

SOUTHERN UTAH UNIVERSITY

College of Science & Engineering – B.S./B.A. in Physical Science/Teacher Education (2012-2013)

GENERAL EDUCATION (CORE COURSE REQUIREMENTS)

English Requirements (C): (6)

- __ ENGL 1010
- __ ENGL 2010

Quantitative Literacy Requirements (C): (4)

- __ MATH 1210* (*Must Take*)

Pre-req: C or better in MATH 1050 & 1060

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): (3)

- __ Select one

Physical Science (P): (5)

- __ CHEM 1210/1215* (*Must Take*)

Pre-req: MATH 1050 or 2 yrs H.S. Algebra

TOTAL: 34 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.

PHYSICAL SCIENCE COMPOSITE REQUIREMENTS (68 credits)

__ CHEM 1220/1225 Principles of Chemistry II/Lab (5) (S/M)

Pre-req: C or better in CHEM 1210/1215

__ CHEM 2010 Chemical Laboratory Safety (1) (F odd)

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

__ CHEM 3000/3005 Quantitative Analysis/Lab (4) (F)

Pre-req: C or better in CHEM 1220/1225

__ CHEM 3700 Environmental Chemistry (3) (F)

Pre-req: C or better in CHEM 1220/1225

__ GEOG 3220/3225 Weather and Climate/Lab (4) (S even)

__ GEO 1110/1115* Physical Geology/Lab (4) (F)

__ GEO 1220/1225 Historical Geology/Lab (4) (S)

Pre-req: GEO 1110/1115

__ GEO 3210/3215 Mineralogy/Lab (4) (F)

Pre-req: GEO 1110/1115, CHEM 1210/1215, & instructor permission

__ MATH 1220 Calculus II (4) (F/S)

Pre-req: C or better in MATH 1210 or H.S. AP Calculus

__ PHYS 1040/1045 Elementary Astronomy/Lab (4) (F/S)

__ PHYS 2210/2215* Physics for Scientists & Eng. I/Lab (5) (F/S)

Pre-req: MATH 1210; co-req MATH 1220 & PHYS 2230 rec.

__ PHYS 2220/2225 Physics for Scientists & Eng. II/Lab (5) (F/S)

*Pre-req: PHYS 2210/2215 & MATH 1220;
co-req PHYS 2260 rec.*

__ PHYS 3310 Quantum Physics I (3) (As needed)

Pre-req: PHYS 2220/2225

__ PSCI 4900 Teaching Science in the Secondary School (2) (S)

__ PSCI 4980 Teaching Science in Physical Science (2) (As needed)

PHYSICAL SCIENCE COMPOSITE REQUIREMENTS (CON'T)

Choose 4 credits (admission to the program required):

__ GEO 3010/3015 Environmental Geology/Lab (4) (S odd)

__ GEO 3110/3115 Paleontology/Lab (4) (S even)

Pre-req: GEO 1220/1225

__ GEO 3170/3175 Oceanography/Lab (4) (S odd)

Pre-req: GEO 1110/1115

__ GEO 3410/3415 Sedimentology & Stratigraphy/Lab (4) (F odd)

Pre-req: GEO 4990, 1220/1225

__ GEO 3510/3515 Structural Geology/Lab (4) (F even)

*Pre-req: MATH 1050 & 1060, GEO 4990, 1220/1225,
& PHYS 2210/2215*

__ GEO 4000 Selected Field Trips (2) (F/S)

Pre-req: instructor permission

__ GEO 4070 Applied Geochemistry (3) (S odd)

Pre-req: GEO 1110/1115 & 3210/3215, & CHEM 1220/1225

REQUIRED EDUCATION COURSES (37-40 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 course work for the Secondary Teaching Certificate.

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.

F: Fall courses

S: Spring courses

M: Maymester/Summer courses

Additional Information

CSIS courses are strongly recommended additional electives.

**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.