

Bio 242 - Laboratory Schedule and Due Dates - Fall 2018

Week - Date	Lab Activities and Due Dates	Readings
1 – Sept 3,4	----- No labs this week ----- Download and <u>read the Feller et al. journal article re: amylase</u>	Bio 242 website;
2 – Sept 10,11	Lab Introduction/ Lab Safety /lab skills review/ Micro-Bradford Protein Bioassay	Skim 4-18; read 20-31
3 – Sept 17,18 9-20 Assess 1	α -Amylase Lab 1 : Effect of pH on α -Amylase Activity Due: Protein Bioassay Standard Curve figure (in lab), Endnote citation (in Google drive) Due: Lab prep question set (amylase) – in lab	32-51
4 – Sept 24,25	α -Amylase Lab 2 – Group-Designed Amylase Experiments Due: Lab Math Problem Set #1 (see Appendix 1) – in lab	52-57
5 – Oct 1,2 10-4 Assess 2	Journal-Style Scientific Writing Workshop please bring all amylase lab materials Due: Annotated Bibliography due in lab . W – Oct 3 - Amylase Lab HELP SESSION – 7-9 pm in lab	58-59
6 – Oct 8,9	α - Amylase Lab 3 - Protein Bioinformatics; Comparative Sequence Analysis Peer Review Workshop with staff 1 hour – <u>time and location TBA</u> W Oct 10 - Due: Draft of Amylase lab for Peer Review (3 copies/group) in lecture F Oct 12 - Due: Completed Peer Reviews with PR Forms in lecture .	60-65
7 – Oct 15,16 (Fall Break 17-21)	Crime Scene Investigator: DNA Profiling Using PCR and Gel Electrophoresis Tu Oct 16 - DUE: Final Amylase lab incl. PR materials @ Carnegie Reception by 5 pm. Due: Lab prep question set (CSI lab) – in lab	66-77
8 – Oct 22,23 10-25 Assess 3	Photosynthesis 1: Interdependence of ETC and proton gradient in light reactions Due: Lab prep question set (Photosynthesis) – in lab	78-95
9 – Oct 29,30	Photosynthesis 2: Self-Designed Experiments – Influence of light intensity on the light reactions Due: Lab Math Problem Set #2 (see Appendix 1) in lab . W – Oct 31 (BOO!) - Photosynthesis Lab HELP SESSION – 7-9 pm in lab	96-98
10 – Nov 5,6 11-10 Assess 4	Scientific Writing Workshop 2 Please bring all photosynthesis lab materials Due: Lab prep question set (Transduction) – in lab Due: Lab Math Problem set #3 (see Appendix 1) in lab .	99
11 – Nov 12,13	Bacterial Transduction 1: Transducing <i>E coli</i> with an antibiotic resistance gene; PCR M - Nov 12 - Due: Draft of Photosyn. lab for Peer Review (3 copies/group) in lecture W- Nov 14 - Due: Completed Peer Reviews with PR Forms in lecture . F Nov 16 - Due: Amylase lab revisions on instructor's comments including original paper and Revision Response Form due <u>by 5 pm @ Carnegie Reception</u> .	101-110
12 – Nov 17-25	Thanksgiving Break – no labs this week – WHEW! Gobble, gobble! < Staff grading retreat to Guadalupe!! >	—
13 – Nov 26,27	Bacterial Transduction 2: Electrophoresis W Nov 28 - Due: In lecture - Final Photosynthesis lab including all PR materials @ Carnegie Reception by 5 pm.	111-118
14 – Dec 3,4	LABORATORY PRACTICAL EXAMINATION – Lab math and bench skills Schedule TBA - Plan for 2 hours to complete the exam. Due: Transduction lab report in lab	119