

I. CORE CURRICULUM 44

Chemistry 1101-1110, 1102-1120 will count toward the science requirement. Math 1110 will count toward the math requirement. Courses used to fulfill Core Curriculum requirements can also be used to fulfill major requirements.

II. MAJOR REQUIREMENTS (Not including 12 s.h. already counted in I, above) 74

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 major in Biology leading to the Bachelor of Science degree in Clinical Laboratory Sciences consists of 96 semester hours of work at Appalachian (12 of which also meet Core Curriculum requirements) and 32 semester hours of work at an affiliated medical technology school. The 96 semester hours at Appalachian include 44 semester hours in core curriculum; 31 semester hours in biology; 8 semester hours in chemistry beyond the Core Curriculum requirements; 3 semester hours in statistics (and 4 semester hours of math which also fulfills the Core Curriculum requirement); and 10 hours of electives to complete 96 semester hours at Appalachian State University.

A. Biology Core Requirements: 12 semester hours (must be completed before taking any other biology courses)

- BIO 1110 _____ (4) Concepts of Biology
- BIO 2000 _____ (4) Introduction to Botany
- BIO 2001 _____ (4) Introduction to Zoology

B. Additional Required Biology Courses: 19 semester hours

- BIO 3301 _____ (4) Animal Physiology (W, ND)
- BIO 3306 _____ (3) Genetics (ND)
- BIO 3308 _____ (4) Microbiology
- BIO 3800 _____ (4) Molecular Biology (W, ND, C)
- BIO 4568 _____ (4) Immunology

C. Required Chemistry Courses: 16 semester hours

- CHE 1101/1110 _____ (4) Introductory Chem. I (ND) & lab
- CHE 1102/1120 _____ (4) Introductory Chem. II (ND) & lab
- CHE 2201/2203 _____ (4) Organic Chemistry I & lab
- CHE 2202/2204 _____ (4) Organic Chemistry II & lab (W)

NOTE: CHE 1101/1110 and 1102/1120 are included in Core Curriculum Requirements

D. Required Mathematics Courses: 7 semester hours

- MAT 1110 _____ (4) Calculus w/ Analytic Geometry I (ND) (included in Core Curriculum requirements)
- STT 2810 _____ (3) Introduction to Statistics (ND, C)

E. Courses Taken at an Affiliated Medical Technology School: 32 semester hours

Courses include Clinical Chemistry (nine semester hours), Clinical Microbiology (ten semester hours), Clinical Microscopy (nine semester hours), and Blood Banking (four semester hours).

III. MINOR (optional)

IV. ELECTIVES (taken to total 128 hours for the degree) 10

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

<u>Major Designators</u>	
2 Writing (W)	_____
1 Speaking (S)	_____
Certified Proficiency in Communication (CPC) _____	
CPC is met by completion of W and S courses within the major with a grade of "C" or better.	
<u>Other Designators</u>	
4 Writing (W)	_____
4 Multi Cultural (MC)	_____
2 Numerical Data (ND)	_____
2 Computer (C)	_____
1 Cross Disciplinary (CD)	_____