

Laboratory Schedule

Date (pt total)	Experiment	Lab Manual Pages
DAY 1 Mon Aug 26 Tu Aug 27	Course introduction 1: Streak plate	I-XXXI 1-9
DAY 2 Wed Aug 28 Th Aug 29	1: Evaluations 2: Spread plate 3: Simple stain	8 10-13 14-25
Mon Sept 2 Tues Sept 3	Labor Day NO CLASS	
DAY 3 Wed Sept 4 Th Sept 5	2: Evaluations 4: Gram stain	13 25-26
DAY 4 Mon Sept 9 Tu Sept 10	5: Wet mount, Darkfield and Phase Contrast	29-38
DAY 5 (13) Wed Sept 11 Th Sept 12	6a: Sporeformers enrichment	39-50
DAY 6 (13) Mon Sept 16 Tu Sept 17	6b: Sporeformers isolation, 1	39-50
DAY 7 (12) Wed Sept 18 Th Sept 19	6c: Sporeformers isolation, 2	51-52
DAY 8 (13) Mon Sept 23 Tu Sept 24	6c: Sporeformers post-enrichment, 1	53-54

Date (pt total)	Experiment	Lab Manual Pages
DAY 9 (12) Wed Sept 25 Th Sept 26	6c: Sporeformers post-enrichment, 2	55-56
DAY 10 (26) Mon Sept 30 Tu Oct 1	8a: Identification isolation 10: Antibiotic Producing Bacteria, Intro	71-79 118-127
DAY 11 (46) Wed Oct 2 Th Oct 3	8b: Identification purification, 1 9a-c: Biochemical tests, 1 10: Antibiotic Producing Bacteria	81 87-116 118-127
Th Oct 3	OPEN HOURS BEGIN, SEE SCHEDULE	
DAY 12 (47) Mon Oct 7 Tu Oct 8	8b: Identification purification, 1 9a-c: Biochemical tests, 2 10: Antibiotic Producing Bacteria (Start Protocol 1)	81 87-116 118-127
DAY 13 (25) Wed Oct 9 Th Oct 10	8c: Identification dichotomous keys; inoculate tests, 1 10: Antibiotic Producing Bacteria	82-83 118-127
DAY 14 (25) Mon Oct 14 Tu Oct 15	8c: Identification; inoculate tests, 2 10: Antibiotic Producing Bacteria	82-83 118-135
DAY 15 (25) Wed Oct 16 Th Oct 17	8c: Identification; inoculate tests, 3 10: Antibiotic Producing Bacteria	82-83 118-135
Fri Oct 18	OPEN HOURS END	
DAY 16 (17) Mon Oct 21 Tu Oct 22	10: Antibiotic Producing Bacteria (Start Protocol 2)	118-135

Date (pt total)	Experiment	Lab Manual Pages
DAY 17 (17) Wed Oct 23 Th Oct 24	10: Antibiotic Producing Bacteria (Start Protocol 3)	118-135
DAY 18 (17) Mon Oct 28 Tu Oct 29	10: Antibiotic Producing Bacteria	118-135
DAY 19 (17) Wed Oct 30 Th Oct 31	10: Antibiotic Producing Bacteria	118-135
DAY 20 (17) Mon Nov 4 Tu Nov 5	10: Antibiotic Producing Bacteria	118-135
DAY 21 (29) Wed Nov 6 Th Nov 7	11a: Transposon mutagenesis conjugation 10: Antibiotic Producing Bacteria	136-140 118-135
DAY 22 (29) Mon Nov 11 Tu Nov 12	11c: Transposon mutagenesis selection, 1 10: Antibiotic Producing Bacteria	141 118-135
DAY 23 (30) Wed Nov 13 Th Nov 14	11c: Transposon mutagenesis selection, 2 10: Antibiotic Producing Bacteria	142 118-135
DAY 24 (30) Mon Nov 18 Tu Nov 19	11c: Transposon mutagenesis characterization, 1 10: Antibiotic Producing Bacteria	143-147 118-135
DAY 25 (30) Wed Nov 20 Th Nov 21	11c: Transposon mutagenesis characterization, 2 10: Antibiotic Producing Bacteria	143-148 118-135
Sat Nov 23 to Sun Dec 1	Fall Break	

Date (pt total)	Experiment	Lab Manual Pages
DAY 26 Mon Dec 2 Tu Dec 3	Lab Practical Review and Practice Lab clean up & drawer inventory	
DAY 27 (42) Wed Dec 4 Th Dec 5	Lab Practical Exam, Part I Dilution problem calculation, Gram stain, brightfield microscopy, streak plate	
DAY 28 (58) Mon Dec 9 Tu Dec 10	Lab Practical Exam, Part II Dilutions & spread plate, wet mount & phase contrast, biochemical tests, dichotomous key	

Lecture Schedule

Date	Topic(s)
August 30 Lecture 1	Basic microbiology techniques (aseptic technique, pure culture, plating); Staining (cell wall structure)
September 6 Lecture 2	Staining; Microscopy
September 13 Lecture 3	Microscopy
September 20 Lecture 4	Sporeformers
September 27 Lecture 5	Bacterial growth; Sporeformers
October 4 Lecture 6	Bacterial growth; Biochemical tests
Thursday, October 10	Exam 1 Basic microbiology techniques; Staining; Microscopy; Sporeformers; Bacterial growth
October 18 Lecture 7	DROP DEADLINE Identification; Antibiotic producing bacteria
October 25 Lecture 8	Identification; Antibiotic producing bacteria
November 1 Lecture 9	Antibiotic producing bacteria
November 8 Lecture 10	Transposon mutagenesis
November 15 Lecture 11	Transposon mutagenesis
November 22 Lecture 12	Antibiotic producing bacteria; Dilutions
November 29	Fall Break
December 6 Lecture 13	TBA
FINALS WEEK	Final Exam Biochemical tests; Identification; Antibiotic producing bacteria; Transposon mutagenesis

Laboratory Assignment Schedule

Date	Assignment Due	Point Total
DAY 1 Mon Aug 26 Tu Aug 27	Nothing Due	
DAY 2 Wed Aug 28 Th Aug 29	Nothing Due	
Mon Sept 2 Tues Sept 3	Labor Day NO CLASS	
DAY 3 Wed Sept 4 Th Sept 5	Pre-lab 1-5: Basic Technique	10 points
DAY 4 Mon Sept 9 Tu Sept 10	Nothing Due	
DAY 5 Wed Sept 11 Th Sept 12	Post-lab 1-5: Basic Technique Pre-lab 6: Sporeforming bacteria	10 points 10 points
DAY 6 Mon Sept 16 Tu Sept 17	Nothing Due	
DAY 7 Wed Sept 18 Th Sept 19	Nothing Due	
DAY 8 Mon Sept 23 Tu Sept 24	Nothing Due	
DAY 9 Wed Sept 25 Th Sept 26	Nothing Due	
Fri Sept 27	7: Growth Curve opens in LON-CAPA at 2pm	40 points

Date	Assignment Due	Point Total
DAY 10 Mon Sept 30 Tu Oct 1	Pre-lab 8: Identification Post-lab 6: Sporeforming bacteria	10 points 10 points
DAY 11 Wed Oct 2 Th Oct 3	Pre-lab 9: Biochemical Tests 6: Sporeforming bacteria Lab Report	10 points 63 points
DAY 12 Mon Oct 7 Tu Oct 8	7: Growth Curve exercise on LON-CAPA 10: Antibiotic Producing Bacteria, Protocol 1	40 points 30 points
DAY 13 Wed Oct 9 Th Oct 10	Post-lab 9: Biochemical tests	10 points
Th Oct 10	Exam 1 Basic microbiology techniques; Staining; Microscopy; Sporeformers; Bacterial growth	100 points
DAY 14 Mon Oct 14 Tu Oct 15	9: Biochemical Tests Lab Report	43 points
DAY 15 Wed Oct 16 Th Oct 17	Nothing Due	
DAY 16 Mon Oct 21 Tu Oct 22	10: Antibiotic Producing Bacteria, Protocol 2 Post-lab 8: Identification	30 points 10 points
DAY 17 Wed Oct 23 Th Oct 24	8: Identification Lab Report 10: Antibiotic Producing Bacteria, Protocol 3	47 points 30 points
DAY 18 Mon Oct 28 Tu Oct 29	10: Antibiotic Producing Bacteria, Protocol 1 (Revision and Discussion)	58 points
DAY 19 Wed Oct 30 Th Oct 31	Nothing Due	
DAY 20 Mon Nov 4 Tu Nov 5	Nothing Due	

Date	Assignment Due	Point Total
DAY 21 Wed Nov 6 Th Nov 7	Pre-lab 11: Transposon mutagenesis	10 points
DAY 22 Mon Nov 11 Tu Nov 12	Nothing Due	
DAY 23 Wed Nov 13 Th Nov 14	10: Antibiotic Producing Bacteria, Protocol 3 (Revision and Discussion)	58 points
DAY 24 Mon Nov 18 Tu Nov 19	Nothing Due	
DAY 25 Wed Nov 20 Th Nov 21	10: Antibiotic Producing Bacteria, Protocol 2 (Revision and Discussion)	69 points
Sat Nov 23 to Sun Dec 1	Fall Break	
DAY 26 Mon Dec 2 Tu Dec 3	11: Transposon mutagenesis Lab Report (NO LATE LAB REPORTS ACCEPTED) Post-lab 11: Transposon mutagenesis	62 points 10 points
DAY 27 Wed Dec 4 Th Dec 5	Lab Practical Exam, Part I Dilution problem calculation, Gram stain, brightfield microscopy, streak plate	Parts 1 and 2 worth a total of 100 points
DAY 28 Mon Dec 9 Tu Dec 10	Lab Practical Exam, Part II Dilutions & spread plate, wet mount & phase contrast, biochemical tests, dichotomous key	
Finals Week	Final Exam Biochemical tests; Identification; Antibiotic producing bacteria; Transposon mutagenesis	100 points