Course Program Biology 4XX3 2009 - Schedule Week 1

Time	Mon May 4th	Tue May 5th	Wed May 6th	Thu May 7th	Fri May 8th
9:00	**T: Introduction-** (H.E. Schellhorn)	*Fire Safety* HSC 1A5	**T: Cell Fractionation (H. Schellhorn)**	Prepare and Load SDS Gel	**T: Protein Assays (H. Schellhorn)**
9:30					
10:00	*WHIMS* LCB130E	**T: Protein over-production (E. coli sigma factors-RpoD-S)**	E: His Tag Purification (Assigned Sigma factor)	SDS-Gel	**E: Proein/Enzyme Assay:**
10:30					
11:00			E: Load and Run SDS-Gels	**T: Western Analysis (Sharmila)**	
11:30					
12:00	Lunch	**Biosafety HSC 1A5**	Lunch	Lunch	Lunch
12:30					
13:00	**T: DNA Management-** (Vector NTI)		**T: Spectrophotometry and enzyme kinetics**	**E: Prepare Blot for Western**	**Quiz I**
13:30		**Lunch**			
14:00	E: Preparation of media and reagents	**T: SDS-PAGE**	**E: Stain Gel (30 min)**	**E: Run semi-dry gel**	**T: Electron Microscopy (B130E) (K. Schultes)**
14.30			**E: Destain Gel (2 h)**		
15:00		**E: SDS-PAGE**			
15:30				**E: Load gel blot into film cassette and develop**	
16:00					**T: Tissue Culture (B130E) (A . Cowie)**
16:30					
17:00	E: Streak Out/Innoculate Cultures	E: Innoculate O/N cultures	**E: Photograph Gels**		Organization of Week II (HES)
O/N	**Fill out Primer order sheet**	**Fill out an order form**		**Chemical Waste Labelling**	

T-Theory   E-Experimental

Course Program Biology 4XX3 2009 – Schedule Week 2

Time	Mon May 11th	Tue May 12th	Wed May 13th	Thu May 14th	Fri May 15th
9:00			E: Harvest pTaq Culture Lysozyme/Heat	pTaq assay by PCR	**T: Intellectual property (Marcel Mongeon)**
9:30					
10:00	**Rotation (see schedule)**	**Rotation (see schedule)**			
10:30				**T-Science Methods (R.A. Morton) (assigned paper)**	
11:00			pTaq dialysis for O/N		
11:30					
12:00	Lunch	Lunch	Lunch	Lunch	Lunch
12:30					
13:00		**Complete Rotation assignments**	**T: MOBIX/PCR Theory (A. Cowie)**	**T: Fluorescence and Microfluidics**	
13:30					
14:00				**Agarose Gel of PCR product**	
14.30	**Rotation (see schedule)**				
15:00			**SDS Protein gel**		**Quiz II**
15:30					
16:00		**Taq Polymerase (intro)**			
16:30		**Innoculate Taq Overexpression strain**			
17:00					
	Write an SOP	**Fill out DNA sequencing order**	**Read a Paper**	**Prepare a publication quality graph**	

T-Theory   E-Experimental