

PHYSICS, B.S.

Major in Physics, BS

Code	Title	Hours
Credits Required for Major		
true		
Minimum Residency 50% of Major Courses		
true		
Minimum GPA 2.0 for Major		

REQUIRED PHYSICS COURSES

PHYS 231	Physics 1 with Calculus (C- or better)	5
PHYS 232	Physics 2 with Calculus (C- or better)	5
PHYS 233	Wave-Particle Theory	3
PHYS 266	Electronics	3
PHYS 311	Mechanics 1	3
PHYS 321	Electromagnetic Fields 1	3
PHYS 331	Fundamentals of Optics	2
PHYS 334	Macroscopic Physics	3
PHYS 351	Intermediate Physics Lab 1	1
PHYS 352	Intermediate Physics Lab 2	1
PHYS 395	Techniques of Mathematical Physics	3
PHYS 451	Advanced Physics Lab 1	1
PHYS 471	Quantum Mechanics	3
PHYS 492	Physics Research and Seminar	2
PHYS 498	Independent Study/Research	4

ELECTIVES

Mechanics II or Electromagnetic Fields II - Choose 1 of the following:		3
PHYS 312	Mechanics 2	
PHYS 322	Electromagnetic Fields 2	
Required Elective - Choose 1 of the following:		3-4
PHYS 431	Solid State Physics	
PHYS 435	Statistical Mechanics	
PHYS 462	Advanced Electronics	
PHYS 495	Topics in PHYS	
PHYS 498	Independent Study/Research	

Total Hours **48-49**

Req Related for Physics, BS

Code	Title	Hours
CHEMISTRY AND COMPUTER SCIENCE		
CHEM 111	Introductory Chemistry 1	4
Introductory Chemistry II or Intro to Prog Data Science - Choose 1 of the following:		4
CHEM 112	Introductory Chemistry 2	
CSCI 151	Intro to Programming for Data Science I	

MATHEMATICS REQUIREMENTS

Calculus I(C- minimum) or Calculus Honors - Choose 1 of the following:		4-5
MATH 161	Calculus 1 (with Grade >= 1.7)	
MATH 163H	Honors Calculus 1 (with Grade >= 1.7)	
MATH 211	Calculus 2 (with Grade >= 1.7; C- minimum)	4
MATH 311	Calculus 3	4
MATH 322	Linear Algebra 1	4
Ord Diff Equations		3
MATH 365	Ordinary Differential Equation	
Total Hours		27-28