

# B.S. Life Science Secondary Certification

You must make formal application for admittance to the Teacher Education Program. Applications are available at the Education Department Office.

General Education Requirements for all Bachelor's degrees

Quality Enhancement Plan (QEP) Requirement

## Life Science B.S. - Secondary Certification

Must include one botany elective and one zoology elective.

| Item #   | Title                                | credits |
|----------|--------------------------------------|---------|
| BIOL 111 | General Biology I                    | 4       |
| BIOL 112 | General Biology II                   | 4       |
| BIOL 180 | Biology Research Seminar             | 1       |
| BIOL 230 | Ecology                              | 4       |
| BIOL 320 | Genetics                             | 4       |
| BIOL 419 | Philosophy of Science                | 3       |
|          | BIOL Upper Division Electives (x3-4) | 12      |

## Required Cognates

| Item #   | Title                 | credits      |
|----------|-----------------------|--------------|
| CHEM 111 | General Chemistry I   | 4            |
| CHEM 112 | General Chemistry II  | 4            |
|          | MATH 141 or 180       | 3-4          |
|          | <b>Total credits:</b> | <b>43-44</b> |

## Category Descriptions

### BIOL Upper Division Electives (x3-4)

Credits: 12

Must include one botany elective and one zoology elective.

### MATH 141 or 180

Credits: 3-4

| Item #   | Title                                      | credits |
|----------|--|---------|
| MATH 141 | Introduction to Probability and Statistics | 3       |
| MATH 180 | Precalculus                                | 4       |