BioTech 42A: Bio-Techniques I - Agenda

Week 1: Online Sessions			
Session	Format	Hours	Topics
	Online		Course Introduction: Basics of Cell
1	Lecture	3	Culture
	Online		
2	Lecture	3	Lab Safety. Microscopes. Buffers
	Online		Nucleic Acids & Recombinant Technology
3	Lecture	3	Tradicio / Icias & Necombinant Technology
	Online		
4	Lecture	3	Enzymology & Molecular Cloning
	Online		PCR: Principles, Optimization, &
5	Lecture	3	Variations
Week 2: Online Sessions			
Session	Format	Hours	Topics
	Online		
6	Lecture	3	Introduction to Immunology
	Online		
7	Lecture	3	Proteomics
	Online		
8	Lecture	3	Hybridization. Probe Labeling including ISH
	Online		
9	Lecture	3	Protein informatics
	Online		0 11 5 1 1 0 001000 01 0 11
10	Lecture	3	Genetic Engineering & CRISPR Stem Cells
Week 3: Lab Sessions			
Session	Format	Hours	Topics
11	Lab	8	Introduction to Laboratory Research, Microscopy, and Cell Culture
12	Lab	8	Bacterial Transformation
13	Lab	8	PCR (Simple and Real Time)
14	Lab	8	Western blot ; ELISA Bioinformatics Strategies (BLAST &
15	Lab/Tutorial	8	ENTREZ)