

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

Specialization Requirements Secondary Education - **BIOLOGY**

Required:

Date(s)

Course

<u>Completed</u>	<u>Course No.</u>	<u>Title</u>	<u>Credit</u>
_____	BIO 101	Principles of Biology I	4
_____	BIO 102	Principles of Biology II	4
_____	MIC 211	Introductory Microbiology	4
_____	BIO 262	(BOT 262) Introductory Ecology	3
_____	BIO 352	(PLS 352) Genetics (BCH 352 or ZOO 352)	3

At least one physiology course from the following: 3 – 4

_____	BIO 242 & 244	Introductory Human Physiology & Lab
_____	BIO 346(447)	Plant Physiology
_____	BIO 341	Principles of Cell Biology
_____	BIO 201	General Animal Physiology

At least one course from the following: 3 – 4

_____	BIO 311	Plant Structure and Development (Plant Anatomy)
_____	BIO 321	Plant Diversity
_____	BIO 323	Field Botany and Taxonomy

At least one course from the following: 3 – 4

_____	BIO 304(204)	Comparative Vertebrate Anatomy(Chordate Anatomy)
_____	BIO 205	Animal Diversity
_____	BIO 302(202)	Animal Development
_____	BIO 355	Marine Invertebrates of Southern New England
_____	BIO 354(464)	Invertebrate Zoology

Additional Biological Sciences credits 0 - 3

Total credits in Biological Science required (minimum) 30

Other science/math requirements:

_____	_____	One year introductory chemistry with lab.
_____	_____	One semester of organic chemistry.
_____	_____	One semester course in physics or earth science.
_____	_____	One semester of math (a year recommended).

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.