



College of Education
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College of Education

Curriculum Summary Sheet

Biology Certification

9th grade- Adult

As of Catalog 2011

Major Courses: Students interested in the Bachelor of Arts in Biology should consult with the Program Coordinator

II. REQUIRED COURSES IN SCIENCE AND MATH

A. BIOLOGY34-36

BIOLOGY CORE12

* BIO 124 Biological Principles.....	3
*BIO 125 Biological Principles Lab.....	1
**BIO 200 Biology of Plants.....	4
BIO 202/203 Biology of Animals/Lab.....	4
BIO 325 GEN Microbio.....	4
BIO 302/303 Human Anatomy & Physiology I/Lab	4
BIO 328/334 Human Anatomy & Physiology II/Lab.....	4
BIO 401 Genetics.....	4
BIO 404/405 General Ecology/Lab.....	4
BIO 482 Biology Education Capstone.....	1
BIO Elective(s).....	1-2
Bio Electives to be selected with approval of an academic advisor, from 300 and 400 level courses.	

B. CHEMISTRY:

CHEMISTRY CORE COURSES 8

*CHEM 110 General Chemistry I.....	3
*CHEM 111 General Chemistry I Lab.....	1
CHEM 112 General Chemistry II.....	3
CHEM 113 General Chemistry II Lab.....	1

C. PHYSICS:.....12

*PHYS 101 Elem Physic I	3
*PHYS 110 Elem Physics I Lab.....	1
PHYS 102 Elem Physics II	3
*PHYS 111 Elem. Physics II Lab.....	1
PHYS 345 Earth and Space Science	4

D. MATHEMATICS:

MATHEMATICS CORE COURSES.....6

MATH 145 Precalculus Algebra.....	3
MATH 160 Introduction to Statistics	3

SECOND TEACHING SPECIALIZATION (A second field is highly recommended)

E. ELECTIVES TO TOTAL 128 HOURS

Professional Education Course Component Required (40 Credit Hours)

Sem. Hrs.

***EDUC 362 Curriculum and Methods in Science..... (Field hours required).....	3
EDUC 100 Intro to Profess. Education (12 hours of Field Required)	1
EDUC 201 Human Development	3
EDUC 207 Foundations of Education (30 hours of Field Required)	3
EDUC 290 Instructional Technology	3
EDUC 293 Instructional Design (30 hours of Field Required)	3
EDUC 301 Educational Psychology (30 hours of Field Required)	3
SPED 241 Intro To Exceptionalities (6 hours of Field Required)	3
SPED 320 Collaborative Planning, Instruction & Assessment of Secondary Students with Special Learning Needs	3

PPST tests required are

Reading – 0710

score of 174;

Writing – 0720

score of 172; and

Math 0730 with a

score of 172

***PPST exemption**

**includes an ACT score of
26 or SAT score of 1170**

Praxis test required for
Biology Certification in
West Virginia. Other states
may vary.

Praxis II test required for
Biology is 0235 with a
score of 152

PLT test required for
Biology is

PLT 0624 for 7-12 with a
score of 157

**IT IS STRONGLY
RECOMMENDED THAT YOU
GO TO WEBSITE FOR ETS
TO FIND OUT WEST
VIRGINIA'S REQUIRED
TEST CODES AND SCORE
NEEDED TO PASS PRAXIS
TEST/S/.**

READ 302 Reading for Content Area (must be admitted to the Program to enroll in this course) -----3

Professional Semester Courses: **

EDUC 409 School Law & Organization-----	1
EDUC 470 Student Teaching Seminar -----	1
****EDUC 482 Student Teaching in AE -----	10

*A letter grade of "C" or better is required for every course in the Professional Education Component.

** One must be eligible to student teach to enroll in professional semester courses.

*** Field Experience Required

****If another field is added then the Student Teaching for AE Hours will be less

Praxis II (Content & Pedagogy Test also required for WV Certification) See Website www.ets.org/praxis/register

ADMISSION, RETENTION, GRADUATION, AND CERTIFICATION

All teacher education students are required to meet the requirements for admission, retention, graduation and certification as outlined in the Professional Education Admission and Retention Policy.

LIABILITY INSURANCE

Students are encouraged to have liability insurance coverage when they are working in school situations. Appropriate insurance can be obtained from an insurance agency or through membership in the W.Va. Student Education Association.