Bachelor of Science (BS)  
Degree Code 121*  
Concentration Code 121B  

Program of Study for Science Majors  
ENVIRONMENTAL PROFESSIONAL  

I. GENERAL EDUCATION CURRICULUM

CHE 1101 & 1110 & CHE 1102 & 1120 fulfills Science Inquiry. MAT 1110 fulfills Quantitative Literacy requirement.

II. MAJOR REQUIREMENTS
(Not including 12 s.h. already counted in I, above)

2.0 major GPA is required for graduation. Major GPA calculation will include all courses taken in the major department, plus any other courses under II. Minimum of 18 semester hours of courses taken to fulfill major requirements must be courses offered by Appalachian.

A. Science Core Requirements: 53 semester hours

BIO 1801 (4) Biological Concepts I (Co: CHE 1101)
BIO 1802 (4) Biological Concepts II (Pre: BIO 1801 w/min grade of C)
CHE 1101/1110 (4) Introductory Chemistry I & Lab
CHE 1102/1120 (4) Intro Chemistry II & Lab (Pre: CHE 1101 & 1110)

B. Required Environmental Courses: 17 semester hours

PHY 1150 (5) Analytical Physics I (Co: MAT 1110)
PHY 2141 (3) Introduction to GIS (Pre: PHY 1151)
GLY 3150 (3) Principles of Structural Geology & Tectonics (Pre: GLY 2250, 2745)
GLY 4812 (3) Advanced GIS (Pre: GHY 3812; Sr. standing)

C. Concentration Courses: 12 semester hours

Must choose at least 1 course from Science category and at least 2 courses from Professional category.

Science

ENV 3010 (3) Dynamics of Complex Systems (Pre: BIO 1802, CHE 2101 or 2201, GLY 2250, PHY 1151)
ENV 3560 (1-3) Undergraduate Research (By permit only.)
ENV 3530-49 (1-4) Selected Topics
CHE 2202/2204 (4) Organic Chemistry II & Lab (Pre: CHE 2201 & 2203 w/min grade of “C-” in each)
CHE 2210/2211 (4) Quantitative Analysis & Lab (Pre: CHE 1102 & 1120)
C S 1445 (4) Introduction to Programming with Interdisciplinary Applications (Pre: MAT 1020 or 1025 w/min grade C-)

Professional

COM 3117 (3) Environmental Communication

ENV/GLY 3455 (3) Quantitative Data Analysis for Earth & Environmental Scientists (Pre: GLY 2250, MAT 1110, PHY 1150)

D. Science Electives: 3 semester hours

E. Environmental Science Capstone Course: Choose at least 3 semester hours
(Pre: Senior Standing)

ENV/GLY 4110 (3) Environmental Management & Impact Analysis [CAP – for ENV only] (Pre: ENV 3100 or GLY 3703; and GGY 3812)
ENV 4510 (1-3) Senior Honors Research & Thesis [CAP] (Pre: ENV 3560; ENV majors only; 3.45+ GPA cum and in ENV courses)

III. MINOR (optional)

IV. ELECTIVES (taken to a minimum of 123 hours for the degree)

2 semester hours of free electives must be outside the major discipline

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