

CHEM/BCMB 4190/6190/8189 Laboratory (500 MHz NMR)

General:

This laboratory component will provide practical experience in operating the 500 MHz NMR instrument in the Chemistry Department NMR facility (**room 374**). The grade for the laboratory component is based on written reports for the laboratory exercises, which consist of answering specific questions concerning each particular lab exercise and related concepts.

The NMR lab (room 374) is in the “new” wing of the chemistry building. If you enter the chemistry building at the main entrance (on Cedar Street), you are on the 4th floor. Directly in front of you is a large glass display case. Go to your left to the first hallway, which you’ll see on your right. Go down that hallway, past the elevator to the dead end. Turn left (your only option) and walk until you see a long hallway with vending machines. Go down that hallway, past the vending machines, all the way to the end where there is a stairwell. Go down the stairs to the third floor. Go out of the stairwell and go down the hallway to your right. The NMR lab (room 374) is about halfway down the hallway, and is on your left.

Attendance at laboratory sessions is mandatory.

There will be a teaching assistant (TA) for the laboratory. The TA will assist you in operating the NMR instrumentation and guide you through the laboratory exercises. The TA will **NOT** be available for questions outside of the laboratory concerning the laboratory exercises or the laboratory reports. All such queries should be directed to Professor Urbauer.

Handouts for the laboratory sessions are available on the home page of the course web site.

The written laboratory reports should be original works of a single individual, should not be written by teams, and should not be the result of joint efforts between two or more students.

Lab Schedule:

All labs are held in the Chemistry Department NMR facility (**room 374**). All labs will begin at the times decided upon in class. **Please do not arrive late!** Labs will end when the exercises are completed. The exercises proceed much more efficiently when the students have carefully read through the laboratory exercise handout and when participation is focused.