



Week 7, Feb. 21, 25.

Vibrational frequencies, transition states, reaction paths (Cramer Ch. 10, Jensen Chs. 12-13)

Week 8, Feb. 28, Mar 4.

Electron correlation, Density Functional Theory (Cramer Chs. 7-8, Jensen Chs. 4,6)

Proposals for term projects due

Week 9, Mar. 7, 11.

Model chemistries, thermochemistry (Cramer Ch. 10)

Week 10, Mar. 21, 24.

Midterm.

Free Energy Perturbation, Solvation and QM/MM (Cramer Chs. 11-13, Leach Ch. 11)

Week 11, Mar. 28, Apr. 1

MM/QM calculations

Week 12, Apr. 4, 8.

Biochemical Molecular Modeling

Week 13, Apr. 11, 15.

SCF convergence and stability, excited states (Cramer Ch. 13)

Week 14, Apr. 18, 22.

Finish working on term projects

Finals Week

Presentations of term projects