



CUMMING SCHOOL OF MEDICINE
GRADUATE COURSE OUTLINE
Fall 2020

| COURSE TITLE: | | | |
|--------------------------------|---|---------------------|--|
| Course | MDSC 744 Human Pathology | | |
| Pre/Co-Requisites | Must be registered in the Pathologists' Assistant Masters Graduate Program or the Pathologists' Assistant specialization of the Medical Sciences Graduate Program. Consent of instructor is required for all other students. | | |
| Faculty | Cumming School of Medicine, Graduate Science Education | | |
| Instructor Name(s) | Bill Gorday | Email | William.Gorday@albertaprecisionlabs.ca |
| Office Location | 7 th floor McCaig tower gross room | Office Hours | Monday to Friday 8:00 to 16:15 |
| Instructor Email Policy | Responds to emails within 24 hours on weekdays | | |
| Telephone No. | Bill Gorday (403-944-3297) | | |
| TA Name | n/a | Email | n/a |
| Class Term, Days | Class lectures and student presentations- Tuesday and Thursday. Small group sessions- Monday (the detailed schedule of the small group sessions will be discussed and decided on September 8 th as part of the introduction). | | |
| Class Times | Class lectures and presentations-1:00-2:50. Small group sessions 9:00-10:50. | | |
| Class Location | Lectures, class presentations and small group sessions will be conducted online using Zoom. | | |

This course will take place **online** via Desire2Learn (D2L) and Zoom via synchronous instruction. To best succeed in the course, students are encouraged to participate in the synchronous Zoom sessions. When unable to participate live due to the time difference or unforeseen circumstances, inform the instructor in advance and propose and implement propose an alternative participation activity.

| COURSE INFORMATION/DESCRIPTION OF THE COURSE |
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| The fall term of the class guides the student through principles of general pathology emphasizing the connection between these general disease principles and gross pathology. The winter term looks at diseases of specific organ systems and highlights the connection between understanding pathogenesis and gross dissection. At the end of the course the student should have a solid understanding of general and systemic pathology. |



LEARNING RESOURCES/REQUIRED READING

Robbins and Cotran Pathologic Basis of Disease, Ninth Edition, Saunders Elsevier 2015

COURSE OBJECTIVES/LEARNING OUTCOMES

Each individual lecture has specific objectives which are listed under 'Objectives' at the beginning of the slide deck. The overarching objectives of the courses are as follows:

After completing the course the student will:

1. Paraphrase the principles of general pathology and apply their knowledge to the macroscopic appearance of surgical specimens.
2. Summarize the pathologies of organ systems covered and apply their knowledge to the macroscopic appearance of surgical specimens.

Communication

Brightspace (By D2L) is located on the University of Calgary server and will be used extensively for communication with Students. A link to the zoom class will be provided on D2L. It is the student's responsibility to ensure that they receive all posted communications and documents and that they receive e-mails send by instructors of fellow students through D2L. Only your @ucalgary.ca e-mail address maybe linked to D2L. Please ensure that you are regularly checking your @ucalgary.ca account

Learning Technology Requirements

In order to successfully engage in learning experiences at the University of Calgary, students taking online, remote and blended courses are required to have reliable access to the following technology:

- A computer with a supported operating system, as well as the latest security and malware updates;
- A current and updated web browser;
- Webcam (built-in or external);
- Microphone and speaker (built-in or external), or headset with microphone;
- Current antivirus and/or firewall software enabled;
- Broadband internet connection

Most current laptops will have a built-in webcam, speaker and microphone.

Please see the following for a detailed explanation of the minimal required technology for online learning <https://elearn.ucalgary.ca/technology-requirements-for-students/>

A laptop, desktop, tablet or mobile device is required for D2L access. If you need help accessing or using D2L, please visit the Desire2Learn resource page for students: <http://elearn.ucalgary.ca/d2l-student/>.

| CUT POINTS FOR GRADES | | | |
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| This course adheres to the grading system outlined in the University of Calgary, Faculty of Graduate Studies Calendar. Grades of A+ and A are not distinguished in the calculation of GPAs. Percentage/letter grade conversion used for this course is as follows | | | |
| Grade | Grade Point Value | Percentage Conversion | Graduate Description |
| A+ | 4.00 | 95-100 | Outstanding |
| A | 4.00 | 85-94 | Excellent – superior performance showing comprehensive understanding of the subject matter |
| A- | 3.70 | 80-84 | Very Good Performance |
| B+ | 3.30 | 75-79 | Good Performance |
| B | 3.00 | 70-74 | Satisfactory Performance |
| B- | 2.70 | 65-69 | Minimum Pass for Students in the Faculty of Graduate Studies |
| C+ | 2.30 | 55-64 | All grades below ‘B-’ are indicative of failure at the graduate level and cannot be counted toward Faculty of Graduate Studies course requirements |
| C | 2.00 | 50-54 | |

| Assessment Components: The University policy on grading related matters is outlined in the 2019-2020 Calendar . | | | |
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| Assessment Methods | Description | Weight % | Due Date and Time |
| Quiz 1 | Based on Lectures 1-5 | 10 | October 1, 1:00-1:45 |
| Quiz 2 | Based on Lectures 6-10 | 10 | October 20, 1:00-1:45 |
| Quiz 3 | Based on Lectures 11-15 | 10 | November 3, 1:00-1:45 |
| Quiz 4 | Based on Lectures 16-20 | 10 | January 26, 1:00-1:45 |
| Quiz 5 | Based on Lectures 21-23 | 10 | March 9, 1:00-1:45 |
| Quiz 6 | Based on Lectures 24-,26-27 | 10 | March 25, 1:00-1:45 |
| Student Presentations | The students will each do two class presentations (one in fall term and one in the winter term) on a topic of their choosing from one of the lectures | Presentation 1- 20 Presentation 2- 20 | |



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| | covered. The topics can be wide ranging but should always be tied to pathology and the topic should come from one of the class lectures. Specific grading criteria will be given on the first day of class. Each presentation is worth 20% and the order will be decided during the first week of the course. | | |
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ASSESSMENT AND EVALUATION INFORMATION

ATTENDANCE AND PARTICIPATION EXPECTATIONS: The student is expected to attend all class lectures and small group sessions. All lectures and small group sessions will be conducted online using Zoom. Exceptions will be given for valid health or family emergencies as indicated in the University regulations.

GUIDELINES FOR SUBMITTING ASSIGNMENTS: Quizzes will be emailed as a PDF on the day and time indicated on the schedule. The students will complete the quiz within the allotted time and email back to the instructor for marking.

FINAL EXAMINATIONS: There are no final examinations.

EXPECTATIONS FOR WRITING: There are no written assignments

LATE AND/OR MISSING ASSIGNMENTS: Each quiz will be completed on the scheduled day. If the student is unable to attend due to a valid health or family emergency as indicated in the University regulations an alternative day will be scheduled for the student to complete the quiz. If a student is unable to give their presentation on the scheduled day due to a valid health or family emergency as indicated in the University regulations an alternative day will be scheduled. If the student does not complete their presentation on time for any other reason there will be a loss of a grade (e.g. A- to B+) and they will be expected to present at the next scheduled class. All presentations will be done online using Zoom.

Is a passing grade on a particular component essential to pass the course as a whole? No



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| COURSE TIMETABLE | | | |
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| Course Schedule Date | Topic & Reading | Instructor | Assignments/Due Dates & Times |
| September 8 | Introduction and Lecture 1 The Cell as a Unit of Health and Disease | Bill Gorday | |
| September 10 | Lecture 2 Cellular Responses to Stress and Toxic Insults | Bill Gorday | |
| September 15 | Lecture 3 Inflammation and Repair | Bill Gorday | |
| September 17 | Lecture 4 Hemodynamic Disorders, Thromboembolic Disease and Shock | Bill Gorday | |
| September 22 | Lecture 5 Genetic Disorders | Bill Gorday | |
| September 24 | Lecture 6 Diseases of the Immune System | Bill Gorday | |
| September 29 | Lecture 7 Neoplasia | Bill Gorday | |
| October 1 | Quiz Chapters 1-5, Lecture 8 Infectious Diseases | Bill Gorday | Quiz 1, 1:00-1:45 |
| October 6 | Lecture 9 Environmental and Nutritional Diseases | Bill Gorday | |
| October 8 | Lecture 10 Diseases of Infancy and Childhood | Bill Gorday | |
| October 13 | Lecture 11 Blood Vessels | Bill Gorday | |
| October 15 | Lecture 12 The Heart | Bill Gorday | |
| October 20 | Quiz Chapters 6-10, Lecture 13 Diseases of White Blood Cells, Lymph Nodes, Spleen and Thymus | Bill Gorday | Quiz 2, 1:00-1:45 |
| October 22 | Lecture 14 Red Blood Cell and Bleeding Disorders | Bill Gorday | |
| October 27 | Lecture 15 The Lung | Bill Gorday | |
| October 29 | Lecture 16 Head and Neck | Bill Gorday | |

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| November 3 | Quiz 11-15, Lecture 17 The GI Tract (1 of 2) | Bill Gorday | Quiz 3, 1:00-1:45 |
| November 5 | Lecture 17 The GI Tract (2 of 2) | Bill Gorday | |
| November 8-14 | no classes | | |
| November 17 | Presentation Student 1 | Bill Gorday | Presentation Student 1, 1:00-2:50 |
| November 19 | Presentation Student 2 | Bill Gorday | Presentation Student 2, 1:00-2:50 |
| November 24 | Presentation Student 3 | Bill Gorday | Presentation Student 3, 1:00-2:50 |
| November 26 | Presentation Student 4 | Bill Gorday | Presentation Student 4, 1:00-2:50 |
| December 1 | Presentation Student 5 | Bill Gorday | Presentation Student 5, 1:00-2:50 |
| December 3 | Presentation Student 6 | Bill Gorday | Presentation Student 6, 1:00-2:50 |
| January 12 | Lecture 18 Liver and Gallbladder | Bill Gorday | |
| January 14 | Lecture 19 The Pancreas | Bill Gorday | |
| January 19 | Lecture 20 The Kidney | Bill Gorday | |
| January 21 | Gross room | Bill Gorday | |
| January 26 | Quiz Chapters 16-20, Lecture 21 The Lower Urinary Tract and Male Genital System | Bill Gorday | Quiz 4, 1:00-1:45 |
| January 28 | Gross room | Bill Gorday | |
| February 2 | Lecture 22 The Female Genital Tract (1 of 2) | Bill Gorday | |
| February 4 | Gross Room | Bill Gorday | |
| February 9 | Lecture 22 The Female Genital Tract (2 of 2) | Bill Gorday | |
| February 11 | Gross Room | Bill Gorday | |

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| February 14-20 | No classes | | |
| February 23 | Lecture 23 The Breast | Bill Gorday | |
| February 25 | Gross Room | Bill Gorday | |
| March 2 | Lecture 24 The Endocrine System | Bill Gorday | |
| March 4 | Gross Room | Bill Gorday | |
| March 9 | Quiz Chapters 21-23, Lecture 26 Bones, Joints and Soft Tissue Tumors | Bill Gorday | Quiz 5, 1:00-1:45 |
| March 16 | Gross Room | Bill Gorday | |
| March 18 | Lecture 27 Peripheral Nerves and Skeletal Muscles | Bill Gorday | |
| March 23 | Gross Room | Bill Gorday | |
| March 25 | Quiz Chapters 24,26 and 27 | Bill Gorday | Quiz 6, 1:00-1:45. |
| March 30 | Presentation Student 1 | Bill Gorday | Presentation Student 1, 1:00-2:50. |
| April 1 | Presentation Student 2 | Bill Gorday | Presentation Student 2, 1:00-2:50. |
| April 6 | Presentation Student 3 | Bill Gorday | Presentation Student 3, 1:00-2:50. |
| April 8 | Presentation Student 4 | Bill Gorday | Presentation Student 4, 1:00-2:50. |
| April 13 | Presentation Student 5 | Bill Gorday | Presentation Student 5, 1:00-2:50. |
| April 15 | Presentation Student 6 | Bill Gorday | Presentation Student 6, 1:00-2:50. |

Guidelines for Zoom Sessions

Zoom is a video conferencing program that will allow us to meet at specific times for a 'live' video conference, so that we can have the opportunity to meet each other virtually and discuss relevant course topics as a learning community.

To help ensure Zoom sessions are private, do not share the Zoom link or password with others, or on any social media platforms. Zoom links and passwords are only intended for students registered in the course. Zoom



recordings and materials presented in Zoom, including any teaching materials, must not be shared, distributed or published without the instructor's permission.

The use of video conferencing programs relies on participants to act ethically, honestly and with integrity; and in accordance with the principles of fairness, good faith, and respect (as the Code of Conduct). When entering Zoom or other video conferencing sessions, you play a role in helping create an effective, safe and respectful learning environment. Please be mindful of how your behaviour in these sessions may affect others. Participants are required to use names officially associated with their UCID (legal or preferred names listed in the Student Centre) when engaging in these activities. Instructors/moderators can remove those whose names do not appear on class rosters. Non-compliance may be investigated under relevant University of Calgary conduct policies. If participants have difficulties complying with this requirement, they should email the instructor of the class explaining why, so the instructor may consider whether to grant an exception, and on what terms. For more information on how to get the most out of your zoom sessions visit: <https://elearn.ucalgary.ca/guidelines-for-zoom/>.

If you are unable to attend a Zoom session, please contact your instructor to arrange an alternative activity (where available). Please be prepared, as best as you are able, to join class in a quiet space that will allow you to be fully present and engaged in Zoom sessions. Students will be advised by their instructor when they are expected to turn on their webcam (such as for group work, presentations, etc).

The instructor may record online Zoom class sessions for the purposes of supporting student learning in this class – such as making the recording available for review of the session or for students who miss a session. Students will be advised before the instructor initiates a recording of a Zoom session. These recordings will be used to support student learning only.

Conduct During Lectures

The classroom should be respected as a safe place to share ideas without judgement - a community in which we can all learn from one another. Students are expected to frame their comments and questions to lecturers in respectful and appropriate language, always maintaining sensitivity towards the topic. Students, employees, and academic staff are also expected to demonstrate behaviour in class that promotes and maintains a positive and productive learning environment.

As members of the University community, students, employees and academic staff are expected to demonstrate conduct that is consistent with the University of Calgary Calendar, the Code of Conduct and Non-Academic Misconduct policy and procedures, which can be found at <https://www.ucalgary.ca/policies/forms/title>.

| INTERNET AND ELECTRONIC COMMUNICATION DEVICE INFORMATION |
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| Cell phones must be turned off in class unless otherwise arranged with the instructor. |



The use of laptop and mobile devices is acceptable when used in a manner appropriate to the course and classroom activities. Students are to refrain from accessing websites that may be distracting for fellow learners (e.g. personal emails, Facebook, YouTube). Students are responsible for being aware of the University's Internet and email use policy, which can be found at <https://www.ucalgary.ca/policies/files/policies/electronic-communicationspolicy.pdf>.

MEDIA AND RECORDING IN LEARNING ENVIRONMENTS

Media recording for lesson capture

The instructor may use media recordings to capture the delivery of a lecture. These recordings are intended to be used for lecture capture only and will not be used for any other purpose. Although the recording device will be fixed on the Instructor, in the event that incidental student participation is recorded, the instructor will ensure that any identifiable content (video or audio) is masked, or will seek consent to include the identifiable student content to making the content available on University approved platforms.

Media recording for assessment of student learning

The instructor may use media recordings as part of the assessment of students. This may include but is not limited to classroom discussions, presentations, clinical practice, or skills testing that occur during the course. These recordings will be used for student assessment purposes only and will not be shared or used for any other purpose.

Media recording for self-assessment of teaching practices

The instructor may use media recordings as a tool for self-assessment of their teaching practices. Although the recording device will be fixed on the instructor, it is possible that student participation in the course may be inadvertently captured. These recordings will be used for instructor self-assessment only and will not be used for any other purpose.

Student Recording of Lectures

Audio or video recording of lectures is prohibited except where explicit permission has been received from the instructor.

UNIVERSITY OF CALGARY POLICIES AND SUPPORTS

ACADEMIC ACCOMMODATIONS

Students seeking an accommodation based on disability or medical concerns should contact Student Accessibility Services; SAS will process the request and issue letters of accommodation to instructors. For additional information on support services and accommodations for students with disabilities, visit www.ucalgary.ca/access/. Students who require an accommodation in relation to their coursework based on a protected ground other than disability should communicate this need in writing to their Instructor. The full policy on Student Accommodations is available at <http://www.ucalgary.ca/policies/files/policies/student-accommodation-policy.pdf>



IMPORTANT INFORMATION

Any research in which students are invited to participate will be explained in class and approved by the appropriate University Research Ethics Board

INSTRUCTOR INTELLECTUAL PROPERTY

Course materials created by professor(s) (including course outlines, presentations and posted notes, labs, case studies, assignments and exams) remain the intellectual property of the professor(s). These materials may NOT be reproduced, redistributed or copied without the explicit consent of the professor. The posting of course materials to third party websites such as note-sharing sites without permission is prohibited. Sharing of extracts of these course materials with other students enrolled in the course at the same time may be allowed under fair dealing

COPYRIGHT LEGISLATION

All students are required to read the University of Calgary policy on Acceptable Use of Material Protected by Copyright (www.ucalgary.ca/policies/files/policies/acceptable-use-of-material-protected-by-copyright.pdf) and requirements of the copyright act (<https://laws-lois.justice.gc.ca/eng/acts/C-42/index.html>) to ensure they are aware of the consequences of unauthorised sharing of course materials (including instructor notes, electronic versions of textbooks etc.). Students who use material protected by copyright in violation of this policy may be disciplined under the Non-Academic Misconduct Policy

ACADEMIC INTEGRITY

The Cumming School of Medicine expects intellectual honesty from its students. Course participants should be aware of University policies relating to Principles of Conduct, Plagiarism and Academic Integrity. These are found in the printed Faculty of Graduate Studies Calendar, or online under Academic Regulations in the Faculty of Graduate Studies Calendar, available at [Faculty of Graduate Studies Academic Regulations](#)

ACADEMIC MISCONDUCT

For information on academic misconduct and its consequences, please see the University of Calgary Calendar at <http://www.ucalgary.ca/pubs/calendar/current/k.html>

EMERGENCY EVACUATION AND ASSEMBLY POINTS

Assembly points for emergencies have been identified across campus. The primary assembly points for South Campus (Health Science Centre (HSC); Health & Research Innovation Centre (HRIC); Heritage Medical Research Building (HMRB) and Teaching, Research and Wellness (TRW)) are:

- HSC and HMRB: HRIC Atrium (alternate assembly point is Parking Lot 6)
- HRIC: HMRB Atrium (alternate assembly point is Parking Lot 6)
- TRW: McCaig Tower (alternate assembly point is HMRB – Atrium)

APPEALS

If there is a concern with the course, academic matter or a grade, first communicate with the instructor. If these concerns cannot be resolved, students can proceed with an academic appeal, as per Section N of the Faculty of Graduate Studies Calendar. Students must follow the official process and should contact the Student Ombuds Office (<http://www.ucalgary.ca/provost/students/ombuds>) for assistance with this and with any other academic concerns, including academic and non-academic misconduct



THE FREEDOM OF INFORMATION AND PROTECTION OF PRIVACY (FOIP) ACT

This course is conducted in accordance with the Freedom of Information and Protection of Privacy Act (FOIP) and students should identify themselves on written assignments (exams and term work.) by their name and ID number on the front page and ID on each subsequent page. Assignments given by you to your course instructor will remain confidential unless otherwise stated before submission. The assignment cannot be returned to anyone else without your expressed permission to the instructor. Grades will be made available on an individual basis and students will not have access to other students' grades without expressed consent. Similarly, any information about yourself that you share with your course instructor will not be given to anyone else without your permission

WELLNESS AND MENTAL HEALTH RESOURCES

The University of Calgary recognizes the pivotal role that student mental health plays in physical health, social connectedness and academic success, and aspires to create a caring and supportive campus community where individuals can freely talk about mental health and receive supports when needed. We encourage you to explore the excellent mental health resources available throughout the university community, such as counselling, self-help resources, peer support or skills-building available through the SU Wellness Centre (Room 370, MacEwan Student Centre), <https://www.ucalgary.ca/wellnesscentre/services/mental-health-services> and the Campus Mental Health Strategy website <https://www.ucalgary.ca/mentalhealth/>

SUPPORTS FOR STUDENT LEARNING, SUCCESS, AND SAFETY

Student Ombudsman: The Student Ombuds' Office supports and provides a safe, neutral space for students. For more information, please visit www.ucalgary.ca/ombuds/ or email ombuds@ucalgary.ca

Student Union: The SU Vice-President Academic can be reached at (403) 220-3911 or suvpaca@ucalgary.ca; Information about the SU, including elected Faculty Representatives can be found here: <https://www.su.ucalgary.ca>

Graduate Student's Association: The GSA Vice-President Academic can be reached at (403) 220- 5997 or gsa.vpa@ucalgary.ca; Information about the GSA can be found here: <https://gsa.ucalgary.ca>

SAFEWALK

Campus security will escort individuals, day or night, anywhere on campus (including McMahon Stadium, Health Sciences Centre, Student Family Housing, the Alberta Children's Hospital and the University LRT station). Call 403-220-5333 or visit <http://www.ucalgary.ca/security/safewalk>. Use any campus phone, emergency phone or the yellow phone located at most parking lot pay booths. Please ensure your personal safety by taking advantage of this service.