UNIVERSITY OF CALGARY

CUMMING SCHOOL OF MEDICINE
GRADUATE COURSE OUTLINE

COURSE TITLE:	
Course Name and Number	MDSC 619.02 – Systems Neuroscience
Pre/Co-Requisites	Sufficient background in biological sciences, physical sciences, and neuroscience to qualify for admission to the Graduate Program in Neuroscience. It will be helpful, but not formally required, to take MDSC 619.01 (Neuro I) before taking this course. Preference is given to graduate students registered in Neuroscience (MDNS). Consent of a Course Coordinator is required for all other students. Note: Not open to undergraduate students.
Faculty	Cumming School of Medicine, Graduate Science Education

Instructor Name(s)	Dr. Alexander Lohman and Dr. Jonathan Epp	**Email**	Alex.lohman@ucalgary.ca Jonathan.epp1@ucalgary.ca
Office Location	HMRB 159 (Lohman) HMRB 162 (Epp)	**Office Hours**	No formal office hours scheduled; please contact to schedule a meeting with either of us or TA

Instructor Email Policy	E-mail instructors as needed.		
Telephone No.	(403) 220-2898 (Lohman Office); (403) 607-4163 (Lohman Cell); (403) 210-6349 (Epp Office)		

TA Name	Mr. Govind Peringod and Ms. Anastasiia Stepanchuk	**Email**	Govind Peringod - gperingo@ucalgary.ca Anastasiia Stepanchuk – anastasiia.stepanchu@ucalgary.ca

Class Term, Days	Tuesdays, Thursdays, and Fridays- Jan 11th, 2021 - April 15th, 2021		
Class Times	9AM-10:50AM		
Class Location	Classes will be delivered by Zoom in a synchronous fashion.		

For online courses:

This course will take place **online** via Desire2Learn (D2L) and Zoom. To best succeed in the course, students are encouraged to participate in the asynchronous learning tasks using the D2L learning environment and 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 an alternative participation activity (e.g., watch the recordings, submit a brief reflection, and actively contribute to the follow-up online discussion).

There will be 24 synchronous Zoom sessions for Normal Lectures, 10 synchronous Zoom sessions for Student Journal Club Presentations and 3 synchronous Zoom sessions for TA-led tutorials (dates and times indicated on the course schedule), and each will be recorded.

COURSE INFORMATION/DESCRIPTION OF THE COURSE
Introductory graduate-level course comprising lectures by course instructors and guest lecturers, student presentations based on selected research publications, and tutorials with graduate teaching assistants (TAs).
LEARNING RESOURCES/REQUIRED READING
No required resources. Some Instructors will suggest required reading, which will be posted on D2L. Principles of Neural Science, Fifth Edition (Authors: Eric Kandel, James Schwartz, Thomas Jessell, Steven Siegelbaum, A.J. Hudspeth) and Neuroscience: Exploring the Brain (Authors: Mark F Bear, Barry W Connors, Michael A Paradiso) are always excellent references.

COURSE OBJECTIVES/LEARNING OUTCOMES
The overall objective is to provide Neuroscience graduate students with essential basic knowledge in the major areas of systems neuroscience, including Perception (e.g., pain), Learning & Memory, Movement (e.g., spinal cord, voluntary movement), Neurodegeneration (e.g., dementias), Neuroinflammation (e.g., multiple sclerosis), and Stress and Reward Systems (e.g., anxiety, addiction). The course is designed to have one basic science lecture explaining the underlying biology of a topic, followed by a translational/clinical lecture that discusses an associated disease state. Understanding of current research priorities and methods are promoted by assigned readings and student presentations on recent research papers and also by the writing of a short "News and Views" piece on an assigned paper. A mid-term and final exam will be used to assess knowledge comprehension. By the end of the course, graduate students should emerge better prepared to evaluate, understand, and perform research, as well as teach, in most areas of neuroscience.

Communication:

Please discuss how you will communicate with your students (including how you provide link to online classes) 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 sent 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/.

The University of Calgary Cumming School of Medicine would like to acknowledge the traditional territories of the people of the Treaty 7 region in Southern Alberta, which includes the Blackfoot Confederacy (comprising the Siksika, Piikani, and Kainai First Nations), as well as the Tsuut'ina First Nation, and the Stoney Nakoda (including the Chiniki, Bearspaw, and Wesley First Nations). The City of Calgary is also home to Métis Nation of Alberta, Region III.

CUT POINTS FOR GRADES			
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 2020-2021 Calendar.			
Assessment Methods	**Description**	**Weight %**	**Due Date and Time**
Presentations	Weekly journal club style presentations on two papers assigned by each week's lecturer(s). Marking will be conducted by peer review and TAs will compile marks following each Friday presentation.	20% (10% from presentations and 10% from participation)	Weekly (Fridays 9AM-1050AM)
"News and Views" Assignment	1 "News and Views" Assignment will be required. Students will be assigned a cutting-edge primary research paper and required to write a 1-page commentary.	10%	April 9th, 2021 by 5PM (MST)
Exams	Each Instructor will provide questions for the mid-term or final exam. Please note: the final exam will NOT be comprehensive but will include materials from the lectures delivered after the mid-term exam. All exam marking will be conducted by course Instructor who wrote the questions. No study aids are allowed during the exams. The mid-term and final exam will be available for a 24-hour period starting at 9AM MST of the exam day. Students will have 3-hours to complete each exam once accessing through D2L. In the case of unforeseen technical/personal issues that prevent a student from completing the exam within the 3-hour period, an additional 50% (1.5 hours) will be allocated to the student to complete the exam. In the case that a student requires the additional 50% test time, they must receive approval from the course instructor.	2x35%	Feb 5th, 2021 (mid-term) and date TBD during finals week, April 19th-29th, 2021 (final exam to be registrared).

ASSESSMENT AND EVALUATION INFORMATION
ATTENDANCE AND PARTICIPATION EXPECTATIONS:

All students are expected to attend and participate in all scheduled lectures, tutorials and exams. For weekly journal club presentations 50% of the participation points will come from discussion board comments *before* the group presentation - the group that is presenting should also take a look at this discussion beforehand and try to address some of these in their presentation. 50% will come from asking questions *on the day of the group presentation* - these can be written questions on the Zoom chat (we will moderate this) OR verbal questions during the Q&A period after the presentation. Questions should be meaningful or building on previous questions/discussions. Following the weekly JC presentations, which will be limited to the first hour of class, the TAs will give a tutorial covering major concepts from the week's lectures.

GUIDELINES FOR SUBMITTING ASSIGNMENTS:
Students are required to submit the "news and views" assignments in typed format, with no less than 2cm margins, 12pt font and standard line spacing. Late assignments will not be accepted unless agreed upon by the course coordinators prior to the due date.

FINAL EXAMINATIONS:
Final exam will not be comprehensive. It will occur outside of normal class time during University finals week and will be registrared. Exam questions will be provided in paper format from the instructors.

EXPECTATIONS FOR WRITING:
Mid-term and final exams will be in written format. It is expected that all students will write clearly and legibly and not to exceed the allotted space for each question. The "news and views" assignments are required to be typed and submitted electronically to the TAs or course coordinators by the due date.

LATE AND/OR MISSING ASSIGNMENTS:
Late assignments are not accepted without the written permission from a Course Coordinator.

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

	CLASS SCHEDULE		
Course Schedule Date	**Topic, Activities & Readings**	**Instructor**	**Assignments/Due Dates & Times**
January 4th, 2021	Start of Winter 2021 Academic Term	N/A	N/A
January 4th-January 8th, 2021	Block Week	N/A	N/A
January 11th, 2021	Classes Start	N/A	N/A
January 12th, 2021	Intro to Systems Neuroscience	Dr. Jonathan Epp and Dr. Alex Lohman	Synchronous
January 14th, 2021	Introduction to Experimental Imaging	Dr. Jeff Dunn	Synchronous

January 15th, 2021	Novel Techniques in Systems Neuroscience	Dr. Jonathan Epp Dr. Alex Lohman Dr. Tamas Fuzesi Dr. Frank Visser	Synchronous
January 19th, 2021	Computational Systems Neuroscience	Dr. Wilten Nicola	Synchronous
January 21st, 2021	Computational Systems Neuroscience	Dr. Emma Towlson	Synchronous
January 22nd, 2021	Student Paper Presentations from Dr. Wilten Nicola & Dr. Emma Towlson & weekly Tutorial	TAs: Anastasiia Stepanchuk	Synchronous Presentations marked by TAs
January 26th, 2021	Learning and Memory	Dr. Jonathan Epp	Synchronous
January 28th, 2021	Learning and Memory	Dr. Jonathan Epp	Synchronous
January 29th, 2021	Student Paper Presentations from Dr. Jonathan Epp & weekly tutorial	TAs: Anastasiia Stepanchuk	Synchronous Presentations marked by TAs
February 2nd, 2021	The Reward/Motivation System	Dr. Stephanie Borgland	Synchronous
February 4th, 2021	Addiction	Dr. Stephanie Borgland	Synchronous
February 5th, 2021	Student Paper Presentations from Dr. Stephanie Borgland & weekly tutorial	TAs: Anastasiia Stepanchuk	Synchronous Presentations marked by TAs
February 9th, 2021	Stress and the HPA axis	Dr. Jaideep Bains	Synchronous
February 11th, 2021	Stress and the HPA axis	Dr. Jaideep Bains	Synchronous
February 12th, 2021	Student Paper Presentations from Dr. Jaideep Bains & weekly tutorial	TAs: Anastasiia Stepanchuk	Synchronous Presentations marked by TAs
February 14th-February 20th, 2021	Term Break/Reading Week	N/A	N/A
February 23rd, 2021	Tutorial	TAs: Anastasiia Stepanchuk	Synchronous
February 25th, 2021	Mid-Term Exam	TAs: Anastasiia Stepanchuk	Asynchronous (students will have 3 hours to complete exam after accessing through

			D2L; exam will be provided for a 24-hour period from 1200AM-1159PM (MST). Exams marked by lecturers
February 26th, 2021	Voluntary Control of Movement	Dr. Sean Dukelow	Synchronous
March 2nd, 2021	Spinal Cord Function	Dr. Aaron Phillips	Synchronous
March 4th, 2021	Spinal Cord Injury/Axon Regeneration	Dr. Aaron Phillips	Synchronous
March 5th, 2021	Student Paper Presentations from Dr. Aaron Phillips & weekly tutorial	TAs: Govind Peringod	Synchronous Presentations marked by TAs
March 9th, 2021	Temperature/Touch/Pain	Dr. Tuan Trang	Synchronous
March 11th, 2021	Chronic and Neuropathic Pain	Dr. Tuan Trang	Synchronous
March 12th, 2021	Student Paper Presentations from Dr. Tuan Trang & weekly tutorial	TAs: Govind Peringod	Synchronous Presentations marked by TAs
March 16th, 2021	Gut Microbiome	Dr. Keith Sharkey	Synchronous
March 18th, 2021	Gut-Brain Axis	Dr. Keith Sharkey	Synchronous
March 19th, 2021	Student Paper Presentations from Dr. Keith Sharkey & weekly tutorial	TAs: Govind Peringod	Synchronous Presentations marked by TAs
March 23rd, 2021	Neurodegenerative disease: Prions and protein misfolding	Dr. Peter Stys	Synchronous
March 25th, 2021	Neurodegenerative disease: Dementias	Dr. Peter Stys	Synchronous
March 26th, 2021	Student Paper Presentations from Dr. Peter Stys & weekly tutorial	TAs: Govind Peringod	Synchronous Presentations marked by TAs
March 30th, 2021	Neuroinflammation	Dr. Shalina Ousman	Synchronous
April 1st, 2021	Multiple Sclerosis	Dr. Shalina Ousman	Synchronous
April 2nd, 2021	Student Paper Presentations from Dr. Shalina Ousman & weekly tutorial	TAs: Govind Peringod	Synchronous Presentations marked by TAs
April 6th, 2021	Traumatic Brain Injury (TBI)	Dr. Alex Lohman	Synchronous

April 8th, 2021	Neurodegeneration in TBI	Dr. Alex Lohman	Synchronous
April 9th, 2021	Student Paper Presentations from Dr. Alex Lohman & weekly tutorial	TAs: Govind Peringod	Synchronous Presentations marked by TAs "News and Views" Assignment Due by 500PM (MST) (Asynchronous)
April 13th, 2021	Tutorial	TAs: Govind Peringod	Synchronous
April 15th, 2021	Tutorial	TAs: Govind Peringod	Synchronous
April 19th-April 29th, 2021	Final Exam (Date TBD)	TAs: Govind Peringod	Asynchronous (students will have 3 hours to complete exam after accessing through D2L; exam will be provided for a 24-hour period from 1200AM-1159PM (MST). Exams marked by lecturers
April 30th, 2021	End of Winter 2021 Academic Term	N/A	N/A

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.

Equity, Diversity and Inclusion

The Cumming School of Medicine recognizes that equity, diversity, and inclusion benefits and strengthens all communities, including the medical community and those served by it. We aim to actively engage all learners, particularly those from equity seeking groups including women, Indigenous peoples, visible/racialized minorities, persons with disabilities, and LGBTQ+. While our faculty continues to learn about more equitable, diverse, and inclusive approaches to education, we welcome and appreciate suggestions to help us ensure that all learners are well served by our courses.
 	
To help cultivate learning environments that support diverse and inclusive perspectives and lived experiences, learners are invited to let instructors know if:
   • they have names and/or pronouns they would prefer to use that differ from those that appear on official records
   • scheduled class meetings conflict with religious events so that alternative arrangements can be made
 	
If they are not already, learners are also encouraged to become familiar with the various opportunities for diverse engagement, learning, and support on campus, including, but not limited to the following resources:

The Office of Equity, Diversity and Inclusion
https://www.ucalgary.ca/equity-diversity-inclusion

The Q Centre
https://www.su.ucalgary.ca/programs-services/student-services/the-q-centre/

The Writing Symbols Lodge
https://www.ucalgary.ca/student-services/writing-symbols/home

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INTERNET AND ELECTRONIC COMMUNICATION DEVICE INFORMATION

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/acceptable-use-of-electronic-resources-and-information-policy.pdf

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MEDIA AND RECORDING IN LEARNING ENVIRONMENTS

Media recording for lesson capture
Please refer to the following statement on media recording of students: https://elearn.ucalgary.ca/wp-content/uploads/2020/05/Media-Recording-in-Learning-Environments-OSP_FINAL.pdf

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/visual 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 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-policy.pdfand 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 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 (www.ucalgary.ca/student-services/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, at www.ucalgary.ca/wellnesscentre/services/mental-health-services and the Campus Mental Health Strategy website at 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: 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: 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 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.