Chemistry 1051 Curriculum Outline

Nivaldo J. Tro Travis D. Fridgen Lawton E. Shaw
Chemistry (3rd Canadian Edition) A Molecular Approach

The lecture and tutorial materials required for this course include:

- *Chemistry (3rd Canadian Edition) A Molecular Approach by* Nivaldo J. Tro Travis D. Fridgen Lawton E. Shaw
- *Mastering Chemistry* Access Code (for all online assignments, included with textbook from bookstore)
- *Learning Catalytics* Access Code (, included with textbook from bookstore)

Chemistry Textbook Bundles:

There are several special packages that can be purchased at the MUN bookstore which include textbooks from chemistry and certain physics and biology courses. If you are taking Chemistry and biology and/or physics then consider these packages as they are better pricing than purchasing them individually.

Be careful about the choices you make with respect to the purchase of course materials since you don't want to have to spend more than necessary. **If you have questions, please feel free to speak with your instructor upon the start of the semester.**

Course Philosophy

The main objective of this course to provide students with a general understanding of chemistry that will be built upon in more senior chemistry courses such as those in the traditional subdivisions of chemistry: analytical chemistry, biochemistry, inorganic chemistry, organic chemistry, and physical chemistry. This course will also partially provide you with a solid chemical background required for biology, engineering, pharmacy, medicine, physics, environmental or earth science, etc.

Chapter 12 Solutions 491

12.1	Thirsty Solutions, why you shouldn't drink seawater (suggested reading)	p. 491
12.2	Types of Solutions and Solubility Nature's Tendency Toward Mixing: Entropy, The Effect of Intermolecular Forces	p. 493
12.3	Energetics of Solution Formation Aqueous Solutions and Heats of Hydration	p. 498
12.4	Solution Equilibrium and Factors Affecting Solubility The Temperature Dependence of the Solubility of Solids, Factors Affecting the Solubility of Gases in Water	p. 501
12.5	Expressing Solution Concentration Molarity, Molality, Parts by Mass and Parts by	p. 506

Chapter 13 Chemical Kinetics 539

Chapter 14 Chemical Equilibrium 592