

BACHELOR OF SCIENCE–Physics Major Track A (Research)
2008-2010 Old Dominion University Catalog

NAME _____

UIN: _____

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: _____

Entrance Math Placement Test: _____

LOWER DIVISION GENERAL EDUCATION REQUIREMENTS

A. Skills grade/credit VCCS transfer equivalent

Composition–6 hours

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

Oral Communication–3 hours _____ satisfied in the major by
COMM 101R, 103R, 112R _____ 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.
Consult transfer guide for all equivalencies.

Computer Skills–3 hours

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

B. Perspectives

Fine and Performing Arts--3 hours

ART 121A, 122A, DANC 185A, _____ 3 AS/ART 101, 102, 111,
MUSC 264A, THEA 241A, _____ 112, 113, 114, 115;
COMM/THEA 270A _____ MUS 121, 122; SPD130,
_____ 141, or 142

History--6 hours (Choose any 2)

HIST 101H, 102H, 103H, _____ 3 AS/Choose two from
104H, 105H _____ 3 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 I _____ 3 AS
Social Science II _____ 3 AS

--Must be two separate disciplines.

| <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 | <u>MATH 285</u> |
| MATH 307 Differential Equations | _____ 3 | <u>MATH 280</u> |
| MATH 316 or 401 or 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 303 Laboratory | _____ 3 | _____ |
| PHYS 413 Methods of Exp. Physics | _____ 3 | _____ |
| PHYS 420 Computational | _____ 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 313, 350, 411, 415, 416, 417 | _____ 3 | _____ |
| with at least three credits 4xx | _____ 3 | _____ |

***Physics majors must earn a grade of “C” or better in
PHYS 231 and PHYS 232.**

UPPER DIVISION GENERAL EDUCATION

Satisfied 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 _____
Passage of Physics Exit Exam _____
Senior Assessment _____

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

PHYS 319 _____ 3 _____
PHYS 320 _____ 3 _____

Six additional credits at 300-400 level
_____ 3 _____
_____ 3 _____

edited: 5/25/08