CHEMISTRY B.S.

Name: ___________________________ Date: ___________________________
ID#: ___________________________

(Quarter offered: F=Fall, W=Winter, S=Spring, *=Not offered this academic year)

INTRODUCTORY REQUIREMENTS

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

ONE of the following...

Advanced Mathematics:
MATH 21 (FWS) ___ OR MATH 24 (S) ___ OR AMS 10 (FS) ___

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

Organic Chemistry:
CHEM 108A/L (FW) ___ + 108B/M (WS) ___ + CHEM 110/L (S) ___

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

ADVANCED REQUIREMENTS

Chemistry:
CHEM 103 Biochemistry (W) ___
CHEM 151A/L Chemistry of Metals (W) ___
CHEM 163A Quantum Mechanics & Basic Spectroscopy (F) ___
CHEM 163B Chemical Thermodynamics (W) ___
CHEM 163C Kinetic Theory & Reaction Kinetics, Statistical Mechanics, Spectroscopic Apps (S) ___
CHEM 164 Physical Chemistry Lab (W) ___

TWO from the following...

Electives:
CHEM 122 Principles of Instrumental Analysis (F) ___
CHEM 143 Organic Chemical Structure & Reactions (F) ___
CHEM 151B Chemistry of the Main Group Elements (S) ___
CHEM 156C Adv Topics in Inorganic Chemistry (*) ___
Chem 169 Chemistry & Biology of Drug Design & Development (S) ___
BIOC 100A Biochemistry (F) ___
BIOC 100B Biochemistry (W) ___
BIOC 100C Biochemistry (S) ___
METX 101 Sources & Fates of pollutants (S) ___
METX 102 Cell & Molecular Toxicology (*) ___
OCEA 120 Aquatic Chemistry: Principles & Applications (S) ___
OCEA 220 Chemical Oceanography (W) ___
PHYS 116A Mathematical Methods in Physics (W) ___
PHYS 116B Mathematical Methods in Physics (S) ___
PHYS 180 Biophysics (S) ___

NOTE: CHEM 122 must be taken to receive certification from the American Chemical Society.

Advanced Laboratory:
ONE from 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.

Disciplinary Communication:
CHEM 151L and one of CHEM 146A, B, or C. The DC requirement MUST be taken at UCSC.

COMPREHENSIVE REQUIREMENT:
Senior Thesis: CHEM 195A (IS) ___ + 195B (IS) ___ + 195C (IS) ___
OR
Senior Essay: CHEM 194 (IS) ___

IS=Independent Study Form

http://registrar.ucsc.edu/forms/students/undergraduate-special-study-course.pdf