

# SOUTHERN UTAH UNIVERSITY

## College of Science & Engineering – B.S./B.A. in Biology/Teaching (2012-2013)

### GENERAL EDUCATION (CORE COURSE REQUIREMENTS)

**English Requirements (C): (6)**

- \_\_ ENGL 1010
- \_\_ ENGL 2010

**Quantitative Literacy Requirements (C): (4)**

- \_\_ MATH 1050\* (*Recommended*)  
*Pre-req: C or better in MATH 1010 or ACT 23+*

**Information Literacy Requirement (C): (1)**

- \_\_ LM 1010

**Computer Literacy Requirement (C): (3)**

- \_\_ CSIS 1000

**American Institutions Requirement (I): (3)**

- \_\_ HIST 1700 *or* POLS 1100 *or* ECON 1740

### GENERAL EDUCATION (KNOWLEDGE AREA REQUIREMENTS)

**Fine Arts (F): (3)**

- \_\_ Select one

**Humanities (H): (3)**

- \_\_ Select one

**Social and Behavioral Sciences (S): (3)**

- \_\_ Select one

**Life Science (L): (4)**

- \_\_ BIOL 1610\*/1615\* (*Recommended*)

**Physical Science (P): (4-5)**

- \_\_ CHEM 1110/1115\* (*Recommended*)  
*Pre-req: MATH 1010 or above*

**OR**

- CHEM 1210/1215\* (*Recommended*)  
*Pre-req: MATH 1050 or 2 yrs H.S. Algebra*

**TOTAL: 34-35 CREDITS**

### EXPERIENTIAL EDUCATION (3 credits)

- \_\_ UNIV 1010 – Introduction to Experiential Education (1)
- \_\_ UNIV 3925 – Experiential Education Proposal (1)
- \_\_ UNIV 4925 – Experiential Education Synthesis & Reflection (1)

Students will choose one of five Experiential Engagement Tracks to work in to complete this requirement. These include Global, Community, Leadership, Outdoor, & Creativity and Innovation.

### BIOLOGY CORE REQUIREMENTS (20 credits)

- \_\_ BIOL 1610/1615\* General Biology I/Lab (4) (F/S)
- \_\_ BIOL 1620/1625 General Biology II/Lab (4) (F/S)  
*Pre-req: BIOL 1610/1615*
- \_\_ BIOL 3030/3035 Ecology/Lab (4) (F)  
*Pre-req: BIOL 1620/1625 & MATH 1040*
- \_\_ BIOL 3060/3065 Genetics/Lab (4) (F/S)  
*Pre-req: BIOL 1620/1625, MATH 1050, & CHEM 1110/1115 or CHEM 1210/1215*
- \_\_ BIOL 3110 Evolution (3) (F/S)  
*Pre-req: BIOL 3030/3035 & BIOL 3060/3065*
- \_\_ BIOL 4990 Seminar (1) (F/S)  
*Pre-req: BIOL 1620/1625*

### REQUIRED SUPPORT COURSES (18 or 28 credits)

*(CHEM 1200 & 2300 tracks required for Chemistry teaching endorsement)*

- \_\_ MATH 1040\* Statistics (4) (F/S/M)  
*Pre-req: C or better in MATH 1010 or ACT 23+*
- \_\_ MATH 1050\* College Algebra (4) (F/S/M)  
*Pre-req: C or better in MATH 1010 or ACT 23+*

AND

- \_\_ CHEM 1110/1115\* Elementary Chem./Lab (4) (F/S/M)  
*Pre-req: MATH 1010*
- \_\_ CHEM 1120/1125 Elementary Org. Bio-Chem. (6) (F/S/M)  
*Pre-req: C or better in CHEM 1110/1115*

**OR**

- \_\_ CHEM 1210/1215\* Principles of Chemistry I/Lab (5) (F/M)  
*Pre-req: MATH 1050 or 2 yrs H.S. Algebra*
- \_\_ CHEM 1220/1225 Principles of Chemistry II/Lab (5) (S/M)  
*Pre-req: C or better in CHEM 1210/1215*
- \_\_ CHEM 2310/2315 Organic Chemistry I/Lab (5) (F/M)  
*Pre-req: C or better in CHEM 1220/1225*
- \_\_ CHEM 2320/2325 Organic Chemistry II/Lab (5) (S/M)  
*Pre-req: C or better in CHEM 2310/2315*

F: Fall courses

S: Spring courses

M: Maymester/Summer courses

### TEACHING EMPHASIS COURSES (25-27 credits)

- \_\_ BIOL 2420/2425 Human Physiology/Lab (4) (F/S)  
*Pre-req: BIOL 1610/1615*
- \_\_ BIOL 2060/2065 Microbiology/Lab (4) (F/S)  
*Pre-req: BIOL 1610/1615*
- \_\_ BIOL 4070 Capstone: History and Literature of Biology (3) (S)  
*Pre-req: BIOL 3110*
- \_\_ BIOL 4650 Capstone: Conservation Biology (3) (S)  
*Pre-req: BIOL 3110*
- \_\_ BIOL 4900 Biology Teaching Methods (3) (F)  
*Pre-req: BIOL 3110*
- \_\_ BIOL 4980 Student Teach. (for Secondary Licensure) (2) (F/S)  
*Co-req: EDUC 4980*

**Choose one of the following (3-4 credits):**

- \_\_ BIOL 2500 Environmental Biology (3) (F)
- \_\_ BIOL 3370/3375 Ichthyology/Lab (4) (S even)  
*Pre-req: BIOL 3030/3035*
- \_\_ BIOL 3390/3395 Mammalogy/Lab (4) (F odd)  
*Pre-req: BIOL 3030/3035*
- \_\_ BIOL 3410/3415\*\* Invertebrate Zoology/Lab (4) (F even)  
*Pre-req: BIOL 3030/3035*
- \_\_ BIOL 3430/3435 Entomology/Lab (4) (F odd)  
*Pre-req: BIOL 3030/3035*
- \_\_ BIOL 3450/3455\*\* Comparative Vertebrate Studies/Lab (4) (S)  
*Pre-req: BIOL 3110*
- \_\_ BIOL 3470/3475 Herpetology/Lab (4) (F even)  
*Pre-req: BIOL 3030/3035*
- \_\_ BIOL 3490/3495 Ornithology/Lab (4) (S odd)  
*Pre-req: BIOL 3030/3035*
- \_\_ BIOL 4410\*\* Animal Behavior (3) (F)  
*Pre-req: BIOL 3110 & MATH 1040*

**Choose one of the following (3-4 credits):**

- \_\_ BIOL 3510/3515 Plant Anatomy & Diversity/Lab (4) (F odd)  
*Pre-req: BIOL 1620/1625*
- \_\_ BIOL 3530/3535 Plant Physiology/Lab (4) (F even)  
*Pre-req: BIOL 1620/1625*
- \_\_ BIOL 3550 Plant Taxonomy (3) (S)  
*Pre-req: BIOL 1620/1625*

\*\* Highly recommended electives for science teachers

**Bachelor of Arts Degree Requirements (16 credits)  
Bachelor of Science Degree Requirements (12 credits)**

**B.A.:** Students must take at least 16 credits of a foreign language.

**B.S.:** Students must take at least 12 credits of mathematics/  
laboratory science courses. These are generally fulfilled by your  
degree requirements.

**REQUIRED EDUCATION COURSES (35 credits)**

See Education Advisor.

Please note that this degree does not include the requisite number of  
upper division hours. Students completing this degree will fill the  
upper division requirements while completing coursework for the  
Secondary Teaching Certificate.

**Additional Information**

**Students must complete their major coursework  
with a C- grade or above.**

**Students must have a total of 40 Biology credits  
(not including BIOL 1010);  
20 Biology credits must be upper-division.**

**Students must have 120 total credits/  
40 upper-division credits to graduate.**

**A minor is not required.**

**Pre-Requisites and the semester that courses are  
offered are subject to change. Please check the  
current catalog for updates.**