

THE UNIVERSITY OF RHODE ISLAND
College of Education and Professional Studies
School of Education

Specialization Requirements Secondary Education - **BIOLOGY**

Required:

| Date(s) Completed | Grade | Course Number | Title | Prerequisites | Credits |
|-------------------|-------|----------------|----------------------------------|---|---------|
| | | BIO 101 & 103 | Principles of Biology I and Lab | | 3 & 1 |
| | | BIO 102 & 104 | Principles of Biology II and Lab | BIO 101, 103 | 3 & 1 |
| | | CMB 201 OR 211 | Introduction to Microbiology | one semester of biology and one year of chemistry | 4 |
| | | BIO 262 | Introduction to Ecology | BIO 101, 102 | 4 |
| | | BIO 352 | Genetics (BIO 352 or BCH 352) | BIO 101, 102 | 4 |

At least one physiology course from the following:

| Date(s) Completed | Grade | Course Number | Title | Prerequisites | Credits |
|-------------------|-------|-----------------------|-------------------------------------|---|---------|
| | | BIO 201 (Fall only) | General Animal Physiology | two semesters of bio and one semester of chem recommended | 3 |
| | | BIO 242 & 244 | Introductory Human Physiology & Lab | BIO 121 | 3 & 1 |
| | | BIO 341 (Fall only) | Principles of Cell Biology | one semester of bio and one semester of organic chem | 3 |
| | | BIO 345 (Spring only) | Marine Environment Physiology | two semesters of bio | 3 |
| | | BIO 352 (Spring only) | Plant Physiology | BIO 102, one semester of chem | 3 |

At least one additional course from each row (Check Biology BA requirements for up-to-date list of these course)

| | | | | | |
|--|--|------------------------------------|--|--|-----|
| | | Choose 1 Plant Bio Course: BIO | | | 3-4 |
| | | Choose 1 Animal Bio Course: BIO | | | 3-4 |

Total credits in Biological Science required (minimum)

28 - 3

Other science/math requirements:

| | | | | | |
|--|--|--|---|--------------|-------|
| | | CHM 101 & 102 (or CHM 191) | General Chemistry and Lab | | 3 & 1 |
| | | CHM 124 & 126 | Introduction to Organic Chemistry and Lab | CHM 101, 102 | 3 & 1 |
| | | Choose 1: GEO 100; GEO 103; AST 108; OCG 110; OCG 301 | | | 3 |
| | | Choose 1: PHY ____; GWS 220; HIS 116; PHL 215; BIO/GEO 272 | | | 3-4 |
| | | MTH ____ | | | 3 |

| Biology BA | |
|--|---|
| Plant Biology | Animal Biology |
| BIO 311; BIO 321; BIO 323; BIO 332; BIO 346; BIO 348; BIO 365 (465); BIO 418 | BIO 121; BIO 201; BIO 242; BIO 244; BIO 286; BIO 301; BIO 302; BIO 304; BIO 327; BIO 329; BIO 334; BIO 335; BIO 354; BIO 355; BIO 366; BIO 385; BIO 386; BIO 412; BIO 441; BIO 445; BIO 467 |