

Missouri State University - College of Natural and Applied Sciences
Department of Physics, Astronomy and Materials Science

Physics (non-comprehensive)

Bachelor of Science

Updated April 2009

This is a model four year graduation plan. Your path to graduation may vary slightly based on factors such as college credit you earned while in high school, your choice of general education electives, and placement in English and Mathematics.

This degree program can be completed in eight semesters.

First Semester (Fall)		Second Semester (Spring)	
General Chemistry I - CHM 160	4	Calculus II - MTH 280	5
Calculus I - MTH 261	5	Foundations of Physics I - PHY 203	5
Intro to Univ Life - IDS 110	1	Culture and Society/Social Science (say ECO 155)	3
Intro to Computing - CSC 111	3	Writing I - ENG 110	3
Public Speaking - COM 115	3		
Total Hours	16	Total Hours	16
Third Semester (Fall)		Fourth Semester (Spring)	
Multivariate Calculus - MTH 302	3	Differential Equations - MTH 303	3
Foundations of Physics II - PHY 204	5	Discrete Mathematics - MTH 215 (or MTH 315)*	3
AST 115	4	Writing II: Beginning Tech Writing - ENG 321	3
Fitness for Living - PED 100	2	Self-Understanding/Humanities	3
Self-Understanding/Social-Behavior (eg PSY 121)	3	Culture and Society/Humanities (say HST 103)	3
Total Hours	17	Total Hours	15
Fifth Semester (Fall)		Sixth Semester (Spring)	
Electronic Circuit Design - PHY 352	3	Expts in 20th Century Phys - PHY 385	2
Twentieth Century Physics I - PHY 375	3	Undergraduate Research I - PHY 386	1
Math for Sci & Eng I - PHY 391	3	Math for Sci & Eng II - PHY 392 (or Gen. Elective)	3
American Democracy and Citizenship - PLS 101	3	Twentieth Century Physics II - PHY 476	3
Self-Understanding/Creativity and Vision	3	US History - HST 121 or 122	3
		General Elective	3
Total Hours	15	Total Hours	15
Seventh Semester (Fall)		Eighth Semester (Spring)	
Intermediate Mechanics - PHY 333	3	Thermodynamics - PHY 343	3
Elementary Field Theory - PHY 353	3	Instrumentation Circuit Design - PHY 485	3
Quantum Mechanics - PHY 575	3	Undergraduate Research II - PHY 486	1
General Elective	3	General Elective	3
Physics Elective	3	General Elective	3
		Physics Elective	3
Total Hours	15	Total Hours	16

*This plan meets the requirements for a Mathematics minor with the addition of MTH 215 or 315.

GPA Requirements include: 2.00 in major and minor fields