

Shaded areas of plan require special a	attention			
Course Subject and Title	Credit Hours	Min. Grade Required	Included in Major GPA	Important Notes POS = Program of Study
		6		
50 1000	2	Semes	ter One: [ː	15 Credit Hours]
RC 1000	3			May take in fall or spring semester of first year
UCO 1200	3			May take in fall or spring semester of first year
PHY 1150	5		X	Also counts in Gen Ed Science Inquiry requirement
MAT 1110	4	C-	X	Also meets Gen Ed Quantitative Literacy requirement
	_	Semest		15 Credit Hours]
PHY 1151	5		X	Also counts in Gen Ed Science Inquiry requirement
MAT 1120	4	C-	Х	
Liberal Studies Experience Course 1	3			HS or LS or FA or SS Designation
Integrative Learning Experience Course 1	3	Somost	ar Three :	[15 Credit Hours]
RC 2001	3			May take in fall or spring of sophomore year
Gen Ed Wellness Literacy	1			
PHY 2010	4	С	х	Min. grade C required for some upper level PHY courses
MAT 2130	4	C	X	with grade e required for some upper revent in courses
PHY 3210	3	С	X	Min. grade C required for some upper level PHY courses
FIII 3210	5			16 Credit Hours]
PHY 2020	4	C	X	Min. grade C required for some upper level PHY courses
PHY 2210	3	č	x	[WID]
PHY Concentration Course 1	3		x	See Area II. C. on POS for information on contract area; courses must be approved by the advisor (Total of 6 courses - 18 hours) A list of recommended courses is in the Additional Notes at the end of this guide.
Liberal Studies Experience Course 2	3			HS or LS or FA or SS Designation
Free Elective	3			
		Semes	ter Five: [16 Credit Hours]
PHY Concentration Course 2	3		х	
PHY Electives Course 1	3		x	Area II. A on POS; A total of 4 hours required for students who took PHY 1150/1151 sequence; A total of 6 hours required for students who took PHY 1103/1104 sequence; See notes at the end of this guide for recommendations.
Integrative Learning Experience Course 2	3			HS or LS or FA or SS Designation
Gen Ed Wellness Literacy	1			
Free Elective	3			
Free Elective	3			



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		Semeste	er Six: [13	-15 Credit Hours]
PHY Concentration Course 3	3		х	
PHY Concentration Course 4	3		х	
PHY Electives Course2	1-3*		х	Area II. A on POS; *A total of 4 hours required for students who took PHY 1150/1151 sequence; A total of 6 hours required for students who took PHY 1103/1104 sequence; See notes at the end of this guide for recommendations.
Free Elective	3			
Liberal Studies Experience Course 3	3			
		Semeste	er Seven:	[15 Credit Hours]
Free Elective	3		х	
PHY Concentration Course 5	3		х	
Integrative Learning Experience Course 3	3			
Free Elective	3			
Free Elective	3			
		Semester	Eight: [1	5-17 Credit Hours]
PHY Concentration Course 6	3		х	
PHY 4210	4		х	CAPSTONE
Liberal Studies Experience Course 4	3			HS or LS or FA or SS Designation
Free Elective	3			
Free Elective	2-4*			At least 2 hours of electives must not be PHY; *Take enough Free Electives to reach the minimum 122 required for degree.

General Requirements Summary					
Minimum Gen Ed. Total Hours Hours		Minimum			
	Writing	Major GPA	Overall GPA		
122	44	RC 1000 and RC 2001	2.0	2.0	

All PHY & AST courses and all courses in Area II on Program of Study count in the major GPA.



This is an example semester-by semester plan of study for Applied Physics, BS (270B), designed to prepare students for graduate work. It should be modified during consultation with a department advisor.

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General Education Program Model - 44 Semester Hours Total				
Program Categories	Hours	Important Notes – Be sure to check for Gen Ed courses required in your major		
First Year Seminar	3	Can be taken first or second semester of freshman year		
Wellness Literacy	2			
Quantitative Literacy	4			
First Year Writing	3	Can be taken first or second semester of freshman year		
Sophomore Writing	3			
Integrative Learning Experience	9	Must choose a minimum of two disciplines		
Liberal Studies Experience	12	Must choose a minimum of three disciplines		
Science Inquiry	8			

You must also meet the Fine Arts, Literary Studies, Historical Studies, and the Social Science Designations. Those may be met within the Integrative Learning Experience and the Liberal Studies Experience.

Additional Notes:

- This curriculum is designed for students planning on continuing to graduate school in physics and can include a minor in Math.
- Recommended Courses to take in the concentration, as physics electives, and as free electives:
 - CS 1440 Computer Science I (4) OR CS 1445 Intro Programming w/Intedisc App (4)
 - MAT 2240 Linear Algebra (3) (Pre: MAT 1120)
 - MAT 3130 Differential Equations (3) (Pre: MAT 1120; recommended pre: MAT 2240)
 - PHY 3001 Analytical Methods in Physics (3) (Pre: MAT 2130 w/grade of C; Co: PHY 2020) Spring semester only
 - PHY 3010 Classical Physics (3) (Pre: MAT 3130) Fall semester only
 - PHY 3020 Electromagnetic Fields & Waves (3) (Pre: PHY 2020 & 3001 w/grade of C; MAT 3130) Spring semester only
 - o PHY 3211 Modern Physics II (3) (Pre: PHY 1151; Co: PHY 2010) Spring semester only
 - o PHY 3230 Thermal Physics (3) (Pre: PHY 1104 or 1151; MAT 2130) Spring semester only
 - PHY 4020 Computational Meth in Phy & Eng (3) (Pre: PHY 2020 w/grade of C; MAT 2130; Sr standing) Fall semester only
 - o PHY 4620 Optics (4) (Pre: MAT 3130; Co: PHY 3020; Sr standing) Spring semester only
 - PHY 4640 Quantum Mechanics (3) (Pre: PHY 3010 & PHY 3210 w/grade of C; MAT 3130; Sr standing) Spring semester only
- A contract with a list of the approved courses MUST be filed with the College of Arts & Sciences Dean's Office no later than the end of the first semester of junior year.
- <u>Residency Requirements:</u>
 - o 31 hours must be from ASU
 - 18 hours in the major must be from ASU
 - 9 hours in the minor must be from ASU
 - Final 30 hours must be courses taken through ASU (includes internships, study abroad taken through ASU)