

BACHELOR OF SCIENCE–Physics Major Track B (Professional)
2015-2016 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

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, CS 121G, LIBS 120G, _____ 3 AS/ITE 119
or ECE 111 + CS122

B. Ways of Knowing

Human Creativity--3 hours

ARTH 121A, ARTS122A, _____ 3 AS/ART 100–106, 111–114,—;
DANC 185A, MUSC 264A, MUS 121, 122, 125;
THEA 241A, COMM/THEA CST 130, 141, 142, 151, 152, 231, 232, 250;

History--3 hours

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

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, _____ 3 AS/PHI 100, 101, 102, 111, 112, 115, 220, 442E, other ‘E’ or ‘P’ course
REL 230, 231, or 232

Natural Science and Technology–8 hours Met in the major

Human Behavior–3 hours _____ 3 AS AAST 100S

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, ENTR 201S

The Impact of Technology–3 hours _____ 3 AS EET 370T, CS300T, DNTH 440T, ENGL307T, GEOG 306T, HIST 300T, HIST 304T, HIST 314T, HIST 388T, HIST 389T, HIST 386T/SCI 302T, IT 360T, MUSC 335T, POLS 350T, STEM 110T, STEM 370T, WMST 390T, COMM 372T, PHIL 383T...other ‘T’ course

Physics Course Requirements grade/credit Transfer/Substitution

MATH 211Calculus 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 121N/122N Chemistry I**	_____ 4	<u>CHM 111 or 113</u>
CHEM 123N/124N 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 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 489W/490W Thesis	_____ 3	_____
Approved Physics Seminar	_____ 1	_____
Two courses from:		
PHYS 313, 411, 415, 416, 417	_____ 3	_____
with at least three credits 4@@	_____ 3	_____

***Physics majors must earn a grade of “C” or better in MATH 211, 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).

Math Minor requires courses above + MATH 317 + three additional credits 4@@.

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	_____
	_____ 3	_____

edited: June 29, 2015