PATH2201

Processes in Disease

Course Outline

Term 3, 2022

School of Medical Sciences

Faculty of Medicine & Health

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1. Staff

Position	Name	Email	Consultation times and locations
Course Convenor	A/Prof Cristan Herbert	c.herbert@unsw.edu.au	Email for appointment Room 417 Level 4 Wallace Wurth C27 Or MS Teams
Course Co-Convenor	Dr Karim Burkhardt	k.burkhardt@unsw.edu.au	Email for appointment
Lecturer	Prof Gary Velan	g.velan@unsw.edu.au	Email
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Lecturer	Dr Martin Weber	martin.weber@unsw.edu.au	Email
Tutors	To be confirmed		

2. Course information

Units of credit: 6

Pre-requisite(s): ANAT2241 plus any one of ANAT2111, ANAT1521, PHSL2101, BIOC2101 and BIOC2181

Teaching times and locations:

https://timetable.unsw.edu.au/2022/PATH2201.html

2.1 Course summary

Lectures, online modules, tutorials, and practical classes (histopathology and macroscopic pathology sessions) aimed at increasing understanding of important disease processes. Comparisons between normal and abnormal cell, tissue and organ function will be made. These include processes of cell and tissue degeneration, acute and chronic inflammation, healing, vascular disease, and neoplasia. Particular examples include diseases of practical importance such as pneumonia, tuberculosis, pulmonary embolism and myocardial infarction. Examples of common tumours will be introduced to demonstrate aberrations of cell growth and neoplasia.

PATH2201 is a 6 UOC course, available in Term 3 only. The course is a prerequisite for Stage 3 courses offered by the Department of Pathology, for which a major in Pathology is available. Please see the UNSW online handbook for details. The course is suitable for students who plan a career in research, hospital-based laboratory work, and professions in the health sciences.

2.2 Course aims

PATH2201 Processes in Disease has been developed to provide students with a broad understanding of the pathological basis of human disease, through study of the fundamental causes of disease at a macroscopic, microscopic, and molecular level. The general purpose of the course is to introduce students to the scientific approach to the study of disease.

The aims of the course are to:

1. Understand the pathological processes that underlie common human diseases.
2. Integrate and build on students' knowledge of anatomy (normal structure at a gross level), histology (normal structure at a microscopic level) and physiology (normal function), by comparing normal structure and function with abnormalities caused by disease.
3. Introduce students to the terminology of pathology, in order to facilitate communication in future health-related education, research or clinical practice.
4. Provide a basis for understanding and interpretation of clinical scenarios students may encounter in future practice/studies.
5. Guide and improve students' ability to utilise appropriately the medical literature, facilitated by a scientific literacy workshop, a pathology assignment (see Assessment section) and the structure of tutorials.

2.3 Course learning outcomes (CLO)

At the completion of this course, students should be able to:

1. Describe and compare the causes, pathogenic mechanisms, macroscopic and microscopic appearances, and clinical consequences of common diseases affecting humans.
2. Outline and explain the causes, mechanisms and consequences of the following pathological processes a) Acute inflammation b) Healing and chronic inflammation c) vascular disease d) Neoplasia
3. Apply knowledge of pathological processes to common examples of specific human diseases, including a) Acute appendicitis b) Pneumonia c) Tuberculosis d) Peptic ulcer disease e) Atherosclerosis f) Thromboembolism g) Myocardial infarction h) Cerebral infarction i) Colorectal carcinoma j) Breast carcinoma
4. Critically evaluate the role of scientific literature in medical/scientific research and education and be able to utilise appropriately and cite scientific literature.
5. Show evidence of professional skills development by demonstrating skills including teamwork and reflective practice.

These outcomes will be achieved through study of the common patterns of tissue responses to injury, which are often referred to as pathological processes. To understand these processes, students will draw on knowledge of normal anatomy, histology, biochemistry, and physiology.

2.4 Relationship between course learning outcomes and assessments

Course Learning Outcome (CLO)	LO Statement	Related Tasks & Assessment
CLO 1	Describe and compare the causes, pathogenic mechanisms, macroscopic and microscopic appearances, and clinical consequences of common diseases affecting humans.	Online Quizzes Mid-Term Exam End-of-course exam
CLO 2	Outline and explain the causes, mechanisms, and consequences of the following pathological processes: a) Acute inflammation b) Healing and chronic inflammation c) vascular disease d) Neoplasia	Online Quizzes Mid-Term Exam End-of-course exam
CLO 3	Apply knowledge of pathological processes to common examples of specific human diseases, including a) Acute appendicitis b) Pneumonia c) Tuberculosis d) Peptic ulcer disease e) Atherosclerosis f) Thromboembolism g) Myocardial infarction h) Cerebral infarction i) Colorectal carcinoma j) Breast carcinoma	Online Quizzes Mid-Term Exam End-of-course exam
CLO 4	Critically evaluate the role of scientific literature in medical/scientific research and education and be able to utilise appropriately and cite scientific literature.	Pathology assignment
CLO 5	Show evidence of professional skills development by demonstrating skills including teamwork and reflective practice.	Pathology assignment

3. Strategies and approaches to learning

3.1 Learning and teaching activities

The course employs a variety of teaching modes in order to facilitate your learning:

1. A collaborative, team-based approach to learning. It is anticipated that students will have an enhanced learning experience through the use of peer-teaching and team quizzes. You are also encouraged to utilise your allocated teams as study groups.
2. Online lectures, online modules and large-group interactive sessions introduce you to pathological processes, as well as specific examples of those processes affecting organs and tissues.
3. Tutorials (online or face-to-face options available) centred on team-based learning activities, are designed to extend, and amplify your understanding of lecture material, in an interactive format. You are encouraged to clarify any difficulties regarding the concepts discussed.
4. Online practical classes using specimens from the Museum of Human Disease and an online database of macroscopic images (BEST Network) are designed for you to apply knowledge of

disease processes to macroscopic organs and tissues, and to correlate the changes with the clinical manifestations. Practical classes on histopathology employ computer-based virtual microscopy to illustrate the microscopic appearances of the pathological processes described in lectures and macroscopic pathology classes. This allows correlation between disease processes, changes in cells and tissues at the microscopic level, and the manifestations of disease.

5. A Scientific Writing Literacy Module aimed at fostering student graduate attributes in writing communication in science.
6. Learning is supported via Moodle and Teams. Announcements, timetables, online modules, lecture slides and audio, science writing literacy skills focus guide and other resources will be made available during the course.
7. The PATH2201 Student Manual contains specific learning objectives for each lecture, tutorial and practical class, together with the course timetable and background information.

3.2 Expectations of students

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

Students are strongly encouraged to complete the recommended reading for each topic prior to attending the lectures/practical classes.

Students are expected to attend all lectures, practical classes, tutorials, and online seminars and to complete the online modules related to each topic before the completion of the end of the topic. In addition, students are expected to prepare for tutorial classes by attempting the learning objectives outlined in the course manual and to actively contribute to discussions during tutorial and practical classes.

Email etiquette

When emailing staff, ensure the subject line begins with PATH2201, followed by the subject of the message (e.g., PATH2201 Practical classes). Ensure that you include your student number in your email. Appropriate salutations are appreciated (see here for a useful guide).

Students are advised that email is the official means by which the School of Medical Sciences at UNSW will communicate with you. All emails will be sent to your official UNSW email address (e.g., z1234567@student.unsw.edu.au), otherwise you MUST arrange for your official mail to be forwarded to your chosen address. The University recommends that you check your mail at least every other day.

3.3 Relationship to other courses within the program

PATH2201 is a core Stage 2 course for students enrolled in the Bachelor of Medical Science and is an elective for students enrolled in other science programs, such as Bachelor of Science or Advanced Science. PATH2201 draws on concepts and knowledge acquired from other Medical Science and Biological Science courses, including Anatomy, Histology, Physiology, Biochemistry, Molecular Biology

and Immunology, in order to explore the pathological processes of aberrations that lead to disease. PATH2201 is also a pre-requisite for Stage 3 Pathology courses.

3.4 Differences between PATH2201 and PATH2202

PATH2201 and PATH2202 have common lectures and some online modules. The key difference between the courses is the structure of the weekly practical sessions.

- **PATH2201** students attend Histopathology and Macroscopic Pathology practical classes every two weeks.
- **PATH2202** students attend a weekly Clinicopathological Correlation Session, which includes Museum specimens (with limited histology), but with more emphasis on the clinical setting of the disease and relevance to Exercise Physiology.

3.5 Online learning

Due to the impact of COVID-19, lectures and practical classes in PATH2201 will be delivered fully online. Online or face-to-face tutorial classes will be available (Enrolled students will be able to nominate either an online or face-to-face tutorial class prior to the start of the course; Requests to change tutorial class cannot be accommodated once the course starts). A consistent approach will be applied to each of the 4 major topics (acute inflammation, healing & chronic inflammation, vascular disease and neoplasia) addressed during the course. Each topic will commence with an online overview lecture to provide key information and learning objectives. Specific examples relating to each topic will be provided via a series of interactive online modules which include animations and highlights as well as review quizzes with feedback. Tutorial and practical classes will be used to provide examples and to reinforce important concepts. Each topic will conclude with an interactive, online session focussed on integration of the topic content (Integration/Feedback session). See the Additional Resources section for tips regarding online learning.

Online modules

Online modules relating to each topic will be made available for self-directed learning as outlined below and each module includes a short review quiz. Students must achieve a score of at least 80% in the review quiz for the module to be considered complete, but each quiz can be attempted multiple times. Students must complete the online modules before the relevant Integration/Feedback session, and the best score achieved in the review quizzes BEFORE THE EXPECTED COMPLETION DATE (see dates below) will contribute to the overall course mark. Quiz scores submitted after the completion date will not contribute to the overall course mark.

Weeks	Online Modules	Topic	Available	Expected completion
1/2	• Introduction to immune responses	Introduction	Week 1	16th September (5pm)
3/4	• Appendicitis • Pneumonia	Acute inflammation	Week 2	30th September (5pm)
5/6	• Healing • Peptic ulcer disease • Tuberculosis	Healing & chronic inflammation	Week 4	14th October (5pm)
7/8	• Thrombosis and embolism • Atherosclerosis	Vascular diseases	Week 7	4th November (5pm)
9/10	• Disturbances of growth • Colorectal carcinoma • Breast carcinoma	Neoplasia	Week 9	18th November (5pm)

4. Course schedule and structure (PATH2201)

Wk	Day	Date	Time	Location	Instructor	Class	Title
1	Wed	14/09	9-11 am	Online	Velan; Herbert	Lec	Concepts and classification of disease; Responses to injury
	Thu	15/09	9 am -12 pm See practical group list (Moodle)	Online; Groups A and B	TBC Herbert	Lab	Histopathology I – Introduction to histopathology Macroscopic pathology I – Induction and introduction to macroscopic specimens
	Fri	16/09	12-1 pm or 1-2 pm	Online or face-to-face	See class list (Moodle)	Tut	Tutorial 1: Classification of disease/Response to injury (Formative Quiz 1)
Topic 1: Acute inflammation							
2	Wed	21/09	9-11 am	Online	Velan	Lec	Overview lecture: Acute inflammation
	Thu	22/09	9 am -12 pm See practical group list	Online; Group A only	Burkhardt Herbert	Lab	Histopathology II – Acute inflammation Macroscopic pathology II – Acute inflammation
	Fri	23/09	12-1 pm or 1-2 pm	Online or face-to-face	See class list (Moodle)	Tut	Tutorial 2: Acute inflammation I: Appendicitis
3	Thu	29/09	9 am -12 pm See practical group list	Online; Group B only	Herbert Burkhardt	Lab	Macroscopic pathology II – Acute inflammation Histopathology II – Acute inflammation
	Fri	30/09	12-1 pm or 1-2 pm	Online or face-to-face	See class list (Moodle)	Tut	Tutorial 3: Acute inflammation II: Pneumonia (Formative Quiz 2)
	Fri	30/09	4-5 pm	Online	Velan	Sem	Integration/Feedback session: Acute inflammation
Topic 2: Healing and chronic inflammation							
4	Wed	5/10	9-11 am	Online	Herbert	Lec	Overview lecture: Healing and chronic inflammation
	Thu	6/10	9 am -12 pm See practical group list	Online; Group A only	Herbert Burkhardt	Lab	Macroscopic pathology III – Chronic inflammation Histopathology III – Chronic inflammation
	Fri	7/10	12-1 pm or 1-2 pm	Online or face-to-face	See class list (Moodle)	Tut	Tutorial 4: Chronic inflammation I: (Peptic ulceration)
5	Wed	12/10	9-11am	Online	Herbert		**MID-TERM EXAM** **(Covering weeks 1-3 inclusive)**
	Thu	13/10	9 am -12 pm See practical group list	Online; Group B only	Burkhardt Herbert	Lab	Histopathology III – Chronic inflammation Macroscopic pathology III – Chronic inflammation
	Fri	14/10	12-1 pm or 1-2 pm	Online or face-to-face	See class list (Moodle)	Tut	Tutorial 5: Chronic inflammation II: Tuberculosis (Formative Quiz 3)
	Fri	14/10	4-5 pm	Online	Herbert	Sem	Integration/Feedback session: Healing and chronic inflammation

Wk	Day	Date	Time	Location	Instructor	Class	Title
6	Flexibility week – No classes						
Topic 3: Vascular disease							
7	Wed	26/10	9-11 am	Online	Weber	Lec	Overview lecture: Thrombosis, embolism and infarction
	Thu	27/10	9 am -12 pm See practical group list	Online; Group A only	Burkhardt Herbert	Lab	Histopathology IV –Vascular diseases Macroscopic pathology IV – Vascular diseases
	Fri	28/10	12-1 pm or 1-2 pm	Online or face-to-face	See class list (Moodle)	Tut	Tutorial 6: Vascular diseases I: Deep vein thrombosis
8	Wed	2/11	5 pm	Online (Moodle)	**PATHOLOGY ASSIGNMENT DUE**		
	Thu	3/11	9 am -12 pm See practical group list	Online; Group B only	Herbert Burkhardt	Lab	Macroscopic pathology IV – Vascular diseases Histopathology IV –Vascular diseases
	Fri	4/11	12-1 pm or 1-2 pm	Online or face-to-face	See class list (Moodle)	Tut	Tutorial 7: Vascular disease II: Atherosclerosis and myocardial infarction (Formative Quiz 4)
	Fri	4/11	4-5 pm	Online	Herbert	Sem	Integration/Feedback session: Thrombosis, embolism, and infarction
Topic 4: Neoplasia							
9	Wed	9/11	9-11 am	Online	Tedla	Lec	Overview lecture: Neoplasia
	Thu	10/11	9 am -12 pm See practical group list	Online; Group A only	Burkhardt Herbert	Lab	Histopathology V – Disorders of growth Macroscopic pathology V – Disorders of growth
	Fri	11/11	12-1 pm or 1-2 pm	Online or face-to-face	See class list (Moodle)	Tut	Tutorial 8: Disorders of growth I: Colonic masses
10	Thu	17/11	9 am -12 pm See practical group list	Online; Group B only	Herbert Burkhardt	Lab	Macroscopic pathology V – Disorders of growth Histopathology V – Disorders of growth
	Fri	18/11	12-1 pm or 1-2 pm	Online or face-to-face	See class list (Moodle)	Tut	Tutorial 9: Disorders of growth II: Breast lumps (Formative Quiz 5)
	Fri	18/11	4-5 pm	Online	Tedla	Sem	Integration/Feedback session: Neoplasia

NOTE: Teaching activities may be subject to change; changes to the timetable will be announced on Moodle.

Exam Period: 25 November – 8 December
Supplementary Exam Period: 9 January – 13 January

5. Assessment

5.1 Assessment tasks

Students will undertake the following assessment during the term:

Assessment task	Length	Weight	Due date and time
Assessment 1: Online quizzes	~3 minutes each (multiple attempts permitted)	15%	See table above
Assessment 2: Mid-term exam	1 hour plus 15 minutes reading time	20%	12th October
Assessment 3: Pathology assignment	Report (2000 words)	20%	2nd November
Assessment 4: End-of-course exam	2 hours plus 15 minutes reading time	45%	UNSW Exam period (date TBC)

Online quizzes (15%)

During the term, students will complete short online quizzes at the end of each online module. Quizzes can be attempted multiple times and the highest score achieved **before the Feedback/Integration session for the current topic** will be recorded.

Mid-term exam (20%)

Students will complete a 1-hour mid-term exam in week 5. The exam will consist of 10 multiple choice questions and 1 short-answer question on any of the content covered prior to the exam.

Pathology assignment (20%)

The Pathology assignment assesses awareness of pathological processes, the roles of scientific literature in medical/scientific research and education, and the ability to utilise and cite scientific literature at an academic standard. Reflective practice will also be assessed.

Students will choose a disease of interest (eg from the Museum of Human disease) that is relevant to one of the pathological processes studied in this course:

1) Acute inflammation
2) Chronic inflammation
3) Thrombosis, embolism & infarction (vascular disease)
4) Neoplasia

Students will write a report which outlines background information on the disease, how medical research has improved understanding of the disease, and a research question, that if answered, would further enhance understanding of the disease. The report should utilise and cite appropriate medical/scientific literature at an academic standard. The assignment will be due in week 8.

End of course exam (45%)

Students will complete a 2-hour online exam on any/all content covered throughout the course. Part A will consist of 20 multiple choice questions, Part B will consist of 4 short-answer questions. The end of course exam will be schedule in the UNSW examination period

Further information

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

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

5.2 Assessment criteria and standards

Practice (formative) exam questions will be made available to you via Moodle, as well as during the some of the tutorial classes.
Additional details regarding the Pathology assignment will be provided via an online Scientific Writing Literacy lecture in week 1, and also on the course Moodle page. A detailed marking rubric for the assignment will be provided to you via the course Moodle page.

5.3 Submission of assessment tasks

Late Submission

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

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

Special Consideration

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

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

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

More information can be found on the Special Consideration website.

5.4. Feedback on assessment

Online quizzes
Feedback will be provided online at the completion of each quiz. Additional feedback will be provided during the online feedback/integration sessions that will be held at the end of each topic.

Mid-term exam
Marks will be provided on Moodle and generalised course feedback will be provided in a tutorial class in week 7.

Pathology assignment (20%)
Students will receive peer-feedback on a draft of their assignments. Students will receive marks and feedback via Moodle 10 days after the submission date.

End of course exam (45%)
Exam marks will be made available on the course Moodle page after the UNSW release or results date. Cohort feedback will be provided in the form of a Moodle post.

6. Academic integrity, referencing and plagiarism

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

Please use APA referencing style for this course.

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

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

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

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

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

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

7. Readings and resources

7.1. Textbook

You are expected to acquire the following text: Robbins Basic Pathology, 10th Ed. V. Kumar, A.K. Abbas & J.C. Aster (2018). Elsevier. This book can be purchased via the UNSW bookshop:

https://www.bookshop.unsw.edu.au/details.cgi?ITEMNO=9780323353175

This text is also available as an e-book through the University Library:

Robbins Basic Pathology: Online

Students wishing to study the molecular biology or clinical features of diseases in greater depth might consider the purchase of the following text: Robbins and Cotran Pathologic Basis of Disease. 10th Ed. V. Kumar, A.K. Abbas & J.C. Aster. (2021). Elsevier.

The 9th edition is also available as an e-book through the University Library:

Robbins and Cotran Pathologic Basis of Disease (9th Ed): Online

7.2. Course Manual

The PATH2201 Student Manual will be provided online, which outlines the learning objectives for each tutorial topic and practical class. The Pathology Manual contains a large amount of valuable information that will facilitate your study.

7.3. Required readings

All required readings are sourced from Robbins Basic Pathology, 10th Ed. A list of required readings for each week will be made available via Moodle. Completing the required reading before the relevant lectures/modules/practical classes is strongly encouraged and will significantly enhance your understanding of the concepts presented.

7.4. Moodle

All relevant information relating to the course will be made available on Moodle, including PDFs for each of the tutorial and practical classes. Check the Moodle page regularly for announcements and updates to the course content. In particular, students should become familiar with the Glossary of Terms in Pathology which is available via a link on the Moodle page.

7.5. Recommended internet sites

“Images of Disease” (IOD) is a database of images used for teaching within the Department. The latest version of Images of Disease is now available online, optimised for smart phones and tablet computers, as well as Firefox, Chrome and Safari browsers on laptop or desktop computers – http://iod.med.unsw.edu.au (zID and zPass required). An interactive Images of Disease (IOD) app for iPhone and iPad is available to download from: https://itunes.apple.com/au/app/images-of-disease/id756150891?ls=1&mt=8.

You need to install the app on your device via the relevant link above. You can then unlock the full version of the app by tapping on the login button at the bottom of the screen, then entering your zID and zPass.

There are many resources available on the web, which vary from simple patient information brochures to online pathology courses to information on the latest research. Some general sites you may find useful are:

Centre for Disease Control (see especially 'health topics A-Z') http://www.cdc.gov/

University of Utah (tutorials and images on many of the topics covered)
http://library.med.utah.edu/WebPath/webpath.html

Medline Plus ('health topics' index of diseases with information)
http://www.nlm.nih.gov/medlineplus/healthtopics.html

7.6. Computer laboratories and study spaces

Students will be able to access laboratories or study spaces on campus and within the Wallace Wurth Building. Similarly, wishing to review Histopathology or Macroscopic images via the BEST Network may be able to use computers located in G06/G07 or G16/G17, Wallace Wurth Building.

Students wishing to revise macroscopic specimens (pots) may be able to access the Museum of Human Disease (TBC), on Thursdays between 2 and 4pm. Note that all students must be inducted into the Museum before access is granted. Museum induction will occur during the first Practical class.

8. Administrative matters

Student enquiries should be submitted via student portal https://portal.insight.unsw.edu.au/web-forms/

8.1. Training

In order for students to attend practical lessons or visit the Museum of Human Disease, students must first attend an induction. A museum induction will occur during the first practical class. Any student who does not attend this induction will not be permitted to participate in the practical classes or access the museum and will need to contact museum staff to schedule an induction.

8.2. Assignment submission

The Pathology Assignment is to be submitted electronically as a Word file or PDF file via Moodle. This will be subjected to a check for plagiarism using Turnitin software. Submissions must be made by 5pm on the due date.

9. Additional support for students

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