Requirements Effective March 2011 COMPLETED _____ DATE _____

CHEMISTRY MAJOR

_____ _____ _____ B.S.
NAME I.D.# Expected Grad Date Degree

General Education Requirements

has needs

- 3 THEO 101 Christian Formation
- 3 BLIT 202 Christian Scriptures I
- 3 BLIT 303 Christian Scriptures II
- 3 THEO 404 Christian Faith
- 3-4 ENGL 108 or 109 College Writing I
- 3 ENGL 210 College Writing II
- 3 COMM 105 Fundamentals of Communication
- 3 FINA 101 Introduction to Fine Arts
- 3 HIST 200 Western Civilization
- 3 LIT 205 Studies in Literature
- 3 Select from: ECON 110, PSCI 101, PSCI 223, PSYC 101, or SOCY 120
- 3-8 Elementary Foreign Language I & II OR approved International Culture Courses _____
- 3-4 BIOL 201 General Biological Science or approved biological lab science _____
- 3 PHED 126 Nutrition or PHED 190 Wellness

Major: 42-51 hours

has needs

- 4 CHEM 103 General Chemistry I
- 4 CHEM 104 General Chemistry II
- 4 CHEM 301 Quantitative Analysis
- 5 CHEM 311 Organic Chemistry I
- 5 CHEM 312 Organic Chemistry II
- 4 CHEM 382 OR 392 Physical Chemistry
- 1 CHEM 495 Chemistry Seminar

Plus completion of one of the concentrations at the right:

A: GENERAL CONCENTRATION

has needs

- 3 CHEM 320 Inorganic Chemistry
- 4 CHEM 335 Biochemistry
- 4 CHEM 382 OR 392 Physical Chemistry
- 4 CHEM 410 Instrumental Analysis

Required Supporting Courses:

- 4 MATH 147 Calculus I
- 4 MATH 148 Calculus II
- 4 MATH 261 Calculus III
- 3-4 MATH 241 Statistics OR MATH 351 Linear Algebra OR MATH 357 Differential Equations
- 5 PHYS 201 General Physics I
- 5 PHYS 202 General Physics II

B: BIOCHEMISTRY CONCENTRATION

- 4 BIOL 125 Biology I
- 4 BIOL 319 Genetics
- 4 BIOL 484 Molecular and Cell Biology
- 4 CHEM 335 Biochemistry
- 4 CHEM 436 Advanced Biochemistry

And one of the following:

- 4 BIOL 356 Microbiology OR CHEM 382 Physical Chemistry/Thermodynamics OR CHEM 392 Physical Chemistry/Kinetics OR CHEM 410 Instrumental Analysis

Required Supporting courses:

- 4 MATH 147 Calculus I
- 4 MATH 148 Calculus II
- 3-4 MATH 241 Statistics OR MATH 261 Calculus III OR MATH 351 Linear Algebra
- 8-10 One Year of Physics

C: FORENSICS CONCENTRATION

- 4 CHEM 335 Biochemistry
- 3 CHEM 340 Drug Chemistry
- 3 CHEM 375 Optical/Electron Microscopy
- 4 CHEM 410 Instrumental Analysis
- 4 BIOL 125 Biology I
- 4 BIOL 380 Toxicology

Required Supporting courses:

- 3 CJUS 243 Intro to Criminal Justice
- 3 CJUS 293 Criminal Law
- 3 CJUS 360 Criminal Procedure
- 3 CJUS 370 Criminalistics
- 4 MATH 147 Calculus I
- 4 MATH 148 Calculus II
- 4 MATH 241 Statistics
- 5 PHYS 201 General Physics I
- 5 PHYS 202 General Physics II