

BACHELOR OF SCIENCE—Physics Major Option A

1998-2000 Old Dominion University Catalog

NAME _____

SS# _____

TELEPHONE _____

EMAIL _____

SIGNATURE/DATE _____

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)**

Entrance Writing Sample Placement Test: _____**LOWER DIVISION GENERAL EDUCATION REQUIREMENTS****A. Skills** credits VCCS transfer equivalentComposition—6 hours

ENGL 110C English Composition I _____ 3 AS/ENG 111
 ENGL 111C, 131C, HIST 111C,
 PHIL 111C _____ 3 AS/ENG 210, 115, or 131

Oral Communication—3 hours

COMM 101R, 103R, 112R _____ Satisfied in the major by
Phys 499W

Mathematics—3 hours

MATH 162M _____ Satisfied in the major by
Math 211 *

Foreign Language Skills—0-6 hours _____ AS/HS/TOEFL

(BS students' competence must be at the 102 level—see reverse for exemptions) Consult transfer guide for all equivalencies.

Computer Skills—3 hours

CS 149D _____ satisfied in the major by
 or higher _____ CS 150 or 155

B. PerspectivesFine and Performing Arts—3 hours

ART 121A, 122A, DANC 185A _____ 3 AS/ART 101, 102, 111,
112, 113, 114, 115;
 MUSC 264A, THEA 241A _____ MUS 121, 122;
SPD130, 141, or 142

History—6 hours

HIST 101H, 102H, 103H, 104H _____ 6 AS/Choose two from
HIS 101, 102, 111, 112,
121, 122, 201, 202, 203,
204, 231, 232, 251, 252,
253, or 254

Literature—3 hours

ENGL 112L, 144L, FLET 100L _____ 3 AS/ENG 112, 235, 237,
241, 242, 246, 267 or
268

Philosophy—3 hours

PHIL 110P, 120P, 150P _____ 3 AS/PHI 100, 101, 102,
211, 212, 220, REL 230
, 231, or 232

Natural Science and Technology—11 to 12 hours

Eight credit hours of Natural Science with labs in sequence. Additionally, 3-4 credit hours of Natural Science or Technology are required. See transfer guide for specific transfer equivalencies.

AS _____ AS _____ Met in the major

Social Science—6 hours

I. Social Science _____ 3 AS
 Social Science (see catalog) _____ 3 AS
 (Consult Transfer Guide for equivalencies)

Physics Course Requirements grade/credit Transfer

MATH 211 Calculus I	_____ 4	
MATH 212 Calculus II	_____ 4	
MATH 312 Calculus III	_____ 4	
MATH 307 Differential Equations	_____ 3	
MATH 401, 421, or 422	_____ 3	
PHYS 231N University Physics I	_____ 4	
PHYS 232N University Physics II	_____ 4	
CHEM 115N College Chemistry I	_____ 4	<u>CHM 111 or 113 *</u>
CHEM 116N College Chemistry II	_____ 4	<u>CHM 112 or 114 *</u>
CS 150 Intro to Programming	_____ 4	<u>or CS 155</u>
PHYS 323 Modern Physics	_____ 3	_____
PHYS 319 Analytical Mechanics	_____ 3	_____
PHYS 320 Electricity & Magnetism	_____ 3	_____
PHYS 352 Intro. Quantum Mechanics	_____ 3	_____
PHYS 403 Analog Electronics Lab	_____ 3	_____
PHYS 413 Methods of Exp. Physics	_____ 3	_____
PHYS 404 or PHYS 414	_____ 3	_____
PHYS 451 Theoretical Mechanics	_____ 3	_____
PHYS 453 Radiation & Optics	_____ 3	_____
PHYS 454 Thermal Physics	_____ 3	_____
PHYS 456 Inter. Quantum Mech	_____ 3	_____
PHYS 499W Senior Thesis	_____ 3	_____
Approved Physics Seminar	_____ 1	_____
Two courses from: Phys 311, 313, 332, 350, 411, 415, 416	_____ 3	_____
At least three credits 4xxx	_____ 3	_____
_____	_____ 3	_____

Physics Minor: (12 credits at 300-400 level)

PHYS 231-232	_____ 8	
PHYS 319	_____ 3	
PHYS 320	_____ 3	
_____	_____ 3	
_____	_____ 3	

Physics majors must earn a grade of "C" or better in the following courses to be applied towards the degree: CHEM 115N-116N, Math 211, 212.

UPPER DIVISION GENERAL EDUCATION

Satisfied by any University approved minor.

Total Credits to graduate: 120 (including 12 upper division credits in minor)

120 HOURS AND A 2.0 GRADE POINT AVERAGE IN THE MAJOR, MINOR, AND OVERALL ARE NEEDED TO GRADUATE.

Additional Graduation Requirements:

Passage of Exit Writing Exam: _____

Application for Graduation: _____

Senior Assessment: _____