

This is an example semester-by semester plan of study for Applied Physics, BA (269A), designed to prepare students for graduate work. It should be modified during consultation with a department advisor.

Shaded areas of plan require special attention.

Course Subject and Title	Credit Hours	Min. Grade Required	Included in Major GPA	Important Notes POS = Program of Study
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Semester One: [14-15 Credit Hours]

RC 1000	3			May take in fall or spring semester of first year
Liberal Studies Experience Course 1	3			HS or LS or FA or SS Designation
PHY 1123/1113 or 1170/1160 (Recommended)	4-5	C-	X	Also counts in Gen Ed Science Inquiry requirement (<i>For PHY 1123/1113, CO: MAT 1020 or MAT 1025 or the equivalent. For PHY 1170/1160, CO: MAT 1110</i>)
MAT 1110	4	C-	X	Also meets Gen Ed Quantitative Literacy requirement (<i>PRE: MAT 1025 or equivalent test score</i>). If PHY 1123/1113 is chosen above and MAT 1020 or 1025 is chosen here, you will need to consult with your advisor regarding adjustment of your Math requirements for your degree plan.

Semester Two: [14-15 Credit Hours]

UCO 1200	3			May take in fall or spring semester of first year
PHY 1124/1114 or 1180/1161 (Recommended)	4-5	C-	X	Also counts in Gen Ed Science Inquiry requirement
MAT 1120	4	C-	X	
Integrative Learning Experience Course 1	3			

Semester Three: [16 Credit Hours]

RC 2001	3			May take in fall or spring semester of sophomore year
Foreign Language 1010 (or CSD 3368)	3			If test out of this level, take appropriate level (FL 1030 may be option for some languages)
PHY 2010	4	C-	X	
MAT 2130	4		X	
PHY 2005	1		X	
Gen Ed Wellness Literacy	1			

Semester Four: [16 Credit Hours]

Foreign Language 1020 (or CSD 3370)	3			If test out of this level, take appropriate level or Free Elective if language is complete
PHY 2020	4	C	X	Min. grade C required for some upper level PHY courses
PHY Elective Course (PHY 3001)	3	C	X	This is a required prerequisite for later required courses. This course counts as a part of the 4-6hours PHY elective required in Physics Core Requirements area on POS. (6 hours required if you took PHY 1123/1113 & 1124/1114 as intro PHY courses.)
MAT 3130	3		X	
Minor Course 1	3			

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Semester Five: [15 Credit Hours]				
Foreign Language 1040 (or CSD 3372)	3			If test out of this level, take appropriate level or Free Elective if language is complete (FL 1060 may be an option for some lang)
PHY 2110	3		X	
PHY 3010	3		X	
PHY Elective Course (PHY 3310)	3		X	Physics Core Requirements area on POS; Required course: PHY 3310 for prerequisite for PHY 4210; A total of 4 hours required for students who took PHY 1170/1160 & 1180/1161 sequence; A total of 6 hours required for students who took PHY 1123/1113 & 1124/1114 sequence
Liberal Studies Experience Course 2	3			HS or LS or FA or SS Designation
Semester Six: [15 Credit Hours]				
Foreign Language 1050 (or CSD 3374)	3			Counts as Liberal Studies Experience Course 3 ; if language complete, take Free Elective
PHY 3020	3		X	
PHY 3310	3		X	[WID]
Minor Course 2	3			
Integrative Learning Experience Course 2	3			HS or LS or FA or SS Designation
Semester Seven: [14 Credit Hours]				
CHE 1101 & 1110	4		X	<i>(PRE: MAT 1020 or equivalent test score. PRE or CO: CHE 1110 and corequisite MAT 1020 or higher if math prerequisite not met.)</i>
Minor Course 3	3			
Minor Course 4	3			
Liberal Studies Experience Course 4	3			HS or LS or FA or SS Designation
Gen Ed Wellness Literacy	1			
Semester Eight: [16-18 Credit Hours]				
PHY 4210	4		X	CAPSTONE
PHY Elective Course or Free Elective	2-3*		X	Physics Core Requirements area on POS; *A total of 6 hours required for students who took PHY 1123/1113 & 1124/1114 sequence; Those who took PHY 1170/1160 & 1180/1161 sequence should have this area already met and should take Free Elective.
CHE 1102 & 1120	4		X	<i>(PRE: MAT 1020 or equivalent test score. PRE or CO: CHE 1120 and corequisite MAT 1020 or higher if math prerequisite is not met.)</i>
Integrative Learning Experience Course 3	3			
Minor Course 5	3			If needed
Free Elective (or additional minor course, if needed)	0-1			Take enough Free Electives to reach the minimum 120 required for the degree.



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General Requirements Summary				
Minimum Total Hours	Gen Ed. Hours	Writing	Minimum	
			Major GPA	Overall GPA
120	44	RC 1000 and RC 2001	2.0	2.0

All PHY & AST courses and all courses in Major Requirements area on Program of Study count in major GPA.

*Some minors require a 2.0 GPA. See Programs of Study for information.

General Education Program Model - 44 Semester Hours Total		
Program Categories	Hours	Important Notes – <i>Be sure to check for Gen Ed courses required in your major</i>
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:

- Minor outside Physics required for this degree.
- Foreign language requirement:
 - Student must take the Foreign Language Placement Test to determine starting course for the foreign language sequence.
 - If Foreign Language 1010 & 1020 taken for prerequisite purposes, they will count in place of 6 hours of Free Electives (3 hours per course).
 - FL 1030 may substitute for FL 1010 & 1020 for some languages; FL 1060 may substitute for FL 1040 & 1050 for some languages.
 - Foreign language classes can be taken in summer semesters.
- Students are required to demonstrate intermediate-level proficiency in a language other than English. Intermediate-level



proficiency is demonstrated by successful completion of a 4th-semester language course (FL 1050 or 1060 or CSD 3374). A higher-level language course that requires one of these courses as a prerequisite may also be used to fulfill the requirement.

- Placement exams are required for several languages. Should a student place higher than the beginning level, any lower level requirements listed on the four year guide will need to be replaced with a free elective if needed for total hours for the degree. Please consult with your advisor for more information.
- **Note: Appalachian's language placement test is designed for placement purposes only, and a score on this test alone is not sufficient to demonstrate intermediate-level proficiency.**
- Residency Requirements:
 - 30 hours overall must be from Appalachian State University
 - 18 hours in the major must be from Appalachian State University
 - 9 hours in the minor must be from Appalachian State University