BACHELOR OF ARTS IN PHYSICS

Minimum requirements for the B.A. degree in Physics with a minor in mathematics

COURSE	TITLE	S.H.		
FIRST YEAR REQU	IIREMENT -STUDENT SUCCESS			
YSU 1500	Success Seminar	1-2		
or SS 1500	Strong Start Success Seminar			
or HONR 1500	Intro to Honors			
General Education	Requirements			
ENGL 1550	Writing 1	3-4		
or ENGL 1549	Writing 1 with Support			
ENGL 1551	Writing 2	3		
CMST 1545	Communication Foundations	3		
Mathematics requirement (met with MATH in major)				
Arts and Humanities (6 s.h.)				
Natural Sciences (2 courses, 1 with lab) (6-7 s.h.)			
Requirement met t	through courses in the major			
Social Science (6 s	s.h.)	6		
Social and Personal Awareness (6 s.h.)				
Major Requiremen	ts			
Physics Courses:				
PHYS 2610	General Physics 1	5		
& 2610L	and General Physics Laboratory 1			
PHYS 2611	General Physics 2	5		
& 2611L	and General Physics laboratory 2			
PHYS 3703	Classical Mechanics and Dynamics	4		
PHYS 3704 & 3704L	Modern Physics and Modern Physics Laboratory	5		
PHYS 3705 & 3705L	Thermodynamics and Classical Statistical Dynamics and Thermodynamics and Classical Statistical Mechanics Laboratory	4		
PHYS 3741	Electromagnetic Field Theory 1	3		
PHYS 4805	Undergraduate Physics Research	3		
Physics upper divi		3		
Mathematics Courses:				
MATH 1571	Calculus 1	4		
MATH 1572	Calculus 2	4		
MATH 2673	Calculus 3	4		
MATH 3705	Differential Equations	3		
Minor Course:	•			
One additional 3 s.h. upper division elective in mathematics is required for the mathematics minor.				
Other courses:				
FNLG 1550	Elementary Foreign Language (or FNLG 1505)	4		
FNLG 2600	Intermediate Foreign Language (or FNLG 1506)	4		
CHEM 1515	General Chemistry 1	4		
& 1515L	and General Chemistry 1 Laboratory			
CHEM 1516 & 1516L	General Chemistry 2 and General Chemistry 2 Laboratory	4		
Electives:				
21 additional hours of upper division electives and 5 hours of electives at 26 any level are required				
Total Semester Hours 120-122				

Year 1		
Fall		S.H.
YSU 1500	Success Seminar	1
PHYS 2610	General Physics 1	5
& 2610L	and General Physics Laboratory 1 (P, NS)	
ENGL 1550 or ENGL 1549	Writing 1 or Writing 1 with Support	3-4
CHEM 1515 & 1515L	General Chemistry 1 and General Chemistry 1 Laboratory (NS)	4
MATH 1571	Calculus 1 (P)	4
	Semester Hours	17-18
Spring		
PHYS 2611	General Physics 2	5
& 2611L	and General Physics laboratory 2 (P, NS)	
CHEM 1516	General Chemistry 2	4
& 1516L MATH 1572	and General Chemistry 2 Laboratory (P, NS) Calculus 2 (P)	4
First-Year Experien	. ,	3
Tilot Teal Experien	Semester Hours	16
Year 2	Semester riours	10
Fall		
PHYS 3704	Modern Physics	5
& 3704L	and Modern Physics Laboratory (P)	
MATH 2673	Calculus 3 (P)	4
FNLG 1550	Elementary Foreign Language	4
ENGL 1551	Writing 2	3
	Semester Hours	16
Spring		
PHYS 3705	Thermodynamics and Classical Statistical	4
& 3705L	Dynamics and Classical	
	Statistical Mechanics Laboratory (P)	
MATH 3705	Differential Equations (P)	3
FNLG 2600	Intermediate Foreign Language	4
Arts & Humanities	GER Domain	3
	Semester Hours	14
Year 3		
Fall		
PHYS 3703	Classical Mechanics and Dynamics (P)	4
PHYS 3741	Electromagnetic Field Theory 1 (P)	3
Social Sciences GE		3
Upper Division Mat	n (P) Communication Foundations	3
CMST 1545	Semester Hours	3 16
Spring	Semester nours	10
Arts & Humanities	GER Domain	3
Elective		4
Physics upper divis	sion Elective	3
Social Sciences GE		3
	Semester Hours	13
Year 4		
Fall		
PHYS 4805	Undergraduate Physics Research (Capstone,	3
	P)	
Social & Personal Awareness GER Domain		
Electives (Upper Di	·	8
	Semester Hours	14

Semester Hours

2 Bachelor of Arts in Physics

Spring

Total Semester Hours	121-122
Semester Hours	15
Electives (Upper Division)	12
Social & Personal Awareness GER Domain	3