Flowchart for Core BS Physics Courses: Applied Emphasis, 2015-2016 Catalog

This chart shows only the required core BS Physics courses and prerequisites. Additional courses are needed for graduation. Please consult the Undergraduate Catalog and meet with your advisor to craft a plan for degree completion. Course prerequisites and degree requirements are subject to change.

MATH 143 and MATH 144
Or appropriate placement exam score

CHEM 111/111L General Chemistry I

CHEM 112/112L General Chemistry II

ENGR 245/245L Intro to Materials Science & Engineering & lab

MATH 170 Calculus I

MATH 175 Calculus II

MATH 275 Calculus III

MATH 301 Linear Algebra

MATH 305 Thermodynamics of Materials
MSE 306 Thermodynamics of Materials OR MSE 310 Electrical Properties of Materials (Fall)
See additional prerequisites

MATH 333 Differential Equations with Matrix Theory

PHYS 211/211L Physics I w/Calculus & Lab

PHYS 212/212L Physics II w/Calculus and Lab

PHYS 309/309L Introductory Quantum Physics & Lab

PHYS 311 Modern Physics (Spring)

PHYS 315 Solid State Physics (Fall)

PHYS 325 Scientific Computing (Fall)

PHYS 321 Analog & Digital Electronics (Spring)

PHYS 415 Solid State Physics (Spring)

PHYS 432 Thermal Physics (Fall)

PHYS 430 Introductory Quantum Physics & Lab

PHYS 499 Senior Seminar (Spring)

PHYS 423 Materials Characterization (Fall)

PHYS 430 Introductory Quantum Physics & Lab

PHYS 382 Electrodynamics OR PHYS330/330L Optics (Spring)

PHYS 381 Electromagnetic Theory (Fall)

PHYS 341 Mechanics (Spring)

last updated July 1, 2015
by T. Watkins
Boise State University