

# PHYSICS

Recommended three-year degree path

Courses	Credit Hours	Total Credit Hours
<b>Fall One</b>		
PH201, Introduction to Analytical Physics	5	
MA106, Calculus and Analytic Geometry 1	4	
Foreign Language (1)	4	
FYS101, First Year Seminar	3	
Total	16	16
<b>Spring One</b>		
PH202, Introduction to Analytical Physics	5	
MA107, Calculus and Analytic Geometry 2	4	
Foreign Language (2)	3	
FYS102, First Year Seminar	3	
Elective (any discipline)	3	
Total	18	34
<b>Summer One</b>		
PH325, Thermodynamics and Statistical Physics (might be offered as independent-study)	4	
PCA, Perspectives in the Creative Arts <b>or</b> SW, Social World <b>or</b> TI, Texts & Ideas	3	
GHS (1), Global & Historical Studies	3	
Total	10	44
<b>Fall Two</b>		
PH301, Modern Physics	3	
MA208, Calculus and Analytical Geometry 3	4	
Foreign Language (3)	3	
PWB, Physical Well-Being	1	
CS142, Introduction to Computer Science and Programming	3	
Elective (any discipline)	3	
Total	17	61
<b>Spring Two</b>		
PH311, Experimental Modern Physics	3	
PH303, Electromagnetic Waves and Optics	3	
MA215, Linear Algebra	3	



PCA, Perspectives in the Creative Arts <b>or</b> SW, Social World <b>or</b> TI, Texts & Ideas	3	
ICR Elective, Indianapolis Community Requirement	3	
Elective (any discipline)	3	
Total	18	79
<b>Summer Two</b>		
PH331, Electromagnetic Theory (might be offered as independent-study)	4	
GHS (2), Global & Historical Studies	3	
Total	7	86
<b>Fall Three</b>		
PH421, Quantum Theory	4	
PH Elective (1)	4	
PH495, Senior Seminar	1	
Elective (any discipline)	3	
MA334, Differential Equations	3	
PH491, Undergraduate Tutorial and Research	3	
Total	18	104
<b>Spring Three</b>		
PH321, Intermediate Classical Mechanics	4	
PH Elective (2)	4	
PCA, Perspectives in the Creative Arts <b>or</b> SW, Social World <b>or</b> TI, Texts & Ideas	3	
Elective (any discipline)	3	
PH491, Undergraduate Tutorial and Research	3	
Total	17	121

**Notes:**

- Students must enroll in PH490 Colloquium (zero-credit hours) every semester.
- Courses in **red** are required for the major.
- This plan assumes students will test out of only one semester of foreign language
- This plan applies to students entering in the fall of an odd year (2021, 2023, etc.). Other students can graduate in 3.5 years. Please consult with the Department Chair.