Bachelor of Arts: Major in PHYSICS  
2013-2014 Catalog Year

University Core Requirements

- English: 6 hours
  ENGL 1310/1313, TECM 1700 ________
  ENGL 1320/1323, TECM 2700 ________

- Math: 3 hours
  MATH 1710 ________

- Laboratory Sciences: 2 courses
  CHEM 1410/1430 ________
  CHEM 1420/1440 ________

- Visual and Performing Arts: 3 hours
  Choose from approved list ________

- Humanities: 3 hours
  Choose from approved list ________

- US History: 6 hours
  HIST 2610 ________
  HIST 2620 ________

- American Government: 6 hours
  PSCI 1040 ________
  PSCI 1050 ________

- Social and Behavioral Sciences: 3 hours
  Choose from approved list ________

- Discovery: 3 hours
  See approved list ________

- Capstone: 3 hours
  See attached handout for University Core requirements approved list

Major Requirements

- PHYS 1710/1730 Mechanics + Laboratory
  or PHYS 1510/1530
  or PHYS 1410/1420 and 1420/1440
- PHYS 2220 Electricity & Magnetism + Laboratory
  or PHYS 1520/1540
- PHYS 3010/3030 Modern Physics + Laboratory

Select 15 hours advanced-level physics courses from those listed below:

- PHYS 3210 Mechanics
- PHYS 3220 Mechanics II
- PHYS 3310 Math Methods in Physical Science
- PHYS 3420 Electronics
- PHYS 4110 Statistical & Thermal Physics
- PHYS 4210 Electricity & Magnetism
- PHYS 4310 Quantum Mechanics
- PHYS 4150 Experimental Physics I
- PHYS 4160 Experimental Physics II
- PHYS 4170 Experimental Physics III
- PHYS 4220 Electromagnetic Waves
- PHYS 4350 Advanced Modern Physics I – Atomic & Molecular PHYS 4360 Advanced Modern Physics II – Nuclear & Particle
- PHYS 4420 Physical Optics
- PHYS 4500 Introduction to Solid-State Physics
- PHYS 4520 Physics of Nano-scale Materials
- PHYS 4550 Modern Classical Dynamics
- PHYS 4600 Computer Based Physics
- PHYS 4650 Advanced Modern Astrophysics
- PHYS 4710 Foundations of Theoretical Physics

Additional BA Degree Requirements

- MATH 1710 Calculus I
- MATH 1720 Calculus II
- MATH 2730 Multivariable Calculus
- CHEM 1410/1430 General Chemistry I + Laboratory
- CHEM 1420/1440 General Chemistry II + Laboratory