

2017 - 2018 Old Dominion University Catalog
Bachelor of Science in Physics
(Concentration E: Dual Degree Program with MBA) (w/ VCCS Equivalencies)

*Sample four year curriculum with a suggested ordering of courses. Students may re-order as needed.
 * indicates not automatically waived with transferrable associates degree, C or better required for transfer.
 Courses in green are waived by the completion of an Associate degree (Not eligible for Applied Associate degrees).*

YEAR 1 - FRESHMAN (33 CREDITS)			
FALL SEMESTER (17 credits)		SPRING SEMESTER (16 credits)	
<u>General Education and Major Coursework:</u>		<u>General Education and Major Coursework:</u>	
MATH 211 (4 credits)	<u>VCCS Equivalency:</u> MTH 173, 263 or 273*	ENGL 211C or 231C	<u>VCCS Equivalency:</u> ENG 112, 210, 115 or 231*
ENGL 110C	ENG 111*	Human Creativity	Transfer Guide
Language and Culture I (May be waived, see catalog for details)	Transfer Guide	Language and Culture II (May be waived, see catalog for details)	Transfer Guide
CS 150 (4 credits)	CSC 201 or EGR 126*	MATH 212 (4 credits)	MTH 174, 264, or 274*
Information Literacy and Research: CS 120G or CS 121G	Transfer Guide	Human Behavior	Transfer Guide
YEAR 2 - SOPHOMORE (31 CREDITS)			
FALL SEMESTER (14 credits)		SPRING SEMESTER (17 credits)	
<u>General Education and Major Coursework:</u>		<u>General Education and Major Coursework:</u>	
CHEM 121N and 122N (4 credits)	<u>VCCS Equivalency:</u> CHM 111*	CHEM 123N and 124N (4 credits)	<u>VCCS Equivalency:</u> CHM 112*
Literature	Transfer Guide	Interpreting the Past	Transfer Guide
Philosophy and Ethics	Transfer Guide	PHYS 262N (4 credits)	See note below*
PHYS 261N (4 credits)	See note below*	Oral Communication	Transfer Guide
		Impact of Technology	Transfer Guide
YEAR 3 - JUNIOR (32 CREDITS)			
FALL SEMESTER (16 credits)		SPRING SEMESTER (16 credits)	
<u>Major Coursework:</u>		<u>Major Coursework:</u>	
MATH 312 or 285 (4 credits)	<u>VCCS Equivalency:</u> MTH 265 or 277*	MATH 316, 401, 421 or 422	
MATH 307 or 280	MTH 267 or 279*	PHYS 355	
PHYS 319		PHYS 413	
PHYS 323		PHYS 425	
PHYS 303		PHYS 454	
		MBA 600 (1 credit)	
YEAR 4 - SENIOR (28 CREDITS)			
FALL SEMESTER (14 credits)		SPRING SEMESTER (14 credits)	
<u>Major Coursework:</u>		<u>Major Coursework:</u>	
PHYS 452		Approved Physics Seminar (1 credit)	
PHYS 499W or 489W & 490W		PHYS 313, 411, 415, 416 or 417	
PHYS 420, 453 or 456		MBA 603 (1 credit)	
MBA 601 (1 credit)		MBA 604 (1 credit)	
MBA 602 (1 credit)		MBA course** (2 credits)	
MBA course** (2 credits)		MBA course** (2 credits)	
MBA course** (2 credits)		MBA course** (2 credits)	
		MBA course** (2 credits)	
YEAR 5 - (26 CREDITS)			
FALL SEMESTER (14 credits)		SPRING SEMESTER (12 credits)	
MBA course** (2 credits)		MBA course** (2 credits)	
MBA course** (2 credits)		MBA course** (2 credits)	
MBA course** (2 credits)		MBA course** (2 credits)	
MBA course** (2 credits)		MBA course** (2 credits)	
MBA course** (2 credits)		MBA course** (2 credits)	
MBA course** (4 credits)		MBA course** (2 credits)	

**Please consult the catalog and your ODU advisor for MBA coursework.

Language and Culture may be waived, see ODU catalog for exemptions.

The Upper Division General Education is satisfied by M.B.A. Pre-Core and Core Curriculum. Students must maintain a 3.0 GPA in these courses to continue in the program.

Concentration E is a Bachelor of Science in physics and Master of Business Administration dual degree program. After students have satisfactorily completed their undergraduate requirements, they complete the remaining requirements in the M.B.A. program. Students must earn a minimum of 150 credits (120 for the undergraduate degree and 30 for the graduate degree).

Requirements for graduation include a minimum cumulative grade point average of 2.00 overall and in the major, a grade of C or better in all courses required for the major, including prerequisite courses, 120 credit hours, which must include both a minimum of 30 credit hours overall and 12 credit hours in upper-level courses in the major program from Old Dominion University, completion of ENGL 110C, ENGL 211C or 221C or 231C, and a writing intensive (W) course in the major with a grade of C or better, and completion of Senior Assessment.

Note: PHYS 261N and 262N have no VCCS equivalency. However, if you must take Physics courses for the AS degree, you should take PHY 221, 231 or 241 and PHY 222, 232 or 242. These courses transfer as PHYS 231N and PHYS 232N. The Department will assess student's proficiency and substitute for PHYS 261N and 262N if eligible.