

8. **Approved Mandatory and Optional Course Supplemental Fees:** N/A

9. **Writing across the curriculum statement:** e.g. "In this course, the quality of the student's writing in in-class assignments and the final paper will factor in the evaluation of those reports. See also [Section E.2](#) of the University Calendar.

10. **Human studies statement:** N/A.

11. **OTHER IMPORTANT INFORMATION FOR STUDENTS:**

(a) **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 (FOIP). 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) 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 _____

Department Approval
For NO Final Exam _____ ORIGINAL SIGNED _____ Date _____
M565 F16; 8/10/2016 11:09 AM

Advanced topics in Microbial Pathogenesis: CMMB565

Tues/Thurs 12:30-13:45; ST 055

Sept 13 - Dec 8, 2016

Week	Day	Date	Topic	Instructor
1	T	9-13-16	Course introduction	DeVinney
1	Th	9-15-16	Pathogenic strategies-1	DeVinney
2	T	9-20-16	Pathogenic strategies-2	DeVinney
2	Th	9-22-16	Antimicrobials and resistance	Liljebjelke
3	T	9-27-16	Prep day 1	Liljebjelke
3	Th	9-29-16	Antimicrobials and resistance	Liljebjelke
4	T	10-4-16	In class assignment 1	Liljebjelke
4	Th	10-6-16	Microbiome in health and disease	DeVinney
5	T	10-11-16	Microbiome in health and disease	DeVinney
5	Th	10-13-16	Prep day 2	DeVinney
6	T	10-18-16	In class assignment 2	DeVinney
6	Th	10-20-16	Bacterial secretion systems	Dong
7	T	10-25-16	Bacterial secretion systems	Dong
7	Th	10-27-16	Prep day 3	Dong
8	T	11-1-16	In class assignment 3	Dong
8	Th	11-3-16	Emerging infectious diseases	DeVinney
9	T	11-8-16	Emerging infectious diseases	DeVinney
9	Th	11-10-16	Reading Day NO CLASS	DeVinney
10	T	11-15-16	In class assignment 4	DeVinney
10	Th	11-17-16	Bacterial toxins and adherence	Armstrong
11	T	11-22-16	Bacterial toxins and adherence	Armstrong
11	Th	11-24-16	Prep day 5	Armstrong
12	T	11-29-16	In class assignment 5	Armstrong
12	Th	12-1-16	Student Presentations	All

13	T	12-6-16	Student Presentations	All
13	Th	12-8-16	Student Presentations	All

Course Information: The focus of this course is on the virulence mechanisms used by pathogens to infect the host and cause disease. The course is divided into six lecture blocks taught by five different faculty members. The course is very interactive, with a large student participation component. Students will be evaluated on the following components:

In Class Assignments. In class assignments are associated with each lecture block. The assignments are comprised of an oral and written component as follows.

Group presentations: Students will participate all 4 group presentations. The format for these presentations is at the instructor's discretion. In the past they have included discussions of work from the current literature, debates, and problem solving sessions. In each lecture block, one class session is provided for students to prepare for the group presentation. Presentations are worth 20% of the mark (5% each).

Written assignment: Each student will prepare a short (1-2 page double spaced max.) written assignment that is related to the group presentation. The purpose of the assignment is to help prepare for the presentation and class discussion. Assignment formats are at the instructor's discretion, and the assignments are due by email to Dr. DeVinney at the start of each in-class assignment day. Written assignments are worth 20% of the mark (5% each).

Class participation: Participation in class discussions is a required component of this course, and represents 10% of the mark. This includes discussions in the lecture blocks, in-class assignments, and student presentations.

Final project. The final project is comprised of two sections: a written proposal and an oral presentation ("professor for a day"). **This assignment must be focused on microbial pathogenesis.** Bacterial, viral and eukaryotic pathogens are fair game, and the area of choice does not need to have been discussed in class. Students will prepare a research proposal for the written portion, and present a short talk on their proposal during the final two class sessions. Information sheets about this assignment will be available on D2L, and the assignment will be discussed during the initial class session.

Research Proposal. The proposal will be a 5-6-page proposal, with a section critically reviewing the relevant literature, a hypothesis, and specific aims to describe the research strategy and methodologies proposed. A one page letter of intent for the research proposal, describing the proposal topic and briefly outlining research interests is due Oct 14, 2016 at 11:59 pm. The final proposal is due on Dec 9, 2016 at 11:59 pm.

"Professor for a day". In this section, students will present a 20 min lecture to the class on the topic area chosen for their research proposal. The lecture should be at the level of a 400-500 series course. The presentation will be evaluated by the course instructors, and students will provide short, written answers to questions pertaining to each of the other student's talks

Instructors:

Dr. Rebekah DeVinney, course coordinator (rdevinne@ucalgary.ca).

Dr. Tao Dong (tdong@ucalgary.ca)

Dr. Karen Liljebjelke (kliljebj@ucalgary.ca)

Dr. Glen Armstrong (armstrog@ucalgary.ca)

GRADING SCALE

A+ = 92

A = 86

A- = 80

B+ = 77

B = 74

B- = 70

C+ = 67

C = 64

C- = 60

D+ = 55

D = 50

F < 50