CHEMISTRY B.A. 2011/12

Name: _______________________________ Date: _______________________________

(Quarter offered: F=Fall, W=Winter, S=Spring)

ID#: __________________________________________

INTRODUCTORY REQUIREMENTS

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

OR MATH 19A (FWS) ___ + 19B (FWS) ___ + 22 (WS) ___

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

Chemistry: CHEM 151A/L Chemistry of Metals Lab (S) ___

CHEM 163A Quantum Mechanics & Basic Spectroscopy (F) ___

CHEM 163B Thermodynamics & Kinetic Theory (W) ___

CHEM 164 Physical Chemistry Lab (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 (S) ___

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) ___

PHYS 180 Biophysics (S) ___

**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

Disciplinary Communication: CHEM 151L and one of CHEM 146A, B, or C

COMPREHENSIVE REQUIREMENT: Senior Thesis: CHEM 195A ___ + 195B ___ + 195C ___

OR Senior Essay: CHEM 199 (FWS) ___

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