2017-2018 Old Dominion University Catalog	THM
Students earning the AS, AA, or AA&S (or university parallel) degree from division general education requirements. Courses marked with * requiremaining lower division courses are automatically satisfied by the Additionally, courses in which a grade of "C-" or below were earned will require additional credits to meet the 120 credit hour graduation minimum.	ire a grade of C or better to transfer, even with the AS degree. The e AS (including foreign language), regardless of the grade earned. not transfer. Therefore, Community College degree holders may
Entrance Writing Sample Placement Test:	Entrance Math Placement Tests
LOWER DIVISION GENERAL EDUCATION REQUIREMENTS A. Skills grade/credit VCCS transfer equivalent	Entrance Math Placement Test: Physics Course Requirements grade/credit MATH 211 Calculus I* Transfer 4
Written Communication-6 hours	MATH 212 Calculus II 4
ENGL 110C English Composition I 3	MATH 312 Calculus III 4 MATH 285 MATH 307 Differential Equations 3 MATH 280 MATH 316 or 401 or 421 or 422 3
Oral Communication—3 hours 3 CST 100, 105, 110, 111,	CHEM 121N/122N Chemistry I** 4 CHM 111 or 113
COMM 101R, 103R, 112R	CHEM 123N/124N Chemistry II** CS 150 Intro to Programming PHYS 261N University Physics I 4 CHM 112 or 114 4 PHYS 261N University Physics I
Mathematics-3 hours	PHYS 262N University Physics II 4 *
MATH 162M ✓ satisfied in the major	PHYS 303 Laboratory 3
	PHYS 323 Modern Physics3
Language and Culture –0-6 hours AS/HS/TOEFL	PHYS 355 Math Methods3
BS students' competence must be at the 102 or 111 level. Consult transfer guide for all equivalencies.	PHYS 319 Analytical Mechanics3
Consult transfer guide for all equivalencies.	PHYS 413 Methods of Exp. Physics3
<u>Information Literacy–3 hours</u>	PHYS 425 Electricity & Magnetism3
CS 120G, CS 121G, LIBS 120G3 AS/ITE 119	PHYS 454 Thermal Physics 3
or ECE 111 + CS 122	One course from:
	PHYS 420, 453 or 4563
B. Ways of Knowing	PHYS 499W or 489W/490W Thesis*3
Human Creativity3 hours ARTH 121A, ARTS122A, 3 AS/ART 100–106, 111–	Approved Physics Seminar11
ARTH 121A, ARTS122A,3 <u>AS/ART 100–106, 111–</u> 114,—;	One course from:
DANC 185A, MUSC 264A, THEA 241A, COMM/THEA 270 MUS 121, 122, 125; CST 130, 141, 142, 151,	PHYS 311, 313, 332, 350, 411, 415, 416, 417.
<u>152, 231, 232, 250;</u>	*Physics majors must earn a grade of "C" or better in
History3 hours	MATH 211, PHYS 261, PHYS 262 and PHYS 499W (or both
HIST 100H, 101H, 102H, 103H, 104H, 105H 3 <u>HIS 101, 102, 111,</u> 121, 122, 203, 204, 231, 232, 253, 254	PHYS 489W and PHYS 490W). **(CHEM 137N/138N) or (CHEM 121N/122N/123N/124N)
Literature3 hours	UPPER DIVISION GENERAL EDUCATION
ENGL 112L, 114L, FLET 100L3 AS/ENG 125, 236, 237,	Satisfied by MBA CORE Curriculum, taken Senior Year – each
<u>241–246, 251–256, 267,</u>	course grade must be B or better for admittance to MBA program:
or 268	ACCT 601 Accounting for Managers 3
Philosophy and Ethics—3 hours PHIL 110P, 120P, 140P, 230E, 3 AS/PHI 100, 101, 102	BNAL 600 Foundations of Statistics 3
250E, 303E, 344E, 345E, 441E, 111, 112, 115, 220,	EUN 604 Mgmt. Econ & Trade 3
442E, or other 'E' or 'P' course REL 230, 231, or 232	ECON 604 Mgmt. Econ & Trade 3 FIN 605 Financial Management 3 MGMT 602 Organizational Mgmt. 3
	MKTG 603 Market Management 3
Natural Science and Technology–8 hours Met in the major	For Physics degree only: 120 HOURS AND A 2.0 GRADE
Human Dahanian 2 hanna	POINT AVERAGE IN THE MAJOR, MINOR, AND OVERALL
Human Behavior-3 hours 3 AS ANTR 110S, CRJS 215S, ECON 200S, ECON 201S, ECON 202S,	ARE NEEDED TO GRADUATE.
GEOG 100S, GEOG 101S, POLS 100S, POLS 101S, POLS 102S,	Additional B.S. Graduation Requirements:
PSYC 201S, PSYC 203S, SOC 201S, COMM 200S, WMST 201S,	Application for Graduation
FIN 210S	Passage of Physics Exit Exam
The Impact of Technology–3 hours 3 AS	Senior Assessment
CS300T, DNTH 440T, ENGL307T, GEOG 306T, HIST 300T, HIST	For MBA: Additional 30 credits hours in MBA program. For
304T, HIST 389T, HIST 386T/SCI 302T, IT 360T, MUSC 335T,	detailed information on MBA courses and concentrations, please refer
POLS 350T, STEM 110T, STEM 370T, WMST 390T, COMM 372T,	to the MBA information in the Old Dominion University Graduate

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NAME: _____

BACHELOR OF SCIENCE-Physics Major Track E (BS Physics and MBA)

PHIL 383T, or other 'T' course