



UNIVERSITY OF CALGARY
FACULTY OF SCIENCE
DEPARTMENT OF BIOLOGICAL SCIENCES
COURSE OUTLINE

1. **Course:** BIOL/MDSC 515 – CELLUR MECHANISMS OF DISEASE

Lecture Sections: L01 MW 15:30-16:50 HSC 1506 WINTER 2016

Instructor(s): Dr. X. Gui (403) 944-8507 xsean.gui@cls.ab.ca

D2L Course Website: BIOL 515/MDSC 515 L01

Biological Sciences Department BI 186; (403) 220-3140; biosci@ucalgary.ca

2. **Prerequisites:** BCEM 443 and one of Biology 331 or Medical Science 351

Students may not register in a course unless they have a grade of at least C- in each prerequisite course.

See section 3.5.C in the Faculty of Science section of the online Calendar

(<http://www.ucalgary.ca/pubs/calendar/current/sc-3-5.html>)

3. **GRADING:** The University policy on grading and related matters is described in “Academic Regulations, sections F.1 and F.2” of the online University Calendar (<http://www.ucalgary.ca/pubs/calendar/current/f-1.html> and <http://www.ucalgary.ca/pubs/calendar/current/f-2.html>) In determining the overall grade in the course the following weights will be used:

Midterm Exam	(Feb 22, 2016)	25 %
Term Paper		25 %
Final Exam		50 %

(There will be a final exam scheduled by the Registrar’s Office.)

“Each piece of work (term paper, midterm test or final examination) submitted by the student will be assigned a percentage score. The student’s average percentage score for the various components listed above will be combined with the indicated weights to produce an overall percentage for the course, which will be used to determine the course letter grade.”

To achieve a passing grade in each course component is essential if the student is to pass the course as a whole.

4. **Missed Components of Term Work:** The regulations of the Faculty of Science pertaining to this matter are found in the Faculty of Science area of the Calendar in [Section 3.6](#). It is the student’s responsibility to familiarize himself/herself with these regulations. See also [Section E.3](#) of the University Calendar

5. **Scheduled out-of-class activities:** Dates and times of approved class activities held outside of class hours.

REGULARLY SCHEDULED CLASSES HAVE PRECEDENCE OVER ANY OUT-OF-CLASS-TIME-ACTIVITY. If you have a clash with this out-of-class-time-activity, please inform your instructor as soon as possible so that alternative arrangements may be made for you.

Midterm Exam: Feb 22, 2016 3:00 to 5:00

6. **Course Materials:**

Recommended Reading (Textbook): **Robin’s and Cotran Pathologic Basis of Disease, edited by Kumar, Abbas, and Fausto, 8th edition.**

Online Course Components: N/A.

7. **Examination Policy:** Closed book exam for both midterm and final exams. Students should also read the Calendar, [Section G](#), on Examinations.

8. **Human studies statement:** indicating whether students in the course may be expected to participate as subjects or researchers. See also [Section E.5](#) of the University Calendar.

STUDIES IN THE BIOLOGICAL SCIENCES INVOLVE THE USE OF LIVING AND DEAD ORGANISMS. Students are expected to be familiar with <http://www.ucalgary.ca/pubs/calendar/current/sc-5-1.html> of the on-line calendar.

See also <http://www.ucalgary.ca/pubs/calendar/current/e-5.html>

11. OTHER IMPORTANT INFORMATION FOR STUDENTS:

- (a) **Misconduct:** Academic misconduct (cheating, plagiarism, or any other form) is a very serious offence that will be dealt with rigorously in all cases. A single offence may lead to disciplinary probation or suspension or expulsion. The Faculty of Science follows a zero tolerance policy regarding dishonesty. Please read the sections of the University Calendar under [Section K](#). Student Misconduct to inform yourself of definitions, processes and penalties.
- (b) **Assembly Points:** In case of emergency during class time, be sure to FAMILIARIZE YOURSELF with the information on [assembly points](#).
- (c) **Student Accommodations:** Students needing an Accommodation because of a Disability or medical condition should contact Student Accessibility Services in accordance with the Procedure for Accommodations for Students with Disabilities available at http://www.ucalgary.ca/policies/files/policies/procedure-for-accommodations-for-students-with-disabilities_0.pdf.

Students needing an Accommodation in relation to their coursework or to fulfil requirements for a graduate degree, based on a Protected Ground other than Disability, should communicate this need, preferably in writing, to the Associate Head of Biological Sciences, Dr. H. Addy by email addy@ucalgary.ca or phone 403 220-3140.

- (d) **Safewalk:** Campus Security will escort individuals day or night (<http://www.ucalgary.ca/security/safewalk/>). Call 220-5333 for assistance. Use any campus phone, emergency phone or the yellow phones located at most parking lot pay booths.
- (e) **Freedom of Information and Privacy:** This course is conducted in accordance with the Freedom of Information and Protection of Privacy Act (FOIPP). As one consequence, students should identify themselves on all written work by placing their name on the front page and their ID number on each subsequent page. For more information see also <http://www.ucalgary.ca/secretariat/privacy>.
- (f) **Student Union Information:** VP Academic Phone: 403 220-3911 Email: suvpaca@ucalgary.ca
SU Faculty Rep. Phone: 403 220-3913 Email: science1@su.ucalgary.ca, science2@su.ucalgary.ca and science3@su.ucalgary.ca;
Student Ombuds Office: 403 220-6420 Email: ombuds@ucalgary.ca; <http://ucalgary.ca/provost/students/ombuds>
- (g) **Internet and Electronic Device Information:** You can assume that in all classes that you attend, your cell phone should be turned off unless instructed otherwise. Also, communication with other individuals, via laptop computers, Blackberries or other devices connectable to the Internet is not allowed in class time unless specifically permitted by the instructor. If you violate this policy you may be asked to leave the classroom. Repeated abuse may result in a charge of misconduct.
- (h) **U.S.R.I.:** At the University of Calgary, feedback provided by students through the Universal Student Ratings of Instruction (USRI) survey provides valuable information to help with evaluating instruction, enhancing learning and teaching, and selecting courses (www.ucalgary.ca/usri). Your responses make a difference - please participate in USRI Surveys.

Department Approval _____ ORIGINAL SIGNED _____ Date _____

Tentative Schedule of 2016 BIOL/MDSC 515 Course

(Classroom: Rm 1504 and 1506 in O'Brien Centre at Foothills campus)

Day	Time	Venue	Lecturer	Topic	
Mon January 11	3:30-4:50pm	Rm 1504 / 1506	X. Gui	Introduction	
Wed January 13	3:30-4:50pm		T. Ogilvie	Neoplasia - Etiology of Cancer	
Mon January 18	3:30-4:50pm		T. Ogilvie	Apoptosis	
Wed January 20	3:30-4:50pm		F. Rashid-Kolvear	Genetics I	
Mon January 25	3:30-4:50pm		D. Demetrick	Cell Cycle Regulation	
Wed January 27	3:30-4:50pm		F. Rashid-Kolvear	Genetics II	
Mon February 1	3:30-4:50pm		H. Yang	Cellular Adaptation	
Wed February 3	3:30-4:50pm		S. Lee	Tumor Angiogenesis, Growth and Death	
Mon February 8	3:30-4:50pm		X. Gui	Tumour Microenvironments and Metastasis	
Wed February 10	3:30-4:50pm		C. Teman	Hematologic Malignancy	
Mon February 15				Reading Week	(No lecture)
Wed February 17				Reading Week	(No lecture)
Mon February 22	3:00-5:00pm	Theatre 1	X. Gui	Midterm exam	
Wed February 24	3:30-4:50pm	Rm 1504 / 1506	A. Mansoor	Hemostasis and Thrombosis	
Mon February 29	3:30-4:50pm		A. Mansoor	Bleeding Disorders	
Wed March 2	3:30-4:50pm		A. Mansoor	Transplantation	
Mon March 7	3:30-4:50pm		M.A. Brundler	Diseases of Infancy and Childhood	
Wed March 9	3:30-4:50pm		A. Bromley	Pathomechanisms of Inflammation	
Mon March 14	3:30-4:50pm		E. Whitcomb	Autoimmune Diseases	
Wed March 16	3:30-4:50pm		A. Bromley	Atherosclerosis and Cardiovascular Disease	
Mon March 21	3:30-4:50pm		K. Zhang	Defence Against Infection	
Wed March 23	3:30-4:50pm		J. Pitout	Bacterial Pathogenesis and Virulence	
Mon March 28	3:30-4:50pm		J. Conly	Antibiotic Resistance	
Wed March 30	3:30-4:50pm		J. Matyas	Arthritis, Joint and Bone Diseases	
Mon April 4	3:30-4:50pm		L. Hamilton	Neurologic Disorders	
Wed April 6	3:30-4:50pm		A. Bromley	Role of Autopsy	
Mon April 11	3:30-4:50pm		F. Green	Environment and Diseases	
Wed April 13	3:30-4:50pm		X. Gui	Review / End of Class	
TBD	TBD	TBD	X. Gui	Final Exam	

Other Important Dates:

Jan 30: Term paper topics posted for selection

Feb 8: term paper selection due

Feb 30: Term papers due

March 30: Bonus assignment posted

April 13: Bonus assignment due