<table>
<thead>
<tr>
<th>Week - Date</th>
<th>Lab Activities and Due Dates</th>
<th>Readings</th>
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</thead>
<tbody>
<tr>
<td>1 – Sept 5,6</td>
<td>No labs this week. Download and read the Feller et al. journal article re: amylase</td>
<td>Bio 242 website;</td>
</tr>
<tr>
<td>2 – Sept 12,13</td>
<td>Lab Introduction/ Lab Safety / How to Read Primary Literature: Amylase article/ Micro-Bradford Protein Bioassay</td>
<td>Skim 4-31; read 33-42</td>
</tr>
</tbody>
</table>
| 3 – Sept 19,20| **α**-Amylase Lab 1: Effect of pH on **α**-Amylase Activity  
**Due:** Protein Bioassay Standard Curve figure, Annotated Bibliography due in lab.  
**Due:** Lab Math Problem Set #1 (see Appendix 1) – in lab  
**Due:** Lab prep question set (amylase) – in lab | 43-60 |
| 4 – Sept 26,27| **α**-Amylase Lab 2 – Group-Designed Experiments  
**Optional:** Draft of Title, Introduction, and Methods of Amylase paper for comments- in lab. You can also take these drafts to the ARC and see the TWAs there. | 61-64 |
| 5 – Oct 3,4| Journal-Style Scientific Writing Workshop  
W – Oct 5 - Amylase Lab HELP SESSION – 7-9 pm in lab | 65 |
| 6 – Oct 10,11| **α**- Amylase Lab 3 - Protein Bioinformatics; Comparative Sequence Analysis  
**Peer Review Workshop** with staff 1 hour – time and location TBA  
W Oct 12 - **Due:** Draft of Amylase lab for Peer Review (3 copies/group) in lecture  
F Oct 14 - **Due:** Completed Peer Reviews with PR Forms in lecture | 67-70 |
| 7 – Oct 17,18 (Fall Break 21-23)| Crime Scene Investigator: DNA Profiling Using PCR and Gel Electrophoresis  
**Tu Oct 18 - DUE:** Final Amylase lab incl. PR materials at Carnegie Reception by 4 pm.  
**Due:** Lab prep question set (CSI lab) – in lab | 71-82 |
| 8 – Oct 24,25| Photosynthesis 1: Interdependence of ETC and proton gradient in light reactions  
**Due:** Lab Math Problem Set #2 (see Appendix 1) in lab.  
**Due:** Lab prep question set (Photosynthesis) – in lab | 83-98 |
**Optional:** Draft of Title, Intro, and Methods of Photosynthesis paper, in lab  
W – Nov 2 - Photosynthesis Lab HELP SESSION – 7-9 pm in lab | 99-100 |
| 10 – Nov 7,8| Scientific Writing Workshop 2  
**Please bring all photosynthesis lab materials** | 101 |
| 11 – Nov 14,15| Bacterial Transduction 1: Transducing *E coli* with an antibiotic resistance gene; PCR  
**Due:** Lab Math Problem set #3 (see Appendix 1) in lab.  
**Due:** Lab prep question set (Transduction) – in lab  
M Nov 14 - **Due:** Draft of Photosyn lab for Peer Review (3 copies/group) in lecture  
W Nov 16 - **Due:** Completed Peer Reviews with PR Forms in lecture.  
F Nov 18 - **Due:** Amylase lab revisions on instructor’s comments including original paper and Revision Response Form due in lecture. | 103-110 |
| 12 – Nov 21,22| Thanksgiving Break – no labs this week – WHEW! Gobble, gobble!  
< Staff grading retreat to Aruba !! > | --- |
| 13 – Nov 28,29| Bacterial Transduction 2: Electrophoresis  
W Nov 30 - **Due:** In lecture - Final Photosynthesis lab including all PR materials at Carnegie Reception by 4 pm. | 111-118 |
| 14 – Dec 5,6| LABORATORY PRACTICAL EXAMINATION – Schedule TBA  
Plan for 2 hours to complete the exam.  
**Due:** Transduction lab report in lab | 119 |