Experimental Biology Laboratory (BIOL 300L) Syllabus

Summer 2014

8/14	Exam
8/12	Practical Skills Exam
8/7	Microscopy II; Bacterial Gene Transfer (Week 3)
8/5	Microscopy I; Bacterial Gene Transfer (Week 2)
7/31	Bacterial Gene Transfer (Week 1)
7/29	Alpha Amylase
7/24	Enzymes III: Data Analysis and Interpretation
7/22	Enzymes II: Kinetics
7/17	Enzymes I: pH and Temperature
7/15	Solutions and Dilutions
7/10	Determination of Protein Concentration
<u>Day:</u> 7/8	Orientation; Scientific Misconduct/Academic Integrity

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BIOL300L Extended Syllabus-Summer 2014

You will be required to prepare for lab each week by reading the lab manual and completing the Blackboard Activities listed in the table below (in the order that they are given) before coming to class.

All due dates for the notebook checks are also listed below.

	Lab:	Activities on Blackboard (Bb)	Activities in Class	Notebook due that day in class:
Tuesday 7/8	Orientation; Scientific Misconduct/ Academic Integrity	1) Print and Read "Truth and Consequences" PDF on Bb	Course Announcements Discussion of Scientific misconduct	
Thursday 7/10	Determination of Protein Concentration	 Syllabus Quiz Lab Safety Rules Quiz Bb Lecture Bb Quiz Print Data Sheet and bring to class 	Quiz (Scientific Misconduct/Academic Integrity) Lab Exercise Bring Laptop to complete graph in class	
Tuesday 7/15	Solutions and Dilutions	1) Bb Lecture 2) Bb Quiz 3) Print Data Sheet and bring to class	Quiz (Protein Concentration) Lab Exercise	ProteinConcentrationSolutionsand Dilutions
Thursday 7/17	Enzymes I	1) Bb Lecture 2) Bb Quiz 3) Print Lab Protocol and Data Sheet and bring to class	Quiz (Solutions and Dilutions) Lab Exercise	
Tuesday 7/22	Enzymes II	1) Bb Lecture 2) Bb Quiz 3) Print Lab Protocol and Data Sheet and bring to class	Quiz (Enzymes I) Lab Exercise	•Enzymes I
Thursday 7/24	Enzymes III	 Read instructions on Abstract Bb Quiz 	Quiz (Enzymes II) Lab Exercise	•Enzymes II
Tuesday 7/29	Alpha Amylase	1) Bb Lecture 2) Bb Quiz 3) Print Data Sheet and bring to class	•Lab Exercise	•Enzymes III
Thursday	Bacterial Gene	1) Bb Lecture	Quiz (Alpha Amylase)	

7/31	Transfer (week	2) Bb Quiz	al ab Evaraina	
1/31	Transfer (week	1 '	•Lab Exercise	
	1)	3) Print Beer's Law and	 Work on Beer's Law 	
		Dilutions Problem Sets	and Dilutions Problem	
		and bring to class	Sets	
Tuesday	Microscopy I;	1) Bb Lecture	Quiz (Bacterial Gene	• Microscopy I
8/5	Bacterial Gene	2) Bb Quiz	Transfer – Week 1)	
	Transfer (week	3) Print Plate Layout and	•Lab Exercise <u>s</u>	
	2)	Data Sheets and bring to		
	-	class		
Thursday	Microscopy II;	1) Bb Lecture	Quiz (Microscopy and	• Alpha
8/7	Bacterial Gene	2) Bb Quiz	Bacterial Gene Transfer	Amylase
	Transfer (week	3) Print Data Sheets and	- Week 2)	Microscopy
	3)	bring to class	•Lab Exercise <u>s</u>	II
Tuesday	Practical Skills		Practical Skills Exam will	
8/12	Exam		cover techniques from	
			entire course	
Thursday	Exam		Exam will cover entire	Bacterial
8/14			course	Gene
				Transfer