CHEMISTRY B.S. with Environmental Chemistry concentration  2010/11

Name: _______________________________  Date: _______________________________
(Quarter offered: F=Fall, W=Winter, S=Spring)  ID#: _______________________________

INTRODUCTORY REQUIREMENTS

Calculus:  MATH 11A (FWS) ___ + 11B (FWS) ___ + 22 (FWS) ___  
OR  MATH 19A (FWS) ___ + 19B (FWS) ___ + 22 (FWS) ___

General Chemistry:  CHEM 1A (FWS) ___ + 1B/M (FWS) ___ + 1C/N (FWS) ___

Biology:  BIOL 20A (FWS) ___ + BIOE 20B (FWS) ___

Organic Chemistry:  CHEM 108A/L (FW) ___ + 108B/M (WS) ___

Earth & Planetary Sciences:  EART 5/L (F) ___ OR  EART 10/L (S) ___ OR  EART 20/L (W) ___

Environmental Studies:  ENVS 25 (W) ___

Physics:  PHYS 6A/L (FW) ___ + 6B/M (WS) ___ + 6C/N (FS) ___  
OR  PHYS 5A/L (F) ___ + 5B/M (W) ___ + 5C/N (S) ___

ADVANCED REQUIREMENTS  11 total plus comprehensive requirement

Chemistry:  CHEM 103 Biochemical Structures, Reactions, and Energetics (S) ___  
CHEM 122 Principles of Instrumental Analysis (F) ___
CHEM 151A/L Chemistry of Metals Lab (S) ___
CHEM 163A Quantum Mechanics and Basic Spectroscopy (F) ___
CHEM 163B Thermodynamics and Kinetic Theory (W) ___
CHEM 164A Physical Chemistry Lab I: Data Analysis (F) ___
CHEM 164B Physical Chemistry Lab II (W) ___

Earth & Planetary Sciences:  EART 110B/M Earth as a Chemical System (W) ___

Microbiology & Environ. Toxicology:  choose ONE...
METX 101 Sources and Fates of Pollutants (F) ___
METX 102 Cellular & Organismal Toxicology (W) ___

Ocean Sciences:  ONE of the following...
OCEA 120 Aquatic Chemistry: Principles and Applications (F) ___
OCEA 220 Chemical Oceanography (W) ___

Advanced Laboratory:  ONE of the following...
CHEM 146A Advanced Laboratory in Organic Chemistry (F) ___
CHEM 146B Advanced Laboratory in Inorganic Chemistry (S) ___
CHEM 146C Advanced Laboratory in Physical Chemistry (S) ___

NOTE: Students conducting senior thesis research are required to choose a lab outside of their area of research

COMPREHENSIVE REQUIREMENT

Senior Thesis:  CHEM 195A ___ + 195B ___ + 195C ___
OR  Senior Essay:  CHEM 199 (FWS) ___

NOTE: Be sure to check prerequisites and timing of courses taught outside of Chemistry Department.