

Physics (B.S.)

Degree Type
B.S.

Objectives:

To provide background in basic physics preparing students for entry into graduate school engineering programs, or technical jobs; to stress applications of analytical software and mathematical techniques.

The senior project may consist of satisfactory performance on the Advanced Physics section of the Graduate Record Examination, successful completion of an internship or a sponsored Research Experience for Undergraduates, or a comprehensive examination given during the first term of the senior year.

Requirements

Item #	Title	Semester Hours
PHYS 201	General Physics I	4
PHYS 202	General Physics II	4
PHYS 311	Modern Physics	4
PHYS 321	Intermediate Mechanics	3
PHYS 355	Mathematical Methods for Physical Science I	4
PHYS 411	Electromagnetic Theory	3
PHYS 421	Quantum Mechanics	3

Three Additional Upper Division Courses in Physics

Chosen in consultation with the advisor. CHEM 320 can be counted as equivalent to one upper division physics course. Physics courses should be at the 300 or 400 level.

More than three additional classes are strongly recommended for students planning on pursuing graduate studies. Consult your academic advisor.

Additional Requirements

Item #	Title	Semester Hours
MATH 151	Calculus I	4
MATH 152	Calculus II	4
MATH 201	Intro to Mathematical Reasoning	3
MATH 253	Calculus III	4
MATH 353	Differential Equations	3
MATH 321	Linear Algebra	3

Contextual and Support Courses

Item #	Title	Semester Hours
CHEM 111	General Chemistry I	4
CHEM 111L	General Chemistry Lab	0
CHEM 112	General Chemistry II	4
CHEM 112L	General Chemistry II Lab	0
CHEM 312	Physical Chemistry I	3

Three courses from level 200 or above in Chemistry,
Mathematics, with exception of seminars and MATH 201

If MATH 201 is completed, the requirements for a MATH minor will be met.

Total Credits	75-81
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