurobiology of Reaching and Pointing: A Foundation for Motor Learning. MIT Press.

All articles/published works taken from the above textbooks will be available through the Moodle site for this course approximately 1 week prior to the relevant lecture(s).

Materials

Nil

Recommended Readings

The following references complement the prescribed readings and textbooks:

- Brown SH, Cooke JD (1990) Movement-related phasic muscle activation. I. Relations with temporal profile of movement. J Neurophysiol 63 (3): 455-464
- Brown SH, Cooke JD (1990) Movement-related phasic muscle activation. II. Generation and functional role of the triphasic pattern. J Neurophysiol 63 (3): 465-472
- Van Ingen Schenau GJ, Pratt CA, Macpherson JM (1994) Differential use and control of mono- and biarticular muscles. Hum Mov Sci 13: 495-517
- Cordo P, Gurfinkel VS, Bevan L, Kerr GK (1995) Proprioceptive consequences of tendon vibration during movement. J Neurophysiol 74 (4) 1675-1688
- Fitzpatrick RC, Wardman DL, Taylor JL (1999) Effects of galvanic vestibular stimulation during human walking. J Physiol (London) 517.3: 931-939
- Britton TC, Day BL, Brown P, Rothwell JC, Thompson PD, Marsden CD (1993) Postural electromyographic responses in the arm and leg following galvanic vestibular stimulation in man. Exp Brain Res 94: 143-151
- Matsuyama K, Drew T (2000) Vestibulospinal and reticulospinal neuronal activity during locomotion in the intact cat. I. Walking on a level surface. J Neurophysiol 84: 2237-2256
- Matsuyama K, Drew T (2000) Vestibulospinal and reticulospinal neuronal activity during locomotion in the intact cat. II. Walking on an inclined plane. J Neurophysiol 84: 2257-2276
- Morton SM, Bastian AJ (2006) Cerebellar contributions to locomotor adaptations during split-belt treadmill walking. J Neurosci 26 (36): 9107-9166
- Shadmehr R, Moussavi ZM (2000) Spatial generalization from learning dynamics of reaching movements. J Neurosci 20: 7807-7815
- Shadmehr R, Mussa-Ivaldi FA (1994) Adaptive representation of dynamics during learning of a motor task. J Neurosci 14: 3208-3224

Recommended readings are not intended as an exhaustive list, students should use the Library catalogue and databases to locate additional resources.

Recent Changes to this Subject

Nil

Laboratory Safety Guidelines

The rules below are general rules that are required in laboratories.

- Before commencing your project you are to ensure that you understand specific procedures for the laboratory in which you work.
- You will need to fill out a risk assessment form before commencing any experiments (confer with your laboratory supervisor).
- Never use any equipment or attempt any experiment without checking the safety implications with your laboratory supervisor or experienced delegated laboratory worker.
- Undergraduate students are not permitted to work after hours unless there is appropriate approval and supervision.

Schedule of Learning*

Week	Week Commencing	Lecture	Workshop Practicals	Tutorials (repeat experiments, if needed
1	23/07/2018	INTRODUCTION TO MEDI 320 WHAT IS MOTOR CONTROL? PS/JS	NONE	N/A
2	30/07/2018	CONTROL OF SINGLE AND MULTI-JOINT MOVEMENTS PS	HOW TO REPORT MOTOR CONTROL WORKSHOPS; MEASURING AND PLOTTING EMG, ACCELERATION, ETC.	N/A
3	06/08/2018	INFORMATION PROCESSING IN MOTOR CONTROL PS	1. HUMAN TRIPHASIC MUSCLE PATTERN	
4	13/08/2018	CORTEX/ASCENDING AND DESCENDING PATHWAYS JS	2. QUANTIFYING THE HUMAN STRETCH REFLEX	WORKSHOP 1. DUE
5	20/08/2018	SPINAL CONTROL MECHANISMS JS	3. TMS – GENERATING A MOTOR EVOKED POTENTIAL	
6	27/08/2018	VESTIBULAR SYSTEM PS	Group experiment proposal submission and discussions.	TUTORIAL WORKSHOP 2. DUE
7	03/09/2018	CONTROL OF GAZE PS	4. HUMAN VISUOMOTOR CONTROL	
8	10/09/2018	POSTURE & BALANCE 1 PS	Experimental design and report.	TUTORIAL WORKSHOP 3. DUE
9	17/09/2018	POSTURE & BALANCE 2 PS	Experimental design and report.	
10	24/09/2018	No lecture	Experimental design and report.	
Mid-Session Recess 29 September 2018 – 7 October 2018				
11	08/10/2018	MOTOR LEARNING/SKILL ACQUISITION JS	Experimental design and report.	WORKSHOP 4. DUE**
12	15/10/2018	ADAPTATION, ROLE OF CEREBELLUM JS	5. LEARNING AND PRISM ADAPTATION	TUTORIAL
13	22/10/2018	REVISION WEEK, EXAM PREPARATION PS; JS	Experimental design and report.	EXPERIMENTAL PRESENTATIONS WORKSHOP 5. DUE
Study Recess 29 October 2018 – 2 November 2018				
UOW Exam Period 3 November 2018 – 15 November 2018				

PS=A/Prof Paul Stapley; JS=Dr Jon Shemmell.

*The above timetable should be used as a guide only, as it is subject to change. Students will be advised of any changes as they become known.

****** Workshop/tutorial reports are due at 4pm on Fridays (weeks 4, 6, 8, 11, and 13, see dates above). Any that are received after that time will be subject to the late submission policy (see below).
NB: Timetable of lecture topics is subject to change.
The following are examples of the topics to be covered in this course. This is not an exhaustive list and will be subject to change.

Section B: Assessment

Assessment Summary

Assessment Item	Form of Assessment	Due Date	Return/Feedback Due Dates	Weighting
Assessment 1	Attendance at workshop practicals	See Schedule of Learning	Immediate.	10% (2% each)
Assessment 2	Online quizzes related to content of workshop practicals (5 in total)	See Schedule of Learning	Immediate once quiz has been completed within time limit.	20% (4% each)
Assessment 3	Experimental Report, and presentation (5 minute thesis format).	Friday, 2 November 2018 (end study recess week)	After final exam, if requested.	20%
Assessment 4	Final Exam	See exam schedule	Release of results	50%
Assessment 5	Practicum Hours (required for Exercise Science/Exercise Science and Rehabilitation students only)	Friday 27th October, 2018 (first day of study recess week)	N/A	0%
			Total Marks	100%

Details of Assessment Tasks

Assessment tasks will be marked using explicit criteria that will be provided to students prior to submission.

Assessment 1	Workshop practical attendance
Due date	See timetable of topics
Weighting	10%
Submission	Lecturers and demonstrators to record attendance.
Type of Collaboration	n/a
Length	2 hrs in laboratory
Details	Practical motor control workshops/tutorials in lab This is a **COMPULSORY** element. Students are required to attend ALL workshops. Students will be divided into groups using SMP. The group the students are divided into will remain their group for the entire semester. Students will receive 2% of their grade for their attendance.
Style and format	n/a
Subject Learning Outcomes	3
Marking Criteria	Pass/fail.

Assessment 2	Online quizzes on Moodle (5 in total)
Due date	See timetable of topics
Weighting	20% (4% each report)
Submission	Through the Moodle MEDI330 site.
Type of Collaboration	Individual Assessment
Length	1 hr. Students cannot stop and start this assessment again.
Details	This assessment is a quiz based on the practical motor control workshop lab content and related literature supporting the concepts presented. This is a **COMPULSORY** element. If a student fails to undertake the quiz for a particular laboratory they will receive no grade. For each quiz,

	students will be given a number of questions that can be answered based upon the laboratory and theoretical content (supporting literature). Students are highly advised to read the supporting literature that will enable them to undertake and answer the quiz questions.
Style and format	Workshop attendance and submission of the quiz questions.
Subject Learning Outcomes	3
Marking Criteria	Assessment 2 will be marked using the following criteria: 1. Online quiz total **20%** (**4%** each quiz).

Assessment 3	Experimental report/5 minute thesis (5MT) presentation
Due date	Friday, 2 November 2018 (end study recess week)
Weighting	20% (15% for report; 5% for 5MT)
Submission	Submit a hardcopy to the StudentHub 41
Type of Collaboration	Individual Assessment
Length	Time Allocation/ Word Limit/Number of Questions
Details	This is a **COMPULSORY** element. In your groups, you will be expected ***to develop, test and present an experiment that explores an area of motor control related to content presented in lectures***. The assessment for this component of the course will be based upon: 1) the explanation of the theoretical basis of your hypothesis, 2) the depth of the research undertaken to develop and test your hypothesis, and 3) your ability to present the topic to your peers. You are expected to submit a written report and present an oral presentation in your groups, both of which are graded. More explanation of the requirements of this assessment task will be given during the course (Weeks 1, 2). You are expected to use the tutorial times allotted to 'Experimental Design and Report' to research your topic in your groups. Details of the requirements of the written report will be provided during the tutorials.
Subject Learning Outcomes	1, 2, 4
Marking Criteria	The marking criteria will be made available on your eLearning site during weeks 1 and 2 of session.

Assessment 4	Final Exam
Due date	UOW Exam Period
Weighting	50%
Submission	Exam papers and answers must be submitted at the conclusion of the exam.
Type of Collaboration	Individual Assessment
Length	3 hours
Details	A number of multiple choice, short and long answer questions. This is a **COMPULSORY** element. The examination will cover the content of all lectures and anatomy/workshop content covered during the 13 week semester. Short answer questions will cover selected topics covered during the lectures. Multiple-choice questions will also cover all lectures. Students will be given some indication of format and mark allocation in the revision lecture in week 13.
Style and format	Final Exam
Subject Learning Outcomes	1, 2, 3, 4
Marking Criteria	The marking criteria will be made available on your eLearning site by week 1 of session.

Assessment 5	Practicum Hours (required for Exercise Science/Exercise Science and Rehabilitation students only)
Due date	First day of study recess week.
Weighting	0%
Submission	Submit proof of your completed placement hours to SMAH Placement team after getting Dr John Sampson's approval.
Type of Collaboration	Individual Assessment
Length	50 hours
Details	i) You will be required to: • Visit the Exercise Science practicum website http://www.uow.edu.au/health/healthsciences/UOW096180.html - Read information with regards to healthy practicum placement hours. - Understand the learning objectives required in order to count the healthy practicum hours. - Fill out the log book - Fill out the learning contract - Fill out the work experience insurance form (for external sites only) ii) To assist in this process see Mr John Sampson (Ph 4221 5597, jsampson@uow.edu.au) to view high quality placements already organised for you. - You should ensure that you sign up for these placements sites as soon as possible.
Style and format	Practicum – Please note: this assessment is required for Bachelor of Science (Exercise Science) and Bachelor of Exercise Science and Rehabilitation students only
Subject Learning Outcomes	N/A
Marking Criteria	The marking criteria will be made available on your eLearning site by week 1 of session.

Minimum Requirements for a Pass in this Subject

To receive a clear pass in this subject a total mark of 50% or more must be achieved. In addition, failure to meet any of the minimum performance requirements is grounds for awarding a Technical Fail (TF) in the subject, even where total marks accumulated are greater than 50%.

The minimum performance requirements for this subject are:

- pass the final exam
- attempt all assessment tasks
- meet the minimum participation requirements set out below.

Minimum Student Attendance and Participation

It is expected that students will allocate 6-8 hours per week to this subject, including any required class attendance, completion of prescribed readings and assessment tasks.

Student attendance at tutorials, practicals, seminars and/or simulations is compulsory and students must attend at least 100% of classes. Absences will require the submission of an application for Academic Consideration via SOLS and the presentation of suitable documentation, for example a Medical Certificate, to Student Central as soon as practical. For further details about applying for academic consideration visit the Student Central webpage:
http://www.uow.edu.au/student/central/academicconsideration/index.html

Scaling

Scaling will not occur in this subject.

Late Submission

Late submission of an assessment task without an approved extension of the deadline is not acceptable. If you are unable to submit an assessment due to extenuating circumstances (e.g. medical grounds or compassionate grounds), you can make an application of academic consideration. Not all circumstances qualify for academic consideration. For further details about applying for academic consideration visit the Student Central webpage:
http://www.uow.edu.au/student/central/academicconsideration/index.html

Late Submission Penalty – at 5%

Late submission of an assessment task without an approved extension of the deadline is not acceptable. Marks will be deducted for late submission at the rate of 5% of the total possible marks for that particular assessment task per day. This means that if a piece of work is marked out of 100, then the late penalty will be 5 marks per day (5% of 100 possible marks per day). The formula for calculating the late penalty is: the total possible marks x 0.05 x number of days late. For the purposes of this policy a weekend (Saturday and Sunday) will be regarded as two days.

For example:

- Student A submits an assignment which is marked out of 100. The assignment is submitted 7 days late. This means that a late penalty of 35 marks will apply (100 x 0.05 x 7). The assignment is marked as per normal out of 100 and is given a mark of 85/100, and then the late penalty is applied. The result is that the student receives a final mark of 50/100 for the assignment (85 (original mark) – 35 marks (late penalty) = 50/100 (final mark)).
- Student B submits a report which is marked out of 20. The report is submitted three days late. This means that a late penalty of 3 marks will apply ((20 x 0.05 x 3). The report is marked as per normal out of 20 and is given a mark of 17/20, and then the late penalty is applied. The result is that the student receives a final mark of 14/20 for the report (17 (original mark) – 3 marks (late penalty) = 14/20 (final mark)).

No marks will be awarded for work submitted either after the assessment has been returned to the students or more than two weeks after the due date, whichever is the sooner. This does not apply to situations where a particular assessment task is undertaken by students at different times throughout the session, but where the assessment is based on experiments or case studies specific to a student. In this case no marks will be awarded for work submitted more than two weeks after the due date.

Notwithstanding this, students must complete all assessment tasks to a satisfactory standard and submit them, regardless of lateness or loss of marks, where submission is a condition of satisfactorily completing the subject.

Supplementary Assessments

Supplementary assessment may be offered to students whose performance in this subject is close to that required to pass the subject, and are otherwise identified as meriting an offer of a supplementary assessment. The precise form of supplementary assessment will be determined at the time the offer of a supplementary assessment is made.

Students can log on to SOLS and click on the link titled “Supplementary Assessment” to view any applicable offers or use the following link;
http://www.uow.edu.au/student/exams/suppassess/index.html

System of Referencing Used for Written Work

The Author-Date (Harvard) referencing system should, unless otherwise specified for a particular assessment (check Details of Assessment Tasks), be utilised. A summary of the Harvard system can be accessed on the Library website at: http://uow.libguides.com/refcite

Submission of Assessments

Assessments submitted at StudentHub 41 must have a SATS (Student Assessment Tracking System) coversheet attached to the front of the assessment. Instructions for generating a coversheet can be found on the StudentHub 41 web page: http://smah.uow.edu.au/current-students/UOW151958.html

For an assessment to be successfully submitted at StudentHub 41 please note the following:

- The coversheet must be signed and dated.
- The assessment must have the correct coversheet i.e. the correct subject code and tutorial group (if applicable).
- A legible barcode with all numbers and digits below e.g. UOW20121007656.
- Assessments must be submitted by 4:00pm on the due date.

If an assessment is submitted to StudentHub 41 without any of the above we will contact you through your student email address and advise that you need to return to StudentHub 41 with the correct coversheet. Your assessment won't be considered submitted until the correct coversheet is attached. This might mean that your assessment is submitted late.

An email receipt will be issued on the same day as submission of assessments and students are required to retain this receipt until they have received the final mark for that assessment task. It is your responsibility to contact StudentHub 41 if you have not received this receipt by the following business day. The receipt is proof of submission of assessments and students will be required to produce this in the event that an assessment task is considered to be lost. Students are also expected to keep a copy of all their submitted assessments in the event that re-submission is required. SATS Group Assessment Coversheets are printed by the lead member of the group and subsequent names can be added in the SATS student interface before printing. All members of the group must sign the printed SATS Group Assessment Coversheet before submitting the assessment.

Note that if assessments are submitted in the after-hours slot at StudentHub 41 it will be scanned into SATS the following business day. Assessments submitted via post will be scanned into SATS on the day of delivery. Any assessments received without the correct assessment coversheet attached will not be accepted by SATS. It is the student's responsibility to ensure that the correct assessment coversheet is submitted with their assessment.

Students may post their assessments to:

StudentHub 41 (41.138B)
University of Wollongong
Wollongong NSW 2522

Assessments will be considered submitted on the date of postage. It is the student's responsibility to ensure they have evidence of their submission date if it arrives at the office after due date.

Distance students who would like to have marked assessments returned must include a stamped self- addressed envelope with the posted assessment.

Assessment Return

Students will be notified when they can collect or view their marked assessment. In accordance with University Policy marked assessments will usually only be held for 21 days after the declaration of marks for that assessment.

Section C: General Advice

Students should refer to the Faculty of Science, Medicine and Health website for information on policies, learning and support services and other general advice.

Student Consultation and Communication

University staff receive many emails each day. In order to enable them to respond to your emails appropriately and in a timely fashion, students are asked to observe basic requirements of professional communication.

Please ensure that you include your full name and student number and identify your practical class or tutorial group in your email so that staff know who they are communicating with and can follow-up personally where appropriate.

Consider what the communication is about

- Is your question addressed elsewhere (e.g. in the subject outline or, on the eLearning site)?
- Is it something that is better discussed in person or by telephone? This may be the case if your query requires a lengthy response or a dialogue in order to address. If so, see consultation times above and/or schedule an appointment.
- Are you addressing your request to the most appropriate person?

Specific email subject title to enable easy identification of issue

- Identify the subject code of the subject you are enquiring about (as staff may be involved in more than one subject) put this in the email subject heading. Add a brief, specific query reference after the subject code where appropriate.

Professional courtesy

- Address the staff member appropriately by name (and formal title if you do not yet know them).
- Use full words (avoid 'text-speak' abbreviations), correct grammar and correct spelling.
- Be respectful and courteous.
- Allow 3 – 4 working days for a response before following up. If the matter is legitimately urgent, you may wish to try telephoning the staff member (and leaving a voicemail message if necessary) or inquiring at the School Office.

eLearning Space

This subject has materials and activities available via eLearning. To access eLearning you must have a UOW user account name and password, and be enrolled in the subject. eLearning is accessed via SOLS (student online services). Log on to SOLS and then click on the eLearning link in the menu column. For information regarding the eLearning spaces please use the following link: https://www.uow.edu.au/student/elearning/index.html

Use of Internet Sources

Students are able to use the Internet to access the most current information on relevant topics and information. Internet sources should only be used after careful critical analysis of the currency of the information, the role and standing of the sponsoring institution, reputation and credentials of the author, the clarity of the information and the extent to which the information can be supported or ratified by other authoritative sources.

Lecture, Tutorial, Laboratory Times

On campus

All timetable information is subject to variation. Check latest timetabling information on the 'Current Student' webpage on UOW website or log into SOLS to view your personal timetable prior to attending classes.
http://www.uow.edu.au/student/index.html
Timetable information can be accessed from
https://www.uow.edu.au/student/timetables/
Key University Dates can be accessed from
http://www.uow.edu.au/student/dates/index.html

Distance Delivery: (if relevant)

Where relevant, students will be advised by the Subject Coordinator of any online classes or discussion forums that they need to part-take in.

Flexible Delivery: (if relevant)

Dates for study days and weeks will be listed online. All timetable information is subject to variation. Check latest timetabling information on the 'Current Student' webpage on UOW website or log into SOLS to view your personal timetable prior to attending classes.

Extraordinary Changes for the Subject after Release of the Subject Outline

In extraordinary circumstances the provisions stipulated in this Subject Outline may require amendment after the Subject Outline has been distributed. All students enrolled in the subject must be notified and have the opportunity to provide feedback in relation to the proposed amendment, prior to the amendment being finalised.

Learning Analytics

Data on student performance and engagement (such as Moodle and University Library usage, task marks, use of SOLS) will be available to the Subject Coordinator to assist in analysing student engagement, and to identify and recommend support to students who may be at risk of failure. If you have questions about the kinds of data the University uses, how we collect it, and how we protect your privacy in the use of this data, please refer to
http://www.uow.edu.au/dvca/bala/analytics/index.html

The Assessment Quality Cycle

The Assessment Quality Cycle provides a level of assurance that assessment practice across the University is appropriate, consistent and fair.

Assessment Quality Cycle Activities are undertaken to contribute to the continuous improvement of assessment and promote good practices in relation to the:
a. design of the assessment suite and individual assessment tasks;
b. marking of individual assessment tasks;
c. finalisation of subject marks and grades; and
d. review of the subject prior to subsequent delivery

Copies of student work may be retained by the University in order to facilitate quality assurance of assessment processes.

Academic Integrity Policy

The full policy on Academic Integrity Policy is found in the Policy Directory on the UOW website.

"The University's Academic Integrity Policy, Faculty Handbooks and subject guides clearly set out the University's expectation that students submit only their own original work for assessment and avoid plagiarising the work of others or cheating. Re-using any of your own work (either in part or in full) which you have submitted previously for assessment is not permitted without appropriate acknowledgement or without the explicit permission of the Subject Coordinator. Plagiarism can be detected and has led to students being expelled from the University.

The use by students of any website that provides access to essays or other assessment items (sometimes marketed as 'resources'), is extremely unwise. Students who provide an assessment item (or provide access to an assessment item) to others, either directly or indirectly (for example by uploading an assessment item to a website) are considered by the University to be intentionally or recklessly helping other students to cheat. Uploading an assessment task, subject outline or other course materials without express permission of the university is considered academic misconduct and students place themselves at risk of being expelled from the University."

Student Academic Complaints Policy (Coursework or Higher Degree Research)

In accordance with the Coursework Student Academic Complaints Policy, a student may request an explanation of a mark for an assessment task or a final grade for a subject consistent with the student's right to appropriate and useful feedback on their performance in an assessment task. Refer to the Coursework Student Academic Complaints Policy for further information.

Student Support Services and Facilities

Students can access information on student support services and facilities at the following link. This includes information on "Academic Support", "Starting at University, "Help at University" as well as information and support on "Careers and Jobs". http://www.uow.edu.au/student/services/index.html

Student Etiquette

Guidelines on the use of email to contact teaching staff, mobile phone use in class and information on the university guide to eLearning 'Netiquette' can be found at https://www.uow.edu.au/student/learningcoop/software/emailetiquette/index.html

UOW Grade Descriptors

The University of Wollongong Grade Descriptors are general statements that describe student performance at each of the University's grade levels.

Grade	Mark %	Descriptor
High Distinction HD	85-100	A high distinction grade (HD) is awarded for performance that provides evidence of an outstanding level of attainment of the relevant subject learning outcomes, demonstrating the attributes of a distinction grade plus (as applicable): • consistent evidence of deep and critical understanding • substantial originality and insight in identifying, generating and communicating competing arguments, perspectives or problem-solving approaches • critical evaluation of problems, their solutions and their implications • use of quantitative analysis of data as the basis for deep and thoughtful judgments, drawing insightful, carefully qualified conclusions from this work • creativity in application as appropriate to the discipline • eloquent and sophisticated communication of information and ideas in terms of the conventions of the discipline • consistent application of appropriate skills, techniques and methods with outstanding levels of precision and accuracy • all or almost all answers correct, very few or none incorrect
Distinction D	75-84	A distinction grade (D) is awarded for performance that provides evidence of a superior level of attainment of the relevant subject learning outcomes, demonstrating the attributes of a credit grade plus (as applicable): • evidence of integration and evaluation of critical ideas, principles, concepts and/or theories • distinctive insight and ability in applying relevant skills, techniques, methods and/or concepts • demonstration of frequent originality in defining and analysing issues or problems and providing solutions • fluent and thorough communication of information and ideas in terms of the conventions of the discipline • frequent application of appropriate skills, techniques and methods with superior levels of precision and accuracy • most answers correct, few incorrect
Credit C	**65-74**	A credit grade (C) is awarded for performance that provides evidence of a high level of attainment of the relevant subject learning outcomes, demonstrating the attributes of a pass grade plus (as applicable): • evidence of learning that goes beyond replication of content knowledge or skills • demonstration of solid understanding of fundamental concepts in the field of study • demonstration of the ability to apply these concepts in a variety of contexts • use of convincing arguments with appropriate coherent and logical reasoning • clear communication of information and ideas in terms of the conventions of the discipline • regular application of appropriate skills, techniques and methods with high levels of precision and accuracy • many answers correct, some incorrect
Pass P	**50-64**	A pass grade (P) is awarded for performance that provides evidence of a satisfactory level attainment of the relevant subject learning outcomes, demonstrating (as applicable): • knowledge, understanding and application of fundamental concepts of the field of study • use of routine arguments with acceptable reasoning • adequate communication of information and ideas in terms of the conventions of the discipline • ability to apply appropriate skills, techniques and methods with satisfactory levels of precision and accuracy • a combination of correct and incorrect answers
Fail F	**<50**	A fail grade (F) is given for performance that does not provide sufficient evidence of attainment of the relevant subject learning outcomes.
Technical Fail TF		A technical fail (TF) grade is given when minimum performance level requirements for at least one assessment item in the subject as a whole has not been met despite the student achieving at least a satisfactory level of attainment of the subject learning outcomes.
Satisfactory S		A satisfactory grade (S) is awarded for performance that demonstrates a satisfactory level of attainment of the relevant subject learning outcomes.
Unsatisfactory U		An unsatisfactory grade (U) is awarded for performance that demonstrates an unsatisfactory level of attainment of the relevant subject learning outcomes.
Excellent E		An excellent grade (E) may be awarded, instead of a satisfactory grade (S), within subjects from the School of Medicine that have been completed with a consistent pattern of high standard of performance in all aspects of the subject.

More details on UOW Grade descriptors can be found on the following link
http://www.uow.edu.au/content/groups/public/@web/@gov/documents/doc/uow194941.pdf

University Policies

Students should be familiar with the following University policies:

a. Code of Practice – Teaching and Assessment
http://www.uow.edu.au/about/policy/UOW058666.html

b. Code of Practice – Research, where relevant
http://www.uow.edu.au/about/policy/UOW058663.html

c. Code of Practice – Honours, where relevant
http://www.uow.edu.au/about/policy/UOW058661.html

d. Student Charter
http://www.uow.edu.au/student/charter/index.html

e. Code of Practice – Student Professional Experience, where relevant
http://www.uow.edu.au/about/policy/UOW058662.html

f. Academic Integrity and Plagiarism Policy
http://www.uow.edu.au/about/policy/UOW058648.html

g. Student Academic Consideration Policy
http://www.uow.edu.au/about/policy/UOW058721.html

h. Course Progress Policy
http://www.uow.edu.au/about/policy/UOW058679.html

i. Academic Complaints Policy (Coursework and Honours Students)
http://www.uow.edu.au/about/policy/UOW058653.html

j. Inclusive Language Policy
http://www.uow.edu.au/about/policy/alphalisting/UOW140611.html

k. Workplace Health and Safety, where relevant
http://staff.uow.edu.au/ohs/index.html

l. Intellectual Property Policy
http://www.uow.edu.au/about/policy/UOW058689.html

m. IP Student Assessment of Intellectual Property Policy, where relevant
http://www.uow.edu.au/about/policy/UOW058690.html

n. Policy on Ethical Objection by Students to the Use of Animal and Animal Products in Coursework Subjects, where relevant
http://www.uow.edu.au/about/policy/UOW058708.html

o. Human Research Ethics Guidelines, where relevant
http://www.uow.edu.au/research/ethics/human/index.html

p. Animal Research Guidelines, where relevant
http://www.uow.edu.au/research/ethics/UOW009373.html

q. Student Conduct Rules and accompanying Procedures or Research Misconduct Policy for research students
http://www.uow.edu.au/about/policy/rules/UOW060095.html

Version Control Table

Version Control	Release Date	Author/Reviewer	Approved By	Amendment
1	20180619	Paul Stapely – Subject Coordinator	Sonia Losinno – Learning and Teaching Officer	Final MEDI330 Spring 2018 Subject Outline