

BCMB 301B Expected Learning Outcomes

In BCMB 301B, you will have the opportunity to employ fundamental biochemical, microbiological and molecular biological laboratory techniques to investigate experimental problems. Using data generated in a range of experiments, you will learn to apply relevant theoretical concepts to analyse the data and evaluate experimental outcomes. In addition to developing analytical and practical laboratory skills, you will develop problem solving and critical thinking skills by relating acquired knowledge to new problems or trouble-shooting questions. Time management skills will be developed through efficient organization of experimental components.

Upon successful completion of BCMB301B you will have an understanding of the principles studied, and be able to apply that understanding to new problems. You will be able to communicate scientific principles effectively, and keep accurate records of your experimental work. You will have demonstrated a proficiency in the laboratory techniques employed such as: setting up assays, molecular cloning techniques, aseptic technique, eukaryotic tissue culture in a biological safety cabinet, performing calculations for solution preparation, serial dilutions, classical microbiology techniques and data analysis.

What to Expect in BCMB 301B Summer 2021

BCMB 301 labs will be held in Petch 145. In the lab students will work independently, with the support of a lab instructor and a teaching assistant (TA), to complete the lab protocol. To accommodate the requirements for social distancing there is a maximum of 16 students in the summer lab session. The reduced number of students in the lab each

Course Evaluation

The final mark will be based on:

Prelab and Procedural Quizzes	5%
Discussion Quizzes	15%
Practical Assessment	15%
Lab Summaries	15%
Exam #1 (Labs 1 & 2)	18%
Exam #2 (Lab 3)	16%
Exam #3 (Lab 4)	16%

Final course percentages and assignment of letter grades*:

A⁺	90 - 100	B⁺	77 - 79	C⁺	65 - 69	F	< 50
A	85 - 89	B	73 - 76	C	60 - 64	N **	< 50
A⁻	80 - 84	B⁻	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 recorded as 80%

** N grades

Students that have written the examinations and completed the in-class laboratories will be assigned a final grade. Failure to complete these jTT2 1 -3 (e)-2 (n)1 (t o-2 ()m/TT2 1 -3 96.0 Td

Week

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July 8	Thurs	Lab 1: Silver Stain, Analysis of Serum Killing Plates	Lab 3 Prelab Assignment Lab 1 Journal	
July 12	Mon	Lab 2: Invasion Assay & Trypsinization		
July 13	Tues	Lab 1 Discusst.48 1.26 ref393.96 2 (t (te 48 (d) 26 Feb 09, 902 (6cr 0.0010 from 11) 13 T-2 (1(t) 43		

DEPARTMENT INFORMATION AND POLICIES

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through Undergraduate Records and must be written before the end of the summer term as stipulated in the University Calendar.

8. Requests for review/remark of a midterm exam must be made within one week of the exam being returned.
9. The instructor reserves the right to use plagiarism detection software or other platforms to assess the integrity of student work.
10. Supplemental exams or assignments will not be offered to students wishing to upgrade their final mark.
11. Anonymous participation in online classes is not permitted without permission of the instructor.

Important note about COVID-related stress

The current pandemic is placing added stressors- financial, mental, and physical- on everyone. Your wellbeing is of foremost importance. If you are experiencing difficulties