

### BCMB 301B Laboratory Schedule Spring 2016

Week	Date	Lab(s)	Day 1	Day 2	Due Dates
1	Jan 4 – 8	Introduction Lab 1: Irreversible Inhibition Lab 2: Characterization of Salmonella LPS	Introduction Lab 1: Irreversible Inhibition	Lab 2: Extract LPS, Prepare SDS-PAGE	Academic Integrity Quiz (due by 11:59 pm on Sun, Jan.10)
2	Jan 11 – 15	Lab 2: Characterization of Salmonella LPS	Lab 2: SDS-PAGE , Serum Killing	Lab 2: Silver Stain, Analysis of Serum Killing Plates	Day 1: Lab 1 Summary
3	Jan 18 – 22	Lab 3: Intracellular Invasion of Mammalian HEp-2 Cells by <i>E.coli</i>	Lab 3: Invasion Assay & Trypsinization	Lab 3: Count Plates, Look at Cells	Day 1: Lab 2 Summary
4	Jan 25 – 29	Lab 4: Recombinant DNA Technology	Lab 4: Isolation of Genomic DNA	Lab 4: Quantify DNA, Purity Determination, PCR	Day 1: Lab 3 Summary Day 2: Lab 4 Pre-lab Assignment (p. 4-33 to 4-38)
5	Feb 1 – 5	Study Blocks: Monday Feb. 1 in ECS 123 (1:00 – 2:30), Tuesday Feb 2 in COR B108 (9am - 10:30 & 1:30 – 3:00) Midterm Exam on Labs 1-3: Tuesday, Feb. 2, 7-9 pm, ELL 168			
6	Feb 8 – 12	Reading Break			
7	Feb 15 – 19	Lab 4: Recombinant DNA Technology	Lab 4: Analysis of PCR , Plasmid preps, Nanodrop, Restriction Digests, Prepare Agarose Gel	Lab 4: Agarose Gel Electrophoresis, Ligation	
8	Feb 22 - 26	Lab 4: Recombinant DNA Technology Lab 5: Transposon Mutagenesis	Lab 4: Prepare Competent Cells, Transformation Lab 5: Phage Titrating	Lab 5: Analyze Phage Titre Plates	Day 2:Lab 5 Result Tables
9	Feb 29- Mar 4	Lab 4: Recombinant DNA Technology Lab 5: Transposon Mutagenesis	Lab 4: Examine Transformation Plates & Controls, Colony PCR, Prepare Agarose Gel Lab 5: Transposition Mutagenesis	Lab 4: Analysis of PCR by Agarose Gel Electrophoresis Lab 5: Transposition Mutagenesis Spread plates	Day 2:Lab 5 Result Tables
10	Mar 7 – 11	Lab 5: Transposon Mutagenesis	Lab 5: Analyze Plates, Replica Plating	Lab 5: Grid Plate, Streak Lac <sup>-</sup> mutants,	Day 1: Lab 4 Summary Day 2:Lab 5 Result Tables
11	Mar 14 – 18	Lab 5: Transposon Mutagenesis	Lab 5: Amino Acid Pool Plates, Lac <sup>-</sup> Mutants onto Differential Media	Lab 5: Interpret Plates	Day 2:Lab 5 Result Tables
12	Mar 21 – 25		<b>Study Block</b>		Day 1: Lab 5 Summary
13	Mar.28 – Apr.1				
Written Exam – in schedules examination period					

## Evaluation

The final mark will be based on:

lab summaries	30%
lab journal	10%
practical assessment	10%
midterm exam	15%
final exam	35%

Final course percentages and assignment of letter grades\*:

A <sup>+</sup>	90 -100	B <sup>+</sup>	77 - 79	C <sup>+</sup>	65 - 69	F	< 50
A	85 - 89	B	73 - 76	C	60 - 64	N **	< 50
A <sup>-</sup>	80 - 84	B <sup>-</sup>	70 - 72	D	50 - 59		

\*All percentages will be rounded to the nearest whole number. For example, a calculated percentage of 79.49% will be recorded as 79% whereas 79.50% will be 80%

### \*\* N grades

Students who have completed the following elements will be considered to have completed the course and will be assigned a final grade: midterm, final examination, in-class laboratories, all assignments and lab summaries. Failure to complete one or more of these elements will result in a grade of "N" regardless of the cumulative percentage on other elements of the course. An N is a failing grade, and it factors into a student's GPA as 0. The maximum percentage that can accompany an N on a student's transcript is 49.

## Attendance

Laboratory attendance and punctuality is compulsory. Failure to attend a lab or to arrive on time for a lab without prior arrangement or a written medical excuse may result in the forfeit of all marks associated with the lab. A change of lab section must be arranged with the lab instructor **prior** to the lab period.

Students who miss a lab are responsible for maintaining their lab journal and for obtaining the data in order to write up the lab report. This may involve a student performing the lab once they have recovered.

## Course Experience Survey (CES)

We value your feedback on this course. Towards the end of term you will have the opportunity to complete a confidential course experience survey (CES) regarding your learning experience. The survey is vital to providing feedback to us regarding the course and our teaching, as well as to help the department improve the overall program for students in the future. When it is time for you to complete the survey, you will receive an email inviting you to do so. If you do not receive an email invitation, you can go directly to <http://ces.uvic.ca>. You will need to use your UVic NetLink ID to access the survey, which can be done on your laptop, tablet or mobile device.

## Course Accessibility

Students with diverse learning styles and needs are welcome in this course. In particular, if you have a disability/health consideration that may require accommodations, approach the Resource Centre for Students with a Disability (RCSD) as soon as possible (<http://rcsd.uvic.ca/>) in order to assess your specific needs.

## Department Information and Policies

1. The Department of Biochemistry and Microbiology upholds and enforces the University's policies on academic integrity. These policies are described in the current University Calendar. All students are advised to read this section.
2. Cell phones, computers, and other electronic devices must be turned off at all times unless being used for a purpose relevant to the class. Students having a cell phone, tablet, or computer on their person during an exam will be assumed to have it for the purpose of cheating.
3. Any recordings of lectures may only be performed with written permission of the instructor, and are for personal use only. The instructor retains copyright to such recordings and all lecture materials provided for the class (electronic and otherwise); these materials must not be shared or reposted on the Internet.
4. Course materials, such as notes, problem sheets, quizzes, examinations, example sheets, or review sheets, may not be redistributed without the explicit written permission of the instructor.
5. Students are expected to be present for the midterm and final exams. Instructors may grant deferrals for midterm examinations for illness, accident, or family affliction, and students must provide appropriate documentation 48 hours after the

midterm exam. The Department of Biochemistry and Microbiology considers it a breach of academic integrity for a student taking a deferred examination to discuss the exam with classmates. Similarly, students who reveal the contents of an examination to students taking a deferred examination are considered to be in violation of the University of Victoria policy on academic integrity (see current University Calendar). Deferral of a final exam must be requested with an Academic Concession form and submitted directly to Undergraduate Records. Deferred final exams for fall term courses will be arranged by the instructor. Deferred final exams for spring term courses will be arranged through Undergraduate Records and must be written before the end of the summer term as stipulated in the University Calendar.

6. Multiple choice scan sheets for machine scoring (bubble sheets) are considered the authentic exam answer paper and will be retained by the department for 1 year.
7. Professors may refuse to review/remark exams not written in indelible ink. In addition, requests for review/remark of a midterm exam must be made within one week of the exam being made available.
8. Examination papers that have pages removed, or are mutilated will not be marked.
9. Professors and instructors reserve the right to use plagiarism detection software or other platforms to assess the integrity of student work.