

SOUTHERN UTAH UNIVERSITY

Walter Maxwell Gibson College of Science & Engineering

BS/BA in Biology (2013-2014)

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 HS Algebra

TOTAL: 34-35 CREDITS

EDGE PROGRAM (3 CREDITS)

- __ UNIV 1010 – EDGE Program Introduction (1)
- __ UNIV 3925 – EDGE Project Proposal (1)
- __ UNIV 4925 – EDGE Program Completion (1)

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

BIOLOGY CORE REQUIREMENTS (24 CREDITS)

- __ BIOL 1610/1615* General Biology I/Lab (4) (F/S)
- __ BIOL 1620/1625 General Biology II/Lab (4) (F/S)
Pre-req: C or better in BIOL 1610/1615
- __ BIOL 3010/3015 General Microbiology/Lab (4) (F/S)
Pre-req: C or better in BIOL 1610/1615
- __ BIOL 3030/3035 Ecology/Lab (4) (F)
Pre-req: C or better in BIOL 1620/1625 & MATH 1040
- __ BIOL 3060/3065 Genetics/Lab (4) (F/S)
Pre-req: C or better in BIOL 1620/1625, MATH 1050, & CHEM 1110/1115 or CHEM 1210/1215
- __ BIOL 3110 Evolution (3) (F/S)
Pre-req: C or better in BIOL 3030/3035 & BIOL 3060/3065
- __ BIOL 4990 Seminar (1) (F/S)
Pre-req: C or better in BIOL 1620/1625

REQUIRED SUPPORT COURSES (18 OR 28 CREDITS)

(*CHEM 1200 Series Recommended for Advanced Degrees*)

- __ 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: C or better in MATH 1010 or above
- __ 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: C or better in MATH 1050 or 2 yrs HS 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

UPPER DIVISION BIOLOGY REQUIREMENTS (15-16 CREDITS) (listed on next page)

- __ BIOL 3000 Level (12 credits)
- __ BIOL 4000 Level (3-4 credits)

ELECTIVE COURSES (27-38 CREDITS WITH 6-7 BEING UPPER-DIVISION & 0-1 BEING BIOLOGY)

- __ Electives
- __ Electives

F: Fall courses

S: Spring courses

M: Maymester/Summer courses

* Courses that fulfill both Gen. Ed. and major requirements

UPPER DIVISION BIOLOGY REQUIREMENTS (15-16 CREDITS)

Choose three of the following (12 credits):

- BIOL 3050** Biomedical Ethics (2) (S)
- BIOL 3230** Cadaver Practicum (2) (F/S)
Pre-req: C or better in BIOL 2320/2325
- BIOL 3250/3255** Histology/Lab (4) (F)
Pre-req: C or better in BIOL 1620/1625
- BIOL 3270/3275** Vertebrate Physiology/Lab (4) (S)
Pre-req: C or better in BIOL 1620/1625 & MATH 1040
- BIOL 3290/3295** Embryology/Lab (4) (S)
Pre-req: C or better in 1620/1625
- BIOL 3310/3315** Cell and Molecular Biology/Lab (4) (S)
Pre-req: C or better in BIOL 3060/3065
- BIOL 3350** Immunology (3) (F odd)
Pre-req: C or better in BIOL 3310/3315
- BIOL 3370/3375** Ichthyology/Lab (4) (S even)
Pre-req: C or better in BIOL 3030/3035
- BIOL 3390/3395** Mammalogy/Lab (4) (F odd)
Pre-req: C or better in BIOL 3030/3035
- BIOL 3410/3415** Invertebrate Zoology/Lab (4) (F even)
Pre-req: C or better in BIOL 3030/3035
- BIOL 3430/3435** Entomology/Lab (4) (F odd)
Pre-req: C or better in BIOL 3030/3035
- BIOL 3450/3455** Comparative Vertebrate Studies/Lab (4) (S)
Pre-req: C or better in BIOL 3110
- BIOL 3470/3475** Herpetology/Lab (4) (F even)
Pre-req: C or better in BIOL 3030/3035
- BIOL 3490/3495** Ornithology/Lab (4) (S odd)
Pre-req: C or better in BIOL 3030/3035
- BIOL 3510/3515** Plant Anatomy & Diversity/Lab (4) (F odd)
Pre-req: C or better in BIOL 1620/1625
- BIOL 3530/3535** Plant Physiology/Lab (4) (F even)
Pre-req: C or better in BIOL 1620/1625
- BIOL 3550/3555** Plant Taxonomy/Lab (4) (S)
Pre-req: C or better in BIOL 1620/1625
- BIOL 3630/3635** Freshwater Biology/Lab (4) (F as needed)
Pre-req: C or better in BIOL 3030/3035
- BIOL 3710/3715** Greenhouse Practicum I/Lab (2) (F/S)
Pre-req: Consent of instructor
- BIOL 3990** Advanced Topics in Biology (2) (F/S)
Pre-req: C or better in BIOL 1620/1625
NOTE: Substitution Form Required

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

- BIOL 4070** Capstone: History and Literature of Biology (3) (S)
Pre-req: C or better in BIOL 3110
- BIOL 4410** Animal Behavior (3) (F)
Pre-req: C or better in BIOL 3110 & MATH 1040
- BIOL 4500/4505** Capstone: Biology of Disease (4) (F even)
Pre-req: C or better in BIOL 3310/3315
NOTE: Substitution Form Required
- BIOL 4510** Plant Pathology & Mycology (3) (F, on demand)
Pre-req: C or better in BIOL 1620/1625
- BIOL 4530/4535** Plant Propagation/Lab (4) (S, on demand)
Pre-req: C or better in BIOL 1620/1625
- BIOL 4650** Capstone: Conservation Biology
Pre-req: C or better in BIOL 3110

BIOLOGY PROFESSIONALS
(SUGGESTED ELECTIVES)

HEALTH CARE PROFESSIONALS

- BIOL 2320/2325** Human Anatomy/Lab (4) (F/S)
- BIOL 2420/2425** Human Physiology/Lab (4) (F/S)
- BIOL 3050** Biomedical Ethics (2) (S)
- BIOL 3230** Cadaver Practicum (2) (F/S)
- BIOL 3250/3255** Histology/Lab (4) (F/S)
- BIOL 3270/3275** Vertebrate Physiology/Lab (4) (S)
- BIOL 3290/3295** Vertebrate Embryology/Lab (4) (F)
- BIOL 3310/3315** Cell and Molecular Biology/Lab (4) (S)
- BIOL 3450/3455** Comparative Vertebrate Studies/Lab (4) (S)
- BIOL 3990** Advanced Topic in Biology (2) (F/S)

VETERINARY PROFESSIONALS

- AGSC 1100** Principles of Animal Science (3) (F)
- AGSC 3150** Animal Breeding (3) (F)
- AGSC 3400/3405** Feed. & Nutr. of Horses & Live./Lab (4) (S)
- AGSC 3500/3505** Animal Reproduction/Lab (4) (S)
- BIOL 3270/3275** Vertebrate Physiology/Lab (4) (S)
- BIOL 3290/3295** Vertebrate Embryology/Lab (4) (S)

NATURAL RESOURCES OR WILDLIFE PROFESSIONALS

- BIOL 3390/3395** Mammalogy/Lab (4) (F odd)
- BIOL 3430/3435** Entomology/Lab (4) (F odd)
- BIOL 3470/3475** Herpetology/Lab (4) (F even)
- BIOL 3490/3495** Ornithology/Lab (4) (S odd)
- BIOL 3370/3375** Ichthyology/Lab (4) (S even)
- BIOL 3510/3515** Plant Anatomy & Diversity/Lab (4) (F odd)
- BIOL 3550/3555** Plant Taxonomy/Lab (4) (S)
- BIOL 3630/3635** Freshwater Biology/Lab (4) (F as needed)
- NR 3000** Natural Resources Management (3) (S)
- RANG 3600/3610** Range Management/Lab (4) (F)

◆ ADDITIONAL INFORMATION ◆

B.A. Requirement:

Students must take at least 16 credits of a foreign language.

B.S. Requirement:

Students must take at least 12 credits of mathematics/laboratory science courses.

Students must complete their major coursework with a C grade (2.0) or higher.

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.

Credits over ten years old may not be accepted.

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