

B.S. Physics

In addition to degree requirements below, students must satisfy 8 of the 9 General Education Objectives (a minimum of 36 credits--see the Academic Information section of this catalog). Of the courses below, MATH 1170 (<http://coursecat.isu.edu/search/?P=MATH%201170>) will satisfy General Education Objective 3, while together, the CHEM and lower-division PHYS requirements will satisfy General Education Objective 5.

General Education

The listing below includes program requirements that also fulfill General Education requirements.

Code	Title	Credits
Objective 1		6
Objective 2		3
Objective 3- MATH 1170		3
Objective 4		6
Objective 5		7
Objective 6		6
Students must fulfill Objective 7 or Objective 8		3
Objective 7		
Objective 8		
Objective 9		3
Total Credits		37

Major Requirements

Code	Title	Credits
CHEM 1111 & 1111L	General Chemistry I and General Chemistry I Lab	5
CHEM 1112 & 1112L	General Chemistry II and General Chemistry II Lab	4
MATH 1170	Calculus I	4
MATH 1175	Calculus II	4
MATH 2275	Calculus III	4
MATH 3360	Differential Equations	3
MATH 4421 & MATH 4422	Advanced Engineering Mathematics I and Advanced Engineering Mathematics II	6
or PHYS 4461 & PHYS 4462	Introduction to Mathematical Physics I and Introduction to Mathematical Physics II	
PHYS 2211 & PHYS 2212	Engineering Physics I and Engineering Physics II	8
PHYS 2213 & PHYS 2214	Engineering Physics I Laboratory and Engineering Physics II Laboratory	2
PHYS 3301	Modern Physics	3
PHYS 3313	Intermediate Laboratory I	2
PHYS 4403 & PHYS 4404	Advanced Modern Physics I and Advanced Modern Physics II	6
PHYS 4414	Electronic Instrumentation and Measurement	3
PHYS 4415	Statistical Physics	3
PHYS 4421 & PHYS 4422	Electricity and Magnetism I and Electricity and Magnetism II	6

PHYS 4483	Theoretical Mechanics	4
PHYS 4492	Colloquium in Physics	1
Plus 5 additional 4000-level PHYS credits		5
Total Credits		73

Degree Totals

Code	Title	Credits
Program Admission Requirements		0
General Education		37
Major Requirements (Required General Education credits removed)		63
Upper Division Free Electives		0
Free Electives		20
Total Credits		120

ISU Degree Requirements (<http://coursecat.isu.edu/undergraduate/degree requirements/>)

ISU General Education (<http://coursecat.isu.edu/undergraduate/academic information/generaleducation/>)

Major Academic Plan (MAP) (<https://www.isu.edu/advising/maps/>)