

BACHELOR OF SCIENCE–Physics Major Track B (Professional)

2002- 2004 Old Dominion University Catalog

NAME: _____

Student ID# _____

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 equivalent

Composition–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

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. Perspectives

Fine and Performing Arts--3 hours
ART 121A, 122A, DANC 185A _____ 3 AS/ART 101, 102, 111,
112, 113, 114, 115;
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
Must be two separate disciplines _____ 3 AS
(Consult Transfer Guide for equivalencies)

<u>Physics Course Requirements</u>	<u>grade/credit</u>	<u>Transfer</u>
MATH 211 Calculus I	_____ 4	_____ *
MATH 212 Calculus II	_____ 4	_____ *
MATH 312 Calculus III	_____ 4	_____
MATH 307 Differential Equations	_____ 3	_____
MATH 316, 401, 421, or 422	_____ 3	_____
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	_____
PHYS 231N University Physics I	_____ 4	_____ *
PHYS 232N University Physics II	_____ 4	_____ *
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 454 Thermal Physics	_____ 3	_____
One course from PHYS 404, 414, 420, 453 or 456	_____ 3	_____
PHYS 499W Senior Thesis	_____ 3	_____
PHYS 309 or other Physics Seminar	_____ 1	_____
Two courses from: Phys 311, 313, 332, 350, 411, 415, 416, with at least 3 credits from 4xx	_____ 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, CS 150.

UPPER DIVISION GENERAL EDUCATIONSatisfied by any University approved 2nd major, minor, or cluster.

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 _____

Physics Exit Exam _____

Senior Assessment _____

PHYSICS MINOR: (12 credits at 300-400 level)

PHYS 231-232	_____ 8	_____
PHYS 319	_____ 3	_____
PHYS 320	_____ 3	_____
Six additional credits at 300-400 level	_____ 3	_____
	_____ 3	_____