

CHMC16H3 - Analytical Instrumentation (Wed 10-4pm TRACES Center)

The course will be split into 4 main sections :

Section 1. One week will spent on UV and 2 weeks on FT-IR

Section 2. Three weeks will be spent learning and applying NMR

Section 3. Three weeks will be spent on GC and GC-MS

Section 4. Three weeks will be spent learning HPLC and related equipment

Unless stated otherwise we will always meet in S139 (TRACES).

Assessment

There will be *no* final exam for this course. Students will be assessed on the following criteria.

- 1) 3 x Lab reports. Lab reports are worth 20% each (see later, HPLC no lab report)
- 2) 1 x term paper (20%)
- 3) Ability and Performance in the Lab sessions (20%). Remember this is a lab course you will be evaluated on your involvement, safety (lab glasses, coat), you ability to work with your team members, your ideas especially in “the research project section”, your ability to keep a lab manual that can both be used to verify your results, and repeat your work, your timeliness, and your ability to organize your time and leave the lab in good shape.

Lab reports are to be written individually and each student will be expected to attach their own copies of the relevant chromatograms, spectra etc with their reports. Plagiarized reports will not be accepted.