

PHYSICS (BA)

Suggested Sequence of Courses for a Bachelor of Science or a Bachelor of Arts Degree in Physics

Course	Title	Hours
Freshman Year		
First Semester		
Complete the Classical Physics I sequence: ¹		4
PHYS-2100	Classical Physics I	
PHYS-2101	Classical Physics I Lab	
CHEM-1200	General Chemistry I Lecture	3
CHEM-1201	General Chemistry I Laboratory	1
Foreign Language		4
GNST-1000	BC Experience	1
MATH-1300	Calculus I	4
Hours		17
Second Semester		
Foreign Language		4
PHYS-2110	Classical Physics II	4
& PHYS-2111	and Classical Physics II Lab	
CHEM-1210	General Chemistry II Lecture	3
CHEM-1211	General Chemistry II Lab	1
MATH-1350	Calculus II	4
EXSC-1115	Wellness for Life	1
Hours		17
Sophomore Year		
First Semester		
PHYS-3200	Relativity & Atomic Physics	3
PHYS-3201	Modern Physics Lab	1
MATH-2300	Calculus III	4
PHIL-1750	Principles of Nature	3
THEO-1100	Introduction to Theology	3
Oral Communication		3
Hours		17
Second Semester		
PHYS-3210	Nuclear & Elementary Particle Physics	2
PHYS-3211	Modern Physics Lab II	1
MATH-3100	Differential Equations	3
CSCI-2300	Programming for Scientists & Engineers	3
PHYS-3500	Electronics	4
Historical Inquiry Foundation		3
Hours		16
Junior Year		
First Semester		
ENGL-1010	English Composition	3
Faith Foundation		3
PHYS-4100	Mechanics I	3
PHYS-4900	Physics Colloquium	0
Elective ²		3

Historical Inquiry Foundation		3
Hours		15
Second Semester		
Philosophical Inquiry Foundation		3
PHYS-4300	Optics	3
PHYS-4301	Optics Laboratory	1
PHYS-4110	Mechanics II ³	3
PHYS-4901	Physics Colloquium	0
EXSC Fitness Course		1
Visual Communication		3
Aesthetic Experience		3
Hours		17
Senior Year		
First Semester		
PHYS-4600	Electricity & Magnetism I	3
PHYS-4400	Thermodynamics ³	3
PHYS-4800	Quantum Mechanics ³	3
PHYS-4902	Physics Colloquium	0
Faith Foundation		3
Philosophical Inquiry Foundation		3
Hours		15
Second Semester		
PHYS-4610	Electricity & Magnetism II ³	3
PHYS-4903	Physics Colloquium	0
Person and Community Foundation		3
Aesthetic Experience		3
PHYS-4700	Condensed Matter Physics	3
Elective		3
PHYS-4910	Physics & Astronomy Research	1
PHYS-COMP	Senior Comprehensive Exam	0
Hours		16
Total Hours		130

¹ Students not ready for Calculus I this semester should enroll in a general education class instead of Classical Physics.

² Rec. PHYS-4200 Mathematical Methods for Physics

³ Indicates a course not required for the B.A.