

PHYSICS
Bachelor of Arts (B.A.)
2016-2017

Requirements for Major: At least 25 credit hours in the department, with at least 12 upper division credit hours, including:

PS 120 Meteorology	PS 334 Thermodynamics
PS 126 Physical Science for Elementary Ed	PS 335 Theoretical Mechanics I
PS 261 College Physics I	PS 336 Theoretical Mechanics II
PS 262 College Physics II	PS 340 Electronics
PS 281 General Physics I	PS 350 Modern Physics I
PS 282 General Physics II	PS 351 Modern Physics II
PS 291 Elementary Computational Physics	PS 352 Atomic and Nuclear Physics Laboratory
PS 310 Relativity	PS 360 Experimental Physics
PS 320 Electromagnetic Theory I	PS 365 Introduction to Theoretical Physics
PS 321 Electromagnetic Theory II	PS 366 Introduction to Computational Physics
PS 322 Electrical Laboratory	PS 368 Computational Physics Research
PS 330 Optics	PS 370 Spec. Subjects in Physics
PS 332 Optics Laboratory	

General Education Distribution Requirements (BA):

Humanities (15) (GEHU/GECPA) (Max 6 hours/ discipline)	Course Number	Social Sciences (15) (GESS) (Max 6 hours/ discipline)	Course Number	Natural Sciences/ Mathematics (12) (GENS) (Max 8 Hours or 2 Courses/Discipline)	Course Number
Fine Arts (3)		Soc. Science 1 (3)		Nat. Science 1 (3-5)	
Humanities 2 (3)		Soc. Science 2 (3)		Nat. Science 2 (3-5)	
Humanities 3 (3)		Soc. Science 3 (3)		Nat. Science 3 (3-5)	
Humanities 4 (3)		Soc. Science 4 (3)		Nat. Science 4 (3-5)	
Humanities 5 (3)		Soc. Science 5 (3)			

Core University/BA-Specific Requirements:

WU 101 (3)* C or Better	Total Hours (124)
EN 101 (3) C or Better	Hours Outside Major (84)
EN 300 (3) C or Better	Upper Division (300 and above) (45)
MA 112 or MA 116 (3)** C or Better	Hours Within Arts and Sciences (99)
>= 2.0 Overall Cumulative GPA	>= C Grade All Major and Correlated Courses
FL 102 (4)	

*Students transferring with 24 or more credit hours completed at an accredited post-secondary institution (after graduating from High School) with a GPA of 2.0 or higher are exempt from this requirement

**May be waived if the student successfully places into a higher-level mathematics course with an ACT score of 25 or higher and then successfully completes that course with a grade of C or higher or if a student presents an ACT score in mathematics of at least 28 (SAT of at least 640).

Sample 4-Year Schedule for Physics Major
Bachelor of Arts
124 Hours

Curriculum for students starting 2016-2017 Academic Year
 Students starting in different academic years should contact their advisor.

Freshman			
Fall Semester			Spring Semester
EN 101 – English Composition	3	PS 281 – General Physics I	5
MA 151 – Calculus I	5	MA 152 – Calculus II	5
WU 101 – Washburn Experience	3	CM 105 – Intro to Computer Science	3
Humanities General Education	3	Soc. Sci. General Education	3
TOTAL	14	TOTAL	16
Sophomore			
Fall Semester			Spring Semester
PS 282 – General Physics II	5	Upper Division PS Elective	3
MA 153 – Calculus III	3	CH 151 – General Chemistry I	5
Soc. Sci. General Education	3	MA 241 – Differential Equations	3
AR/MU/TH General Education	3	Upper Division Elective	3
		FL 102 – Foreign Language II	4
TOTAL	14		18
Junior			
Fall Semester			Spring Semester
Upper Division PS Elective	3	Upper Division PS Elective	3
Humanities General Education	3	Soc Sci General Education	3
Soc. Sci. General Education	3	Humanities General Education	3
MA 301 – Linear Algebra	3	Upper Division Electives	9
EN 300 – Advanced Composition	3		
TOTAL	15	TOTAL	18
Senior			
Fall Semester			Spring Semester
Upper Division PS Elective	3	Upper Division PS Elective	3
Soc Sci General Education	3	Humanities General Education	3
Upper Division Electives	9	Upper Division Electives	3
		Electives	5
TOTAL	15		14