

THE UNIVERSITY OF RHODE ISLAND  
College of Human Science and Services  
School of Education

Specialization Requirements in Secondary Education - **PHYSICS**

**Required:**

Date(s)

Course

<u>Completed</u>	<u>Course No.</u>	<u>Title</u>	<u>Lab Hrs.</u>	<u>Credit</u>
_____	PHY 203 & 273	Elementary Physics I and Lab	1	4
_____	PHY 204 & 274	Elementary Physics II and Lab	1	4
_____	PHY 205 & 275	Elementary Physics III and Lab	1	4
_____	PHY 306	Elementary Modern Physics		3
_____	PHY 322	Mechanics		3
_____	PHY 331	Electricity and Magnetism		3
_____	PHY 334	Optics		3
_____	PHY 381 & 382	Advanced Laboratory Physics	6	6
_____	PHY 401	Seminar in Physics		1
_____	PHY 451	Introduction to Quantum Mechanics		3

Total Physics credit hours required (minimum) 34

Total Physics laboratory hours required (minimum) 9

**Additional science and math requirements:**

MTH 141, 142, 243 and 244 (Calculus and differential equations are prerequisites for upper level Physics courses)

A semester of chemistry (a year is **recommended**)

**A course from the following:** GEL 103 & 106, BIO 112, BIO 113, AST 108 (please indicate).

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All science students are urged to consider the following areas in their program:

A course focusing on computer use.

Courses specifically reflecting the history and/or philosophy of science.

Courses specifically reflecting the impact of science on the people's lives.