

UNIVERSITY OF CALGARY
FACULTY OF SCIENCE
DEPARTMENT OF CHEMISTRY
COURSE SYLLABUS
FALL 20191. **Course: CHEMISTRY 301, The Chemical World**

LEC	DAYS	TIME	ROOM	INSTRUCTOR	OFFICE	EMAIL	OFFICE HOURS
L01	TuTh	11:00-12:15	ST 059	Dr. Thurbide	SB 219	thurbide@ucalgary.ca	TuTh 12:30-1:30

Department of Chemistry: Room SA 229, Tel: (403) 220-5341, e-mail: chem.info@ucalgary.ca

Students must use their U of C account for all course correspondence.

2. **Course Description:** The focus is on developing a general awareness and appreciation of the chemistry all around us; where chemical principles are surveyed in a variety of current and everyday contexts.
3. **Textbook:** There is no formal textbook assigned for this course. However, most 1st year chemistry textbooks may be found useful by some students as an alternate reference to supplement topics covered in class. This will be discussed further in the opening lecture.

4. **Topics to be Covered:**

Basic principles of chemical bonding

Observation of trends in the periodic table

Prediction of basic molecular structure and shape

Classification of chemical reactions

Application of stoichiometry

Essential ideas of chemical kinetics

Primary concepts of chemical equilibria

Key principles of acid/base chemistry

Department Approval

Electronically Approved

Date

August 29, 2019