



**UNSW**  
THE UNIVERSITY OF NEW SOUTH WALES

FACULTY OF MEDICINE  
SCHOOL OF MEDICAL SCIENCES

**PATH2201 / PATH2202**

PROCESSES IN DISEASE

SEMESTER 2, 2013

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# Faculty of Medicine - Course Outline

## 1. Information about the Course

NB: Some of this information is available on the [UNSW Handbook](#)<sup>1</sup>

<b>Year of Delivery</b>	2013
<b>Course Code</b>	PATH2201 / PATH2202
<b>Course Name</b>	Processes in Disease
<b>Academic Unit</b>	School of Medical Sciences
<b>Level of Course</b>	Stage 2, Undergraduate
<b>Units of Credit</b>	6 UOC
<b>Session(s) Offered</b>	Semester 2
<b>Assumed Knowledge, Prerequisites or Co-requisites</b>	ANAT2241 plus any one of ANAT2111, ANAT1521, PHSL2101, BIOC2101/BIOC2181
<b>Hours per Week</b>	4-5 hour
<b>Number of Weeks</b>	13 weeks
<b>Commencement Date</b>	1 <sup>st</sup> Aug 2013

Summary of Course Structure (for details see 'Course Schedule')				
Component	HPW	Time	Day	Location
Lectures	2	9-11 am	Thu	Matthews A
Tutorials	1	11-12 pm or 12-1 pm	Thu	TBA
Laboratory	1-2			
Lab – Histopathology (PATH2201 students only)		2-4 pm	Tue	G06/G07
Lab – Museum (PATH2201 students only)		2-3 pm or 3-4 pm	Tue	Museum
Lab – Clinicopathological (PATH2202 students only)		2-4 pm	Tue	G08 or G16/G17
TOTAL	4-5			
Special Details	N/A			

<sup>1</sup> UNSW Online Handbook: <http://www.handbook.unsw.edu.au>

## 2. Staff Involved in the Course

Staff		Name	Contact Details
Course Convenor (PATH2201)		Mr Thuan Thai	Room 1311, level 13 Matthews Building (02) 9385 8292 <a href="mailto:Thuan@unsw.edu.au">Thuan@unsw.edu.au</a>
Course Convenor (PATH2202)		Dr Tanya Grassi	Room 1309, level 13 Matthews Building (02) 9385 3476 <a href="mailto:T.Grassi@unsw.edu.au">T.Grassi@unsw.edu.au</a>
Course Co-Convenor (PATH2201/PATH2202)		Dr Patsie Polly	(02) 9385 2924 <a href="mailto:Patsie.Polly@unsw.edu.au">Patsie.Polly@unsw.edu.au</a>
Additional Teaching Staff	Lecturers & Facilitators	A/Prof Gary Velan	(02) 9385 1278 <a href="mailto:G.Velan@unsw.edu.au">G.Velan@unsw.edu.au</a>
		Prof Nick Hawkins	(02) 9385 2540 <a href="mailto:N.Hawkins@unsw.edu.au">N.Hawkins@unsw.edu.au</a>
		Prof Rakesh Kumar	(02) 9385 2535 <a href="mailto:R.Kumar@unsw.edu.au">R.Kumar@unsw.edu.au</a>
		A/Prof Nicodemus Tedla	(02) 9385 2527 <a href="mailto:N.Tedla@unsw.edu.au">N.Tedla@unsw.edu.au</a>
		Dr Christine Van Vliet	(02) 9385 8434 <a href="mailto:C.VanVliet@unsw.edu.au">C.VanVliet@unsw.edu.au</a>
		Dr Cristan Herbert	(02) 9385 8679 <a href="mailto:C.Herbert@unsw.edu.au">C.Herbert@unsw.edu.au</a>
		Ms Gwyn Jones	(02) 9385 3394 <a href="mailto:Gwyn.Jones@unsw.edu.au">Gwyn.Jones@unsw.edu.au</a>
	Tutors & Demonstrators	TBA	
Administration Staff	Administrative Officer	Ms Soo Han Chup	(02) 9385 2528 <a href="mailto:SooHan.Chup@unsw.edu.au">SooHan.Chup@unsw.edu.au</a>
	Teaching Administrative Assistant/Student Advisor	Ms Carmen Robinson	(02) 9385 2464 <a href="mailto:Carmen.Robinson@unsw.edu.au">Carmen.Robinson@unsw.edu.au</a>
	Information Systems Administration Officer	Mr Fergus Grieve	(02) 9385 8288 <a href="mailto:F.Grieve@unsw.edu.au">F.Grieve@unsw.edu.au</a>
	Museum Manager	Mr Derek Williamson	(02) 9385 2190 <a href="mailto:Derek.Williamson@unsw.edu.au">Derek.Williamson@unsw.edu.au</a>
Consultations			
Academic and Administrative Inquiries	For administrative and general inquiries related to your attendance or the content and conduct of the course, students enrolled in PATH2201 should consult Mr Thai by email ( <a href="mailto:thuan@unsw.edu.au">thuan@unsw.edu.au</a> ) copied to Dr Polly ( <a href="mailto:patsie.polly@unsw.edu.au">patsie.polly@unsw.edu.au</a> ). Similarly, students enrolled in PATH2202 should consult Dr Grassi ( <a href="mailto:t.grassi@unsw.edu.au">t.grassi@unsw.edu.au</a> ) by email, copied to Dr Polly ( <a href="mailto:patsie.polly@unsw.edu.au">patsie.polly@unsw.edu.au</a> ). Students wishing to see their tutors or other members of staff should call the School of Medical Sciences office to make an appointment.		
Email Etiquette	<p>When emailing staff, ensure the subject line begins with PATH2201 or PATH2202, followed by the subject of the message (e.g., PATH2202 group assignment).</p> <p>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., <a href="mailto:z1234567@student.unsw.edu.au">z1234567@student.unsw.edu.au</a>), 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. Facilities for checking email are available in the School of Medical Sciences and the University library. Further information and assistance is available from IT Service Centre 9385 1333.</p>		

### 3. Course Details

<b>Course Description<sup>2</sup></b> <a href="#">(Handbook Entry)</a>	<p>Lectures, tutorials and museum study 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, regeneration and repair, infection, atherosclerosis, thrombosis, embolism and infarction. 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.</p> <p>PATH2201 / PATH2202 are 6 UOC courses, which are available in Semester 2 only. These courses are prerequisites 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. They are suitable for students who plan a career in research, hospital based laboratory work, and professions in the health sciences.</p>
<b>Course Aims<sup>3</sup></b>	<p>PATH2201 Processes in Disease / PATH2202 Processes in Disease for Health and Exercise Science have 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 courses is to introduce students to foundations of the scientific approach to the study of disease.</p> <p>The aims of the course are to:</p> <ol style="list-style-type: none"> <li>1. Understand the pathological processes that underlie common human diseases.</li> <li>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.</li> <li>3. Introduce students to the terminology of pathology, in order to facilitate communication in future health-related education, research or clinical practice.</li> <li>4. Provide a basis for understanding and interpretation of clinical scenarios students may encounter in future practice.</li> <li>5. Guide and improve students' ability to utilise appropriately the medical literature, facilitated by a scientific literacy workshop, a media assignment (see Assessment section) and the structure of tutorials.</li> </ol>
<b>Student Learning Outcomes<sup>4</sup></b>	<p>At the completion of this course, students should be able to:</p> <ol style="list-style-type: none"> <li>1. Describe the causes, pathogenic mechanisms, macroscopic and microscopic appearances and clinical consequences of common diseases affecting humans.</li> <li>2. Outline the causes, mechanisms and consequences of the following pathological processes:             <ol style="list-style-type: none"> <li>a. Acute inflammation</li> <li>b. Chronic inflammation and repair</li> <li>c. Vascular disease</li> <li>d. Neoplasia</li> </ol> </li> <li>3. Apply knowledge of pathological processes to common examples of specific human diseases, which include:             <ol style="list-style-type: none"> <li>a. Acute appendicitis</li> <li>b. Pneumonia</li> </ol> </li> </ol>

<sup>2</sup> UNSW Handbook: <http://www.handbook.unsw.edu.au>

<sup>3</sup> [Learning and Teaching Unit: Course Outlines](#)

<sup>4</sup> [Learning and Teaching Unit: Learning Outcomes](#)

	<div><div><div><div><div>c. Tuberculosis</div><div>d. Peptic ulcer disease</div><div>e. Atherosclerosis</div><div>f. Thromboembolism</div><div>g. Myocardial infarction</div><div>h. Colorectal carcinoma</div><div>i. Breast carcinoma</div></div></div><div><div>4. Understand the roles of the public media and of scientific literature in medical/scientific research and education, and be able to utilize appropriately and cite scientific literature.</div><div>5. Develop awareness of personal perspective and professional skills, and establish evidence of these skills in the form of an online portfolio (ePortfolio).</div></div></div><div><p>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.</p><p>Learning outcomes 1-3 will be assessed via Formative Online Assessment, Tutorial Quizzes, as well as an end of course examination. Learning outcome 4 is achieved through the Scientific Writing Literacy Workshop and assessed via the Media Assignment. Learning outcome 5 is achieved through the use of Mahara ePortfolio. Refer to Assessment section for further details.</p></div></div>	
Graduate Attributes Developed in this Course <sup>5</sup>		
Science Graduate Attributes <sup>5</sup>	<div>Select the level of FOCUS 0 = NO FOCUS 1 = MINIMAL 2 = MINOR 3 = MAJOR</div>	Activities / Assessment
Information acquisition, evaluation and synthesis	3	<div><div><div>Lectures, tutorials and practicals</div><div>Media Assignment</div><div>Tutorial Quizzes</div><div>ePortfolio</div></div></div>
Research, inquiry and analytical thinking abilities	3	<div><div><div>Media Assignment</div><div>Formative Online Assessment</div><div>ePortfolio</div></div></div>
Communication	2	<div><div><div>Media Assignment</div><div>Tutorials</div><div>Tutorial Quizzes</div><div>ePortfolio</div></div></div>
Teamwork, collaborative and management skills	2	<div><div><div>Tutorials</div><div>Tutorial Quizzes</div></div></div>

<sup>5</sup> Contextualised Science Graduate Attributes: <http://www.science.unsw.edu.au/our-faculty/science-graduate-attributes>

<b>Major Topics (Syllabus Outline)</b>	<p>The major topics of this course are:</p> <ul style="list-style-type: none"> <li>• Acute inflammation</li> <li>• Chronic inflammation and repair</li> <li>• Vascular disease</li> <li>• Neoplasia</li> </ul>
<b>Relationship to Other Courses within the Program</b>	<p><b>PATH2201</b> 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 Advance 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 leads to disease. PATH2201 is also a pre-requisite for Stage 3 Pathology courses.</p> <p><b>PATH2202</b> is a Stage 2 course in the Health and Exercise Science Program. It builds upon core Stage 1 subjects in Anatomy, Biochemistry, and Physiology by presenting lectures, tutorials, museum/case study sessions aimed at increasing understanding of important disease processes. There will be particular emphasis on clinical correlation with disease processes and the application of this knowledge in the discipline of Health and Exercise Science, especially as it relates to management and assessment of patients in rehabilitative therapy.</p>

#### 4. Rationale and Strategies Underpinning the Course

<b>Teaching Strategies and Rationale for learning and teaching in this course<sup>6,7</sup></b>	<p>The courses employ a variety of teaching modes in order to facilitate your learning:</p> <ol style="list-style-type: none"> <li>1. A <b>collaborative, team-based approach to learning</b>. 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.</li> <li>2. <b>Lectures</b> introduce you to pathological processes, as well as specific examples of those processes affecting organs and tissues.</li> <li>3. <b>Tutorials</b> centered 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.</li> <li>4. <b>PATH2201</b> Practical classes in the Museum of Human Diseases 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, employs computer-based virtual microscopy to illustrate the microscopic appearances of the pathological processes described in lectures and Museum classes. This allows correlation between disease processes, changes in cells and tissues at the microscopic level, and the manifestations of disease.</li> <li>5. <b>PATH2202</b> Clinicopathological correlation practical classes employ an integrated approach to learning about disease processes with reference to specific case studies, related macroscopic and relevant microscopic specimens. Rehabilitation issues that relate to the disease process will also be addressed.</li> <li>6. A <b>Scientific Writing Literacy Workshop Series</b> aimed at fostering student graduate attributes in writing communication in science.</li> <li>7. <b>ePortfolio</b> encourages students to proactively document professional skills acquired throughout the duration of this course.</li> <li>8. Learning is supported via Blackboard. Announcements, timetables, lecture slides, links to online progress assessments, science writing literacy skills focus guide</li> </ol>
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<sup>6</sup>[Reflecting on your teaching](#)

	<p>and other resources will be made available during the course.</p> <p>9. The PATH2201/PATH2202 Student Manual contains specific learning objectives for each lecture, tutorial, practical class and Museum study session, together with the course timetable and useful background information.</p>
<p><b>Difference between PATH2201 and PATH2202</b></p>	<p>PATH2201 and PATH2202 have common lectures and weekly tutorials. The key difference between the courses is in the structure of the weekly Practical Sessions.</p> <ul style="list-style-type: none"> <li>• <b>PATH2201</b> students attend alternating weekly Histopathology Sessions and Museum Sessions.</li> <li>• <b>PATH2202</b> students attend a weekly Clinicopathological Correlation Session, which includes some Histology and Museum specimens, but with more emphasis on the clinical setting of the disease and the relevance to Exercise Physiology.</li> </ul>



## 5. Course Schedule

Some of this information is available on the [Online Handbook](#)<sup>7</sup> and the [UNSW Timetable](#)<sup>8</sup>.

Week	Date	Time	Location	Lecturer	Topic
1	Thu 1/8	9 L	Mat A	Polly/Grassi/Thai	Introduction to Pathology
		10 L	Mat A	Hawkins	Concepts and Classification of Disease
2	Tue 6/8	2-4 P	Museum and G06/G07	Grassi/Thai	<b>Practical/Museum Induction</b>
	Thu 8/8	9 L	Mat A	Kumar	Responses to Injury
		10 W	Mat A	Jones/Polly/Thai	Science Writing Literacy I (Media Assignment)
3	Tue 13/8	2-4 P	Museum	Gibson/Fenton	<b>Practical 1 PATH2201</b> Group A: Museum session I (Introduction to macroscopic specimens)
			G06/G07	Velan	Group B: Histopathology session I (Introduction to Histopathology and using Virtual Microscopy)
			G08 and G16/G17	Grassi/Scheuer	<b>Practical 1 PATH2202</b> Clinicopathological correlation (Introduction)
	Thu 15/8	9 L	Mat A	Velan	Acute Inflammation
		10 L	Mat A	Velan	Appendicitis as an example of Acute Inflammation
		11-1 T	see allocation	see allocation	<b>Tutorial 1:</b> Classification of Disease/ Response to Injury
4	Tue 20/8	2-4 P	G06/G07	Kumar	<b>Practical 2 PATH2201</b> Group A: Histopathology session I (Introduction to Histopathology and using Virtual Microscopy)
			Museum	Gibson/Fenton	Group B: Museum session I (Introduction to macroscopic specimens)
			G08 and G16/G17	Grassi/Scheuer	<b>Practical 2 PATH2202</b> Clinicopathological correlation II (Acute Appendicitis)
	Thu 22/8	9 L	Mat A	Velan	Pneumonia as an example of Acute Inflammation
		10 L	Mat A	Jones/Polly/Thai	Science Writing Literacy II
		11-1 T	see allocation	see allocation	<b>Tutorial 2 (Quiz 1):</b> Acute Inflammation I (Appendicitis)
5	Tue 27/8	2-4 P	Museum	Gibson/Fenton	<b>Practical 3 PATH2201</b> Group A: Museum session II (Acute Inflammation)
			G06/G07	Kumar	Group B: Histopathology session II (Acute Inflammation)
			G08 and G16/G17	Grassi/Scheuer	<b>Practical 3 PATH2202</b> Clinicopathological correlation III (Acute Bronchopneumonia)
	Thu 29/8	9 L	Mat A	Tedla	Immune System ("acquired" defects)
		10 L	Mat A	Polly	Chronic Inflammation I
		11-1 T	see allocation	see allocation	<b>Tutorial 3:</b> Acute Inflammation II (Pneumonia)

<sup>7</sup> UNSW Virtual Handbook: <http://www.handbook.unsw.edu.au>

<sup>8</sup> UNSW Timetable: <http://www.timetable.unsw.edu.au/>

6	Tue 3/9	2-4 P	G06/G07  Museum  G08 and G16/G17	Kumar  Gibson/Fenton  Grassi/Scheuer	<b><u>Practical 4 PATH2201</u></b> Group A: Histopathology session II (Acute Inflammation) Group B: Museum session II (Acute Inflammation) <b><u>Practical 4 PATH2202</u></b> Clinicopathological correlation IV (Peptic Ulcer Disease)
	Thu 5/9	9 L	Mat A	Polly	Chronic Inflammation II
		10 L	Mat A	Jones/Polly/Thai	Science Writing Literacy III
		11-1 T	see allocation	see allocation	<b>Tutorial 4 (Quiz 2):</b> Chronic Inflammation I (Peptic Ulceration)
<b>Formative Online Assessment available (week 1/4)</b>					
7	Tue 10/9	2-4 P	Museum  G06/G07  G08 and G16/G17	Gibson/Agarwal  Kumar  Grassi/Thai	<b><u>Practical 5 PATH2201</u></b> Group A: Museum session III (Chronic Inflammation) Group B: Histopathology III (Chronic Inflammation) <b><u>Practical 5 PATH2202</u></b> Clinicopathological correlation V (Tuberculosis)
	Thu 12/9	9 L	Mat A	Tedla	Healing and Repair
		10 L	Mat A	Velan	Thrombosis, embolism, infarction I
		11-1 T	see allocation	see allocation	<b>Tutorial 5:</b> Chronic Inflammation II (Tuberculosis)
<b>Formative Online Assessment available (week 2/4)</b>					
8	Tue 17/9	2-4 P	G06/G07  Museum  G08 and G16/G17	Kumar  Gibson/Agarwal  Grassi/Thai	<b><u>Practical 6 PATH2201</u></b> Group A: Histopathology III (Chronic Inflammation) Group B: Museum session III (Chronic Inflammation) <b><u>Practical 6 PATH2202</u></b> Clinicopathological correlation VI (Osteomyelitis; Fractured Tibia)
	Thu 19/9	9 L	Mat A	Velan	Thrombosis, embolism, infarction II
		10 L	Mat A	Kumar	Diabetes
		11-1 T	see allocation	see allocation	<b>Tutorial 6 (Quiz 3):</b> Healing and repair (Appendectomy Wound)
<b>Formative Online Assessment available (week 3/4)</b>					
<b>Media Assignment due midday (12:00 noon) Monday September 23</b>					
9	Tue 24/9	2-4 P	Museum  G06/G07  G08 and G16/G17	Gibson/Agarwal  Hawkins  Grassi/Thai	<b><u>Practical 7 PATH2201</u></b> Group A: Museum session IV (Vascular Disease) Group B: Histopathology session IV (Vascular Disease) <b><u>Practical 7 PATH2202</u></b> Clinicopathological correlation VII (Deep Vein Thrombosis)
	Thu 26/9	9 L	Mat A	Thai	Atherosclerosis
		10 L	Mat A	Van Vliet	Abnormal Growth
		11-1 T	see allocation	see allocation	<b>Tutorial 7:</b> Venous Thrombosis (Post-Operative Deep Vein Thrombosis)
<b>Formative Online Assessment available (week 4/4)</b>					

Mid-Semester Break 28/9/13 to 7/10/13

10	Tue 8/10	2-4 P	G06/G07	Hawkins	<b>Practical 8 PATH2201</b> Group A: Histopathology session IV (Vascular Disease) Group B: Museum session IV (Vascular Disease)
			Museum	Gibson/Agarwal	<b>Practical 8 PATH2202</b> Clinicopathological correlation VIII (Ischemic Heart Disease; Diabetes)
			G08 and G16/G17	Grassi/Scheuer	
	Thu 10/10	9 L	Mat A	Hawkins	Neoplasia I
		10 L	Mat A	Hawkins	Neoplasia II
		11-1 T	see allocation	see allocation	<b>Tutorial 8 (Quiz 4):</b> Atherosclerosis; Peripheral Vascular Disease (Myocardial Infarction)
11	Tue 15/10	2-4 P	Museum	Gibson/Fenton	<b>Practical 9 PATH2201</b> Group A: Museum session V (Disorders of Growth) Group B: Histopathology V (Disorders of Growth)
			G06/G07	Hawkins	<b>Practical 9 PATH2202</b> Clinicopathological correlation IX (Colorectal Carcinoma)
			G08 and G16/G17	Grassi/Scheuer	
	Thu 17/10	9 L	Mat A	Grassi	Examples of common Malignant Tumours I
		10 L	Mat A	Grassi	Examples of common Malignant Tumours II
		11-1 T	see allocation	see allocation	<b>Tutorial 9:</b> Disorders of Growth I (Colonic Masses)
<b>ePortfolio due midday (12:00 noon) Monday October 21</b>					
12	Tue 22/10	2-4 P	G06/G07	Hawkins	<b>Practical 10 PATH2201</b> Group A: Histopathology V (Disorders of Growth) Group B: Museum session V (Disorders of Growth)
			Museum	Goh/Fenton	<b>Practical 10 PATH2202</b> Clinicopathological correlation X (Breast Carcinoma)
			G08 and G16/G17	Grassi/Scheuer	
	Thu 24/10	9 L			No Lecture
		10 L			No Lecture
		11-1 T	see allocation	see allocation	<b>Tutorial 10 (Quiz 5):</b> Disorders of Growth II (Breast Lumps)
13	Tue 29/10	2-4 P	G06/G07	Hawkins	<b>Practical 11 PATH2201</b> Group A/B: Histopathology session VI (Revision) Group A/B: Museum session VI (Revision)
			Museum	Goh/Fenton	<b>Practical 11 PATH2202</b> Clinicopathological correlation XI (Revision)
			G08 and G16/G17	Grassi/Scheuer	
	Thu 31/10	9 L	Mat A	Grassi/Thai/ Polly/Jones	Course Feedback
		10 L	Mat A	Kumar	Revision
		11-1 T	see allocation		<b>Tutorial 11:</b> Revision

NB. Lectures may be subject to change

## 6. Assessment Tasks and Feedback

Task	Knowledge & abilities assessed	% of total mark	Date of		Feedback		
			Release	Submission	WHO	WHEN	HOW
Tutorial Quizzes	<p>Knowledge of the causes, pathogenic mechanisms, macroscopic and microscopic appearances and clinical consequences of common diseases affecting humans.</p> <p>Knowledge of causes, mechanisms and consequences of pathological processes, including: acute inflammation, chronic inflammation, vascular diseases and neoplasia.</p> <p>Apply knowledge of the aforementioned pathological processes to common examples of specific human diseases, including: acute appendicitis, pneumonia, tuberculosis, peptic ulcer disease, atherosclerosis, thromboembolism, myocardial infarction, colorectal carcinoma and breast carcinoma.</p>	15%	Various (See timetable)	Various (See timetable)	Tutor	During tutorials	Verbally
Media Assignment	Awareness of the roles of public media and scientific literature in medical/scientific research and education, and the ability to utilise and cite scientific literature at an academic standard.	20%	Aug 8	Sep 23	Assessing Tutor	Oct 17	In writing
Formative Online Assessment	Same as Tutorial Quizzes	5%	Sep 9	Oct 6		At the end of each attempt	Electronically
ePortfolio	Reflection on course content and assessments, and draw links to personal and professional development.	5%	Aug 1	Oct 21	Polly/Thai	Oct 31	Verbally
End of course examination	Same as Tutorial Quizzes	55%	TBA	TBA			

<sup>10</sup> Approaches to assessment: <http://teaching.unsw.edu.au/assessment>

## 7. Additional Resources and Support

<b>Text Books</b>	<p>You are expected to acquire the following text: <i>Basic Pathology</i>, 9<sup>th</sup> Ed. V. Kumar, R. Cotran &amp; S Robbins (2012). Elsevier Saunders. This text is available as an e-book through the University Library.</p> <p><a href="http://er.library.unsw.edu.au/er/cgi-bin/eraccess.cgi?url=http://www.mdconsult.com/books/page.do?eid=4-u1.0-B978-1-4377-1781-5..C2009-0-63010-5&amp;isbn=978-1-4377-1781-5&amp;sid=1303897497&amp;uniqlid=332140871-6">http://er.library.unsw.edu.au/er/cgi-bin/eraccess.cgi?url=http://www.mdconsult.com/books/page.do?eid=4-u1.0-B978-1-4377-1781-5..C2009-0-63010-5&amp;isbn=978-1-4377-1781-5&amp;sid=1303897497&amp;uniqlid=332140871-6</a>.</p> <p>Students wishing to study the molecular biology or clinical features of diseases in greater depth might consider the purchase of the following text: <i>Robbins and Cotran Pathologic Basis of Disease</i>. 8<sup>th</sup> Ed. V. Kumar, A.K. Abbas &amp; N. Fausto. (2009). Elsevier Saunders.</p>
<b>Course Manual</b>	<p>The PATH2201 / PATH2202 Student Manuals will be provided at the Introductory lecture, 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. In particular, you should become familiar with the Glossary of Terms and the Table of Reference Ranges in Pathology.</p> <p>There are separate manuals for PATH2201 and PATH2202, the difference being the Practical Guide component. This reflects the different practical classes attended by the two cohorts, where PATH2201 students attend alternating Histopathology and Museum sessions, while PATH2202 students attend Clinicopathological Correlative classes.</p>
<b>Required Readings</b>	<p>All required readings are sourced from Robbins Basic Pathology, 9<sup>th</sup> Ed. A list of required readings for tutorial quizzes will be made available via Blackboard at the start of Semester 2.</p>
<b>Recommended Internet Sites</b>	<p>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:</p> <p>Centre for Disease Control (see especially 'health topics A-Z') <a href="http://www.cdc.gov/">http://www.cdc.gov/</a></p> <p>University of Utah (tutorials and images on many of the topics covered) <a href="http://library.med.utah.edu/WebPath/webpath.html">http://library.med.utah.edu/WebPath/webpath.html</a></p> <p>Medline Plus ('health topics' index of diseases with information) <a href="http://www.nlm.nih.gov/medlineplus/healthtopics.html">http://www.nlm.nih.gov/medlineplus/healthtopics.html</a></p>
<b>Computer Laboratories or Study Spaces</b>	<p>Students wishing to revise Macroscopic specimens (pots) can access the Museum of Human Disease, 9 am – 5 pm, Mon – Fri. Note that all students must be inducted into the Museum before access is granted. Museum induction will occur during the Practical/Museum Induction lesson on Aug 6.</p> <p>Student wishing to review Histopathology via Virtual Slides can access G06/G07, Wallace Wurth West Building.</p>

## 8. Required Equipment, Training and Enabling Skills

<b>Equipment Required</b>	There are no specific equipment required for PATH2201 / PATH2202.
<b>Enabling Skills Training Required to Complete this Course</b>	In order for students to attend Practical lessons or personal revision in the Museum of Human Diseases, students must first attend an induction. Museum induction will occur during the Practical/Museum Induction lesson on Aug 6. Any student who does not attend this induction will not be permitted into the Museum, and will need to contact Mr Thai or Dr Grassi to schedule an induction with the Museum staff.

## 9. Course Evaluation and Development

Student feedback is gathered periodically by various means. Such feedback is considered carefully with a view to acting on it constructively wherever possible. This course outline conveys how feedback has helped to shape and develop this course.

<b>Mechanisms of Review</b>	<b>Last Review Date</b>	<b>Comments or Changes Resulting from Reviews</b>
<b>Major Course Review</b>	June 2013	<p>Last year Mahara ePortfolio was introduced to the course as part of a program-wide study to improve graduate attributes and promote career readiness for Science and Medical Science students at UNSW. This task offer students the opportunity to analyse and reflect on their progression through the course and draw insights on how the course content can be useful in future studies and career development. Students who progress to 3<sup>rd</sup> year Pathology courses and continue to utilise ePortfolio have demonstrated deeper understanding of course content and developed a better appreciation for their personal and professional development, including: transferrable skills (e.g., communication, leadership and teamwork) and work-related skills. This component has since been increased from 2.5% to 5% of the course mark.</p> <p>In 2011, a group presentation assessment was introduced to further enhance student understanding of the pathological processes in human diseases that lead to macroscopic changes and clinical presentations, and to foster student team building and communication skills. In this assessment students were asked to give a 5-10 min presentation and produce a 1-page handout summarising key information for an allocated disease. Student reviews have noted that this assessment task was particularly difficult and the demand in effort/time to produce a quality presentation and handout did not match the 5% weighting of the assessment task. Subsequently in 2012, this assessment was revised to only include the 1-page handout. While students found the task rewarding for both team building and revising the allocated disease, staffs found that the overall quality was only average. This component has now been removed and the marks assigned to the final exam.</p>
<b>CATEI<sup>11</sup></b>	Nov 2012	PATH2201 / PATH2202 survey students via the UNSW CATEI system each time the courses are offered. The data collected provides anonymous feedback from students on the quality of the course content and materials, tutorial facilitation and practical facilitation. Student feedback is taken into consideration in all course revisions.

		<p>This course has consistently received positive student reviews for being challenging, engaging and interesting. Students have also commented that the lecture series are well organised, with clear transition between topics and that tutorials and practical components are well integrated with the lecture series. Students have also enjoyed the interactive environment of the team-based tutorials. Although some students have found the Media Assignment to be demanding, most have found the experience to be insightful and useful for future studies and work, and understanding the role of scientific media publications.</p>
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11 CATEI process: <http://www.science.unsw.edu.au/our-faculty/course-and-teaching-evaluation-and-improvement-catei>

## 10. Administration Matters

<b>Expectations of Students</b>	<p><b>Students are expected to attend 80% of the Tutorials in order to sit the end of course exam.</b> A courtesy email will be sent to alert students who are absent for 2 tutorials. Students missing more than 2 tutorials will be required to contact the Course Convenor (PATH2201: Mr Thai or PATH2202: Dr Grassi) to discuss their eligibility to sit the exam.</p>		
<b>Assignment Submissions</b>	<p>The Media Assignment is to be submitted electronically as a Word file via Blackboard, and will be subjected to a check for plagiarism using Turnitin software. Students must also submit a hard copy to the BSB Student Office (located at Room G27, Ground Floor, Biological Sciences Building) together with a cover sheet, clearly stating:</p> <ul style="list-style-type: none"> <li>• Your name,</li> <li>• Your student number,</li> <li>• Your tutor's name.</li> </ul> <p>Student ePortfolio are to be exported as a "standalone HTML Website" using the export option in Mahara. This will compress all the relevant Pages/Collections into a ZIP file, which is to be emailed to Dr Polly and Mr Thai.</p> <p><b>Late submissions will attract a penalty of 10% of the total mark per day or part thereof.</b> Keeping to a deadline is part of the assessment. In exceptional circumstances, where a student has missed at least 3.5 weeks of university during the period of the assignment AND have documents to this effect AND have notified the Course Co-Convenor (Dr Polly) in writing at least 2 weeks before the deadline, some concession may be offered and is provided on a case-by-case basis.</p>		
<b>Occupational Health and Safety<sup>12</sup></b>	<p>Refer to The Museum of Human Disease below.</p> <p>For more information on matters related to occupational and health safety policies of the UNSW visit the following web site: <a href="http://www.ohs.unsw.edu.au/ohs_policies/index.html">http://www.ohs.unsw.edu.au/ohs_policies/index.html</a></p>		
<b>Equity and Diversity</b>	<p>Students who have a disability that requires some adjustment in their teaching or learning environment are encouraged to discuss their study needs with the Course Convenor prior to, or at the commencement of, their course, or with the Equity Officer (Disability) in the Equity and Diversity Unit (9385 4734 or <a href="http://www.studentequity.unsw.edu.au/">http://www.studentequity.unsw.edu.au/</a> <a href="http://www.equity.unsw.edu.au/disabil.html">http://www.equity.unsw.edu.au/disabil.html</a>).</p>		
<b>Student Complaint Procedure<sup>14</sup></b>	<b>School Contact</b>	<b>Faculty Contact</b>	<b>University Contact</b>
	<p>Dr Priti Pandey SOMS Grievance Officer (02) 9385 2483 <a href="mailto:P.Pandey@unsw.edu.au">P.Pandey@unsw.edu.au</a></p>	<p>Prof Nick Hawkins Head of School (02) 9385 2540 <a href="mailto:N.Hawkins@unsw.edu.au">N.Hawkins@unsw.edu.au</a></p>	<p>Student Conduct and Appeals Officer (SCAO) within the Office of the Pro-Vice-Chancellor (Students) and Registrar.</p> <p>(02) 9385 8515 <a href="mailto:studentcomplaints@unsw.edu.au">studentcomplaints@unsw.edu.au</a></p> <p>University Counselling and Psychological Services<sup>9</sup> (02) 9385 5418</p>

<sup>12</sup> [UNSW OHS Home page](#)



## 11. The Museum of Human Disease

The Donald Wilhelm Museum of Human Disease is located on the ground floor of the Samuels Building (Building F25). Originally located on the 5<sup>th</sup> floor of the Wallace Wurth Building, it was established by Professor Donald Wilhelm, the Foundation Professor of Pathology at this university. Thanks to his foresight, and to the tireless efforts of Dr G. Higgins (the Museum Curator until 2004), the Museum has been meticulously maintained and updated over the years to reflect the changing patterns of disease in our society. The Museum contains over 2,700 specimens (or “pots”), which display diseased human tissue at the macroscopic level, usually preserved in formalin. Specimens are obtained both from organs removed surgically and from tissue obtained at autopsy, where the natural history of disease is in full view. **Please take note that some specimens of diseases which have become rare, e.g. diphtheria, are over 60 years old, and are irreplaceable.** Each specimen is numbered and is accompanied by a clinical history (when known), a macroscopic description of the abnormalities displayed, and a histopathological description of changes at the microscopic level (where relevant). That information, specific to each of thirty areas (or “bays”), can be found in the Museum catalogues located in a bracket within each bay. All the specimens in the museum are arranged in one of two major groups. One group comprises collections of specimens according to pathological processes such as congenital, inflammation and healing, vascular, neoplasia etc. The second group comprises collections of specimens under organ systems, such as cardiovascular, central nervous, renal etc. As responsible adults, we expect you to maintain decorum in the Museum, behave with care and respect for the integrity of the specimens, and help to keep the Museum tidy at all times. This means no eating or drinking in the Museum, and always returning specimens and catalogues to their allocated places. **Do not shake the pots!** This activity conveys no useful information, but often damages the specimens. If you discover that a specimen is leaking or broken, follow the instructions listed in the safety notice below. **Remember that the Museum is a precious learning resource, of which you are encouraged to make full use.**

<b>Security in the Museum</b>	<p><b>It is a crime under the Human Tissue Act to steal or mistreat material preserved in the Museum or practical class laboratories. Anyone who contravenes the Act will be prosecuted.</b></p> <p>In order to protect the collection of specimens, access to the Museum is restricted for students in 3<sup>rd</sup> and 4<sup>th</sup> Year Medicine and PATH2201/PATH2202 during weekdays from 8 a.m. to approximately 8 p.m. The Museum is security locked, and can only be entered by using your student card to enable the doors to be opened. Mr Williamson and Ms Cato play a supervisory role during office hours. The Museum and practical class laboratories are under constant electronic surveillance.</p>												
<b>Safety in the Museum</b>	<ul style="list-style-type: none"> <li>Always handle museum specimens with care and respect. All specimens consist of generously donated human tissue.</li> <li>Specimens are preserved in Perspex and contain a range of preserving chemicals that may be harmful. Chemicals used include <b>formalin, pyridine, sodium dithionate</b>. A full list of chemicals and associated MSDS information is available in the H&amp;S Station and on the SoMS website.</li> </ul> <table border="1" data-bbox="628 1509 1404 1733"> <thead> <tr> <th>Chemical</th><th>Max. Percentage Composition</th></tr> </thead> <tbody> <tr> <td>Glycerol</td><td>17 (v/v)</td></tr> <tr> <td>Pyridine</td><td>0.8 (v/v)</td></tr> <tr> <td>Sodium Acetate</td><td>7 (w/v)</td></tr> <tr> <td>Formalin</td><td>&lt;2 (v/v)</td></tr> <tr> <td>Sodium Dithionate</td><td>0.4 (w/v)</td></tr> </tbody> </table> <ul style="list-style-type: none"> <li>For reasons of hygiene, never take food or drink into the museum.</li> <li>Never leave a museum specimen on the floor, or in any precarious position.</li> <li>If a specimen is leaking, turn it upside down to prevent further leakage, then immediately inform Museum staff or a member of academic staff.</li> <li>If a specimen is broken, do not attempt to wipe up the spillage. Use the kitty litter provided in the central cupboards to absorb the fumes, then clear the area and immediately inform Museum staff or a member of academic staff.</li> <li>Remember that the museum is here for your benefit – your cooperation in maintaining neatness and safety at all times is appreciated.</li> </ul>	Chemical	Max. Percentage Composition	Glycerol	17 (v/v)	Pyridine	0.8 (v/v)	Sodium Acetate	7 (w/v)	Formalin	<2 (v/v)	Sodium Dithionate	0.4 (w/v)
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## 12. UNSW Academic Honesty and Plagiarism

### What is Plagiarism?

Plagiarism is the presentation of the thoughts or work of another as one's own.

\*Examples include:

- direct duplication of the thoughts or work of another, including by copying material, ideas or concepts from a book, article, report or other written document (whether published or unpublished), composition, artwork, design, drawing, circuitry, computer program or software, web site, Internet, other electronic resource, or another person's assignment without appropriate acknowledgement;
- paraphrasing another person's work with very minor changes keeping the meaning, form and/or progression of ideas of the original;
- piecing together sections of the work of others into a new whole;
- presenting an assessment item as independent work when it has been produced in whole or part in collusion with other people, for example, another student or a tutor; and
- claiming credit for a proportion a work contributed to a group assessment item that is greater than that actually contributed.†

For the purposes of this policy, submitting an assessment item that has already been submitted for academic credit elsewhere may be considered plagiarism.

Knowingly permitting your work to be copied by another student may also be considered to be plagiarism.

Note that an assessment item produced in oral, not written, form, or involving live presentation, may similarly contain plagiarised material.

The inclusion of the thoughts or work of another with attribution appropriate to the academic discipline does *not* amount to plagiarism.

The Learning Centre website is main repository for resources for staff and students on plagiarism and academic honesty. These resources can be located via:

[www.lc.unsw.edu.au/plagiarism](http://www.lc.unsw.edu.au/plagiarism)

The Learning Centre also provides substantial educational written materials, workshops, and tutorials to aid students, for example, in:

- correct referencing practices;
- paraphrasing, summarising, essay writing, and time management;
- appropriate use of, and attribution for, a range of materials including text, images, formulae and concepts.

Individual assistance is available on request from The Learning Centre.

Students are also reminded that careful time management is an important part of study and one of the identified causes of plagiarism is poor time management. Students should allow sufficient time for research, drafting, and the proper referencing of sources in preparing all assessment items.

\* Based on that proposed to the University of Newcastle by the St James Ethics Centre. Used with kind permission from the University of Newcastle

† Adapted with kind permission from the University of Melbourne