

**2014 - 2015 Old Dominion University Catalog**  
**Bachelor of Science in Physics**  
**(Concentration E: Dual Degree Program with MBA)**

*Sample four year curriculum with a suggested ordering of courses. Students may re-order as needed.*

**YEAR 1 - FRESHMAN (30 CREDITS)**

**FALL SEMESTER (14 credits)**

General Education and Major Coursework:

MATH 211 (4 credits)  
 ENGL 110C  
 Language and Culture I  
 be waived, see catalog for details)  
 CS 150 (4 credits)

**SPRING SEMESTER (16 credits)**

General Education and Major Coursework:

ENGL 211C or 231C  
 Human Creativity  
 (May Language and Culture II  
 (May be waived, see catalog for details)  
 MATH 212 (4 credits)  
 Human Behavior

**YEAR 2 - SOPHOMORE (28 CREDITS)**

**FALL SEMESTER (14 credits)**

General Education and Major Coursework:

CHEM 121N and 122N (4 credits)  
 Literature  
 Philosophy and Ethics  
 PHYS 231 (4 credits)

**SPRING SEMESTER (14 credits)**

General Education and Major Coursework:

CHEM 123N and 124N (4 credits)  
 Interpreting the Past  
 PHYS 232N (4 credits)  
 Oral Communication

**YEAR 3 - JUNIOR (31 CREDITS)**

**FALL SEMESTER (16 credits)**

Major Coursework:

MATH 307  
 MATH 312 (4 credits)  
 PHYS 319  
 PHYS 323  
 PHYS 303

**SPRING SEMESTER (15 credits)**

Major Coursework:

MATH 316, 401, 421 or 422  
 PHYS 355  
 PHYS 413  
 PHYS 425  
 PHYS 454

**YEAR 4 - SENIOR (31 CREDITS)**

**FALL SEMESTER (15 credits)**

General Education and Major Coursework:

PHYS 452  
 PHYS 499W or 489W & 490W  
 PHYS 420, 453 or 456  
 ACCT 601\*  
 BNAL 600\*

**SPRING SEMESTER (16 credits)**

Professional Education Coursework:

Approved Physics Seminar (1 credit)  
 PHYS 311, 313, 332, 350, 411, 415, 416 or 417  
 ECON 604\*  
 FIN 605\*  
 MGMT 602\*  
 MKTG 603\*

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

\*The Upper Division General Education is satisfied by M.B.A. Core Curriculum: MBA Core course taken senior year – all must be B or better for continuance in the M.B.A. program

Concentration E is a five-year Bachelor of Science in physics and Master of Business Administration dual degree program. After students have satisfactorily completed their undergraduate requirements, they complete 30 credit hours in the M.B.A. program.

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.