

Tentative Course Schedule

The schedule and topics will change somewhat as we progress through the semester to meet the needs of the class. Expect daily reading, weekly homework assignments, and 3-4 exams plus a final.

The intent is for this course to be very hands-on. As such, Monday and Wednesday lectures will often be geared to preparing for that week's lab, and the Friday lecture periods may be used as hybrid data-processing workshops and lectures. As we move through the semester, you should become more and more self-sufficient in the lab, so this format will move more toward a pure lecture format as the semester progresses.

I will pull topics from following material:

1. Harvey Chapters 1-5
2. Weiner Chapters 1-6

I will jump around in the texts a bit, so certain sections from other chapters may be covered, too.

Lab Schedule

The lab consists of two parts: (1) *learning* techniques by completing basic labs during the first part of the semester and (2) *applying* those techniques to study a real-world problem during the second part of the semester.

Lab assignments are due at 23:59:59 on Tuesday unless otherwise specified. The best place to keep track of due dates is Canvas.

This schedule is subject to change as needed.

Week	Date	Lab
1	Aug 24	Syllabus, Safety, Statistics, and Error
2	Aug 31	Standardization - Nitrate
3	Sep 7	Standardization - Phosphate
4	Sep 14	Sample Collection + DO (During Lecture) Alkalinity Titrations (during lab period)
5	Sep 21	Hardness / TDS
6	Sep 28	IC / Field Trip Prep
7	Oct 5	Field Trip
8	Oct 12	Project
9	Oct 19	<i>Fall Break - No Lab</i>
10	Oct 26	Project
11	Nov 2	Project
12	Nov 9	Project
13	Nov 16	Project
14	Nov 23	<i>Thanksgiving - No Lab</i>
15	Nov 30	Project
18	Dec 7	Lab clean up
19	Dec 14	<i>Final Exams - No Lab</i>

During the project lab, students will complete alkalinity titrations, nitrate and phosphate analysis, fecal coliform analysis, and hardness analysis independently / in groups. Small groups of students will meet with the instructor to learn how to use the ion chromatograph and/or mercury analyzer, and will then complete those analyses of their samples.