4. Project Calendar

The brewery project was implemented over the course of 11 weeks during a 15 week semester and the timeline is shown below. Only weeks relevant to project are shown. One week traditional experiments and a shorter project are part of the course and are interspersed with the brewery project in the timeline. Some of the prior lab activities help prepare students for the brewery analysis because they learn sample preparation techniques, proper use of glassware for standard preparation, statistical evaluation of data, and software for creating tables and graphs. They also gain experience with some instrumentation. However, other lab exercises such as a proteomics analysis and an ELISA assay are not a prerequisite for the project. Project planning begins several weeks before laboratory work as a published procedure must found and supplies ordered.

<table>
<thead>
<tr>
<th>Week</th>
<th>Lab Lecture (Friday)</th>
<th>Laboratory Period (Mon-Fri.)</th>
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| Week 1 | Entry event  
“Know and Need to Know” list | Non-project experiment  
*Group Contracts  
*Literature Searching Assignment  
*Non-project experiment |
| Week 2 | Individual Group: Published Procedure Due  
*Multi-group Discussion: Selection of best procedure assignment  
*Instructor approves selected procedure | Non-project experiment |
| Week 3 | Non-project lab lecture  
Supply list due  
*Instructor orders supplies | Non-project experiment |
| Week 4 | Non-project lecture | Non-project experiment |
| Week 5 | Non-project lecture | Non-project experiment |
| Week 6 | Address “Need to Knows”  
Begin work on **Project Planning Assignment** | Non-project experiment |
| Week 7 | **Progress Report 1**  
Group discussion  
Address “Need to Knows” | Project Planning Assignment Due  
Brewery Project |
| Week 8 | **Progress Report 2**  
Group discussion  
Address “Need to Knows”  
**Scientific Poster Handout** | Brewery Project |
| Week 9 | **Progress Report 3**  
Address “Need to Knows”  
Collect class data | Brewery Project |
| Week 10 | Rough Draft of Poster Due  
Peer Review of Poster | Brewery Project |
| Week 11 | Project Assessment | Poster Session  
**End of Project Survey**  
**Student volunteers present at brewery** |

**Note:** Items in red are handouts that are available in the assignments and rubrics section.