

INTRODUCTION TO PATHOLOGY 2420A – PATHOLOGY FOR NURSING STUDENTS

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Pathology 2420a is an introductory survey course of pathology - the study of disease. The objectives of this course are to give you some of the descriptive vocabulary and medical terminology used to describe disease and disease processes and a basic understanding of disease processes, their mechanisms, and the connection between clinical signs and symptoms and underlying pathology.

The course is being given to both Fanshawe College and UWO nursing students concurrently as an online course. That means that YOU determine when and how much time you spend on the course. A weekly guide to the material is provided in the Calendar and you will be responsible for taking a weekly Quiz on that material to keep you on track in your studies (quizzes are worth 20% of your final mark). In addition a weekly tutorial will be held on each campus to answer your questions about the material and to highlight areas of particular relevance.

The course will begin with general pathology - an introduction to processes such as injury, inflammation & repair, immunity, and neoplasia that are common to many organ systems. The second half of the course will discuss diseases of specific organ systems - systemic pathology - and how each of these basic pathological processes are seen in that organ system.

LEARNING RESOURCES

Course Notes: These are available online through the OWL site at Western University.

Logging on to OWL – go to <https://owl.uwo.ca/portal>

Text: The **required text** for this course is "Robbins Basic Pathology", 10th edition by Kumar et al published in 2017. It is available at the Western and Fanshawe College bookstores. On the Objectives page of each lesson module you are given the page numbers of the text that are relevant and correspond to the material in your notes.

A medical dictionary such as Dorland's or Stedman's Pocket Medical Dictionary is often helpful for students new to medical terminology. A link to a **glossary of medical terms** will be included on the OWL site.

Login to OWL using your Western name and password. Fanshawe College students you will need to login with your UWO/Western user name and password as well (you should have received these last year for access to your Physiology course material).

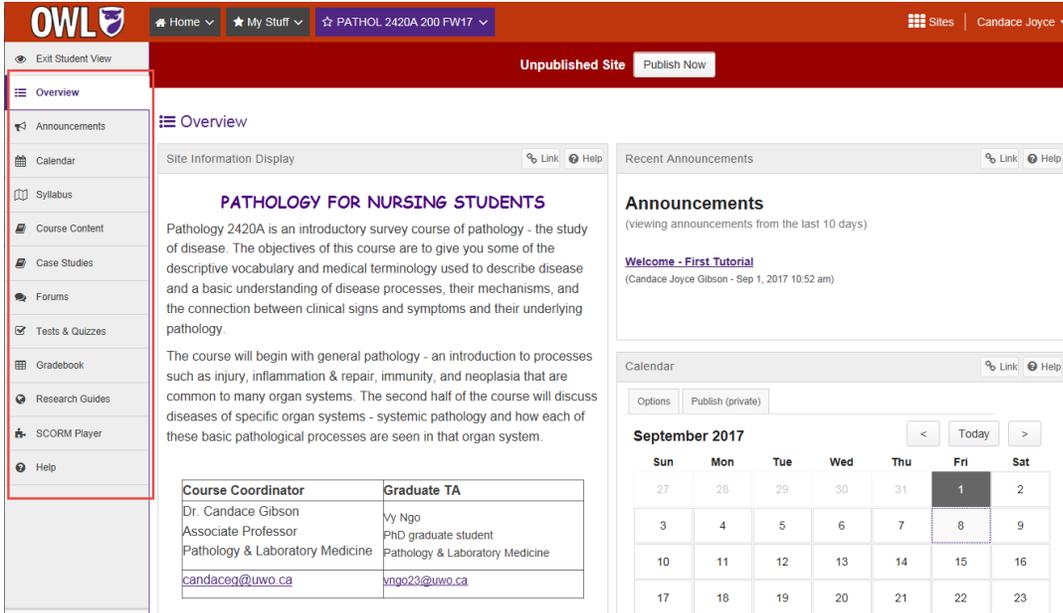
Complete documentation on OWL can be obtained through the “OWL Documentation Site” that can be reached through the “Help & Support” link on the OWL entrance page).
<https://owl.uwo.ca/portal/site/owldocs>

If you have technical difficulties in accessing the course, course material or the weekly quizzes please call **the Helpdesk at x83800 from on campus or 519-661-3800 from off campus**. See http://www.uwo.ca/wts/get_help/index.html for further help.

The screenshot shows the OWL login interface. At the top right, there are input fields for 'User Id' and 'Password' with a 'Log In' button. On the left, a navigation menu includes 'Welcome', 'Help & Support' (circled in red), 'Reset Password', 'Release Notes', 'Site Browser', 'About', 'Acknowledgments', and 'Help'. The main content area is divided into two columns. The left column contains a 'Current Messages' section with the heading 'OWL has been updated!' and a list of new features. The right column contains a 'Welcome to OWL' message and a 'Help & Support' section with a link to the 'Help & Support page' highlighted by a red arrow.

A list of online courses in which you are enrolled will appear in the tabs across the top of the page - this course appears as "PATHOL 2420 200 FW18" for Western students, as "PATHOL 2420 202 FW18" for Western CTF students and "PATHOL2420A 600 FW18" for Fanshawe College students.

On the course **Home/Overview page** you will see various links on the left hand navigation menu that direct you to different sections that include: the set of modules and notes under **Course Content**; a series of **Case Studies**; weekly quizzes through “**Test & Quizzes**”; the discussion area or **Forum**; access to your **Gradebook**; and a **Calendar** that outlines all upcoming tutorials and quizzes.



The course is divided into roughly equal halves - the first section on General Pathology and the second section on Systemic Pathology. There is a lot of material to cover in the course! Within each of these sections there are 6 individual modules or lessons that you are responsible for going through at the rate of one per week. The calendar has been set up to indicate for each week which module you should be studying and the weekly tutorial (held on Friday mornings) will address issues on that topic. This should keep you on track in terms of your studying and time management.

The quiz on that material will be open each Friday at 1 PM and be available all week until the next Thursday at 5 PM.

You will **access your weekly quizzes under Tests & Quizzes or via a Quiz icon on the Module page** when they are made available to you.

For example, during the week you should review the notes and any case studies for the Module and bring any questions you might have to the tutorial or post to the Forum. The quiz will open after the Friday tutorial and you can answer the questions at any time before the end of day on the following Thursday. **Once you’ve opened the quiz you will only have one hour to complete and submit the 10 quiz questions.** Once you’ve submitted the quiz the correct answers, feedback and your score will be returned to you. I would urge you to stay on top of the readings and notes and not leave the quiz to the last minute. And please read ahead so you can bring your questions to the tutorial session.

Please use the Forum area to post any questions you might have on each module.

[Note: questions that pertain directly to quiz questions will not be answered until after the quiz has closed.]

Module 1 - Introduction to Pathology and Causes of Disease

BACK NEXT

OBJECTIVES:

This module gives you some fundamental definitions of disease and related terminology and a framework by which to classify disease. At completion of the module you should be able to:

1. define pathology
 2. define disease
 3. define sign(s) and symptom(s) of disease and distinguish between them.
 4. understand and be able to define some of the commonly used terms to describe various aspects of disease (e.g., etiology, pathogenesis, manifestations, sequelae, prognosis).
 5. define morbidity and mortality and distinguish between them.
 6. have a general understanding of the leading causes of morbidity and mortality in Canadians.
 7. distinguish between congenital and genetic diseases and be able to give examples of each.
 8. discuss broadly the causes of disease and the categories under which they can be considered (i.e. genetic versus environmental; or by pathogenesis, e.g. injury, inflammation, infection, immune disorder, neoplastic, vascular, etc.).
 9. define idiopathic and iatrogenic causes of disease and give an example of each.
- There is no assigned reading from the text for this section.

For those interested in further information on chromosome and genetic abnormalities you can refer to:

"Robbins Basic Pathology" 10th Edition, 2017. Chapter 7: Genetic and Pediatric Diseases. In particular, see Introduction - p. 243; Nature of Genetic Abnormalities Contributing to Human Disease - pp. 244-245; Mendelian Disorders: Diseases Caused by Single-Gene Disorders - pp. 245-247; Complex Multigenic Disorders - p. 262; Cytogenetic Disorders - pp. 262-269.

[Objectives_Module1.pdf](#)

[KeyTerms_Module1.pdf](#)

[Notes_Module1_Causes of Disease](#)

Try to review the learning module before coming to the tutorial session. We will run through the slides during the tutorial.

[Learning Module1_Pathology](#)

This week's case study illustrates a common cause of morbidity and mortality in Canadians.

[Case Study - Causes of Disease \(MJ\)](#)

Please post any questions you might have to the weekly Forum topic.

[FORUM_Module 1 - Causes of Disease](#)

After reviewing the objectives, key terms, course notes, case study and any relevant textbook readings try the weekly quiz!

[Quiz 1_Causes of Disease](#)

Course notes (.pdf), key terms, objectives and learning module (html format)

Case Study

Link to Forum

Link to Weekly Quiz

For example, Module 1 on Causes of Disease is available to you now and at the Friday (Sept 7) tutorial we'll review the scope and study of pathology and which diseases cause illness and/or death of Canadians. The quiz on Module 1 will open at 1 PM and normally you will have until the next Thursday at 5 PM to submit the quiz.

[Note: During the first week we will open Quiz 1 – Causes of Disease – prior to the tutorial on Sept 7 at 8:00 am and allow an unlimited number of attempts to take the quiz and an extra week for submission to insure that everyone can access and submit the quiz successfully before it closes on Thursday, Sept 20 at 5 pm. Please note that normally you will only have one attempt and a 1 hour period to take the on-line quiz.]

During the week of September 10th you should complete Quiz 1 and start reviewing the notes on how cells adapt to stress or injury in Module 2 – Cell Adaptation, Injury & Cell Death. Bring your questions to the tutorial session on Module 2 (on Friday, Sept 14th). Quiz 2 on Cell Injury will open on Friday, Sept 14 at 1 pm and will be available until the following Thursday, Sept 20 at 5 PM and similarly for all subsequent modules.

We'll run through the procedure in the first tutorial session.

Tutorials - a weekly tutorial has been scheduled on Fridays

- 8:00 - 9:00 a.m. for the Fanshawe College students in A1056.
&
- Noon – 1 pm for the Western students in UCC 146.

TUTORIAL SESSIONS WILL CONCENTRATE ON CLARIFYING YOUR QUESTIONS ABOUT THE MATERIAL. THESE ARE NOT MEANT TO BE MINI-LECTURES - THE TUTORIALS ARE PRIMARILY FOR CLARIFICATION OR HELP WITH PROBLEMS THAT ARISE WHILE REVIEWING THE MATERIAL AND TO GUIDE YOU IN YOUR OWN STUDY.

In the first tutorial we will run through the OWL resources and the first module and how to access and take the quiz.

Forum / Discussion groups are set up for each week for posting questions related to the material. The OWL site contains a discussion area or Forum that you can use to post any questions related to the week's topic that stem from the learning module, course notes, case study(ies) or text readings. This forum area is open to all – the TA and myself will be monitoring the forums on a daily basis. Please make use of the discussion board and do post any questions that you may have as you go through the material. Your fellow students may have the same question!

EVALUATION & EXAMINATIONS

Weekly quizzes are set for each lesson. You should first review the learning module, read the notes and the case study, then go to your text for more details or clarification of points raised from your reading. Review the key terms and objectives and be sure you can answer each of those objectives - then take the quiz. You will have access to the quiz for a week following each tutorial but once opened you will have only 1 hour to take and submit the quiz. All of the quizzes are worth 20% of your final grade.

Examinations - There will be two examinations (a mid-term and a final) each worth 40% of the final mark. **The mid-term examination will be held on Saturday, October 20, 9:00 am to 11:00 am at Western University (rooms to be confirmed).** The mid-term examination will cover the material in the first half of the course - the section on "General Pathology". This exam will account for 40% of your final mark.

The final exam (to be held during the December exam period) will account for the remaining 40%. The final examination questions will concern the material covered after the mid-term ("Systems Pathology"). While not being explicitly tested on material from before the mid-term, you should keep in mind that understanding of the pathology of specific organ systems builds on your knowledge of the general disease processes!

All examinations are multiple choice. Both standard and K type (multiple-multiple) questions will be included.

All nursing students (from Western and Fanshawe College) will be writing the examination on the UWO campus.

- **Special examination arrangements** or accommodations must be negotiated with WESTERN or FANSHAWE Services for Students with Disabilities and must be done so well before the time of the examination(s).

- We recognize that occasionally illness or family emergencies may necessitate deferral of examinations for individual students. In the case of illness, documentation MUST be provided by your doctor or Western Student Health Services using the form required by the Dean's Office. The required medical form can be downloaded from http://www.uwo.ca/univsec/pdf/academic_policies/appeals/medicalform.pdf. Please refer to the University's Academic Handbook for the policy on accommodation for medical illness (http://www.uwo.ca/univsec/pdf/academic_policies/appeals/accommodation_medical.pdf).

Whenever possible you should try to provide notification and documentation well in advance of the scheduled examination date. The student is required to follow-up with the Professor and their Academic Counsellor in a timely manner.

Attendance at both examinations is expected and appropriate documentation must be provided if you miss either examination (e.g. the completed medical note form; etc). In accordance with the university's Senate policy "If a student fails to write a scheduled Special Examination, permission to write another Special Examination will be granted only with the permission of the Dean in exceptional circumstances and with appropriate supporting documents. In such a case, the date of this Special Examination normally will be the scheduled date for the final exam the next time the course is offered."

Please note that cheating during examinations will not be tolerated. Cheating is considered a serious scholastic offence and may result in receiving a grade of "0" on the examination and failure in the course and a record of the offence placed in your scholastic record. Remember it is also YOUR RESPONSIBILITY to see that no one views your score sheet during the examination.

For information on WESTERN's policy on scholastic offences refer to the Student Handbook or http://www.uwo.ca/univsec/pdf/academic_policies/appeals/scholastic_discipline_undergrad.pdf (Scholastic Discipline for Undergraduate Students).

QUESTIONS/CONTACT INFO:

Questions regarding the course content and course material can be directed to me or the graduate teaching assistant for this course.

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Questions regarding administrative details can be directed to:
Cheryl Campbell, Western University's Department of Pathology & Laboratory Medicine
cheryl.campbell@schulich.uwo.ca (519-661-2111 ext. 86389)

Questions regarding technical problems or IT difficulties should be directed to the Western University ITS Help Desk at 519-661-3800 or help.desk@uwo.ca.