Bachelor of Science-Biology Major
2004-2006 Old Dominion University Catalog

Students earning the AS, AA, or AA&S (or university parallel) degree from a Virginia Community College automatically satisfy the lower division general education requirements. Courses marked with * require a grade of C or better to transfer, even with the AS degree. The remaining lower division courses are automatically satisfied by the AS (including foreign language), regardless of the grade earned. Additionally, courses in which a grade of A- or below were earned will not transfer. Therefore Community College degree holders may require additional credits to meet the 120 credit hour graduation minimum. (AS=Associate degree)

LOWER DIVISION GENERAL EDUCATION

A. Skills

Written Communication
ENGL 110C   _____3 ________________
ENGL 111C, 131C, PHIL 111C, or   _____3 ________________
HIST 111C

Oral Communication
_____3 ________________
(Satisfied by BIOL 405W)

Mathematics
_____3 ________________*
(MATH 162M required)

Foreign Language Skills
_____3 ________________
(Competence must be at the 102F level)

Computer Skills
_____3 ________________*
(CS 149D or higher required for Biology and Marine Biology; teacher education satisfied in the Professional Education core by ECI 304)

B. Perspectives

Fine and Performing Arts
ARTH 121A, ARTS 122A, MUSC 264A, DANC 185A, THEA 241A
_____3 ________________

History
HIST 101H, 102H, 103H, 104H, or 105H
_____3 ________________

Literature
ENGL 112L, 144L, or FLET 100L
_____3 ________________

Philosophy
PHIL 110P, 120P, or 150P
_____3 ________________

Natural Science and Technology
PHYS 111N-112N   _____4 ________________*
or GEOL 111N-112N   _____4 ________________*
Technology Requirement
(Satisfied in the major)   _____3-4 ________________

Social Sciences
_____3 ________________

ANTR 110S; COMM 200S; CRJS 215S; ECON 200S, 201S, 202S
GEOG 100S, 101S; POLS 100S, 101S; PSYC 201S, 203S; SOC
201S; WMST 201S

Departmental Requirements

BIOL 115N-116N must be passed with a C or better to continue in the program

Students may not have a grade lower than a C in any biology course counted toward the major.

BIOL 115N General Biology I   _____4 ________________*
BIOL 116N General Biology II   _____4 ________________*
BIOL 332 Genetics   _____3 ________________
BIOL 405W Biology Seminar   _____2 ________________
One course must be selected from each of the following areas with a grade of C or better earned to apply towards degree:

Molecular/Cellular
_____3-5 ________________

Organismal/evolutionary
BIOL 203, 209, 220, 221, 300, 301, 307, 314, 400, 401, 417, 420, 421, 422, 431, 433, 441, 473, or 484
_____3-5 ________________

Ecological
BIOL 205, 246, 316, 331, 400, 404, 415, 417, 419, 442, 443, 444, 445, 448, 450, 473, or 478
_____3-5 ________________

Non-biology degree requirements:
CHEM 115N College Chemistry I   _____4 ________________*
CHEM 116N College Chemistry II   _____4 ________________*
CHEM 311   _____3 ________________
CHEM elective 200-level or higher   _____5 ________________

GEOL 111N-112N or PHYS 111N-112N satisfy Natural Science
MATH 200   _____3 ________________*

STAT 130M   _____3 ________________*

Biology electives. Students must choose 16 elective hours at or above the 200 level, excluding BIOL 317. Course work in Biology must include three laboratory courses at or above the 200 level with two laboratory courses from one subdiscipline area above and one lab course from a different subdiscipline area. The laboratory courses may be selected from those listed in the areas above or from electives.

BIOL 200-400 level electives   _____3-5 ________________
_____3-5 ________________
_____3-5 ________________
_____3-5 ________________

Biology Major with Teaching Licensure in Biology
The course work must include one course each in botany, ecology, microbiology, physiology, and human anatomy.

_____4 ________________

Admission. Students wanting to be admitted to the teacher education program must have a 2.75 grade point average in the major and overall, with no grade less than C- in the content area and the professional education core as well as having passed PRAXIS I. Although students may enroll in a limited number of education courses, passing PRAXIS I scores must be on file with the Office of Teacher Education Services prior to enrollment in any education practicum course or courses in developing instructional strategies. It is recommended that students take the PRAXIS I exam prior to, or during, enrollment in ECI 301.
Continuance. Students must maintain a general grade point average of 2.75 in the academic major and complete all degree requirements for the major and in the professional education core with no grade less than a C- for continuance in the College of Education.

Graduation. Requirements for graduation include passage of the Exit Examination of Writing Proficiency; completion of the Senior Assessment; a minimum 2.75 grade point average overall and in the major, with no grade less than a C- in the major, minor, and professional education core; and completion of a minimum of 134 credit hours. In order to obtain a Virginia teaching license, all teacher education students must attain passing scores on the appropriate PRAXIS II specialty area tests. A list of the passing scores established by the Virginia Department of Education is available on the Virginia Department of Education website or the Office of Teacher Education Services, Education Building room 152.

Continuance. Students must maintain a general grade point average of 2.75 in the academic major and complete all degree requirements for the major and in the professional education core with no grade less than a C- for continuance in the College of Education.

Graduation. Requirements for graduation include passage of the Exit Examination of Writing Proficiency; completion of the Senior Assessment; a minimum 2.75 grade point average overall and in the major, with no grade less than a C- in the major, minor, and professional education core; and complete a minimum of 128 credit hours. In order to obtain a Virginia teaching license, all teacher education students must attain passing scores on the appropriate Praxis II specialty area tests. A list of the passing scores established by the Virginia Department of Education is available on the Virginia Department of Education website or the Office of Teacher Education Services, Education Building room 152.

The Professional Education core courses are as follows:

**ECI 301 Social Cultural**
3

Foundations of Education

**ECI 304 Technology Applications**
3 in Education (satisfies computer skills requirement)

**ECI 360 Class Mgmt and Discipline**
2

**ECI 408 Read/Write in Content**
3

**ECI 454 Developing Instructional Strategies: Science**
4

**ECI 485 Student Teaching**
12

**ESSE 406 Special Needs Children**
3

**ESSE 413 Fundamentals-Human Growth and Development**
3

**UPPER DIVISION GENERAL EDUCATION**

Teacher Education Core satisfies this requirement.

**Option A. Approved Minor, 12-24 hours; also second degree or second major.**

- _______________________________
- _______________________________
- _______________________________

**Option B. Cluster, 9 hours (3 hours may be in the major area of study.)**

- _______________________________
- _______________________________
- _______________________________

Requirements for graduation (non-teacher education tracks) include a minimum cumulative grade point average of 2.00 overall and in the major, 120 credit hours, passage of the Exit Examination of Writing Proficiency, and completion of Senior Assessment.