

Roosevelt University

Evelyn T. Stone College of Professional Studies – Bachelor of Professional Studies
BPS Major in PRE-BIOTECHNOLOGY and CHEMICAL SCIENCE

Student _____ Advisor _____

Phone _____ ID# _____ Date _____ Unofficial Official

BGS 201 (6 s.h.) or 302 (Pro-Seminar **OR** Methods of Critical Reasoning) _____

(Note: BGS 302, for Fast Track **AND** Next Step students, requires AA/AS degree **OR** 60 s.h. with 2.0 gpa)

RECOMMENDED INTRODUCTORY WORK (English and/or Math): _____

SUGGESTED INTRODUCTORY WORK (for students with no previous computer coursework): BGS 290 _____

UNIVERSITY WRITING REQUIREMENT: ENG 101 _____ ENG 102 _____ Other ENG _____

MAJOR: 57 to 63 s.h. All required classes must be passed with a grade of "C" or higher. A minimum of 30 semester hours must be taken at Roosevelt to earn the degree including three courses (13-15 s.h.) at the 300 level in the major.

I. 31 sem. hrs. in Biology and Chemistry

CHEM 101 _____ CHEM 202 _____ CHEM 211 _____ CHEM 212 _____
General Chemistry I (4 s.h.) General Chemistry II (5 s.h.) Organic Chemistry I (4 s.h.) Organic Chemistry II (4 s.h.)

BIOL 150 _____ BIOL 201 _____ BIOL 301 _____
Science/Way of Knowing (4 s.h.) Organismic Biology (5 s.h.) Cellular & Molecular Biol. (5 s.h.)

II. Three Courses in Math (10-11 s.h.):

A. MATH 121 _____ and MATH 122 _____ and MATH 231 _____
College Algebra (3 s.h.) Pre-Calculus (3 s.h.) Calculus (4 s.h.)

Or B. MATH 122 _____ and MATH 231 _____ and either MATH 232 or 217 _____
Pre-Calculus (3 s.h.) Calculus I (4 s.h.) Calc. II (4 s.h.) or Intro. Stats. (3 s.h.)

III. Two courses in Physics (10-12 s.h.)

A. PHYS 201 _____ and PHYS 202 _____
Mechanics and Heat (5 s.h.) Electromagnetism & Optics (5 s.h.)

Or B. (Required for Chem. Concentration)

PHYS 231 _____ and PHYS 232 _____
Mechanics and Thermodynamics (6 s.h.) Waves, Light, & Electromagnetism (6 s.h.)

IV. Two courses chosen from sequence A, B, or C (6-10 s.h.):

A. BIOL 355 - Biochemistry (5 s.h.), BIOL 360 - Microbiology (5 s.h.), BIOL 367 - Immunology (5 s.h.)

(BIOL 355 and CHEM 355 are the same course)

OR B. CHEM 355 - Biochem (5 s.h.), CHEM 337 - Instrumental Analysis (5 s.h.), CHEM 373 - Environmental Chem (5 s.h.)

OR C. CHEM 321 - Physical Chem I (3 s.h.), CHEM 322 - Physical Chem II (3 s.h.), CHEM 325 - Physical Chem. Lab (4 s.h.)

INTERDISCIPLINARY SEMINARS: (Note: Students with AA/AS or 60 s.h. may waive one Seminar with 9 s.h. in area and 2.0 gpa.) In order to waive an interdisciplinary seminar, a student must transfer nine semester hours or three courses (that add up to at least eight semester hours) in the area.

BGS 390 Seminar in Social Science _____

BGS 392 Seminar in Humanities _____

SENIOR THESIS BGS 399 _____

I fully understand that the courses listed on this checksheet are the requirements for this major. Any change of major may require different and/or additional courses. DATE _____

STUDENT'S SIGNATURE _____ ADVISOR'S SIGNATURE _____