

**Microbiology 408: Microbial Pathogenesis  
Course Outline – 2015**

**Instructors:** Dr. Caroline Cameron, Room 247, Petch Building  
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**Course Website:** Material posted on CourseSpaces

**Textbook:** No textbook, all necessary material will be provided in the lectures

**TENTATIVE LECTURE SCHEDULE**

Month	Day	Section	Topic	Material to be Covered	Instructor	Assignments
January	5	I	Introduction	Content to be covered in course Introduction to microbial pathogenesis	Dr. Cameron	
	8, 12, 15	II	Host defense mechanisms and how bacteria circumvent them	1. Non-specific, innate and adaptive host defenses	Dr. Cameron	<b>January 15:</b> class time for discussion and completion of
			Microbiome	2. Contribution to host defense 3. Exploitation by pathogens		

						29 <sup>th</sup>
February	9-13		READING BREAK			
February /March	16, 19, 23, 26, 2	IV	Selected mechanisms of bacterial pathogenesis	<ul style="list-style-type: none"> <li>3. Antigenic variation</li> <li>4. Biofilms and quorum sensing</li> <li>5. modulation of apoptotic processes</li> <li>6. toxins</li> </ul>	Dr. Briant	
March	5	V	Pathogenesis of selected organisms	<ul style="list-style-type: none"> <li>1. Intracellular pathogens/Gram-negative bacteria <ul style="list-style-type: none"> <li>a. <i>Salmonella</i></li> <li>b. <i>E. coli</i></li> </ul> </li> <li>2. Gram-positive bacteria <ul style="list-style-type: none"> <li>a. <i>Staphylococcus</i></li> <li>b. <i>Listeria</i></li> </ul> </li> <li>3. Spirochetes <ul style="list-style-type: none"> <li>a. <i>Treponema pallidum</i></li> </ul> </li> </ul>	Dr. Briant	<p><b>March 5:</b> class time for discussion and completion of Assignment #3. Focus, gram-negative bacteria.</p> <p><b>Assignment #4 due March 5<sup>th</sup></b></p>
	9	V	Pathogenesis of selected organisms		Dr. Cameron	





be written before the end of the summer term as stipulated in the University Calendar.

5. Scan sheets for multiple choice exams (bubble sheets) will not be made available for review. Therefore, in addition to filling in answers on the scan sheet, students should also circle their answers in ink on their exam.
6. Professors may refuse to review/remark exams not written in ink. In addition, requests for review/remark of a midterm exam must be made within one week of the exam being returned. Students are expected to promptly pick up midterm exams after marking has been completed, either in class or from the instructor.
7. Examination papers that have pages removed, or are mutilated will not be marked.

### **Course Experience Survey (CES)**

We value your feedback on this course. Towards the end of term, as in all other courses at UVic, you will have the opportunity to complete an anonymous survey regarding your learning experience (CES). The survey is vital to providing feedback to us reg