

## CHEM358: Pharmacology

### Subject Outline

6 credit points

### Subject Information

Autumn, 2024, Wollongong  
On Campus

**On-Campus Delivery** This subject is delivered in-person and includes on-campus or other location-based learning activities that cannot be undertaken by students studying Online/Distance. Students unable to attend campus or any other nominated physical delivery location should not enrol in this subject.

Subjects with a delivery mode of On Campus and/or Flexible with International Student enrolments will be delivered in accordance with the ESOS National Code. That is, online learning experiences (such as lectures, tuition, and resources) will be supplementary to in-person learning experiences such as scheduled classes and/or scheduled contact hours.

*UOW may need to change teaching locations, teaching delivery and/or assessment delivery at short notice to ensure the safety and well-being of students and staff in response to the COVID-19 pandemic or other public health requirements.*

### The Faculty of Science, Medicine and Health

The Faculty of Science, Medicine and Health offers a range of undergraduate and postgraduate programs designed to meet the needs of a diverse student population. We carry out world-leading research which is strongly aligned with our teaching program.

As a student of our faculty, you will be actively engaged in learning with extensive clinical experiences, use of advanced educational technologies and opportunities for enriching work experience. More information about the Faculty of Science, Medicine and Health and our School is available on our web pages:

<https://www.uow.edu.au/science-medicine-health/>

### Teaching Staff

Teaching Role	Coordinator
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Consultation Times	Email for an appointment

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### Teaching Staff Additional Information

For consultations or questions about the subject, please contact the subject coordinator at:

[chem358-support@uow.edu.au](mailto:chem358-support@uow.edu.au)

Your email will be directed to the relevant person/s. Please use the following template (delete bold text, insert text where indicated):

**Subject:**

CHEM358 Enquiry: [insert short, specific detail i.e. 'Group project']

**Body of email:**

Dear CHEM358 team,

[insert enquiry detail]

Kind regards,

[insert preferred name]

**Sign off email with:**

[insert full name]

[insert student number]

[insert current degree]

## Expectations of Students

UOW values are intellectual openness, excellence and dedication, empowerment and academic freedom, mutual respect and diversity, recognition and performance. We will provide a safe, equitable and orderly environment for the University community, and expect each member of our community to behave responsibly and ethically (UOW Student Conduct Rules <https://documents.uow.edu.au/about/policy/learning/index.html> ).

We expect that students demonstrate these values and professional behaviour, both face to face and online, making genuine efforts to complete their studies successfully, arriving on time to class, taking part constructively in class discussions and activities, demonstrating appropriate professional and ethical conduct in all communication with UOW staff and community members, and submitting assignments on time (or completing a request for Academic Consideration in advance if needed).

## Communication and eLearning 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>

### Guiding Communication Principles for Students

**Moodle** Announcements will be the primary platform for communication of general information to students

- Students should ensure they regularly check the main announcements forum at the top of each subject's Moodle site. Information distributed via a Moodle Announcement MAY not be duplicated on any other forum on the Moodle site.
- It is the student's responsibility to check all subject Moodle sites regularly for information and notifications.

**SOLS messages** will be used for all central communication relating to the following:

- Administrative matters relating to student enrolment
- Critical information relating to course or subject, e.g. Changes to assignments, policy updates, class cancellations or changes
- Timetable information
- Security and emergency information
- Students are encouraged to check SOLS messages daily as these messages are often of high priority

SOLS and Moodle announcements can NOT be responded to.

### Email

- Communication to UOW staff by students should only be via a UOW email account

Remember to use the same principles when communicating online as you would face-to-face. Be clear and respectful and communicate with the same consideration you would expect from others.

### Related Policies

- Online and email etiquette <https://tr.uow.edu.au/uow/file/976ffde2-b892-42cf-b20b-5c7a65bc08cc/1/Overview%20of%20Online%20and%20Email%20Etiquette.pdf>
- Using UOWmail <https://www.uow.edu.au/student/learning-co-op/technology-and-software/uowmail/>
- Inclusive language guideline <https://documents.uow.edu.au/about/policy/students/UOW140611.html>
- The Student Charter <https://www.uow.edu.au/student/charter/>

## Cyber Bullying

The University is committed to providing a safe, respectful, equitable and orderly environment for the University community, and expects each member of that community to behave responsibly and ethically. Students must comply with the University's [Student Conduct Rules](#) and related policies including the [IT Acceptable Use Policy](#) and [Bullying Prevention Policy](#), whether undertaking their studies face-to-face, online.

For more information on appropriate communication and etiquette in the online environment please refer to the guide [Online and Email Etiquette](#) or at <https://www.uow.edu.au/student/learning-co-op/technology-and-software/email-etiquette/>.

## Related Policies

Using UOWmail <https://www.uow.edu.au/student/learning-co-op/technology-and-software/uowmail/>

Inclusive language guideline <https://documents.uow.edu.au/about/policy/students/UOW140611.html>

# Copyright

## Commonwealth of Australia

Copyright Regulations 1969

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Hardcopies of this document are considered uncontrolled please refer to your Moodle site for the latest version.

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# Section A: General Information

## Learning Outcomes

### Subject Learning Outcomes

On successful completion of this subject, students will be able to:

1. Explain theoretical concepts in molecular and clinical pharmacology
2. Evaluate practical concepts of experimental pharmacology using computer-simulations
3. Communicate scientific findings clearly and coherently to others in written and oral formats, for example scientific reports and podcasts
4. Demonstrate the ability to work in a team environment, and integrate constructive feedback from peers

### Subject Description

CHEM358 introduces the key concepts of molecular pharmacology and expands on their clinical applications. In this subject, we will learn about these concepts through two introductory modules: 1) pharmacodynamics, and 2) pharmacokinetics. We will then expand on these concepts and discuss real-world clinical applications in further modules 3) cardiovascular and renal pharmacology, 4) anaesthetics and analgesics, and 5) anti-microbials and chemotherapeutics. We will analyse the potential of pharmaceuticals as both research and clinical tools through computer-simulated models that simulate drug-receptor relationships. By learning about the mechanisms and applications of pharmacology, we will develop your understanding of how to improve health outcomes and promote well-being. Finally, we will explore the latest in pharmaceutical developments through a group research project on a recently approved drug of choice. Through this, we will develop your skills in research, reflection, peer review, media production, teamwork, and communication that are highly sought after by employers in science, medicine, and health disciplines. This project also provides an opportunity to study real-world problems related to health and healthcare, which align with the United Nations Sustainable Development Goal 3 to ensure healthy lives and promote well-being for all.

### Course Handbook

Information about subject pre-requisites, co-requisites and restrictions as well as course completion requirements and Course Learning Outcomes can be found in the Course Handbook

<https://www.uow.edu.au/handbook/index.html>.

## Subject Details: Practical Activities, eLearning, Readings and Materials

### Subject eLearning

The University uses the eLearning system Moodle to support all coursework subjects. The subject Moodle site can be accessed via your SOLS page.

### Safety Guidelines

The rules below are general rules that are required when participating in labs or practical activities. Before commencing these activities you are to ensure that you understand specific procedures and policy related to safety.

- All first year students undertaking Chemistry (CHEM101/102/104/105) must complete the Moodle WHS Induction (see details below)
- Before commencing any activity you are to ensure that you understand specific procedures and policy related to the lab in which you work and safety in general.

- You may need to review a Risk Assessment and complete a Participant Acknowledgement form before commencing any experiments/practical work. These materials will be made available by the lab supervisor/Subject Coordinator.
- You must inform the Subject Coordinator of any medical conditions which may impact upon your ability to participate in these activities before commencing the practical.
- All Reasonable Adjustment cases (Access Plans) must be discussed with the Subject Coordinator prior to commencing the activity.
- Participation in the lab/practical/field/simulation activities may be denied to students who do not abide by these, and other conditions which may be specified by the Subject Coordinator.
- 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.

### EMBEDDED Work Integrated Learning

This subject contains elements of 'Embedded WIL'. Students in this subject will experience activities that relate to or simulate professional practice as part of their learning.

### Major Text(s)

The following text(s) should be purchased and used by students enrolled in this class.

- Rang and Dale's Pharmacology (Churchill Livingstone, 9th or 10th edition)

If there is a textbook available for purchase, you can find the details at University Bookshop <https://unishop.uow.edu.au/>

### Lectures, Tutorials and Attendance Requirements

#### Lecture Times \*

*UOW may need to change teaching locations, teaching delivery and/or assessment delivery at short notice to ensure the safety and well-being of students and staff in response to the COVID-19 pandemic or other public health requirements.*

Up to date timetable and delivery information is located at <http://www.uow.edu.au/student/timetables/index.html>

You can access your personal timetable by logging into SOLS and selecting 'My Timetable'

#### Lecture Program \*

Week	Commencing	
1	26 Feb 2024	Pharmacodynamics 1
2	04 Mar 2024	Pharmacodynamics 2
3	11 Mar 2024	Pharmacokinetics 1
4	18 Mar 2024	Pharmacokinetics 2
5	25 Mar 2024	Cardiovascular Pharmacology 1
6	01 Apr 2024	Cardiovascular Pharmacology 2
7	08 Apr 2024	Renal Pharmacology
	15 Apr 2024	Mid-Session Recess
8	22 Apr 2024	Group Project Information Lecture



9	29 Apr 2024	Anaesthetics
10	06 May 2024	Analgesics
11	13 May 2024	Chemotherapeutics
12	20 May 2024	Antimicrobials
13	27 May 2024	No lectures week 13
	03 Jun 2024	Study Recess
	08 Jun 2024	Examinations
	15 Jun 2024	Examinations

\* The above times and program may be subject to change. Students will be notified of any change via SOLS.

### Additional Lecture Comments

The lecture program provided in this subject outline is intended as a general guide to the modules and topics being delivered. Please see the information and timetable provided on Moodle for further detail, and ensure you regularly check for communications regarding any changes which will be delivered via announcements and through SOLS messages. It is also important that you regularly check your UOW email account (UOWmail).

### Lecture Recording

The University of Wollongong supports the recording of UOW educational content as a supplemental study tool, to provide students with equity of access, and as a technology-enriched learning strategy to enhance the student experience.

If you make your own recording of a lecture, class, seminar, workshop or any other educational session provided as part of your course of study you can only do so with the explicit permission of the lecturer and those people who are also being recorded.

You may only use educational content recorded through the delivery of subject or course content, whether they are your own or recorded by the university, for your own educational purposes. Recordings cannot be altered, shared or published on another platform, without permission of the University, and to do so may contravene the University's Copyright Policy, Privacy Policy, Intellectual Property Policy, IT Acceptable Use Policy and Student Conduct Rules. Unauthorised sharing of recordings may also involve a breach of law under the Copyright Act 1969.

Most lectures in this subject will be recorded, when they are scheduled in venues that are equipped with lecture recording technology, and made available via the subject Moodle site within 48 hours.

### Your Privacy - Lecture Recording

In accordance with the Student Privacy & Disclosure Statement, when undertaking our normal teaching and learning activities, the University may collect your personal information. This collection may occur incidentally during the recording of lectures in equipped venues (i.e. when your identity can be ascertained by your image, voice or opinion), or via the delivery of online content therefore the University further advises students that:

- Lecture recordings are made available to students, university staff, and affiliates, securely on the university's IT Platforms and via the subject Moodle eLearning site;
- Recordings are made available only for the purpose for which they were recorded, for example, as a supplemental study tool or to support equity and access to educational resources;
- Recordings are stored securely for up to four years

If you have any concerns about the use or accuracy of your personal information collected in a lecture recording, you may approach your Subject Coordinator to discuss your particular circumstances.

The University is committed to ensuring your privacy is protected. If you have a concern about how your personal information is being used or managed please refer to the University's Privacy Policy or consult our Privacy webpage <https://www.uow.edu.au/privacy/>

### Tutorial/Seminar/Workshop Times

The Faculty uses the SMP Online Tutorial System and tutorial times and locations can be found at <https://www.uow.edu.au/student/timetables/index.html>. Please note that tutorial times on the timetable are provisional and may change.

### Tutorial/Seminar/Workshop Program

Where the restrictions require temporary adjustments for delivery and tutorial/seminar/workshop arrangements, any necessary changes will be advised and provided by your Subject Coordinator. Please check Subject Moodle site regularly

Week	Week Commencing	Topics Covered	Readings and Activities
2	04 Mar 2024	<b>Pharmacodynamics Computer Lab</b>	Your pharmacodynamics computer lab will be assessed through the submission of a <b>scientific lab report due in Week 7</b> . See section B of this subject outline for details.
4	18 Mar 2024	<b>Pharmacokinetics Computer Lab</b>	Your <b>Pharmacokinetics Moodle worksheet</b> will be due <b>5 pm Friday in week 4</b> . Any unfinished worksheets will be automatically submitted and marked at the deadline unless an extension has been approved prior. Extensions cannot be given after your worksheet has been submitted.
6	01 Apr 2024	<b>Cardiovascular Pharmacology Computer Lab</b>	Your <b>Cardiovascular Pharmacology Moodle worksheet assessment</b> will be due <b>5 pm Friday in week 6</b> . Any unfinished worksheets will be automatically submitted and marked at the deadline unless an extension has been approved prior. Extensions cannot be given after your worksheet has been submitted.
	15 Apr 2024	<b>Mid-Session Recess</b>	
9	29 Apr 2024	<b>Group Project Workshop</b>	
10	06 May 2024	<b>Anaesthetics &amp; Analgesics Workshop</b>	
12	20 May 2024	<b>Chemotherapy and Antimicrobials Workshop</b>	
	03 Jun 2024	<b>Study Recess</b>	
	08 Jun 2024	<b>Examinations</b>	
	15 Jun 2024	<b>Examinations</b>	

The above program may be subject to change.

## **Recent Improvements to Subject**

The Faculty of Science, Medicine and Health is committed to continual improvement in teaching and learning. In assessing teaching and learning practices in a subject, the Faculty takes into consideration student feedback from many sources. These sources include direct student feedback to tutors and lecturers, feedback through Science, Medicine and Health Central, responses to the Subject and Course Evaluation Surveys. These important student responses are used to make ongoing changes to subjects and courses. This information is also used to inform systemic comprehensive reviews of subjects and courses.

## **Extraordinary Changes to 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 amendment, where practicable, prior to the amendment being finalised.

## **Learning Analytics**

Learning Analytics data (such as student engagement with Moodle, access to recorded lectures, University Library usage, task marks, and use of SOLS) may be used by the Subject Coordinator and your faculty's Head of Students 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 <https://www.uow.edu.au/about/privacy/index.html>

## Section B: Assessment

### Assessment Summary

Assessment Item	Form of Assessment	%
Assessment 1	Quiz	40%
Assessment 2	Lab/Prac/Simulation	15%
Assessment 3	Report	15%
Assessment 4	Project	30%
	<b>TOTAL MARKS</b>	100%

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

A formative assessment activity (with written or verbal feedback) will be conducted before census date - please see [UOW Key Dates](#).

### Assessment 1: Quiz - Quizzes

<b>Marking Criteria</b>	Multiple choice questions will be automatically marked and receive marks only for the correct answer. Written response questions will be written and marked by academics according to specific criteria. Where possible, questions will indicate the mark weighting.
<b>Length</b>	<p><b>Multiple choice quiz (online)</b></p> <ul style="list-style-type: none"> <li>10 multiple choice questions worth 1 mark each</li> </ul> <p><b>Written, short answer quiz (on-campus)</b></p> <ul style="list-style-type: none"> <li>20 marks worth of questions</li> </ul>
<b>Weighting</b>	40%
<b>Assessment Due</b>	To Be Announced
<b>Type of Collaboration</b>	Individual assessment
<b>Style and format</b>	<p>Five modular quizzes worth 8% each. Each quiz will individually assess each of the 5 modules delivered throughout the subject. The quizzes are mixed-mode and will consist of two parts for each quiz:</p> <p><b>Multiple choice quiz (2% each, 10% total)</b></p> <ul style="list-style-type: none"> <li>Online</li> <li>Open book</li> <li>Non-invigilated</li> </ul> <p><b>Written, short-answer quiz (6% each, 30% total)</b></p> <ul style="list-style-type: none"> <li>On-campus</li> <li>Closed book (no supporting materials allowed during quiz)</li> <li>Invigilated</li> </ul>

<b>Assessment submission</b>	<p><b>Multiple choice quiz</b></p> <ul style="list-style-type: none"> <li>• Via Moodle</li> <li>• Complete by <b>Friday 5 pm</b> in weeks 3,5,9,11,13</li> </ul> <p><b>Written, short answer quiz</b></p> <ul style="list-style-type: none"> <li>• Thursday 9:30 am during timetabled "lecture" time in weeks 3,5,9,11,13</li> <li>• If you have an access plan, you will complete the quiz at a time organised with the coordinator. This may be during the second hour of the timetabled lecture (10:30 am), or as instructed by the Subject Coordinator.</li> </ul>
<b>Assessment return</b>	Quizzes will be marked and results released within 21 days of the due date, subject to any extended, deferred or supplementary quizzes.
<b>Detailed information</b>	Five quizzes will be conducted during session covering pharmacodynamics (1), pharmacokinetics (2), anaesthetics & analgesics (3), cardiovascular & renal pharmacology (4), and chemotherapy & antimicrobials (5). Online multiple choice quizzes will open the week of each scheduled quiz, to be completed in your own time, but once started must be completed before the timer finishes, as it will close automatically after the time runs out, OR at 5:00 pm Friday when the quiz closes, whichever comes first. You will only get one attempt at each quiz. All parts of the quizzes will assess content taught in lectures, however you are expected to understand HOW to apply the theory content given a theoretical laboratory situation, challenge, dataset or question, which you may learn to do through the computer laboratories and workshops.

### Assessment 2: Lab/Prac/Simulation - Computer Lab Online Worksheets

<b>Marking Criteria</b>	Computer lab worksheets will be submitted and marked online through Moodle. Marks available for each section will be made clear where possible.
<b>Length</b>	Online Moodle worksheets should be completed within your 3 hour computer lab time, however worksheets can be finished outside of your lab class if needed. You do not need to submit the worksheet before the end of the computer lab, but should be submitted before the due date to avoid loss of marks. Two of the three computer labs will be assessed through these worksheets. Each of the two worksheets will be worth 7.5% of your final mark.
<b>Weighting</b>	15%
<b>Assessment Due</b>	22 Mar 2024 (Friday in Session Week 4) 05 Apr 2024 (Friday in Session Week 6) Final submission time: 5:00pm
<b>Type of Collaboration</b>	Individual assessment and group work
<b>Style and format</b>	These worksheets are to be completed as you work through the computer simulation labs. These worksheets may come in the form of, but not limited to, online 'Moodle quiz style' worksheets or quiz-style questions. However, these <b>will not be timed</b> and will <b>remain open until the due date/time</b> for each respective quiz, at which point access to the worksheet will close and any work will be automatically submitted. You may work together in groups and discuss topics, <b>but each student should submit individually or you will not be awarded a mark.</b>
<b>Assessment submission</b>	Online via Moodle

<b>Assessment return</b>	Worksheets will be marked and results released within 21 days of the due date.
<b>Detailed information</b>	You will complete two computer lab simulation worksheets online through Moodle. Detailed information on completing these, including instructions and guidelines will be found on Moodle.

### Assessment 3: Report - Scientific Report

<b>Marking Criteria</b>	The reports will be marked according to the marking rubric and guidelines which will be provided through Moodle.
<b>Length</b>	The report is to be no more than six (6) double-spaced pages. See below for formatting information.
<b>Weighting</b>	15%
<b>Assessment Due</b>	12 Apr 2024 (Friday in Session Week 7) Final submission time: 5:00pm
<b>Type of Collaboration</b>	Individual assessment
<b>Style and format</b>	<p>This is a written scientific report, in a short-report format. The report <b>MUST</b> be formatted in size 12 Times New Roman font, double-spaced text, and no more than 6 pages (<math>\pm 10\%</math>). <b>No Exceptions.</b> Page limit <b>INCLUDES</b> figure/s + figure legend/s. Text in figure legend/s can be size 10 and single-spaced. Page limit <b>DOES NOT INCLUDE</b> the reference list or a title page. Reports submitted in the incorrect format may be reformatted to adhere to the formatting guidelines and marked accordingly. Report content which exceeds +10% of the page limit (outside of excluded content i.e. reference list) will not be marked.</p> <p>Your report will contain the following sections: Title (can be on title page), Introduction &amp; Aims, Results, Discussion, Conclusions, Reference list. You do not need to include Methods &amp; Materials. You should include references formatted in the Harvard referencing style. Your name, student number and subject code + year should be included in the header or footer. Page numbers should also be included. <b>You should submit your report as a PDF.</b> See Moodle for further details on the report, including guidelines and marking rubric.</p> <p><i>By submitting this report you agree that you will adhere to the formatting requirements, and accept any mark deductions as a result of not following these criteria.</i></p>
<b>Assessment submission</b>	<p>Online via Moodle</p> <p>This assessment has been set up to be checked by Turnitin, a tool which helps you check whether you have referenced correctly. You can submit your assessment task to Turnitin prior to the due date and Turnitin will give you an originality report. You may then make any changes that may be required and resubmit your final version by the due date.</p>
<b>Assessment return</b>	Reports will be marked and results released within 21 days of the due date, subject to any extensions or deferred assessments being submitted. Report feedback will be provided through Turnitin on Moodle.
<b>Detailed information</b>	You will write a scientific report based on a pharmacology simulation laboratory, analysing and discussing your results in the context of the broader health and research implications. Further details on writing the report will be available through the computer lab instructions, in the lab report guidelines available on Moodle, and through the lab report writing workshop during week 3.

## Assessment 4: Project - Major Group Research Project

<b>Marking Criteria</b>	Clear marking criteria, rubrics and guidelines will be provided for each task on Moodle.
<b>Length</b>	This project will comprise of three main tasks, each with different criteria: <ol style="list-style-type: none"><li>1. A group progress update (1-2 pages)</li><li>2. An individual peer review and reflection (1 per student)</li><li>3. A final group research project (5 min recording + transcript)</li></ol> For detailed information please see guidelines provided on Moodle.
<b>Weighting</b>	30%
<b>Assessment Due</b>	10 May 2024 (Friday in Session Week 10) 17 May 2024 (Friday in Session Week 11) 31 May 2024 (Friday in Session Week 13) Final submission time: 5:00pm
<b>Type of Collaboration</b>	Individual assessment and group work
<b>Style and format</b>	This project will comprise of three main tasks. <ol style="list-style-type: none"><li>1. A group research and communication progress update to be submitted through Moodle by the designated 'Submitter' of the group.</li><li>2. An individual peer review of a randomly assigned group research and communication progress update, as well as a personal reflection on peer-review.</li><li>3. A group task involving submission of a recorded mock interview or podcast, and a referenced transcript on the topic of your novel drug of choice.</li></ol>
<b>Assessment submission</b>	Online via Moodle  This assessment has been set up to be checked by Turnitin, a tool which helps you check whether you have referenced correctly. You can submit your assessment task to Turnitin prior to the due date and Turnitin will give you an originality report. You may then make any changes that may be required and resubmit your final version by the due date.
<b>Assessment return</b>	Tasks will be marked and results released within 21 days of the due date.
<b>Detailed information</b>	This major group research project will assess both individual and group work skills. Group work will be weighted based on team evaluation surveys assessing you and your team members contributions to the group work tasks. Detailed information will be provided through Moodle in the research project handbook and during the group project information lecture and workshop.

## Minimum Requirements to Pass 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 subject learning outcomes, or 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:

- Achieve a combined mark of at least 45% of the available marks across all five quizzes (assessment 1)
- Attempt all assessments associated with the computer labs (assessments 2 and 3)
- Submit all tasks associated with the group research project (assessment 4)
- Meet the minimum attendance and participation requirements set out below

## Minimum Student Attendance and Participation

Students should note that UOW policy equates 1 credit point to around 1.5 hours of work (engagement hours involving attendance and self-directed study) per week. For example, in a 6 credit point subject, a total of 9 hours of study per week is expected.

Attendance at all computer labs and tutorials/workshops is compulsory and should be met to successfully complete the subject. If attendance is affected due to compassionate, compelling, or extenuating circumstances, an academic consideration application should be lodged via SOLS and supporting documentation, for example a Medical Certificate, presented 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>

## UOW Grade Descriptors

The UOW Grade Descriptors are general statements that communicate what our grades represent, in terms of standards of performance, and provide a frame of reference to ensure that assessment practice across the University is appropriate, consistent and fair. Grade Descriptors are expressed in general terms so that they are applicable to a broad range of disciplines. Grade Descriptors are available here

<https://www.uow.edu.au/student/exams/results/>. For more information on the UOW grade descriptors refer to the Teaching and Assessment: Assessment and Feedback Policy:

<https://documents.uow.edu.au/about/policy/alphalisting/UOW222910.html>

## Assessment Learning Outcome Matrix

Learning Outcomes	Measures - Assessment weighting			
	Quizzes (40%)	Computer Lab Online Worksheets (15%)	Scientific Report (15%)	Major Group Research Project (30%)
Explain theoretical concepts in molecular and clinical pharmacology	✓			
Evaluate practical concepts of experimental pharmacology using computer-simulations		✓		
Communicate scientific findings clearly and coherently to others in written and oral formats, for example scientific reports and podcasts		✓	✓	✓
Demonstrate the ability to work in a team environment, and integrate constructive feedback from peers				✓

## Submission, Retention and Collection of Written Assessment

Assessed work must be handed in by the date and time listed under each assessment task. All assessment tasks must represent the enrolled student's own ORIGINAL work and must not have been previously submitted for assessment in any formal course of study.

### Extensions

Students requesting extensions of time to submit an assessment task, deferred exam, alternative form of assessment or exemption of a compulsory attendance requirement must apply online via SOLS and provide documentary evidence within three working days of the assessable item's due date for their request to be considered. **For information on the Policy, eligibility and how to apply see:**

<https://www.uow.edu.au/student/admin/academic-consideration/>



## **Late Submission Penalty**

Late submissions will receive a penalty of 5% per day (or part thereof) of the total possible marks for the assessment task for up to ten (10) days after the due date and time for submission (including weekends, and public holidays), or, where an extension has been granted, for up to ten (10) days after the nominated extension deadline. For the purposes of this penalty a weekend (Saturday and Sunday) will be regarded as two days.

No marks will be awarded for work submitted:

- more than ten (10) days after the due date, or
- after the assessment has been returned to the students; whichever is applicable.

In such an instance, a mark of zero and a result of Fail for the task will be applied.

Note: Assessments must still be submitted to meet minimum performance requirements even though no mark is to be awarded.

## **Quiz Completion**

Where there is a quiz component, any student who has not attempted and submitted a quiz within the specified timeframe will receive 0 (zero) marks for this assessment type. The quiz will not be reopened, and no alternative assessment will be set without extenuating circumstances and an approved academic consideration application. Late penalties do not apply to quizzes. If a student attempts a quiz but for technical issues is not able to submit the quiz, students must show evidence and apply for an academic consideration to sit a supplementary quiz.

## **Collection**

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.

## **Retention**

The university may retain copies of student work in order to facilitate quality assurance of assessment processes, in support of the continuous improvement of assessment design, assessment marking and for the review of the subject. The University retains records of students' academic work in accordance with the University Records Management Policy and the State Records Act 1988 and uses these records in accordance with the University Privacy Policy and the Privacy and Personal Information Protection Act 1998.

## **Scaling**

Marks awarded for any assessment task or part of any assessment task, including an examination may be subject to scaling at the end of the session. Marks will be scaled only when unpredicted circumstances occur and in order to ensure fairness of marking across groups of students. The method of scaling will depend on the type of scaling required by the circumstances. When scaling is deemed necessary, it will follow a detailed consideration by the Unit Assessment Committee and/or the Faculty Assessment Committee of the marks of the group of students concerned. Scaling will not affect any individual student's rank order within their cohort. For more information please refer to Standards for the Finalisation of Student Results Schedule 1: Scaling Guidelines <https://www.uow.edu.au/about/policy/UOW039331.html> for details.

## **Supplementary Assessment**

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 Subject Coordinator will determine the precise form of supplementary assessment at the time the offer of a supplementary is made. In some circumstances you may be offered a supplementary exam. For more information about Supplementary Exams refer to: <http://www.uow.edu.au/student/exams/aboutsupp/index.html>

## **Review and Appeal of Academic Decisions**

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. A student may also seek further explanation for other academic decisions such as Academic Consideration, Supplementary Assessment or Credit for Prior Learning. If a student is not satisfied with the explanation, or have further concerns, they may have grounds for a formal review. For further information refer to

<https://documents.uow.edu.au/about/policy/students/UOW189967.html>

## **Assessment Quality Cycle**

The UOW Assessment Quality Cycle provides a level of assurance that assessment practices across the University are appropriate, consistent and fair. Quality assurance activities are undertaken to support the continuous improvement of assessment and promote good practices in relation to assessment design, marking and review of the subject prior to subsequent delivery.

## **Academic Integrity**

The University's Academic Integrity Policy, faculty handbook 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. 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.

Students should visit the following University website and become familiar with the University's policy on plagiarism <https://www.uow.edu.au/about/policy/UOW058648.html>

## **Referencing**

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>

# Section C: General Advice for Students - Policies and Procedures

## Student Services and Support

There are a range of services available to students that are provided free of charge. A good place to get to know services that may be of use to you is the Get Started @ UOW web page, accessed here <https://getstarted.uow.edu.au/index.html> or search for "Get Started @ UOW". Services available include:

Service	Link to information about the service
Aboriginal & Torres Strait Islander	<a href="https://www.uow.edu.au/wic/about1/index.html?ssSourceSiteId=getstarted">https://www.uow.edu.au/wic/about1/index.html?ssSourceSiteId=getstarted</a>
Careers advice	<a href="https://www.uow.edu.au/careers/index.html?ssSourceSiteId=getstarted">https://www.uow.edu.au/careers/index.html?ssSourceSiteId=getstarted</a>
Counselling	<a href="https://www.uow.edu.au/student/counselling/index.html?ssSourceSiteId=getstarted">https://www.uow.edu.au/student/counselling/index.html?ssSourceSiteId=getstarted</a>
Student Accessibility and Inclusion (SAI)	<a href="https://www.uow.edu.au/student/disability/index.html?ssSourceSiteId=getstarted">https://www.uow.edu.au/student/disability/index.html?ssSourceSiteId=getstarted</a>
Information Tech.	<a href="https://www.uow.edu.au/its/index.html?ssSourceSiteId=getstarted">https://www.uow.edu.au/its/index.html?ssSourceSiteId=getstarted</a>
Study Skills	<a href="https://www.uow.edu.au/student/learningcoop/index.html?ssSourceSiteId=getstarted">https://www.uow.edu.au/student/learningcoop/index.html?ssSourceSiteId=getstarted</a>

## Student Support Coordinator (SSC)

If you have a temporary or ongoing issue or a problem that is affecting your study, including issues that are related to belonging to an equity group, then the Student Support Coordinators may be able to help. There are Student Support Coordinators available to assist students who are studying at all UOW Campuses and in all UOW Faculties. Contact details can be found on the UOW website: <https://www.uow.edu.au/student/support-services/coordinators/>

## Student Advocacy Service

The Student Advocacy Service (SAS) is free, confidential and independent service for all UOW students. The SAS provides advocacy and referral for a range of academic, procedural and administrative issues. For more information visit: <https://www.uow.edu.au/student/support-services/advocacy/>

## Student Central

Student Central is your primary administrative and information contact during your studies. There are service representatives from Student Service, Accommodation Services, BUPA, Global Student Mobility (Exchange) and Scholarships and Sponsorships.

Our purpose is to ensure students have access to the information they need, at the time they need it. We can help with a wide range of enquiries, some are:

- Applying for academic consideration
- Official documentation requests
- Updating personal details
- Student ID card replacement
- Opal cards and transport
- Education verification
- Fees and charges
- Scholarships and grants
- Digital and printed academic documents
- Overseas health cover
- Studying abroad and exchange

- SOLS password and login help
- Student feedback

Student Central contacts:

<b>Phone</b>	1300 275 869 (1300 ASK UOW) or +61 2 4221 3927
<b>Email</b>	askuow@uow.edu.au
<b>Online</b>	Enquiry Form ( <a href="https://bps.uow.edu.au/suite/sites/student-enquiry/page/submit-enquiry">https://bps.uow.edu.au/suite/sites/student-enquiry/page/submit-enquiry</a> )

## Library Services

Save yourself time and enhance your studies: connect with information specialists and resources anytime, anywhere.

- For Library support connect with [Live Chat](#) or [contact the Library](#).
- For self-help see [Frequently Asked Questions](#) or browse [Library guides](#) to find information, databases and skills tutorials.
- [Research consultations](#) are available to UOW Postgraduate, Honours and Deans Scholar students.

## Academic Integrity Policy

Academic integrity involves upholding ethical standards in all aspects of academic work, including learning, teaching and research. It involves acting with the principles of honesty, fairness, trust and responsibility and requires respect for knowledge and its development. The Policy can be found at:

<http://www.uow.edu.au/about/policy/UOW058648.html>

## Code of Practice - Research

This Code mandates the current policy and best practice relating to procedures for responsible research. The Code can be found at: <http://www.uow.edu.au/about/policy/UOW058663.html>

## Code of Practice - Honours

This Code sets out the responsibilities of all parties involved in managing students undertaking Honours Programs. The Code can be found at: <http://www.uow.edu.au/about/policy/UOW058661.html>

## The Code of Practice - Work Integrated Learning (Professional Experience)

The Code of Practice - Work Integrated Learning (Professional Experience) sets out what is expected from students, the University and Host Organisations in providing work integrated learning professional experience programs. It applies to professional experience programs that form the whole or part of a subject or course offered at the University. The Code assists in promoting a productive work integrated learning experience for students and in promoting relevant UOW Work Integrated Learning Design Principles.

<http://www.uow.edu.au/about/policy/UOW058662.html>

## Copyright Policy

The purpose of this Policy is to outline responsibilities and procedures regarding the use of third party copyright material, with the objectives of reducing staff and UOW exposure to the risks associated with the use of third party copyright material, assisting staff to make full legal use of the materials at their disposal by clearly identifying responsibilities and promoting copyright compliance. The Policy can be found at:

<http://www.uow.edu.au/about/policy/alphalisting/UOW026670.html>

## **Course Progress Policy**

The Course Progress Policy establishes the requirements, definitions and procedures to be used in determining the standards of acceptable course progress. The Policy can be found at:

<http://www.uow.edu.au/about/policy/UOW058679.html>

## **Examination Rules and Procedures**

The UOW rules and procedures outline exam conditions, student conduct in exams, and the procedures for exam management. Further information can found here: <https://www.uow.edu.au/student/exams/>

## **Ethical or Religious Objection by Students to the Use of Animal and Animal Products in Coursework Subjects**

This policy provides a framework for recognition of and responses to students' ethical or religious objection to animal use in coursework subjects at the University of Wollongong. For the purpose of this policy, animal use includes killing of animals in experimental work, dissection of animals that are already dead, use of animal tissues, use of animal-derived products (such as sera). These uses are relevant to teaching and assessment.

Further information about this policy can be found here:

<http://www.uow.edu.au/about/policy/UOW058708.html>

## **Coursework Rules**

The Coursework Rules (hereafter the Rules) govern the admission, enrolment, progression through, and qualification for a coursework award offered by the University. Further information can be found here:

<https://documents.uow.edu.au/about/policy/UOW262890.html>

## **Human Research Ethics**

The Human Research Ethics Committee protects the welfare and rights of the participants in research activities.

Further information can be found here: <http://www.uow.edu.au/research/ethics/human/index.html>

## **Inclusive Language Guidelines**

UOW endorses a policy of non-discriminatory language practice in all academic and administrative activities of the University. Further information is available from:

<http://www.uow.edu.au/about/policy/alphalisting/UOW140611.html>

## **Intellectual Property Policy**

UOW's Intellectual Property Policy provides guidance on the approach taken to Intellectual Property (IP), including its ownership, protection and exploitation. Further information about the management of IP is available at

<http://www.uow.edu.au/about/policy/UOW058689.html>

## **Review and Appeal of Academic Decisions Policy**

UOW aims to provide a transparent and consistent process for resolving a student concern about an academic decision that has affected their academic progress, including a mark or grade. Further information is available at:

<http://www.uow.edu.au/about/policy/UOW058653.html>

## **Student Academic Consideration Policy**

The purpose of the Student Academic Consideration Policy is to enable student requests for academic consideration for assessable components of a subject to be evaluated in a fair, reasonable, timely and consistent manner throughout the University. **For information on the Policy, eligibility and how to apply see:**

<https://www.uow.edu.au/student/admin/academic-consideration/>

## **The Student Charter - Your Rights and Responsibilities**

The Student Charter is based on principles that guide all members of the University and that promote responsible partnerships within and beyond the University community.

<http://www.uow.edu.au/student/charter/index.html>

## **Student Assignment of Intellectual Property (IP) Policy**

This policy applies to all Students (under-graduate and post-graduate) of the University of Wollongong (UOW). It may also apply to other persons by agreement. This policy sets out the approach taken by UOW in relation to Student assignment of intellectual property. Further information about this policy can be found here:

<http://www.uow.edu.au/about/policy/UOW058690.html>

## **Student Conduct Rules**

These Rules outline the required conduct of students of UOW, and direct staff and students to University Rules, standards, codes, policies, guidelines, procedures and other requirements which specify acceptable and unacceptable student conduct, and the management of alleged student misconduct.

<http://www.uow.edu.au/about/policy/UOW058723.html>

## **Teaching and Assessment: Assessment and Feedback Policy**

The purpose of this Policy is to set out the University of Wollongong's approach to effective learning, teaching and assessment, including the principles and minimum standards underlying teaching and assessment practice.

The Policy can be found at: <http://www.uow.edu.au/about/policy/alphalisting/UOW222905.html>

## **Teaching and Assessment: Code of Practice - Teaching**

This Code is a key document in implementing the University's Teaching and Assessment Policy and sets out the specific responsibilities of parties affected in relation to learning, teaching and assessment, as well as procedures for teaching staff. The Code can be found at: <http://www.uow.edu.au/about/policy/UOW058666.html>

## **Teaching and Assessment: Subject Delivery Policy**

This Policy sets out specific requirements in relation to the delivery of Subjects. The policy can be found at:

<http://www.uow.edu.au/about/policy/alphalisting/UOW222906.html>

## **Workplace Health & Safety Policy**

The Workplace Health and Safety (WHS) unit at UOW aims to provide structures, system and support to ensure the health, safety and welfare of all at the campus. Further information is available from:

<https://www.uow.edu.au/about/policy/alphalisting/UOW016894.html>