CHEMISTRY B.A.  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) ___

Organic Chemistry: CHEM 112A/L (F) ___ + 112B/M (W) ___ + 112C/N (S) ___
OR  CHEM 108A/L (FW) ___ + 108B/M (WS) ___

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

ADVANCED REQUIREMENTS  7-8 total plus comprehensive requirement

Chemistry: CHEM 151A/L Chemistry of Metals Lab (S) ___
CHEM 163A Quantum Mechanics & Basic Spectroscopy (F) ___
CHEM 163B Thermodynamics & Kinetic Theory (W) ___
CHEM 164A Physical Chemistry Lab I: Data Analysis (F) ___
CHEM 164B Physical Chemistry Lab II (W) ___

Electives: If opting for the CHEM 108 series, choose TWO from the following...
If opting for the CHEM 112 series, choose ONE from the following...
CHEM 103 Biochemical Structures, Reactions, & Energetics** (S) ___
CHEM 122 Principles of Instrumental Analysis (F) ___
CHEM 143 Organic Chemical Structure & Reactions (F) ___
CHEM 151B Chemistry of the Main Group Elements (W) ___
CHEM 156C Advanced Topics in Inorganic Chemistry (*) ___
CHEM 163C Kinetics, Statistical Mechanics, Spectroscopy (S) ___
BIOC 100A Biochemistry** (F) ___
BIOC 100B Biochemistry** (W) ___
BIOC 100C Biochemistry** (S) ___
BME 60/L Intro Programming for Biologists and Biochemists/Laboratory (W) ___
CMPS 5C Introduction to Programming in C/C++ (W) ___
CMPS 12A/L Introduction to Programming (FWS) ___
METX 101 Sources & Fates of pollutants (F) ___
METX 102 Cellular & Organismal Toxicology (W) ___
OCEA 120 Aquatic Chemistry: Principles and Applications (*) ___
OCEA 220 Chemical Oceanography (W) ___
PHYS 110A Electricity, Magnetism, & Optics (W) ___
PHYS 110B Electricity, Magnetism, & Optics (S) ___
PHYS 116A Mathematical Methods in Physics (W) ___
PHYS 116B Mathematical Methods in Physics (S) ___
PHYS 116C Mathematical Methods in Physics (F) ___

**CHEM 103 counts as an elective only if BIOC 100 ABC are not taken as electives

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