2022 - 2023 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). Associate in Science recommended for ease of transfer.

YEAR 1 - FRESHMAN (30 CREDITS)			
FALL SEMESTER (16 credits) SPRING SEMESTER (14 credits)		4 credits)	
General Education and Major Coursework:	VCCS Equivalency:	General Education and Major Coursework:	VCCS Equivalency:
MATH 211 (4 credits)	MTH 173, 263 or 273*	MATH 212 (4 credits)	MTH 174, 264, or 274*
ENGL 110C	ENG 111*	ENGL 211C or 231C	ENG 112, 210, 115 or 131*
Oral Communication	Transfer Guide	CS 150 (4 credits)	EGR 126 or ITP 132 (all VCCS) or CSC 201 (only accepted from TCC, TNCC, PHCC or PDCCC)*
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
Human Creativity	Transfer Guide		
YEAR 2 - SOPHOMORE (32 CREDITS)			
FALL SEMESTER (17 credits)		SPRING SEMESTER (15 credits)	
General Education and Major Coursework:	VCCS Equivalency:	General Education and Major Coursework:	VCCS Equivalency:
CHEM 121N and 122N (4 credits)	CHM 111*	CHEM 123N and 124N (4 credits)	CHM 112*
PHYS 261N (4 credits)	See note below*	PHYS 262N (4 credits)	See note below*
Literature	Transfer Guide	MATH 312 or 285 (4 credits)	MTH 265 or 277*
Information Literacy and Research: CS 120G or CS 121G or OEAS 130G	Transfer Guide	Impact of Technology	Transfer Guide
Human Behavior	Transfer Guide		
YEAR 3 - JUNIOR (31 CREDITS)			
FALL SEMESTER (15 credits) SPRING SEMESTER (16 credits)			6 credits)
General Education and Major Coursework:	VCCS Equivalency:	Major Coursework:	
MATH 307 or 280	MTH 267 or 279*	MATH 316, 401, 421 or 422**	
PHYS 355		PHYS 319	
PHYS 323		PHYS 413	
PHYS 303		PHYS 425	
Philosophy and Ethics	Transfer Guide	MBA 600 (1 credit)	
The second secon		Interpreting the Past	Transfer Guide
YEAR 4 - SENIOR (32CREDITS)			
FALL SEMESTER (16 credits)		SPRING SEMESTER (16 credits)	
Major Coursework:		Major Coursework:	
PHYS 452		Approved Physics Seminar (1 credit)	
PHYS 454		ASTP 313, ASTP 414, PHYS 411, PHYS 415, PHYS 416 or PHYS 417**	
PHYS 499W or 489W & 490W**		MBA 603 (1 credit)	
PHYS 420, 453 or 456**		MBA 604 (1 credit)	
MBA 601 (1 credit)		MBA courses** (10 credits)	
MBA 602 (1 credit)		` ,	
MBA course** (2 credits)			
YEAR 5 - (28 CREDITS)			
FALL SEMESTER (14 credits)		SPRING SEMESTER (1	4 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** (2 credits)		MBA course** (2 credits)	

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

MBA course** (2 credits)

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.

MBA course** (2 credits)

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.

This five-year plan is a suggested curriculum to complete this degree program in four years. It is just one of several plans that will work and is presented only as broad guidance to students. Each student is strongly encouraged to develop a customized plan in consultation with their academic advisor. Additional information can also be found in Degree Works.