**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 104: Forensic Analytical Chemistry***

Approved:

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

1) Required: Forensic Chemistry. Suzanne Bell (Pearson/Prentice Hall)

2) Recommended: Solutions Manual

Suggested Schedule:

TBD

Additional Notes:

Prerequisite: General Chemistry 2C (or consent of instructor).

Learning Goals:

This is primarily an experimental chemistry course. Experiments are specifically designed for those who want to acquire basic knowledge and experimental skills in forensic analytical chemistry. Through this course, students will learn how to properly acquire and analyze data on samples of a forensic nature and how to write forensic lab reports. Lecture topics include: gas chromatography, mass spectrometry, infrared spectroscopy, optical and electron microscopy, and data and error analysis. Applications to drugs, alcohol, arson debris, paint chips, fibers, and gunshot residue will be presented.