BACHELOR OF SCIENCE—Physics Major Track C (Education)
2017-2018 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.

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
COMM 101R, 103R, 112R 3 CST 100, 105, 110, 111, 112, or 126

Mathematics-3 hours
MATH 162M satisfied in the major

Language and Culture—0-6 hours

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 or ECE 111 + CS 122 3 AS/ITE 119

B. Ways of Knowing

Human Creativity—3 hours

ARTH 121A, ARTS122A, 3 AS/ART 100–106, 111

DANC 185A, MUSC 264A
THEA 241A, COMM/ THEA 270

History—3 hours

HIST 100H, 101H, 102H, 103H, 104H, 105H 3 HIS 101, 102, 111, 121, 122, 203, 204, 231, 232, 235, 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


Natural Science and Technology—8 hours Met in the major


The Impact of Technology—3 hours 3 AS

CS 300T, DNTH 440T, ENGL 307T, 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, or other ‘T’ course

Physics Course Requirements grade/credit Transfer

MATH 211C Calculus I 4 MATH 212 Calculus II 4
MATH 207 Differential Equations 3 CHEM 121N/122N Chemistry I** 4 CHEM 123N/124N Chemistry II ** 4
CS 150 Intro to Programming 4 PHYS 103N Introductory Astronomy 4
PHYS 261N University Physics I* 4
PHYS 262N University Physics II * 4
PHYS 323 Modern Physics 3
PHYS 355 Math Methods 3
PHYS 319 Analytical Mechanics 3
PHYS 425 Electromagnetism I 3
PHYS 303 Laboratory 3
PHYS 413 Methods of Exp. Physics 3
PHYS 499W or 498W/490W Thesis * 3 Approved Physics Seminar 1

*Physics majors must earn a grade of “C” or better in PHYS 261, PHYS 262 and PHYS 499W (or both PHYS 489W and PHYS 490W)

**(CHEM 137N/138N) or (CHEM 121N/122N/123N/124N)

Professional Education Requirements:

STEM 101: Step 1—Inquiry Approaches to Teaching STEM 1
STEM 102: Step 2—Inquiry Based STEM Lesson Design 1
STEM 201: Knowing and Learning in Math & Science Educ. 3
STEM 202: Classroom Interactions in STEM Education 3
STEM 401: Project-Based Instruction in STEM Education 3
SCI 468W: Research Methods in Mathematics and Science 3
STEM 402: Perspectives on Science and Mathematics 3
STEM 485: Apprentice Teaching 9

UPPER DIVISION GENERAL EDUCATION

Satisfied by Secondary Education Endorsement.

120 HOURS AND A 2.75 GRADE POINT AVERAGE IN THE MAJOR, EDUCATION, AND OVERALL ARE NEEDED TO GRADUATE.

NO COURSE WITH A GRADE OF LESS THAN C- CAN BE USED TO SATISFY GRADUATION REQUIREMENTS.

Additional Graduation Requirements:

Application for Graduation
Passage of Physics Exit Exam
Senior Assessment

edited: November 2, 2017