

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

Engineering Physics/Computer Bachelor of Science July 2009

Engineering (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) General Chemistry I - CHM 160 Calculus I - MTH 261 Intro to Univ Life - IDS 110 Intro to Computing - CSC 111 Fitness for Living - PED 100 Public Speaking - COM 115 Total Hours	Second Semester (Spring) 4 Calculus II - MTH 280 5 Foundations of Physics I - PHY 203 1 Intro to C++ Programming - CSC125 (or CSC 121) 3 Writing I - ENG 110 2 Culture and Society/Humanities 3 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 Intro Stru & Logic of Digital Computers - PHY 220 Math for Sci & Eng I - PHY 391 Gen Edu - Social Sciences (Culture & Soc) Instrumental/Computer Interfacing Total Hours	Fourth Semester (Spring) 3 Expts in 20th Century Phys - PHY 385 3 Intro Circuit Analysis - PHY 252 4 Beginning Tech Writing - ENG 321 3 American Democracy and Citizenship - PLS 101 3 Math for Sci & Eng II - PHY 392 4 Self-Understanding/Humanities General Elective Total Hours	2 3 3 3 3 3 20
	Summer Semester US History - HST 121 or 122 Elective Total Hours	3 3 6
Fifth Semester (Fall) Physics or Computer Science Elective Electronic Circuit Design - PHY 352 Intro Sol St Phy - PHY 475 (or MAT 580) Elementary Field Theory - PHY 353 Self-Understanding/Creativity and Vision Self-Understanding/Social-Behavioral Undergraduate Research I - PHY 386 Total Hours	Sixth Semester (Spring) 4 Signals and Systems - PHY 354 3 Instrumentation Circuit Design - PHY 485 3 Phys Semiconductor Devices - PHY 558 3 Thermal Physics - PHY 343 3 Digital Signal Processing - PHY 524 3 Undergraduate Research II - PHY 486 1 Total Hours	3 3 3 3 4 1 17

GPA Requirements include: 2.00 in major

Other Requirements include: 40 hours must be in upper level courses (300 level or above)