

Bachelor of Science-Biology Major
2008-2009 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		<i>VCCS Equivalent</i>
<u>Written Communication</u>		
ENGL 110C	_____3	See Transfer Guide
ENGL 111C or 131C	_____3	See Transfer Guide
<u>Oral Communication</u>		
(Satisfied by BIOL 405W)	_____3	_____
<u>Mathematics</u>		
(MATH 162M required)	_____3	MTH 163*
<u>Foreign Language Skills</u>		
(Competence must be at the 102F level)	_____3	See Transfer guide
<u>Computer Skills</u>		
(CS 149D or higher required for Biology and Marine Biology; teacher education satisfied in the Professional Education core by ECI 430)	_____3	CSC 130 or 200* EDU 280
 B. Perspectives		
<u>Fine and Performing Arts</u>		
ARTH 121A, ARTS 122A, MUSC 264A, DANC 185A, THEA 241A, COMM/THEA 270A	_____3	See Transfer guide
<u>History</u>		
HIST 101H, 102H, 103H, 104H, or 105H	_____3	See Transfer guide
<u>Literature</u>		
ENGL 112L, 144L, or FLET 100L	_____3	See Transfer guide
<u>Philosophy</u>		
PHIL 110P, 120P, or 150P	_____3	See Transfer guide
<u>Natural Science and Technology</u>		
PHYS 111N-112N	_____4	PHY 111, 201, 112, 202*
or OEAS 110N or 11N and 112N	_____4	
OEAS 110N		GOL 110*
OEAS 111N		GOL 105*
OEAS 112N		GOL 106*
Technology Requirement (Satisfied in the major)	_____3-4	_____
<u>Social Sciences</u>		
	_____3	Transfer guide
	_____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 115N-116N, students must complete the following core of biology courses, some of which are prerequisites or co-requisites for upper-level biology courses (see course descriptions). BIOL 293 and 303 have MATH 162M and CHEM 211 as pr- or co-requisites. STAT 130M is a prerequisite for BIOL 303. BIOL 290 should be taken within two semesters of completing BIOL 115N-116N, and BIOL 405W should be taken during the junior or senior year. Core course must be passed with a C (2.0) or better.

BIOL 115N General Biology I	_____4	BIO 101*
BIOL 116N General Biology II	_____4	BIO 102*
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 at the 300 level or above from the courses offered by the Department of Biological Sciences. Three of the courses must have a laboratory component, as listed in the catalog. Students may use four credits at the 200 level to satisfy the elective requirement and may use no more than six credits of unstructured courses to satisfy the requirement (See below). Elective courses must be passed with a grade of C (2.0) or better unless they are specified as Pass/Fail courses, in which case they must be passed (P).

Unstructured Courses. Students may take advantage of several non-classroom experiences offered by the Department of Biological Sciences and may receive elective credit for these experiences. These include BIOL 368 (Internship), BIOL 369 (Practicum), BIOL 497 (Undergraduate Research) and BIOL 498 (Independent Study). See the chief departmental advisor for more information.

Non-biology degree requirements:

CHEM 115N Found of Chemistry I	_____4	CHM 111*
CHEM 116N Found Chemistry II	_____4	CHM 112*
CHEM 211 Organic Chem	_____3	CHM 241*
CHEM elective 200-level or higher	_____5	_____
OEAS 110N or 111N and 112N or PHYS 111N-112N satisfy Natural Science		
MATH 200	_____3	MTH 270 OR 271*
STAT 130M	_____3	MTH 146,157,240,241,242*

Biology Major with Teaching Licensure in Biology

The course work must include one approved course each in botany, zoology, ecology, evolution, microbiology, human anatomy and physiology, 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 (no grade less than C in BIOL courses), and in the professional education core (no grade less than C-), (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 Foundations & Assessment	_____3	<u>EDU 200*</u>
ECI 360 Class Mgmt and Discipline	_____2	_____
ECI 408 Read/Write in Content	_____3	_____
ECI 430 PK-12 Instructional Tech	_____3	<u>EDU 280*</u>
(satisfies computer skills requirement)		
ECI 454 Developing Instructional Strategies: Science	_____3	_____
ECI 493 Practicum Seminar in Edu	_____1	_____
ECI 485 Student Teaching	_____12	_____
ESSE 313 Fundamentals-Human Growth and Development	_____3	<u>PSY 230*</u>
ESSE 406 St w/Diverse Learning	_____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, completion of Senior Assessment, and completion of the Biology Department Senior Assessment when offered.