

# Practical Homonuclear NMR (CHE-555)

**Learning outcomes:** Students will acquire **hands-on** training in understanding, setting up, customizing, processing, analyzing and interpreting a set of very useful advanced one-dimensional and two-dimensional homonuclear ( $^1\text{H}$ ) NMR experiments, as well as selected heteronuclear ( $^{13}\text{C}$ ) experiments. Emphasis will be on actual performance of useful experiments. Students will do this themselves, under the instructor's guidance. Each week we will set up more experiments and then process, analyze and interpret them. Thus, students will acquire practical experience with some of the most useful current NMR methods applicable to small and large molecules. Students will also produce parameter sets that serve them in their thesis research. The course makes provision for people with no prior experience.

Learn to collect publishable data, first time, every time, on your own molecules. Take full advantage of the excellent instrumentation at your disposal.

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F2 (ppm)