



THE UNIVERSITY OF
NEW SOUTH WALES

Faculty of Medicine

School of Medical Sciences

PATH 3206

Cancer Pathology (6 UOC)

UNSW COURSE OUTLINE

SEMESTER I, YEAR III

**PATH3206 Cancer Pathology
Course Outline
2012**

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PATH3206 Cancer Pathology

Integrated Timetable 2012

Week	Date	Time	Location	Lecturer	Title
2	6/03/2012	10	Mathews 102	van Vliet	Lecture - Introduction & revision of neoplasia
		11	Mathews 102	van Vliet	Lecture - Regulation of cell cycle
	6/03/2012	4 5	WW G2/G4	van Vliet	Practical - Neoplasia & regulation of cell cycle
3	13/03/2012	10	see allocated	see allocated	Tutorial - Neoplasia
		11	Mathews 102	van Vliet	Lecture - Viral Carcinogenesis
	13/03/2012	4 5	WW G2/G4	Kumar	Practical - Histopathology of neoplastic tissue
4	20/03/2012	10	Biomed E	Stewart	Lecture - Carcinogenesis I
		11	Biomed E	Stewart	Lecture - Carcinogenesis II
	20/03/2012	4 5	Museum	van Vliet	Practical - Poster Project
5	27/03/2012	10	Biomed E	Hawkins	Lecture - Colorectal carcinogenesis I
		11	Biomed E	Hawkins	Lecture - Colorectal Carcinogenesis II
	27/03/2012	4 5	WW G2/G4	Hawkins	Practical - Colorectal carcinogenesis I
6	3/04/2012	10	see allocated	see allocated	Tutorial - Carcinogenesis
		11	Biomed E	Dziegielewski	Lecture - Prostate carcinoma
	3/04/2012	4 5	WW G2/G4	Hawkins	Practical - Colorectal carcinogenesis II
MID SESSION BREAK					
7	17/04/2012	10	see allocated	see allocated	Tutorial - Colorectal carcinogenesis
		11	Biomed E	van Vliet	Lecture - Cervical carcinogenesis
	17/04/2012	4 5	WW G2/G4	van Vliet	Practical - Cervical carcinogenesis
8	24/04/2012	10	see allocated	see allocated	Tutorial - Cervical carcinogenesis
		11	Biomed E	Velan	Lecture - Skin neoplasms
	24/04/2012	4 5	WW G2/G4	Hawkins	Practical - Skin neoplasms
9	1/05/2012	10	see allocated	see allocated	Tutorial - Skin neoplasms
		11	Mathews 102	van Vliet	Lecture - Upper GI neoplasms
	1/05/2012	4 5	WW G2/G4	van Vliet	MID SESSION EXAMINATION
10	8/05/2012	10	see allocated	see allocated	Tutorial - Upper GI neoplasms
		11	Mathews 102	van Vliet	Lecture - Breast carcinoma
	8/05/2012	4 5	WW G2/G4	van Vliet	Practical - Breast carcinoma
11	15/05/2012	10	see allocated	see allocated	Tutorial - Breast carcinoma
		11	Biomed E	Kumar	Lecture - Pulmonary neoplasms
	15/05/2012	4	WW G2/G4	Kumar	Practical - Pulmonary neoplasms

		5			
12	22/05/2012	10	see allocated	see allocated	Tutorial - Pulmonary neoplasms
		11	Mathews 102	van Vliet	Lecture - Midsession exam feedback
	22/05/2012	4	WW G2/G4	van Vliet	Poster presentations
		5			
13	29/05/2012	10	Biomed E	Lindeman	Lecture - Lymphoma & leukaemia
		11	Biomed E	Velan	Lecture - Intracranial neoplasms
	29/05/2012	4	WW G2/G4	van Vliet	PRACTICAL EXAMINATION
		5			

Pathology Teaching Laboratory

Student Risk Assessment

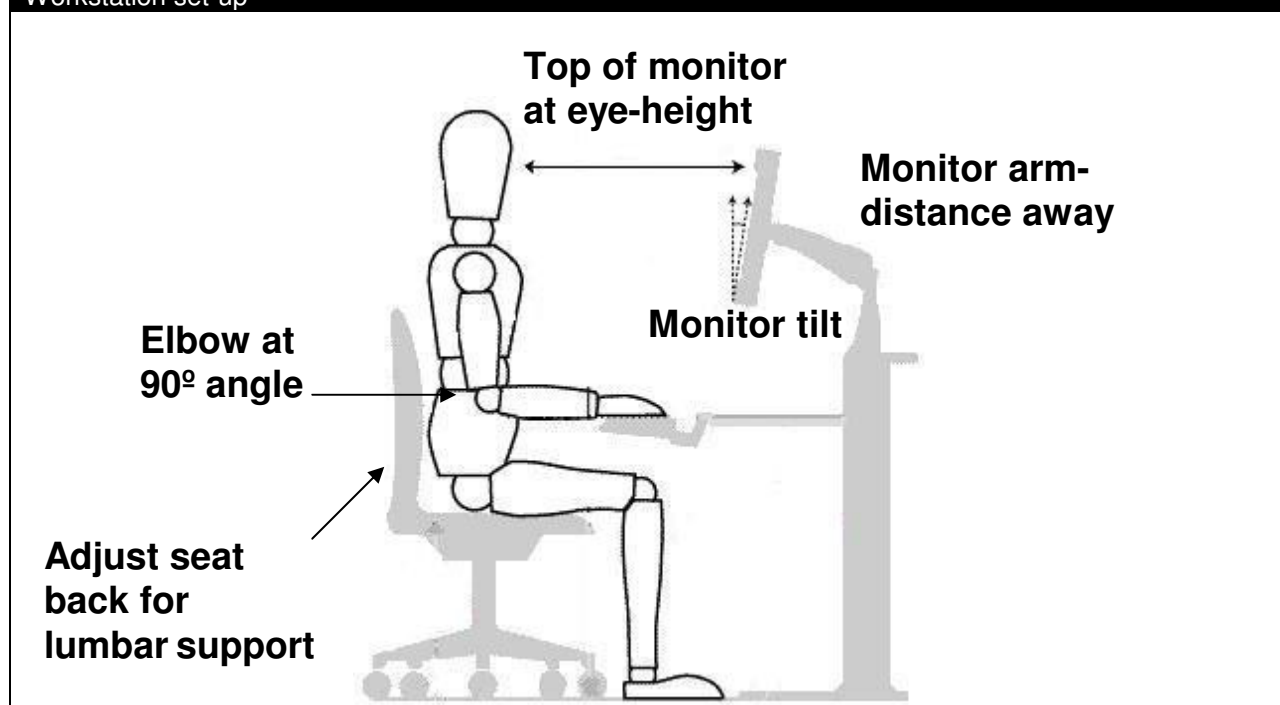


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Pathology practicals in G2/G4
& 106/108 & 109/110 in
Wallace Wurth

Hazards	Risks	Controls
Ergonomics	Musculoskeletal pain.	Correct workstation set-up.
Electrical	Electrical shock/fire	Check electrical equipment in good condition before use. All portable electrical equipment tested and tagged.
Handling pots	Chemical spillage	Instructions on correct manual handling of pots

Workstation set-up



Manual handling of pots

- All pots contain real human tissue that has been generously donated to medical science and **must be treated with appropriate respect and dignity.**
- Specimens are preserved in Perspex and contain a range of preserving chemicals that may be harmful. Chemicals used include **formalin, pyridine, sodium dithionate.** A full list of chemicals and associated MSDS information is available in the H&S Station and on the SoMS website.

MANUAL HANDLING OF POTS

1. It is recommended that all students wash their hands thoroughly as they leave practical class. Chemical residues may be present on pots.
2. **Carry one pot at a time.** Use two hands at ALL TIMES and support the base of pot.
3. **Avoid rough handling and/or tilting of pots.** This can cause leaking joints or tear tissue in specimen.
4. Limit the number of pots on a table at any one time.

SPILLS AND LEAKAGES

If a specimen is leaking or broken, do not attempt to wipe up the spillage. Clear the area and immediately inform a member of academic staff or the Museum Manager. A spill kit will then be used to absorb the fumes.

Personal Protective Equipment

Not necessary in these practicals.
Enclosed shoes must be worn to all Practicals.

Emergency Procedures

In the event of an alarm, follow the instructions of the demonstrator. The initial sound is advising you to prepare for evacuation and during this time start packing up your things. The second sound gives instruction to leave. The Wallace Wurth assembly point is in the lawn in front of the Chancellery. In the event of an injury inform the demonstrator. First aiders and contact details are on display by the lifts. There is a first aid kit in the laboratory and the Wallace Wurth security office.

Clean up and waste disposal

Spill kit

Declaration

I have read and understand the safety requirements for this practical class and I will observe these requirements.

Signature:.....Date:.....

Student Number:.....

Staff contacts in the Department of Pathology

Name	<i>Title</i>	<i>Telephone</i>	<i>E-mail/Location</i>
Dr Christine van Vliet	Lecturer and PATH3206 Convener, Department of Pathology	9385-8434	C.vanVliet@unsw.edu.au Rm 1506 lvl 15 Mathews Bldg In office: Mon, Tues and Wed
A/Prof Gary Velan	Head Dept of Pathology	9385-1278	G.Velan@unsw.edu.au
Prof Nicholas Hawkins	Professor of Pathology and Head of School of Medical Sciences	9385-2540	N.Hawkins@unsw.edu.au
Prof Denis Wakefield	Professor, Department of Pathology	9385-2531	D.Wakefield@unsw.edu.au
Prof Rakesh Kumar	Professor, Department of Pathology	9385-2535	R.Kumar@unsw.edu.au
Prof Andrew Lloyd AM	Professor, Department of Pathology	9385-2534	A.Lloyd@unsw.edu.au
Prof Carolyn Geczy	Professor, Department of Pathology	9385-2777	C.Geczy@unsw.edu.au
A/Prof Nicodemus Tedla	Assoc Professor, Department of Pathology	9385-2527	N.Tedla@unsw.edu.au
Dr Shane Thomas	Senior Lecturer, Department of Pathology	9385-2582	Shane.Thomas@unsw.edu.au
Dr Patsie Polly	Senior Lecturer, Department of Pathology	9385-2924	Patsie.Polly@unsw.edu.au
Dr Tanya Grassi	Lecturer, Department of Pathology	9385-3476	T.Grassi@unsw.edu.au
Dr Simone Van Es	Lecturer, Department of Pathology	9385-1620	S.VanEs@unsw.edu.au
Dr Mark Dziegielewski	Lecturer, Department of Pathology	9385-1286	M.Dziegielewski@unsw.edu.au
Dr Betty Kan	Lecturer, Department of Pathology	9385-8292	B.Kan@unsw.edu.au

Technical and support staff

You may also meet the following members of the School support staff during the course of the year:

Ms Soo Han Chup

Position: Administrative Officer

Location: Administrative Wing, Room G3 Ground floor Wallace Wurth Building

Ms Chup is responsible for the distribution of Pathology manuals and Images of Disease CD-ROMs to students, and will assist in arranging interviews with academic staff within the Department.

Ms Carmen Robinson

Position: Student Advisor

Location: Room G27 Biosciences building

Ms Robinson is responsible for general administration and student support within the School of Medical Sciences.

Mr Derek Williamson

Position: Museum Manager

Location: Room G04 Ground Floor Samuels Building, Building F25

Mr Williamson provides support for all undergraduate teaching programs. He plays a major role in broadening the use of the Museum of Human Disease by supervising an integrated learning program for senior high school students and community interest groups. Mr Williamson co-ordinates a network of volunteers, who assist with the supervision of visitors from outside the University. Contact Mr Williamson if there are any broken or leaking specimens in the Museum.

Ms Bridget Murphy and Ms Ruth Miller

Position: Museum Education Officers

Location: Room G04 Ground Floor Samuels Building, Building F25

Ms Murphy and Ms Miller provides support for all undergraduate teaching programs, and assists in delivering an integrated learning program for senior high school students and community interest groups.

Mr Fergus Grieve

Position: SOMS Web, TELT and Information System Administrator

Location: Administrative Wing, Room G3 Ground floor Wallace Wurth Building

Mr Grieve maintains materials uploaded to *Blackboard*. Please contact Ms Hu if you have any inquiries related to PATH3206 online resources, including lectures, assignments, timetables and communications.

PATH3206 Cancer Pathology

Introduction and Credit Points

Welcome to PATH3206 Cancer Pathology (previously Molecular Basis of Disease B). This course is offered during semester 1 and counts for six units of credit. PATH2201/2 (Processes in Disease) is a prerequisite for the course. This course complements PATH3208 Cancer sciences: Research Design, Measurement and Evaluation offered in semester 2.

PATH3206 aims to promote understanding of recent advances in the pathogenetic mechanisms underlying neoplasia. There is detailed discussion of molecular carcinogenesis, the metastatic process and techniques for diagnosis. Topics covered include neoplasia of the colon, breast, prostate, oesophagus, stomach, skin, lung cervix and lymphoma and leukaemia.

To understand these processes, you will draw on your knowledge of normal anatomy, histology, biochemistry and physiology.

The UNSW Handbook contains information for students wishing to undertake a major in Pathology.

For those wishing to pursue a career in research or hospital based laboratory work, the course will not only develop their basic knowledge of molecular processes, but also provide a framework for understanding how these processes link to the modern practice of medicine. Similarly, for those who may wish to pursue a career in the health sciences, the course will provide an understanding of the cellular and molecular processes underlying the clinical manifestations of neoplasia.

The staff of the Department of Pathology join us in wishing you a rewarding semester 1.

Dr Christine van Vliet (PATH3206 Convener)

Course administration

Administrative and general problems related to your attendance, or the content and conduct of the course, can in the first instance be addressed by consulting Dr Christine van Vliet (c.vanvliet@unsw.edu.au) or Dr Mark Dziegielewski (m.dziegielewski@unsw.edu.au) by e-mail. Students wishing to see other members of staff should call in at the School office (ground floor) and **make an appointment** with the assistance of the staff. If students have difficulties of a personal nature, they should contact the School's Grievance Officer, Dr P. Pandey, or Prof Nick Hawkins, the Head of School.

Should you feel that there are particular circumstances that have affected your performance in the course; you should lodge an application for special consideration. The procedures involved in this are outlined in the UNSW Student Guide, and special forms are widely available on campus e.g. Student Health Centre, Student Centre.

Information on the different research units in the Department of Pathology and the research interests of each staff member is available at Department of Pathology's home page at <http://medicalsciences.med.unsw.edu.au/>

Official communication by email

All students in course PATH3206 are advised that email is the official means by which the School of Medical Sciences at UNSW will communicate with you. All email messages will be sent to your official UNSW email address (e.g., z1234567@student.unsw.edu.au). Students must use their official UNSW email address for all correspondence. 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 in the University library. Further information and assistance is available from DIS-Connect, Tel 9385 1777. The UNSW Library runs free email courses.

Resources for students

Recommended text

You are expected to acquire the following text:

Robbins Basic Pathology. 8th edition. V. Kumar, A.K. Abbas, N. Fausto & R.N. Mitchell (2007). Saunders & Co.

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. 8th edition. V. Kumar, A.K. Abbas & N. Fausto. (2010) Elsevier Saunders.

PATH 3206 Blackboard

Students enrolled in PATH3206 will be able to access the timetable, lecture notes and related information via [Blackboard](http://telt.unsw.edu.au): <http://telt.unsw.edu.au>

Images of disease (IOD) database

This database is a collection of images used for teaching within the Department. The latest version is available online, optimized for smart phones and tablet computers as well as Firefox 4+, Chrome 13+ and Safari browsers on laptop or desktop computers-<http://iod.med.unsw.edu.au>. The following information might help you understand more about the IOD.

What you get

- Over 3000 images relevant to your study as an undergraduate. Many of these images represent specimens from the Museum of Human Disease, or histopathological images from the student histopathology slide sets. Accompanying x-rays and images of surgical and autopsy specimens are also available.
- A database that links them all together
- A user interface that lets you access the images in a variety of ways

What you do not get

- A collection of images that you can send to your friends, put in your magazines, put on the Internet or whatever other scheme seems clever at the time.
Many of the images used in this program are of a sensitive nature, and are intended for the purpose of private study by pathology students and graduates. You should exercise appropriate standards of professional ethics when using them.
- A program that will run on every computer
 Your computer must meet the minimal requirements or you will have trouble.
- A high level of technical support
 Unfortunately, it will be impossible for us to answer all your problems immediately, as we have very limited resources. We will of course make every effort to help, and will provide you with a listing of known problems and difficulties on request.

Interactive images of disease

This is a collection of “hotspotted” images from the Department’s database on the Museum of Human Disease page. Images containing clickable “hotspots” allow identification of the normal features and pathological changes within each specimen. At present this is a limited selection, intended for the education of senior high school students and interested members of the public. Hence the accompanying clinical histories, descriptions and comments are written in plain English, with an emphasis on the prevention of these diseases.

The Museum of Human Disease page contains links to some excellent undergraduate and postgraduate educational resources, of which we would encourage you to make full use.

The address is: “<http://web.med.unsw.edu.au/pathology/pathmus/>”.

Additional learning resources

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

Medline Plus (‘health topics’ index of disease with information)

<http://www.nlm.nih.gov/medlineplus/healthtopics.html>

University of Iowa (on-line histological slides on many of the topics covered)

http://www.path.uiowa.edu/virtualslidebox/nlm_histology/

http://www.path.uiowa.edu/virtualslidebox/iowa_histopathology/index.html

The Cancer Council New South Wales

<http://www.nswcc.org.au/>

The NSW Cancer Institute

<http://www.cancerinstitute.org.au/>

National Cancer Institute

<http://www.cancer.gov/>

Research opportunities

Opportunities exist for all students wishing to undertake undergraduate and postgraduate research programs within the School of Medical Sciences. Information can be accessed via the Faculty of Medicine directory for the School of Medical Sciences at:

<http://medicallsciences.med.unsw.edu.au/somsweb.nsf/page/Research>

Student support services

Those 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 convener prior to, or at the commencement of, their course, or with the Equity Officer (Disability) in the Equity and Diversity Unit at <https://my.unsw.edu.au/student/atoz/Disability.html>. Issues to be discussed may include access to materials, note-takers, the provision of services and additional exam and assessment arrangements. Early notification is essential to enable any necessary adjustments to be made.

Course evaluation and development

Student evaluative feedback on the course is gathered each year using UNSW's Course and Teaching Evaluation and Improvement (CATEI) Process. Student feedback is taken seriously, and continual improvements are made to the course based in part on such feedback.

Student learning outcomes and graduate attributes

For the following common disorders:

- Neoplasms of the colon, breast, prostate, stomach, oesophagus, skin, lung cervix and lymphoma and leukaemia.

At the completion of this course you should be able to:

1. Describe and explain the molecular and cellular pathogenetic mechanisms;
2. Describe the macroscopic and microscopic appearances;
3. Correlate the clinical features with the underlying pathogenetic mechanisms;
4. Discuss recent advances in knowledge pertaining to the molecular pathogenesis;
5. Develop written and oral skills in scientific communication.
6. Develop skills in collaborative teamwork

You are encouraged to develop the following Graduate Attributes by undertaking the learning activities in this course. These attributes will be assessed within the prescribed assessment tasks (see Assessment):

1. Scholars who are understanding of their discipline in its interdisciplinary context.
2. Scholars who are able to apply their knowledge and skills to problem-solving.
3. Scholars who are capable of effective communication
4. Leaders who are collaborative and effective team workers

Learning and Teaching approach.

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 team quizzes, peer teaching and team projects. You are also encouraged to utilise your allocated teams as study groups.
- 2) A series of **lectures** introduce you to pathological processes, as well as specific examples of those processes affecting organs and tissues;
- 3) **Tutorials** are intended to extend and amplify your understanding of material presented in lectures in an interactive format, where you are encouraged to clarify any difficulties regarding the concepts discussed. Students will be allocated into teams and will complete individual and team quizzes and work collaboratively on interpretation of clinical problems and/or investigation results. Pre-reading will be assigned for each tutorial;
- 4) **Practical classes** employ computer-based virtual microscopy, in order to permit correlation between disease processes, changes in cells and tissues at the microscopic level and the manifestations of disease. Practical classes will reinforce the clinico-pathological correlations associated with each topic. They are intended to help you to acquire the ability to recognize the macroscopic and microscopic features of pathology specimens and to relate the pathology to clinical application. Macroscopic "pots" will be generally used in conjunction with projected microscopic slides, x-rays and other materials;
- 5) Learning is supported via **Blackboard**. Announcements, timetables, lecture slides and other resources will be made available during the course.

Prize

A prize will be awarded for Cancer Pathology:

1. Best team performance in tutorial quizzes (based on both team and individual scores)

Assessment

Students will undertake multiple forms of assessment during semester:

- Online progress assessment x 2 5% (2x2.5%)
- Individual and team performance in tutorial quizzes 15% (6 x 2.5%)
- Mid-session examination (objective items + short answer) 10%
- Team project: poster and oral defence 20%
 - *Team member peer evaluation* 5%
 - *Academic staff evaluation* 15%
- Practical examination 10%
- Final examination (short answers) 40%

Team project: Poster and oral defence

Each team will be given a set of specimens, which illustrate pathological changes which may occur as a result of a neoplasm or set of predisposing factors.

The students are to **create a poster which:**

1. Briefly describes the macroscopic specimens
2. Describes how the specimens are linked e.g. all specimens may be related to the same cause or the specimens may be complications of a primary condition
3. Explains the underlying pathobiological mechanisms of the disease(s) present
4. Relates the pathobiological mechanisms to the clinical manifestations

Particular emphasis on explaining the pathobiological mechanisms should be made. Students should read their Robbins textbook and journal review articles.

Each group will have 10 minutes to present an **oral defence** of their poster. The spokesperson for the group (nominated by the students themselves) should deliver an overview of the poster in the first 2-3 minutes and in the remaining time all members of each group must 'defend' their poster to a Department of Pathology staff member.

The aim of the group project is to provide an in-depth understanding of the pathobiological mechanisms of individual neoplasms. The project will encourage students to think critically and engage in problem solving in order to determine the interrelatedness of pathological specimens. The presentation and oral defence will enhance students' skills in effective communication and teamwork.

SEMESTER I

Week 4: Students allocated into groups of five. The specimens for the group project will be allocated to each group during the practical class.

Week 11: **Group poster due electronically no later than 5pm Tuesday 15/5/2012.** Posters must be submitted electronically as a PowerPoint slide, using the poster submission icon on the PATH3206 Blackboard website. In addition the text of the posters must be submitted as a separate, fully referenced Word document, using the Turnitin icon on the PATH3206 Blackboard website, no later than 5pm Tuesday 15/5/2012, (see Submission of Team project).

Week 12: Team poster presentation and oral defence semester.

Assessment criteria

Team member peer evaluation

Each student in the Team will complete an online evaluation form for each member of their Team. The student's peer evaluation will be marked out of 5 and will contribute 5% of the final course mark. The mark will be an average of all the Team members' assessments of the student. The Team member peer evaluation form is available for completion on the PATH3206 Blackboard website.

Team member peer evaluation form

Student name and student ID:

Team number:

Assessor's name and student ID:

Place a cross in the appropriate mark box for each of the five criteria listed. Total the score at the bottom of the table. Please justify your marks in the comments section.

	0	0.5	1.0
1. Participation in the planning of the presentation			
2. Execution of allocated tasks effectively and on time			
3. Attendance to meetings called on by Team members			
4. Contribution to Team discussion			
5. Scientific quality of contribution			

TOTAL: /5

Comments:

Team poster and oral defence evaluation

Teams will be marked on their presentations by staff members from the Department of Pathology according to the following criteria:

- 1) The Team gives a macroscopic description of the specimens and demonstrates an understanding of the interrelatedness of the specimens.
- 2) The Team demonstrates an understanding of the underlying pathobiological mechanisms leading to the disease(s) present in the specimens and relates these to the clinical manifestations.
- 3) The Team demonstrates an ability to utilize the current medical literature to support their arguments.
- 4) The poster shows a high standard of design and effectively communicates key concepts to the audience.
- 5) Team members answer questions clearly and directly.

The presentation will be marked out of 15 and will contribute 15% of the final mark for the course. For **each** of the above objectives, marks will be distributed as follows:

- | | |
|--------------------------------------------------------------------------------|---|
| • Did not address the objective | 0 |
| • Attempted to address the objective but did not achieve satisfactory standard | 1 |
| • Satisfactorily addressed the objective | 2 |
| • Addressed the objective well | 3 |

Submission of Team project

Posters must be submitted electronically as a PowerPoint slide, using the poster submission icon on the PATH3206 Blackboard website **no later than 5pm Tuesday 15/5/2012**.

In addition the text of the posters must be submitted as a separate fully referenced Word document, using the Turnitin icon on the PATH3206 Blackboard website **no later than 5pm Tuesday 15/5/2012**. Figures, diagrams and tables used in the poster must also be referenced in the Word document. All posters will be assessed for plagiarism by use of Turnitin software. Please use the American Psychological Association (APA) referencing style (see http://info.library.unsw.edu.au/biomed/skills/direct/Info_Skills_Docs/apa/apa1.htm).

IMPORTANT: The PowerPoint slide and word document must have PATH3206 and the Team number in the filename eg PATH3206_Team1.ppt and PATH3206_Team1.doc

Late Team projects

Students will be penalised 5% of the mark for each day the poster is late. **Posters submitted later than 5pm Monday 21/5/2012 will receive a zero grade.**

Academic honesty and plagiarism

The Department of Pathology will not tolerate plagiarism in submitted written work. The University regards this as academic misconduct and imposes severe penalties. Evidence of plagiarism in submitted assignments, etc. will be thoroughly investigated and may be penalised by the award of a score of zero for the assessable work. Flagrant plagiarism will be directly referred to the Division of the Registrar for disciplinary action under UNSW rules.

<https://my.unsw.edu.au/student/academiclife/assessment/AcademicMisconductStudentMisconduct.html>

Your attention is drawn to the following extract from the above website:

“The basic principles are that you should not attempt to pass off the work of another person as your own, and it should be possible for a reader to check the information and ideas that you have used by going to the original source material. Acknowledgment should be sufficiently accurate to enable the source to be located speedily. If you are unsure whether, or how, to make acknowledgement consult your lecturer.

The following are some examples of breaches of these principles:

- a) Quotation without the use of quotation marks. It is a serious breach of these rules to quote another’s work without using quotation marks, even if one then refers to the quoted source. The fact that it is quoted must be acknowledged in your work.

- b) Significant paraphrasing, e.g. several sentences, or one very important sentence, which in wording are very similar to the source. This applies even if the source is mentioned, unless there is also due acknowledgment of the fact that the source has been paraphrased.

- c) Unacknowledged use of information or ideas, unless such information or ideas are commonplace.

- d) Citing sources (e.g. texts) which you have not read, without acknowledging the ‘secondary’ source from which knowledge of them has been obtained.

These principles apply to both text and footnotes of sources. They also apply to sources such as teaching materials, and to any work by any student (including the student submitting the work) which has been or will be otherwise submitted for assessment. You must obtain the prior approval of your lecturer if you wish to submit to that lecturer an essay substantially similar to one which has already been, or will be, submitted to another lecturer.

Tutorial Quizzes

There will be six quizzes held in the tutorial sessions consisting of MCQs. Each tutorial quiz will be undertaken by the individual student and then by the team. Each individual quiz is worth 1.25% and each team quiz is worth 1.25%. Pre-reading for the quizzes is specified in the tutorial outlines of the manual. Students need to provide a reason to Dr van Vliet for a missed tutorial via email. If the reason is approved then the student will receive the average of their team's individual quiz mark and the team mark. If the reason is not approved the student will receive zero for both the individual and team quiz however the team will not be penalised.

Online progress assessments

Two online progress assessments (each worth 2.5% of the final mark) consisting of MCQs will be provided. These assessments are to be completed during the 10 days in which each is available (**an announcement will be made on Blackboard when they become available**). These assessments encourage independent and reflective learning as the student may attempt the assessment as often as they wish, within the time allowed, until they receive a satisfactory score (>90%). Students will receive 2.5% of the final mark for satisfactory completion of each assessment.

Mid-session examination

A **mid-session exam in Week 9** (10% of the final mark) consisting of MCQs and short answer questions, will be conducted. The examination will include material covered in Weeks 1-8 of PATH3206. The skills achieved by mastering the online progress assessment will be assessed in this exam. The short answer questions are preparation for the end of course exam.

Practical examination

A **practical examination in Week 13** (10% of the final mark), will be conducted. This will consist of a series of stations each with questions based on material presented during the practical sessions and lectures.

Final written examination

A **2-hour end of course examination** (40% of the final mark) which will comprise **four** short-answer / essay style questions. The questions assess all the learning outcomes. This exam encourages an in-depth engagement with pathology within a clinical context. The questions vary in style; some questions may have two parts.

Missed exams

If in any circumstances you unavoidably miss an examination, you must inform the Registrar and also contact the relevant Course Office immediately. Normally, if you miss an exam (without medical reason) you will be given an absent fail. If you arrive late for an exam no time extension will be granted. It is your responsibility to check timetable and ensure that you arrive with sufficient time.

Supplementary examination

A supplementary examination may be awarded at the discretion of the Department of Pathology to students who have provided evidence for special consideration according to the UNSW guidelines. The deferred exam may include a significant oral element. Students who believe that they are eligible for further assessment must contact Dr van Vliet to seek further information. It is intended that supplementary exams for the School of Medical Sciences in Semester 1, 2012 will be held in the week commencing Monday 9th July, 2012.

Medical certificates

If you miss any examination for medical reasons you must lodge a medical certificate with New South Q within **3 DAYS** (refer to UNSW Student Gateway@ www.student.unsw.edu.au for further details). **Special considerations sought outside the 3 day time period WILL NOT be accepted except in TRULY exceptional circumstances.**

Attendance requirements

Attendance at tutorials and practical sessions is compulsory. An 80% attendance is required for you to be eligible to sit the final examination. Students need to provide a reason to Dr van Vliet for a missed tutorial via email. If the reason is approved then the student will receive the average of their team's individual quiz mark and the team mark. If the reason is not approved the student will receive zero for both the individual and team quiz however the team will not be penalised.