Bachelor of Science-Biology Major
2006-2008 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 C- 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 or 131C _____3 _____

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 _____3 _____
ARTH 121A, ARTS 122A, MUSC 264A, DANC 185A, THEA 241A, COMM/THEA 270A

History _____3 _____
HIST 101H, 102H, 103H, 104H, _____3 _____
or 105H or GEN 101

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

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

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

Social Sciences _____3 _____
GEN 101 may be used _____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. Upon completion of BIOL 116N, students must complete the following core of biology course (BIOL 290, 291, 292, 293, 303) which are prerequisites or corequisites for all of the upper-level biology courses (see course descriptions for individual courses). These core course have MATH 162M Precalculus I, as a pre- or corequisite. BIOL 290 should be taken within two semesters of completing BIOL 116N, and BIOL 405W should be taken during the junior or senior year. Students may not have a grade lower than a C in any of the biology core courses.

BIOL 115N General Biology I _____4 _____*
BIOL 116N General Biology II _____4 _____*
BIOL 290 Practice of Science _____
BIOL 291 Ecology
BIOL 292 Evolution
BIOL 293 Cell Biology
BIOL 303 Genetics _____3 _____
BIOL 405W Biology Seminar _____2 _____

Biology electives. Students must choose 16 elective hours from the following list of courses. Three of the courses must have a laboratory component. Laboratory courses are those indicated with the asterisk (*) below. The laboratory course selections must be from two of the three sub-disciplines areas listed below. Students may not have a grade lower than a C- in any of the biology elective courses.

Molecular/Cellular _____3-5_____
BIOL 312*, 314*, 315*, 402*, 407*, 409, 410*, 412*, 416*, 423, 424*, 425, 426*, 427, 428, 439*, 455, 456, 459, 485*, or 493

Organismal/evolutionary _____3-5_____
BIOL 221, 307*, 308, 314*, 322. 330, 400*, 401*, 420*, 421, 422*, 430, 431*, 433*, 438*, 441, 446, 454, 457,458, 461*, 473*, 490*, 491, or 492

Ecological _____3-5_____
BIOL 246, 331, 404*, 415, 419*, 428, 442*, 443, 444*, 445, 450*, 478 or 479

Additional Courses
BIOL 250 or 251, 368 or 369, 498

Non-biology degree requirements:
CHEM 115N Found of Chemistry I _____4 _____*
CHEM 116N Found Chemistry II _____4 _____*
CHEM 311 Organic Chem _____3 _____
CHEM elective 200-level or higher _____5 _____
OEAS 111N-112N or PHYS 111N-112N satisfy Natural Science
MATH 200 _____3 _____*
STAT 130M _____3 _____*

Biology Major with Teaching Licensure in Biology

The course work must include one course each in botany, ecology, evoluntion, microbiology, physiology, human anatomy, and seminar.

Admission. Students applying for admission to the teacher education programs in marketing education and technology education must (1) complete at least one semester at Old Dominion University, (2) have a 2.75 grade point average overall, in the major, and in the professional education core with no grade less than C- in all courses taken in the major and in the professional education core, and (3) have passed PRAXIS I or achieved State Board of

Education approved scores on the SAT or ACT. Although students may enroll in a limited number of education courses, admission into the teacher education program and passing PRAXIS I scores or approved equivalent test scores must be on file in the Teacher Education Services Office prior to students enrolling in any professional education practicum course.

Continuance. Student in education licensure programs must (1) satisfy University requirements, (2) continue to maintain a 2.75 grade point average overall, in the major, and in the professional education core with no earned grade less than C- in all courses taken in the major and in the professional education core, and (3) successfully complete a student teaching interview.

Assessments required for teacher education programs and licensure. In order to obtain a Virginia teaching license, all teacher education students must attain passing scores on the appropriate teacher licensure exams. Students who complete their programs after December 1, 2006 are required to take the Virginia Communication and Literacy Assessment (VCLA) to be eligible for licensure. The VCLA should be taken during the semester of student teaching. It is recommended that the VCLA be taken after students have completed their English and reading course requirements. In addition, all students must take and pass the Exit Examination of Writing Proficiency to be eligible for student teaching. The University recommends that students take this exam in their junior year. All students will take and attain a passing score on the appropriate PRAXIS II specialty test in order to be eligible for student teaching and licensure. Score reports of all examinations must be on file in the Teacher Education Services Office in room 152 of the Education Building.

Exit. Students in education licensure programs must have (1) a 2.75 grade point average overall, in the major, and in the professional education core, (2) earned a passing grade in student teaching, and (3) completed the senior assessment.

NOTE: Due to changing University requirements, national accreditation standards, and Commonwealth licensure regulations, the programs in the Darden College of Education are under constant revision. Any changes resulting from these factors supersede the program requirements described here or in the University catalog. Students should obtain current program information from their academic advisor and the Darden College of Education website at http://www.education.odu.edu.

The Professional Education core courses are as follows:

ECI 301 Social Cultural Foundations of Education	_____3	_____
ECI 304 Educational Applications in Education (satisfies computer skills requirement)	_____3	_____
ESSE 413 Fundamentals-Human Growth and Development	_____3	_____
ECI 360 Class Mgmt and Discipline	_____2	_____
ECI 408 Read/Write in Content	_____3	_____
ESSE 406 St w/Diverse Learning	_____3	_____
ECI 454 Developing Instructional Strategies: Science (with 30 hours practicum)	_____4	_____
ECI 485 Student Teaching	_____12	_____

UPPER DIVISION GENERAL EDUCATION

Teacher Education Core satisfies this requirement.

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

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

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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.