

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

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

This is a model three 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 three years.

First Semester (Fall) Gen Chemistry I - CHM 160 Calculus I - MTH 261 Intro to Univ Life - IDS 110 Intro to Computing - CSC 111 Public Speaking - COM 115 Fitness for Living - PED 100 Total Hours	4 5 1 3 3 2 18	Second Semester (Spring) Calculus II - MTH 280 Foundations of Physics I - PHY 203 Intro to C++ Programming - CSC125 (or CSC 121) Writing I - ENG 110 Culture and Society/Humanities Total Hours	5 5 3 3 3 19
		Summer Semester Multivariate Calculus - MTH 302 Foundations of Physics II - PHY 204 Total Hours	3 5 8
Third Semester (Fall) Differential Equations - MTH 303 Twentieth Century Physics I - PHY 375 Electronic Circuit Design - PHY 352 Math for Sci & Eng I - PHY 391 Self-Understanding/Social-Behaviorial Culture and Society/Social Sciences Total Hours	3 3 3 3 3 3 18	Fourth Semester (Spring) Expts in 20th Century Phys - PHY 385 Self-Understanding/Humanities Physics or Materials Science Elective* American Democracy and Citizenship - PLS 101 Writing II: Beginning Tech Writing - ENG 321 Math for Sci & Eng II - PHY 392 Intro Circuit Analysis - PHY 252 Total Hours	2 3 3 3 3 3 3 20
		Summer Semester US History - HST 121 or 122 Elective Total Hours	3 3 6
Fifth Semester (Fall) Intro to Materials Science - MAT 550 Elementary Field Theory - PHY 353 Quantum Mechanics - PHY 575 Thermodynamics of Materials - MAT 540 Self-Understanding/Creativity and Vision Structure of Solids - MAT 580 Undergraduate Research I - PHY 386 Total Hours	3 3 3 3 3 3 1 19	Sixth Semester (Spring) Twentieth Century Physics II - PHY 476 Thermal Physics - PHY 343 Instrumentation Circuit Design - PHY 485 Undergraduate Research II - PHY 486 Phys Semiconductor Devices - PHY 558 Physics or Materials Science Elective Total Hours	3 3 3 1 3 3 16

GPA Requirements include: 2.00 in major