BCMB 301B Course Outline Summer 2014
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Laboratory Schedule Summer 2014

Week	Date	Lab(s)	Day 1	Day 2	Due Dates
1	May 6, 7	Introduction Lab 1: Irreversible Inhibition	Introduction Lab 1: Irreversible Inhibition		Academic Integrity Quiz (complete by 11:59 pm on Sun, May 11) Lab 2 Pre-lab Assignment due Fri. May 9th by 12:30.
2	May 13,14	Lab 2: Recombinant DNA Technology	Lab 2: Isolation of Genomic DNA	Lab 2: Quantify DNA, Purity Determination, PCR	Day 1: Lab 1 Summary
3	May 20, 21	Lab 2: Recombinant DNA Technology	Lab 2: Analysis of PCR , Plasmid preps, Nanodrop, Restriction Digests, Prepare Agarose Gel	Lab 2: Agarose Gel Electrophoresis, Ligation	
4	May 27, 28	Lab 2: Recombinant DNA Technology Lab 3: Transposon Mutagenesis	Lab 2: Prepare Competent Cells, Transformation Lab 3: Phage Titring	Lab 2: Examine Transformation Plates & Controls, Colony PCR, Prepare Agarose Gel Lab 3: Analyze Phage Titre Plates	Day 2: Lab 3 Result Tables
5	June 3, 4	Lab 2: Recombinant DNA Technology Lab 3: Transposon Mutagenesis	Lab 2: Analysis of PCR by Agarose Gel Electroph Lab 3: Transposition Mutagenesis	Lab 3: Transposition Mutagenesis Spread plates	Day 2:Lab 3 Result Tables
6	June 10, 11	Lab 3: Transposon Mutagenesis	Lab 3: Analyze Plates, Replica Plating Quiz Labs 1 & 2	Lab 3: Grid Plate, Streak Lac- mutants,	Day 1: Lab 2 Summary Day 2: Lab 3 Result Tables
7	June 17, 18	Lab 3: Transposon Mutagenesis	Lab 3: Amino Acid Pool Plates, Lac- Mutants onto Differential Media	Lab 3: Interpret Plates	Day 2:Lab 3 Result Tables
8	June 24, 25	Lab 4: Intracellular Invasion of Mammalian HEp-2 Cells by *E.coli*	Lab 4: Invasion Assay & Trypsinization	Lab 4: Count Plates, Look at Cells	Day 1: Lab 3 Summary
9	July 1, 2		No Labs - Reading Break	Quiz Labs 3 & 4	Day 2: Lab 4 Summary Day 2: Lab 5 Pre-lab Calculations
10	July 8, 9	Lab 5: Characterization & Classification of Salmonella LPS	Lab 5: Extract LPS, Serum Killing, prepare SDS-PAGE	Lab 5: SDS-PAGE, Analysis of Serum Killing Plates.	
11	July 15, 16	Lab 5: Characterization & Classification of Salmonella LPS	Lab 5: Western Transfer, Silver Stain	Lab 5: Western Detection	
12	July 22, 23				Day 1: Lab 5 Summary
13	July 29		Final Exam		

Evaluation

The final mark will be based on:

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

Final grades will be strictly determined as follows:

90.00 – 100%	A+
85.00 – 89.99%	A
80.00 – 84.99%	A^-
77.00 – 79.99%	B+
73.00 – 76.99%	B
70.00 – 72.99%	B^-
65.00 – 69.99%	C+
60.00 – 64.99%	C
50.00 – 59.99%	D
≤ 49.99%	F
≤ 49.99%	N*

*N is assigned if a student did not write the examination or complete course requirements by the end of the term or session. 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.