

**BACHELOR OF SCIENCE OR ARTS IN BIOLOGY TEACHING**  
**STARTING FALL 2025**

**IMPORTANT INFORMATION TO REMEMBER:**

- Students **MUST** complete a minimum of 40 Upper Division Hours (3000+ level courses)  
 Students **MUST** complete a minimum of 29 Biology credit hours  
 Students **MUST** complete a minimum of 30 Science credit hours (not including BIOL courses)  
 Students **MUST** complete 21 Biology Residency Hours that **MUST** be taken at the U  
 Students **MUST** complete **TWO** Biology Labs at the U  
 All major courses **MUST** be completed with a C- or better

**SCIENCE CORE**

| COURSE   | TITLE   | CREDITS                | SEMESTER |
|--|---|------------------------|----------|
| MATH 1050<br>&<br>MATH 1060<br>OR<br>MATH 1080 | COLLEGE ALGEBRA<br>&<br>TRIGONOMETRY<br>OR<br>PRECALCULUS | 4<br>&<br>3<br>OR<br>5 |          |
| MATH 1170<br>OR<br>MATH 1210                   | CALCULUS FOR<br>BIOLOGIST I<br>OR<br>CALCULUS I           | 4                      |          |
| CHEM 1210                                      | GEN CHEMISTRY I   | 4                      |          |
| CHEM 1215                                      | GEN CHEMISTRY LAB I                                       | 1                      |          |
| CHEM 1220                                      | GEN CHEMISTRY II  | 4                      |          |
| CHEM 1225                                      | GEN CHEMISTRY LAB II                                      | 1                      |          |
| CHEM 2310                                      | ORGANIC CHEMISTRY I                                       | 4                      |          |
| PHYS 2010                                      | GENERAL PHYSICS I   | 4                      |          |

**ENVIROMENTAL SCIENCE  
COMPLETE 1 COURSE**

| COURSE     | TITLE                                  | CREDITS | SEMESTER |
|------------|--|---------|----------|
| GEO 1030   | LIVING<br>W/EARTHQUAKES &<br>VOLCANOES | 3       |          |
| GEO 1100   | EVOLVING EARTH                         | 3       |          |
| GEO 1120   | INTRO TO EARTH<br>SYSTEM SCIENCE       | 3       |          |
| ATMOS 1010 | SEVERE/UNUSUAL<br>WEATHER              | 3       |          |
| ATMOS 1020 | CLIMATE CHANGE                         | 3       |          |

**BIOLOGY CORE**

| COURSE                       | TITLE  | CREDITS      | SEMESTER |
|------------------------------|--|--------------|----------|
| BIOL 1610                    | FUND. OF BIOLOGY I   | 4            |          |
| BIOL 1615                    | FUND. OF BIOLOGY LAB I   | 1            |          |
| BIOL 1620                    | FUND. OF BIOLOGY II  | 4            |          |
| BIOL 1625                    | FUND. OF BIOLOGY LAB II  | 1            |          |
| BIOL 2020<br>OR<br>BIOL 2021 | PRINC. OF CELL BIOLOGY<br>OR<br>PRINC. OF CELL SCIENCE<br>(HONORS) | 3<br>OR<br>4 |          |
| BIOL 2030                    | GENETICS   | 3            |          |
| BIOL 3410                    | ECOLOGY & EVOLUTION  | 3            |          |
| BIOL 3510                    | BIOLOGICAL CHEMISTRY   | 3            |          |

**INEGRATIVE ORGANISMAL BIOLOGY ELECTIVES  
COMPLETE 1 COURSE**

| COURSE    | TITLE                                | CREDITS | SEMESTER |
|-----------|--------------------------------------|---------|----------|
| BIOL 3150 | GENOMICS AND<br>BIOINFOMATICS        | 3 [L1]  |          |
| BIOL 3210 | GENERAL & PATHOGENIC<br>MICROBIOLOGY | 3       |          |
| BIOL 3240 | INRO TO CELLULAR<br>NEUROBIOLOGY     | 3       |          |
| BIOL 3310 | COMP VERTEBRATE<br>MORPHOLOGY        | 3       |          |
| BIOL 3320 | COMP PHYSIOLOGY                      | 3       |          |
| BIOL 3330 | BEHAVIORAL<br>NEUROBIOLOGY           | 3       |          |
| BIOL 3340 | INTRO TO PLANT<br>BIOLOGY            | 3       |          |
| BIOL 3350 | PHYSIOLOGY OF PLANTS                 | 3       |          |
| BIOL 3370 | MICROBIAL BIOLOGY                    | 3       |          |
| BIOL 3430 | ANIMAL BEHAVIOR                      | 3       |          |
| BIOL 5350 | ORNITHOLOGY                          | 3       |          |
| BIOL 5370 | MAMMALOLOGY                          | 3       |          |
| BIOL 5425 | MYCOLOGY                             | 4 [L1]  |          |
| BIOL 5480 | ENTOMOLOGY                           | 3       |          |
| BIOL 5510 | GENES, DEVELOPMENT,<br>& EVOLUTION   | 3       |          |

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**REQUIRED BIOLOGY LAB  
COMPLETE 1 COURSE**

| COURSE    | TITLE                                  | CREDITS | SEMESTER |
|-----------|--|---------|----------|
| BIOL 3125 | MOL TOOLS FOR EVOL & POP BIOLOGY       | 3 [L2]  |          |
| BIOL 3205 | GENERAL MICROBIOLOGY LAB               | 1 [L1]  |          |
| BIOL 3315 | COMP VERT MORPH LAB                    | 1 [L1]  |          |
| BIOL 3325 | COMP PHYSIOLOGY LAB                    | 3 [L2]  |          |
| BIOL 3485 | CONSERVATION BIOLOGY LAB               | 1 [L1]  |          |
| BIOL 3515 | BIOCHEMISTRY LAB                       | 3 [L1]  |          |
| BIOL 3525 | MOLECULAR BIOLOGY OF A DNA LAB         | 3 [L2]  |          |
| BIOL 5255 | PROKARYOTIC GENETICS                   | 4 [L2]  |          |
| BIOL 5275 | MICROBIAL DIVERSITY, GENOMICS AND EVOL | 4 [L2]  |          |
| BIOL 5355 | ORNITHOLOGY LAB                        | 1 [L1]  |          |
| BIOL 5425 | MYCOLOGY                               | 4 [L1]  |          |
| BIOL 5485 | ENTOMOLOGY LAB                         | 1 [L1]  |          |
| BIOL 5575 | ECO & EVO PARASITES & PATHOGENS LAB    | 1 [L1]  |          |
| BIOL 5665 | COMPUTATIONAL PALEOBIOLOGY             | 3 [L1]  |          |

**COMPLETE 1 5000-LEVEL BIOLOGY COURSE  
THAT IS AT LEAST 2 CREDIT HOURS**

| COURSE | TITLE | CREDITS | SEMESTER |
|--------|-------|---------|----------|
|        |       |         |          |

**COMPLETE 1 ADDITIONAL BIOLOGY LAB COURSE IF  
YOU DID NOT DO AN L2 IN REQUIRED BIOLOGY LAB  
SECTION**

| COURSE | TITLE | CREDITS | SEMESTER |
|--------|-------|---------|----------|
|        |       |         |          |

**OTHER BIOLOGY COURSES NEEDED FOR THE REQUIRED  
29 BIOLOGY HOURS OR ADDITIONAL SCIENCE  
ELECTIVES**

| COURSE | TITLE | CREDITS | SEMESTER |
|--------|-------|---------|----------|
|        |       |         |          |
|        |       |         |          |
|        |       |         |          |
|        |       |         |          |

**REQUIRED EDUCATION COURSES  
COMPLETE ALL COURSES**

| COURSE    | TITLE                            | CREDITS | SEMESTER |
|-----------|----------------------------------|---------|----------|
| EDU 1010  | INTRO TO TEACHING                | 3       |          |
| ECS 2150  | INTRO TO MULTICULTURAL EDUCATION | 3       |          |
| EDPS 2723 | CHILD DEVELOP & LEARNING:        | 3       |          |

|          |   |   |  |
|----------|---|---|--|
|          | UNDERSTANDING ADOLESCENTS GRADES 7-12                 |   |  |
| EDU 5170 | SECONDARY SCIENCE METHODS                             | 3 |  |
| ECS 5709 | BUILDING FAMILY-SCHOOL PARTNERSHIPS FOR YOUTH SUCCESS | 3 |  |

**COMPLETE 1 COURSE**

| COURSE     | TITLE                           | CREDITS | SEMESTER |
|------------|---------------------------------|---------|----------|
| ETHNC 2550 | AFRICN AMER EXPERIENCES         | 3       |          |
| ETHNC 2560 | INTRO TO CHICANX/LATINE STUDIES | 3       |          |
| ETHNC 2570 | AMERICAN INDIAN EXPER           | 3       |          |
| ETHNC 2580 | ASIAN AMERICAN EXPER            | 3       |          |
| ETHNC 2590 | PACIFIC ISLANDER AM EXP         | 3       |          |

**IMPORTANT INFORMATION TO REMEMBER:**

Students interested in obtaining a Secondary Education Teaching License MUST contact the Secondary Education Advisor for information on licensure coursework. A Secondary Education degree audit should also be generated based on the year the student was admitted to the University of Utah

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