

Program: Bachelor of Science with a Major in Physics

This program prepares the student for graduate study in physics and provides for job entry level as a physicist. A grade of C or better is required in all physics courses.

Core curriculum Areas A-E for science majors		42
Core Curriculum Area F		18
PHYS 2211, 2212 Principles of Physics I, II	8	
MATH 2011, 2012, 2013 Calculus I one hour, II, III	9	
CSCI 1301 or 2060 Programming for Science and Engineering	1	
Non-Core Courses		6-17
MATH 2011 (if not in D, transfer student)	0-3	
CSCI 1301 or 2060 (three hours from F)	3	
CHEM 1211, 1212 Principles of Chemistry I, II (if not in D)	0-8	
MATH 3020 (Differential Equations)	3	
Major Concentration		36
PHYS 3011, 3012 Electronics I, II	8	
PHYS 3250 Theoretical Mechanics	4	
PHYS 3260 Computational Physics	3	
PHYS 3300 Modern Physics	3	
PHYS 4010 Advanced Laboratory	3	
PHYS 4051, 4052 Electromagnetic Theory I, II	6	
PHYS 4310 Thermal Physics	3	
PHYS 4530 Mathematical Methods of Physics	3	
PHYS 4600 Quantum Mechanics	3	
Electives		7-18
Physical Education		5
Satisfactory Physics Oral Exam (Departmental requirement)		
Physics Written Exit Exam (Institutional requirement)		
Total Hours for Degree		125

Updated for Fall 2009

PHYSICS MAJOR
FRESHMAN YEAR

Fall Semester

MATH 1113 (3)
CHEM 1211 (4)
ENGL 1011 (3)
Core E (3)
Elective (3)

16 Total

Spring Semester

Math 2011 (4)
CHEM 1212 (4)
ENGL 1102 (3)
Core E (3)

14 Total

SOPHOMORE YEAR

Fall Semester

MATH 2012 (4)
PHYS 2211 (4)
HUMN 2001 (4)
Core E (3)

15 Total

Spring Semester

MATH 2013 (4)
PHYS 2212 (4)
HUMN 2002 (4)
Core E (3)

15 Total

JUNIOR/ SENIOR YEAR

Fall Semester

PHYS 3011 (4)
PHYS 4051 (3)
PHYS 4530 (3)
MATH 3020 (3)

14 Total

Spring Semester

PHYS 3012 (4)
PHYS 4052 (3)
PHYS 4310 (3)
Core D or Elective (3-4)

13-15 Total

SENIOR/JUNIOR YEAR

Fall Semester

PHYS 3250 (4)
PHYS 3300 (4)
PHYS 4530 (3)
CSCI 2060 (3)
COMS 1010/1020 (2)

16 Total

Spring Semester

PHYS 4600 (3)
PHYS 4100 (3)
PHYS 3260 (3)
Electives (6)

16 Total

Note: 5 hours of Physical Education to be included.