

1. UNIVERSITY GENERAL EDUCATION REQUIREMENTS

- WRITING (C-): WRTG 2010 (3) QA: (included w calc) QB: (included w calc)
AM INST (D- or cr): ECON 1740 (3) or HIST 1700 (3) or POLSC 1100 (3) (circle course completed)
Fine Arts (F/FF/FI, 2 reqd (D- or cr)
Humanities (F/FF/FI, 2 reqd; D- or cr)
Soc/Behav (F/FF/FI, 2 reqd; D- or cr)

2. UNIVERSITY BACHELOR OF SCIENCE/ARTS REQUIREMENTS:

- CW(C- or cr): WRT 3015 (3) B.A. (C- or cr): 4 sem. of language
Ethnc 25XX (DV)
IR (C- or cr)
UPPER DIVISION CREDITS (40 cr. min. of 3000-, 4000-, and 5000-level courses)

3. SCIENCE CORE (complete 9 courses; min C-, no cr/nc) (30 cr):

- MATH 1170 or 1210 (4) CHEM 1210 (4) CHEM 2310 (4)
MATH 1180 or 1220 or 3070 (4) CHEM 1215 (1)
PHYS 2010 or 2110 or 2210 (4) CHEM 1220 (4)
PHYS 2020 or 2120 or 2220 (4) CHEM 1225 (1)

Students wishing to earn a chemistry endorsement are encouraged to complete a chemistry minor.

4. BIOLOGY COURSE REQUIREMENTS (min C-, no cr/nc)

- Recommended: BIOL 1210 (4) Principles of Biology (waived with AP Biology score of 4 or 5) (ALL)

BIOLOGY CORE (complete all four courses) (12 cr):

- BIOL 2010 (3) Evolution and Diversity (S only) BIOL 2030 (3) Principles of Genetics (F/S)
BIOL 2020 (3) Principles of Cell Biology (F/S) BIOL 3510 (3) Biological Chemistry I (ALL)

ECOLOGY AND ENVIRONMENTAL BIOLOGY (complete one course) (3 cr; all available each spring):

- BIOL 3410 Ecol & Evol -or- BIOL 3440 Global Change Ecology -or- BIOL 3460 Global Env Issues (IR)

ORGANISMAL FORM AND FUNCTION COURSES (complete one course) (3 cr):

- BIOL 3310 (3) Com. Vert. Morph (F) BIOL 3350 (3) Plant Phys (S odd)
BIOL 3320 (3) Comp. Physiology (F) BIOL 3370 (3) Microbial Biol (S)
BIOL 3330 (3) Behav. Neurobiol (F) BIOL 5365 (4) [L1] Plant Struct (S even)
BIOL 3380 (3) Evol & Physiol Basis of Hlth (F)

COMPLETE ONE LAB FROM EACH GROUP (complete two courses) (3-6 cr):

Table with 2 columns: Cell & Molecular Biology labs (1 reqd) and Environmental & Organismal labs (1 reqd). Lists various biology lab courses and their credit requirements.

Complete 12-15 cr of APPROVED BIOLOGY ELECTIVES to total 36 cr of BIOLOGY. Biology electives must include ONE LAB, and 6 CR of UPPER DIVISION COURSES. One course must be at the 5000-LEVEL.

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21 of 36 Biol credits and 2 Biol labs must be from U of U Biology Dept

Note: UT licensing requires either BIOL 2325 Human Anatomy -or- BIOL 2420 Human Physiology

5. Complete APPROVED SCIENCE/EARTH SCI ELECTIVES to meet reqmt for 69 credits (if needed; C-, no cr/nc.)

( ) ( ) Students are encouraged to explore a broad range of sciences.

6. EDUCATION RQMT (min C-; no cr/nc) (3 cr) EDU 5375 -or- EDU 5170

7. ADDT'L RQMTS to apply to EDU cohort (not req'd for BS/BA): EDU 1010 (3)

**1. Complete requirements for a TEACHING MAJOR in another department**

A teaching minor can only be awarded in conjunction with a teaching major in another department.

**2. COMPLETE THREE CHEMISTRY COURSES (3 reqd; 9 cr):**

- \_\_\_\_\_ CHEM 1210 (4) *General Chemistry I*  
 \_\_\_\_\_ CHEM 1215 (1) *General Chemistry I Lab*  
 \_\_\_\_\_ CHEM 1220 (4) *General Chemistry II*

**3. COMPLETE THREE CORE BIOLOGY COURSES (3 reqd; 9 cr):**

- \_\_\_\_\_ BIOL 2010 (3) *Evolution and Diversity of Life*  
 \_\_\_\_\_ BIOL 2020 (3) *Principles of Cell Biology*  
 \_\_\_\_\_ BIOL 2030 (3) *Principles of Genetics*

**4. COMPLETE ONE COURSE IN ECOLOGY AND ENVIRONMENTAL BIOLOGY.**

Complete one of the following courses (3 cr;):

- \_\_\_ BIOL 3410 *Ecol & Evol* (S) -or- \_\_\_ BIOL 3440 *Globl Change Ecol* (F) -or- \_\_\_ BIOL 3460 *Globl Env Iss* (IR) (F)

**5. COMPLETE ONE ORGANISMAL FORM AND FUNCTION COURSE**

Complete one of the following courses (3 cr):

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|---|---|
| _____ BIOL 3310 (3) <i>Com.Vert. Morph</i> (F)                  | _____ BIOL 3350 (3) <i>Plant Phys</i> (S odd)         |
| _____ BIOL 3320 (3) <i>Comp. Physiology</i> (F)                 | _____ BIOL 3370 (3) <i>Microbial Biol</i> (S)         |
| _____ BIOL 3330 (3) <i>Behav. Neurobiol</i> (F)                 | _____ BIOL 5365 (4) [L1] <i>Plant Struct</i> (S even) |
| _____ BIOL 3380 (3) <i>Evol &amp; Physiol Basis of Hlth</i> (F) |   |

**6. COMPLETE ONE LAB FROM EACH GROUP (complete two courses) (3-6 cr):**

Cell & Molecular Biology labs (1 reqd)	Environmental & Organismal labs (1 reqd)
_____ BIOL 2115 (2)[L2] <i>Basic Tech Lab</i> (F/S)	_____ BIOL 2015 (2) [L1] <i>Evol &amp; Div Lab</i> (S)
_____ BIOL 3125 (3) [L2] <i>Mol Evol Lab*</i> (S odd)	_____ BIOL 2325 (4) [L1] <i>Human anatomy</i> (ALL)
_____ BIOL 3215 (2)[L1] <i>Cell Biol lab</i> (F)	_____ BIOL 2355 (2) [L1] <i>Field Botany</i> (Su)
_____ BIOL 3235 (2)[L1] <i>Develop Lab</i> (F)	_____ BIOL 3125 (3) [L2] <i>Mol Evol Lab*</i> (S odd)
_____ BIOL 3246 (2)[L1] <i>Cell Neuro Lab</i>	_____ BIOL 4955 (2-3)[L2] <i>Indiv Research*</i> (ALL)
_____ BIOL 3515 (2)[L1] <i>Biol Chem Lab</i> (S)	
_____ BIOL 3525 (3)[L2] <i>MBiol DNA Lab</i> (F)	
_____ BIOL 4955 (2-3)[L2] <i>Indiv Research*</i> (ALL)	

\*Can only be counted towards one lab.

**7. COMPLETE ONE APPROVED UPPER DIVISION (3000+) BIOLOGY ELECTIVE (2-4 cr).**

\_\_\_\_\_ BIOL \_\_\_\_\_ Students are encouraged to take a 5000-level elective.

\_\_\_\_\_ **Note:** UT licensing requires either BIOL 2325 Human Anatomy -or- BIOL 2420 Human Physiology

**8. EDUCATION RQMT (min C-; no cr/nc) (3 cr) \_\_\_\_\_ EDU 5375 -or- \_\_\_\_\_ EDU 5170**

30-35 CR (18-23 cr Biology)

10 CR Biology including 5 CR upper division and 1 lab must be completed in the Biology Department at the University of Utah.

Candidates for the Biology Teaching minor must maintain a 2.0 GPA in Biology and a C- or better in all required courses.

Candidates for licensure are expected to maintain a 3.0 GPA overall and earn a "C" in all courses required for licensing.