CHEMISTRY B.S.  

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

INTRODUCTORY REQUIREMENTS

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

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

ADVANCED REQUIREMENTS

Chemistry: CHEM 103 Biochemistry (FS) ___  
CHEM 151A/L Chemistry of Metals (S) ___  
CHEM 163A Quantum Mechanics & Basic Spectroscopy (F) ___  
CHEM 163B Thermodynamics & Kinetic Theory (W) ___  
CHEM 163C Kinetics, Statistical Mechanics, Spectroscopic (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 (W) ___  
CHEM 156C Adv Topics Inorganic Chemistry (F) ___  
Chem 169 Advanced Bioorganic Chemistry (S) ___  
BIOC 100A/K Biochemistry* (F) ___  
BIOC 100B Biochemistry* (W) ___  
BIOC 100C Biochemistry* (S) ___  
METX 101 Sources & Fates of Pollutants (F) ___  
METX 102 Cellular & Organismal Toxicology (F) ___  
OCEA 120 Aquatic Chemistry: Principles & Applications (?) ___  
OCEA 220 Chemical Oceanography (W) ___  
PHYS 116A Mathematical Methods in Physics (W) ___  
PHYS 116B Mathematical Methods in Physics (S) ___  
PHYS 180 Biophysics (S) ___  

ONE from the following...  

Advanced Laboratory: 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  

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

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