

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

Engineering Physics/Materials Bachelor of Science Updated 2009
Science (comprehensive)

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)	
Gen 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	Intro to C++ Programming - CSC125 (or CSC 121)	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	Self-Understanding/Humanities	3
American Democracy and Citizenship - PLS 101	3	Physics or Materials Science Elective*	3
Fitness for Living - PED 100	2	Culture and Society/Humanities	3
Self-Understanding/Social-Behavioral	3	Writing II: Beginning Tech Writing - ENG 321	3
Total Hours	16	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	3
Thermodynamics of Materials - MAT 540	3	Twentieth Century Physics II - PHY 476	3
Self-Understanding/Creativity and Vision	3	US History - HST 121 or 122	3
Culture and Society/Social Sciences	3	Elective	3
Total Hours	18	Total Hours	15
Seventh Semester (Fall)		Eighth Semester (Spring)	
Elementary Field Theory - PHY 353	3	Intro Circuit Analysis - PHY 252	3
Quantum Mechanics - PHY 575	3	Thermal Physics - PHY 343	3
Intro to Materials Science - MAT 550	3	Instrumentation Circuit Design - PHY 485	3
Structure of Solids - MAT 580	3	Undergraduate Research II - PHY 486	1
Elective	3	Phys Semiconductor Devices - PHY 558	3
		Physics or Materials Science Elective	3
Total Hours	15	Total Hours	16

GPA Requirements include: 2.00 in major