

Graduate School of Nursing, Midwifery & Health



www.victoria.ac.nz/nmh/

Faculty of Humanities and Social Sciences

HLTH 502: Applied Pathophysiology

30 points

Trimester 2 2014

Course Coordinator: Dr Brian Robinson

Important Dates

Trimester dates: 14 July to 16 November 2014

Mid-trimester break: 25 August to 7 September 2014

Withdrawal dates: Refer to www.victoria.ac.nz/students/study/withdrawals-refunds. If you cannot complete an assignment or sit a test or examination, refer to www.victoria.ac.nz/students/study/exams/aegrotats.

IMPORTANT NOTICE

The Graduate School of Nursing, Midwifery & Health at Victoria University of Wellington, uses all reasonable skill and care in an effort to ensure the information and course content information contained in this outline is accurate at the time of going to print.

Students should be aware, however, that in the event course timetables and venues need to be changed, all attempts will be made to notify the students.

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Section 1: Operational Information

Course Coordinator & Contact Details

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Riddiford St, Newtown
Wellington 6021

Office Hours

The Graduate School office will be open Monday 6 January 2014 and close on Friday 19 December 2015 from 9.00am – 4.00pm weekdays.

In keeping with the practice of other years, academic staff will not be available on Fridays, except for the times they are involved in Schools. Please contact the course coordinator directly either by telephone or email should you wish to make an appointment or discuss course related issues.

School Timetable

1st School

Dates: Monday 14 and Tuesday 15 July 2014

Times: 9am – 5pm daily

Venue: CS801, Level 8, Clinical Services Building, Wellington Regional Hospital, Riddiford St, Newtown, Wellington

2nd School

Dates: Monday 8 and Tuesday 9 September 2014

Times: 9am – 5pm daily

Venue: CS801, Level 8, Clinical Services Building, Wellington Regional Hospital, Riddiford St, Newtown, Wellington

3rd School

Dates: Friday 3 October 2014

Times: 9am – 5pm

Venue: CS801, Level 8, Clinical Services Building, Wellington Regional Hospital, Riddiford St, Newtown, Wellington Section 2: Academic Requirements

Section 2: Academic Requirements

Communication of Additional Information

All course information and information on changes that occur during the course will be conveyed to students via Blackboard or student Victoria University of Wellington email.

Course Prescription

Pathophysiological states confronted by advanced clinicians are explored in relation to current theoretical frameworks and emerging evidence. This course provides a foundation for clinical decisions related to interventions, management and expected outcomes of pathophysiological states across the lifespan.

Course Content

This programme is suitable for all health practitioners who have an involvement in patient/ client care. The course consists of five school days focussing on different body systems and disease processes from birth, adolescence and adulthood. These school days will provide a combination of pathophysiology and specialist area expertise to enable health practitioners to apply pathophysiological processes to their clinical context.

- Central concepts of pathophysiology:-
 - Cellular biology
 - Mechanisms of disease
 - Mechanisms of defence
- Pulmonary system
- Cardiovascular and lymphatic systems
- Renal and urological systems
- Endocrine system
- Digestive system
- Neurological system
- Musculoskeletal system
- The reproductive system
- Cultural variations in disease incidence and prevalence

Course Learning Objectives

This course has been designed to facilitate development of advanced knowledge of the human body during disease and illness. The course is designed for all health professionals to develop an understanding of the physiological mechanisms and interactions, which when disrupted or altered, present as acute and chronic dysfunction in patients who could otherwise be healthy. This course meets the requirements for the Nursing Council of New Zealand competencies for Nurse Practitioner Practice Programmes (NCNZ, 2008).

By the end of this course students will be able to:

1. Demonstrate advanced knowledge and comprehension of human pathophysiology
2. Analyse responses related to complex pathophysiological processes
3. Apply knowledge of selected disease processes within specific specialty areas across the lifespan

Teaching Format

This course is delivered via 3 face-to-face seminar type “schools” at the Graduate School of Nursing Midwifery & Health. The days will be a mix of lectures, small group activities and tests. A distance component supported by Blackboard forms part of the course and supports student achieving their learning objectives.

Nursing Council of New Zealand nurse practitioner competencies this course meets (NCNZ 2008)

The learning objectives meet the following Nurse Practitioner Scope of Practice competency:

- 1.1 Practices within a nursing model to apply advanced nursing practice in the provision of health care services to client/population groups.
- 2.1 Demonstrates accountability for practice in relation to the population/client group and the parameters of practice within healthcare settings.
- 2.2 Demonstrates advanced practice in direct client care within a range of contexts and situations.
- 2.4 Demonstrates confident and independent practice that is based on the synthesis of theory and practice knowledge from nursing and other disciplines.
- 2.5 Uses a formal approach to monitor and evaluate client responses to interventions.

Mandatory Course Requirements

In addition to achieving an overall pass mark of 50%, students must:

1. Attend all Schools unless under special circumstances prior arrangements have been made with the course coordinator.
2. Complete all pieces of assessment.

Workload

As a guide each 30-point course at the Graduate School requires students to allocate approximately 10 hours per point for self-directed study, research, assessments and attendance at Schools. Consequently 300 hours should be spread evenly over the 12 week trimester, break, study week and exam period.

This course comprises approximately 40 hours of course contact time for lectures and tests. The amount of time you should notionally assign to the completion for each of the assignments is as follows:

1. Assignment Number One: Written test one (30%): 80 hours
2. Assignment Number Two: Written test two (30%): 80 hours
3. Assignment Number Three: Case example (40%): 100 hours

Blackboard Information

Students enrolling for this course will need access to the Victoria flexible learning system (Blackboard) via the Internet.

Blackboard is an online environment that supports teaching and learning at Victoria by making course information, materials and learning activities available online via the internet. Blackboard provides web-based access to course content, assessment, communication and collaboration tools. Instructions for using this will be provided as part of timetable during the 1st School. Students will need to be able to access the Internet on a regular basis.

The following software, which is necessary for using material on Blackboard, is freely available to download from the internet if you don't already have it:

- Netscape Communicator v 4.78 or higher (v. 7.1 recommended) OR
- Microsoft Internet Explorer v. 5.2.x or higher
- MS Windows 2000 or XP/ MacOS 9 or Mac OS X.2 or higher

Other software: Adobe Acrobat Reader - free download from <http://www.adobe.com/products/acrobat/>

Microsoft Office or Microsoft Viewers. The viewers can be downloaded free of charge from: <http://www.microsoft.com/office/000/viewers.asp>

Computer skills required:

- Internet browsing skills
- Basic word processing skills

How to log onto Blackboard

- Open a web browser and go to myVictoria.ac.nz
- Enter your account username which you can find in your *Confirmation of Study* sheet
- It is usually made up of 6 letters of your last name and 4 letters of your first name
- Enter your password. If you have never used Victoria computer facilities your initial password is your student ID number
- Click on the Blackboard icon
- Alternatively, if you want to access Blackboard without going through the myVictoria portal, just log on at <http://blackboard.vuw.ac.nz>

Off Campus access

Blackboard is available from any location where you can access the Internet. This may be your home, work or an Internet café.

Problems with access? Contact ITS service desk **04 463 5050**

Section 3: Assessment Information

Assessment consists of two tests and one case example assignment. The two tests are each worth 30% of the assessment. The case example assignment provides 40% of the assessment.

The two tests are each of 90 minutes in duration and closed book. The tests are sat during the second and third schools.

The case example assignment is based on one of three clinical cases provided. The clinical cases are structured to reflect the clinical experience and expertise of students. This allows students to explore their understanding of applied pathophysiology.

Marking criteria for each assessment will be posted on Blackboard.

Assessment items and workload per item		%	CLO(s)	Due date
1	Written Test one	30%	1	9 September 2014
2	Written Test two	30%	1, 2, 3	3 October 2014
3	Case Example	40%	1, 2, 3	17 October 2014

Assignment Number One

Assignment Name: **Written test one**

Test Date: 9 September 2014

Test Time: 9.00am-10.40am

This written test is worth 30% of your final grade.

This assessment should demonstrate your understanding of normal anatomy and physiological processes of different body systems that underpin advanced pathophysiological processes across the lifespan.

The written test comprise a series of short answer questions in relation to cellular and organ systems function and the effects of dysfunction and disease.

You are required to answer four questions from a possible six. Each question is designed to test your knowledge of physiological function in health and key pathophysiological concepts. Students must undertake the test on the set date or a fail will be awarded.

Students who are prevented by some **unexpected exceptional circumstance** beyond their control from undertaking the test at the scheduled time must contact the Course co-ordinator immediately to discuss the possibility of special arrangements.

Students who are prevented from completing the test due to significant illness must produce a medical certificate to indicate that they are medically unfit to sit the test. This certificate must be dated within 48 hours of the course test.

This assignment assesses the following course learning objective:

1. Demonstrate advanced knowledge and comprehension of human pathophysiology.

Assignment Number Two

Assignment Name: **Written test two**
Test Date: 3 October 2014
Test Time: 10.00am – 11.40am

This assignment is worth 30% of your final grade.

The purpose of this test is for the student to demonstrate their knowledge of pathophysiological processes in relation to different body systems.

The written test comprises of a series of short answer questions in relation to a patient's history, presenting signs and symptoms, and disease sequelae.

You are required to answer four questions from a possible six. Each question is designed to test your knowledge of key pathophysiological concepts related to a particular patient history and presentation. Students must undertake the test on the set date or a fail will be awarded.

Students who are prevented by some **unexpected exceptional circumstance** beyond their control from undertaking the test at the scheduled time must contact the Course co-ordinator immediately to discuss the possibility of special arrangements.

Students who are prevented from completing the test due to significant illness must produce a medical certificate to indicate that they are medically unfit to sit the test. This certificate must be dated within 48 hours of the course test.

This assignment addresses the course learning objectives:

1. Demonstrate advanced knowledge and comprehension of human pathophysiology
2. Analyse responses related to complex pathophysiological processes
3. Apply knowledge of selected disease processes within specific specialty areas across the lifespan

Assignment Number Three

Assignment Name: **Case Example**

Due Date: **5.00pm Friday 17 October 2014**

Word limit: **3000 words**

This assignment is worth 40% of your final grade.

You will be provided with three case examples. You will select one of these case examples. In this assignment you are to identify and describe molecular and cellular mechanisms that have become altered or disrupted in the disease or disorder and how these contribute to the presentation of this case example. You should discuss how the pathophysiological processes are responsible for the clinical presentation of this patient, the significance of clinical signs and symptoms and the physiological basis of patient care.

The case examples will be available shortly after the commencement of the course. These can be found on the Assignment Portal on Blackboard

This assignment addresses the following course learning objectives:

1. Demonstrate advanced knowledge and comprehension of human pathophysiology
2. Analyse responses related to complex pathophysiological processes
3. Apply knowledge of selected disease processes within specific specialty areas across the lifespan

Submission

This assignment is to be submitted electronically through Blackboard using the Turnitin portal. This is in the assignment section of the portal.

Submission and Return of Work

For submission details, please see individual assessment items. Student coursework assignments submitted by the due date will normally be returned with feedback within three weeks of the due date.

Extensions and Penalties

Extensions

An extension to a deadline will only be considered where there are extenuating circumstances. An application for an extension must be made by you in writing/e-mail to the course coordinator at least 24 hours before the due date. When communicating your request you must include the following information:

- Name, student number and contact details
- Course code
- Date of submission and request date for new submission
- Reason for extension request

Upon receipt of your request, course coordinators may grant an extension of up to 2 weeks. Any further request for an extension may require Head of School approval.

Penalties

Late assignments or assignments with extensions may be subject to delays in marking and may not receive comprehensive feedback.

A penalty will be incurred for late submission of work **where no prior arrangement** has been made as follows:

- Work submitted up to 7 days after the due date without an extension will receive a 2 grade penalty. For example a B+ to a B-.
- Work submitted 8-14 days after the due date without an extension will receive a 4 grade penalty. For example a B+ to a C.
- Work submitted more than 15 days late without an extension will not be marked and will receive an 'E' (fail) grade.

Other marking penalties

Assignments may also be penalised for poor presentation and for exceeding the word limit.

Section 4: Additional Information

Required Texts

Porth, C. M., & Grossman, S. (2013). *Porth's Pathophysiology: Concepts of altered health states* (9th ed.). Philadelphia: Lippincott Williams and Wilkins.

You will be required to work from the required text in preparation for and during school days.

Textbooks may be purchased from the vicbooks website: www.vicbooks.co.nz.

Copies may also be obtained online from <http://www.fishpond.co.nz/> or <http://www.amazon.com/>

Recommended Readings

Craft, J., Gordon, C., & Tiziani, A. (2011). *Understanding pathophysiology*. St Louis: Mosby Elsevier

McCance, K. L., & Huether, S. E. (2009). *Pathophysiology: The biological basis for disease in adults and children* (6th ed.). St Louis: Mosby Elsevier.

McCance, K. L., & Huether, S. E. (2009). *Study guide for pathophysiology: The biological basis for disease in adults and children* (6th ed.). St Louis: Mosby Elsevier.

Stables, D., & Rankin, J. (2010) *Physiology in childbearing* (3rd ed.). London: Elsevier.

Pre-Readings

Links to articles will be made available via Blackboard.

Recommended Websites

The point learning system

<http://thepoint.lww.com/porth8e>

This website is an online student learning resource to accompany your required text.

Additional links to recommended websites will be updated throughout year and made available via Blackboard.

Student Feedback

Enhancements made to this course, based on the feedback of previous students, will be covered during the course.

Student feedback on University courses may be found at

www.cad.vuw.ac.nz/feedback/feedback_display.php.

Other Important Information

The information above is specific to this course. There is other important information that students must familiarise themselves with, including:

- Academic Integrity and Plagiarism: www.victoria.ac.nz/students/study/exams/integrity-plagiarism
- Aegrotats: www.victoria.ac.nz/students/study/exams/aegrotats
- Academic Progress: www.victoria.ac.nz/students/study/progress/academic-progress (including restrictions and non-engagement)
- Dates and deadlines: www.victoria.ac.nz/students/study/dates
- FHSS Student and Academic Services Office: www.victoria.ac.nz/fhss/student-admin
- Grades: www.victoria.ac.nz/students/study/progress/grades
- Resolving academic issues: www.victoria.ac.nz/about/governance/dvc-academic/publications
- Special passes: www.victoria.ac.nz/about/governance/dvc-academic/publications
- Statutes and policies including the Student Conduct Statute: www.victoria.ac.nz/about/governance/strategy
- Student support: www.victoria.ac.nz/students/support
- Students with disabilities: www.victoria.ac.nz/st_services/disability
- Student Charter: www.victoria.ac.nz/learning-teaching/learning-partnerships/student-charter
- Student Contract: www.victoria.ac.nz/study/apply-enrol/terms-conditions/student-contract
- Subject Librarians: <http://library.victoria.ac.nz/library-v2/find-your-subject-librarian>
- Turnitin: www.cad.vuw.ac.nz/wiki/index.php/Turnitin
- University structure: www.victoria.ac.nz/about/governance/structure
- Victoria graduate profile: www.victoria.ac.nz/learning-teaching/learning-partnerships/graduate-profile
- VUWSA: www.vuwsa.org.nz