

Course Title: Experimental Chemistry II

Course Number	SC/CHEM 3001 3.00
Term/Session	Winter/2019
Prerequisites	SC/CHEM 3000 3.00
Course Credit Exclusions	SC/CHEM 3010 4.00, SC/CHEM 3021 4.00, SC/CHEM 3031 4.00.
Course Director	Dr. Muhammad Naeem Shahid Office: Petrie Science Building 349 E-mail: nshahid@yorku.ca
Teaching Assistant	TBA
Lab Coordinator	Michelle Barton Office: Chemistry Building 322 E-mail: mebarton@yorku.ca
Technical Staff	Ha B. Au (Inorganic) Life Science Building 229 E-mail: nebula@yorku.ca Olga Girina (Organic) Chemistry Building 306 E-mail: ogirina@yorku.ca
Meeting Times	Lecture/Tutorial: Monday 18:00 (60min)
Location	CLH J
Office Hours	Thursday 1:15 – 2:15pm (or by appointment)
Laboratories	Six laboratory hours per week (2:30- 5:30) depending on the laboratory section and field (Organic, Inorganic and Physical)

Course Content The lecture/tutorial component of this course will cover the following topics.

- i) Basic instructions on data handling
- ii) Workplace Hazardous Material Information System Training
- iii) Data interpretation and analysis
- iv) Formal scientific report writing skills
- v) Searching the chemical literature e.g. Scifinder, Reaxys
- vi) Advanced chemistry techniques involved in the laboratory will be covered including IR, UV-VIS, NMR, DSC, Ion Exchange Chromatography, Cyclic Voltammetry and Magnetic Susceptibility
- vii) Selected topics relevant to the lab theories will be discussed

Grade Evaluation The grading scheme for the course is as follows

WHMIS (5%)

Organic (45%)

Inorganic (30%)

Physical (20%)

Final Grade Faculty of Science approved letter grades

NOTE: Numerical grades are only guides for assigning the final grades. The Course director retains the prerogative on how to use numerical grades to assign letter grades. Exam and laboratory marks are made available to students; however, a final numerical mark is not disclosed to the student.

Notes on Labs

- Attendance at all laboratory sessions and WHMIS is mandatory. Absences will result in a grade of zero for any particular lab, unless for a justifiable reason (e.g. illness, family emergency, traffic accident, religious accommodations and etc.) and appropriate documentation (doctor's note, traffic report, etc.) should be provided to the course director only within three working days. Hard copy of the lab report will be due at **2:30pm** on the **7th day** of the completion of the experiment. In case of a public holiday, an electronic copy will be submitted on

due date and a hard copy can be submitted the following day. For a late lab report submission, proper documentation e.g. the doctor's note should be submitted to the course director within **three** working days or else a **10%** penalty per day will be applied on the lab report and a **zero grade** will be awarded on the lab report after the **3rd day**. Electronic copy of your lab report should be submitted to Turnitin through moodle and submission due date will be the same as the hard copy. A penalty of 10% per day will be applied in case of a late submission as stated above.

University Policies Students are required to make themselves aware of school policies relating to Academic Honesty and Integrity, Access, Religious Accommodation, Student Conduct and other matters. A summary of these policies can be accessed at <http://www.yorku.ca/secretariat/senate/committees/ascp/documents/CourseInformationForStudentsAugust2012.pdf>

A list of religiously significant dates is also maintained by the registrar's office www.registrar.yorku.ca/enrol/dates/religious.htm