

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 be found and supplies ordered.

Week	Lab Lecture (Friday)	Laboratory Period (Mon-Fri.)
Week 1	Entry event “Know and Need to Know” list	Non-project experiment Group Contracts Literature Searching Assignment
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.