

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^b _____
 Ethnc 25XX (DV) _____ () -or-
 IR (C- or cr) _____ () B.S (C-): QI _____ () + QI _____ ()
 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) Students wishing to earn a chemistry
 PHYS 2010 or 2110 or 2210 (4) CHEM 1220 (4) endorsement are encouraged to
 PHYS 2020 or 2120 or 2220 (4) CHEM 1225 (1) 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):

| Cell & Molecular Biology labs (1 reqd) | Environmental & Organismal labs (1 reqd) |
|---|---|
| <input type="checkbox"/> BIOL 2115 (2)[L2] <i>Basic Tech Lab</i> (F/S) | <input type="checkbox"/> BIOL 2015 (2) [L1] <i>Evol & Div Lab</i> (S) |
| <input type="checkbox"/> BIOL 3125 (3) [L2] <i>Mol Evol Lab*</i> (S odd) | <input type="checkbox"/> BIOL 2355 (2) [L1] <i>Field Botany</i> (Su) |
| <input type="checkbox"/> BIOL 3215 (2)[L1] <i>Cell Biol lab</i> (F) | <input type="checkbox"/> BIOL 2425 (1) [L1] <i>Human Phys Lab</i> (Su/F) |
| <input type="checkbox"/> BIOL 3235 (2)[L1] <i>Develop Lab</i> (F) | <input type="checkbox"/> BIOL 3125 (3) [L2] <i>Mol Evol Lab*</i> (S odd) |
| <input type="checkbox"/> BIOL 3246 (2)[L1] <i>Cell Neuro Lab</i> | <input type="checkbox"/> BIOL 3325 (3) [L2] <i>Comp Phys Lab</i> (S) |
| <input type="checkbox"/> BIOL 3515 (2)[L1] <i>Biol Chem Lab</i> (S) | <input type="checkbox"/> BIOL 4955 (2-3)[L2] <i>Indiv Research*</i> (ALL) |
| <input type="checkbox"/> BIOL 3525 (3)[L2] <i>MBiol DNA Lab</i> (F) | |
| <input type="checkbox"/> BIOL 4955 (2-3)[L2] <i>Indiv Research*</i> (ALL) | *Can only be counted towards one lab. |

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.

BIOL _____ () BIOL _____ () BIOL _____ ()
 BIOL _____ () BIOL _____ () BIOL _____ ()

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):

- | | |
|---|---|
| _____ 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 & 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)**

- _____ BIOL 2115 (2)[L2] *Basic Tech Lab* (F/S)
 _____ BIOL 3125 (3) [L2] *Mol Evol Lab** (S odd)
 _____ BIOL 3215 (2)[L1] *Cell Biol lab* (F)
 _____ BIOL 3235 (2)[L1] *Develop Lab* (F)
 _____ BIOL 3246 (2)[L1] *Cell Neuro Lab*
 _____ BIOL 3515 (2)[L1] *Biol Chem Lab* (S)
 _____ BIOL 3525 (3)[L2] *MBiol DNA Lab* (F)
 _____ BIOL 4955 (2-3)[L2] *Indiv Research** (ALL)

Environmental & Organismal labs (1 reqd)

- _____ BIOL 2015 (2) [L1] *Evol & Div Lab* (S)
 _____ BIOL 2325 (4) [L1] *Human anatomy* (ALL)
 _____ BIOL 2355 (2) [L1] *Field Botany* (Su)
 _____ BIOL 3125 (3) [L2] *Mol Evol Lab** (S odd)
 _____ BIOL 4955 (2-3)[L2] *Indiv Research** (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.