BACHELOR OF SCIENCE–Physics Major Track B (Professional)  
2012-2013 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: __________________________

LOWER DIVISION GENERAL EDUCATION REQUIREMENTS
A. Skills grade/credit VCCS transfer equivalent
Written Communication–6 hours
ENGL 110C English Composition I ___3 AS/ENG 111
ENGL 211C, 231C ___3 AS/ENG 112, 210, or 115, 131

Oral Communication–3 hours ___3 CST 100, 105, 110, 111, 112, or 126
COMM 101R, 103R, 112R

Mathematics–3 hours
MATH 162M ___ satisfied in the major

Language and Culture –0-6 hours AS/HS/TOEFL
BS students’ competence must be at the 102 or 111 level. Consult transfer guide for all equivalencies.

Information Literacy–3 hours
CS 120G or CS 121G ___3 AS/TEL 119

B. Ways of Knowing
Human Creativity–3 hours
ARTH 121A, ARTS122A, ___3 AS/ART 100–106, 111–114, __________
DANC 185A, MUSC 264A, MUSC 121, 122, 125;
THEA 241A, COMM/THEA
CST 130, 141, 142, 151, 152, 231, 232, 250;

History–3 hours
HIST 100H, 101H, 102H, 103H, 104H, 105H ___3 HIS 101, 102, 111, 121, 122, 203, 204, 231, 232, 253, 254

Literature–3 hours
ENGL 112L, 114L, FLET 100L ___3 AS/ENG 125, 236, 237, 241–246, 251–256, 267, or 268

Philosophy and Ethics–3 hours
PHIL 110P, 120P, 140P, 230E, 250E, 303E, 344E, 345E, 441E, 442E

Natural Science and Technology–8 hours Met in the major

Human Behavior–3 hours ___3 AS
ANTR 110S, CRJS 215S, ECON 200S, ECON 201S, ECON 202S,  
GEOG 100S, GEOG 101S, POLS 100S, POLS 101S, POLS 102S,  
PSYC 201S, PSYC 203S, SOC 201S, COMM 200S, WMST 201S,  
FIN 210S

The Impact of Technology–3 hours ___3 AS
CS300T, DNTT 440T, ENGL307T, GEOG 306T, HIST 300T, HIST 304T, HIST 389T, HIST 386T/SCI 302T, IT 360T, MUSC 335T,  
POLS 350T, STEM 110T, STEM 370T, WMST 390T, COMM 372T,  
PHIL 383T

Physics Course Requirements grade/credit Transfer
MATH 211 Calculus I ___4 ________________
MATH 212 Calculus II ___4 ________________
MATH 312 Calculus III ___4 MATH 285
MATH 307 Differential Equations ___3 MATH 280
MATH 316 or 401 or 421 or 422 ___3 ________________
CHEM 121N/122N Chemistry I* ___4 CHM 111 or 113
CHEM 123N/124N Chemistry II ** ___4 CHM 112 or 114
CS 150 Intro to Programming ___4 ________________
PHYS 231N University Physics I* ___4 ________________
PHYS 232N University Physics II* ___4 ________________
PHYS 303 Laboratory ___3 ________________
PHYS 323 Modern Physics ___3 ________________
PHYS 355 Math Methods ___3 ________________
PHYS 319 Analytical Mechanics ___3 ________________
PHYS 413 Methods of Exp. Physics ___3 ________________
PHYS 425 Electromagnetism I ___3 ________________
PHYS 452 Intro. Quantum Mechanics ___3 ________________
PHYS 454 Thermal Physics ___3 ________________

One course from:
PHYS 420, 453 or 456 ___3 ________________
PHYS 499W or 498W/490W Thesis ___3 ________________
Approved Physics Seminar ___1 ________________

Two courses from:
PHYS 311, 313, 332, 350, 411, 415, 416, 417 with at least three credits 4xx

*Physics majors must earn a grade of “C” or better in PHYS 231 and PHYS 232.  
**(CHEM 137N/138N) or (CHEM 121N/122N/123N/124N)

UPPER DIVISION GENERAL EDUCATION
Satisfied by any University approved 2nd major, minor, cluster, or two
upper-division courses (6 credits) outside of the College of Sciences,
and not required by the major (Option D).

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

Additional Graduation Requirements:
Application for Graduation ____________________________
Passage of Physics Exit Exam ____________________________
Senior Assessment ____________________________

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

PHYS 319 ___3
PHYS 323 ___3
6 additional credits at 300-400 level ___3

edited: July 19, 2012