**Department of Chemistry Syllabus**

This syllabi is advisory only. For details on a particular instructor's syllabus (including books), consult the instructor's course page. For a list of what courses are being taught each quarter, refer to the Courses page. *Every instructor has prerogative to teach the course as they see fit and ultimately the instructor's syllabus supersedes all others.*

***CHE 2C: General Chemistry***

Approved:

**Suggested Textbook: (actual textbook varies by instructor; check your instructor)**

Chemical Principles, 8th Edition, Zumdahl & DeCoste, Cengage Learning, ISBN 978-1-305-58198-2

**Suggested Schedule:**

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| **Zumdahl Chapter/Topic** |
| 11: Electrochemistry |
| 19: Transition Metals & Coordination Chemistry |
| 18: The Representative Elements |
| 15: Chemical Kinetics |
| 21: Organic Molecules |
| 20: The Nucleus |

**Additional Notes:**

**Learning Goals:**

Course Goals & Objectives.

* Integrate concepts/equations and apply them to chemical problems associated with the topics covered.
* Understand and use correct nomenclature for electrochemistry, kinetics, transition metal, main group, organic, and nuclear chemistry.
* Relate electrochemistry and kinetic equations to thermodynamics, chemical reactions, and reaction parameters.
* Identify class of chemical reactions, the relationship between structure and bonding, and the periodic trends allowing for prediction of products from chemical reactions.
* Predict structure, including isomerism and the interrelationship between structure and properties.
* Understand fundamental process of nuclear chemistry and the application of kinetics to nuclear decay.
* Connect the topics to application in daily life situations.