

## B.S. in Physics/M.B.A. | Suggested 5-Year Accelerated Pathway

### First Year

BTGE-1725 The Bible and the Gospel (3)  
 CHEM-1050 Chemistry for Engineers (3.5)  
 COM-1100 Fundamentals of Speech (3)  
 CS-1210 C++ Programming (2)  
 ENG-1400 Composition (3)  
 MATH-1710 Calculus I (5)  
 MATH-1720 Calculus II (5)  
 PEF-1990 Physical Activity and the Christian Life (2)  
 PHYS-2110 General Physics I (4)

**Total Credit Hours: 30.5**

### Second Year

BTGE-2730 Old Testament Literature (3)  
 BTGE-2740 New Testament Literature (3)  
 EGEE-2050 Circuits and Instrumentation (4)  
 GBIO-1000 Principles of Biology (3.5)  
 GSS-1100 Politics and American Culture (3)  
 MATH-2710 Calculus III (3)  
 MATH-2740 Differential Equations (3)  
 PHYS-2120 General Physics II (4)  
 PHYS-2130 General Physics III (2)  
 PHYS-3310 Theoretical Mechanics (3)

**Total Credit Hours: 31.5**

### Third Year

ACCT-2110 Principles of Accounting I (3)  
 ACCT-2120 Principles of Accounting II (3)  
 BTGE-3755 Theology I (3)  
 BTGE-3765 Theology II (3)  
 ECON-2110 Essentials of Economics\* (3)  
 HUM-1400 Introduction to the Humanities (3)  
 MATH-3610 Linear Algebra (3)  
 PHYS-3110 Intermediate Physics Lab (2)  
 PHYS-3350 Thermal Physics (3)  
 PHYS-3410 Electromagnetic Theory (3)  
 PHYS-3510 Modern Physics (3)  
 PHYS-3800 Research Methods in Physics (1)

**Total Credit Hours: 33**

### Fourth Year

GMTH-2110 Introduction to Biostatistics\*\* (3)  
 PHYS-4110 Advanced Physics Lab (2)  
 PHYS-4210 Mathematical Methods for Physicists (3)  
 PHYS-4520 Quantum Mechanics (3)  
 PHYS-4800 Physics Senior Seminar (1)  
 LIT-2XXX Literature Elective (3)  
 History/Global Awareness Elective (3)  
 Humanities Elective (3)  
 Physics Electives (6)  
 MGMT-6710 Organizational Design and Behavior (3)  
 M.B.A. Core or Elective\*\*\* (3)

**Total Credit Hours: 33**

### Fifth Year

ACCT-6300 Accounting for Business Executives (3)  
 ECON-6400 Managerial Economics (3)  
 FIN-6500 Executive Financial Management (3)  
 ITM-6800 IT for Comp Advantage (3)  
 MRKT-6200 Strategic Marketing Planning (3)  
 Legal/Ethics Course† (3)  
 Quantitative Course† (3)  
 Capstone Course† (3)  
 Electives (6)

**Total Credit Hours: 30**

This 5 year accelerated pathway is based on the even-year offering cycle for physics classes and assumes prior completion of undergraduate proficiency requirements. A plan for an odd-year offering cycle for physic courses is available from your faculty advisor.

\*ECON-2110 satisfies the social science elective for the B.S. general eduation requirements and satisfies the M.B.A. microeconomics prerequisite.

\*\*GMTH-2110 (or another approved statistics course) satisfies the M.B.A. business statistics prerequisite.

\*\*\*Contact the M.B.A. graduate advisor during your B.S. studies to identify the M.B.A. core or elective course that will satisfy the M.B.A. generalist/concentration pathway you plan to complete.

†The M.B.A. course you select depends on the M.B.A. generalist/concentration pathway you plan to complete.

Required prerequisite course for the M.B.A. program

M.B.A. course