

**Syllabus - ACBS 421B – FALL 2014**

<b>DATE</b>	<b>MODULE</b>	<b>EXERCISE NAME</b>	<b>ASSIGNMENTS</b>
08-26-2014		Review of Basic Laboratory Techniques	
08-28-2014	1-1	Measurement of Bacterial Growth -1	
09-02-2014	1-2, 2-1	Measurement of Bacterial Growth -2; Gram-positive Cocci -1	<b>Flow Chart [Module 2] due</b>
09-04-2014	2-2	Gram-positive Cocci -2	<b>Module 1 post-lab due</b>
09-09-2014	2-3, 3-1	Gram-positive Cocci -3; Gram-positive Rods -1	<b>Flow Chart [Module 3] due</b>
09-11-2014	3-2	Gram-positive Rods -2	<b>Module 2 post-lab due</b>
09-16-2014	3-3, 4-1	Gram-positive Rods -3; Gram-negative non-enteric bacteria -1	<b>Flow Chart [Module 4] due</b>
09-18-2014	4-2	Gram-negative non-enteric bacteria -2	<b>Module 3 post-lab due</b>
09-23-2014	4-3, 5-1	Gram-negative non-enteric bacteria -3; Gram-negative enteric rods -1	
09-25-2014	5-2	Gram-negative enteric rods -2	<b>Module 4 post-lab due</b>
09-30-2014	5-3, 6-0	Gram-negative Enterics -3 Sample collection for 16S Identification	
10-02-2014	6-1	Bacterial Identification by 16S DNA sequencing -1	<b>Module 5 post-lab due</b>
10-07-2014	6-2	Bacterial Identification by 16S DNA sequencing -2	
10-09-2014		<b>Diagnostic Bacteriology PRACTICAL EXAMINATION</b>	<b>Module 6 post-lab due</b>
10-14-2014			
10-16-2014			
10-21-2014	7-1	Sub-species typing; RFLPs -1	
10-23-2014	7-2	Sub-species typing; RFLPs -2	<b>Lab report [Practical Exam] due</b>
10-28-2014	8-1	ΦX174: Stop codons -1	<b>Module 7 post lab due</b>
10-30-2014	8-2	ΦX174: Stop codons -2	
11-04-2014	9-1	ΦX174: Suppressor mutations -1	<b>Module 8 post-lab due</b>
11-06-2014	9-2	ΦX174: Suppressor mutations -2	
11-11-2014	9-3	ΦX174: Suppressor mutations -3	
11-13-2014	9-4	ΦX174: Suppressor mutations -4	
11-18-2014	10-1	SDS-PAGE & Protein Quantitation -1	<b>Module 9 post-lab due</b>
11-20-2014	10-2	SDS-PAGE & Protein Quantitation -2	<b>Lab report [Module 9] due</b>
11-25-2014	11-1	Western Hybridization -1	
11-27-2014		<b>NO CLASS or LABS - THANKSGIVING</b>	
12-02-2014	11-2, 12-1	Western Hybridization -2; Direct ELISA -1	<b>Module 10 post-lab due</b>
12-04-2014	12-2	Direct ELISA -2	<b>Module 11 post-lab due</b>
12-09-2014		Review	<b>Module 12 post-lab due</b>
12-15-2014		<b>FINAL EXAMINATION</b>	

### **Post-lab Assignments and Lab Report Due Dates:**

All lab report and post-laboratory assignment submission will occur via ***D2L Dropbox***, which will ***automatically close at 5:00PM MST on the day of submission***. Only one file per student will be uploaded. Time and upload deadlines will be strictly adhered to, and ***no exceptions will be made***. See due dates below.

<b>POST-LAB ASSIGNMENTS</b>	<b>CONTENT</b>	<b>DUE DATE</b>	<b>POINTS</b>
Post-lab Assignment 1	Module 1	9-04-2014	10
Post-lab Assignment 2	Module 2	9-11-2014	10
Post-lab Assignment 3	Module 3	9-18-2014	10
Post-lab Assignment 4	Module 4	9-25-2014	10
Post-lab Assignment 5	Module 5	10-02-2014	10
Post-lab Assignment 6	Module 6	10-09-2014	10
Post-lab Assignment 7	Module 7	10-28-2014	10
Post-lab Assignment 8	Module 8	11-04-2014	10
Post-lab Assignment 9	Module 9	11-18-2014	10
Post-lab Assignment 10	Module 10	12-02-2014	10
Post-lab Assignment 11	Module 11	12-04-2014	10
Post-lab Assignment 12	Module 12	12-09-2014	10
<b>Total: 11 Assignments</b>			<b>Total: 120 points</b>

<b>LAB REPORTS</b>	<b>CONTENT</b>	<b>DUE DATE</b>	<b>POINTS</b>
<b>Lab Report 1</b>	Practical Examination	10-23-2014	50
<b>Lab Report 2</b>	9	11-20-2014	50
<b>Total: 2 reports</b>			<b>Total: 100 points</b>

### **Flow Chart Due Dates for modules 2-5:**

All flow charts will be due at the beginning of Day 1 of the module.

### **Grading System:**

A total of 570 points may be achieved in this class. Standard grade cut-off values will be utilized (A=90%)

Quizzes	100 pts
Post-lab Assignments	120 pts
Lab Reports	100 pts
Practical Examination	50 pts
Midterm Examination	100 pts
Final Examination	<u>100 pts</u>
	570 pts total