

SOUTHERN UTAH UNIVERSITY

College of Science & Engineering – B.S. in Chemistry/Professional (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: MATH 1050 & 1060 or H.S. background*

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)

- __ BIOL 1610/1615 (*Recommended*)

Physical Science (P): (5)

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

TOTAL: 33-34 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.

CHEMISTRY - PROFESSIONAL REQUIREMENTS (75 credits)

- __ CHEM 1210/1215* Principles of Chemistry I/Lab (5) (F/M)
Pre-req: MATH 1050 or 2 years 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
- __ CHEM 3000/3005 Quantitative Analysis/Lab (4) (F)
Pre-req: C or better in CHEM 1220/1225
- __ CHEM 3160 Inorganic Chemistry (3) (F even)
Pre-req: C or better in CHEM 2310/2315
- __ CHEM 3610/3615 Physical Chemistry I/Lab (4) (F)
Pre-req: C or better in CHEM 1220/1225, MATH 1220
- __ CHEM 3620/3625 Physical Chemistry II/Lab (4) (S)
Pre-req: C or better in CHEM 3610/3615
- __ CHEM 4110 Biochemistry I (4) (F)
Pre-req: C or better in CHEM 2320/2325 & BIOL 1620/1625
- __ CHEM 4160/4165 Advanced Inorganic Chem./Lab (4) (S odd)
Pre-req: C or better in CHEM 3160
- __ CHEM 4230 Instrumental Analysis (3) (S even)
Pre-req: C or better in CHEM 3000/3005 or CHEM 3620/3625
- __ CHEM 4240 Analysis Lab (2) (S)
Pre-req: C or better in CHEM 4230 or Instructor Permission
- __ CHEM 4250 Synthesis Lab (2) (F odd)
Pre-req: C or better in CHEM 2320/2325
- __ CHEM 4990 Chemistry Literature/Seminar (1) (S)
Pre-req: C or better in CHEM 2320 or any upper-division CHEM

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

CHEMISTRY - PROFESSIONAL REQUIREMENTS (CON'T)

- __ MATH 1220 Calculus II (4) (F/S)
Pre-req: C or better in MATH 1210 or H.S. AP Calculus
- __ MATH 2210 Calculus III (4) (F/S)
Pre-req: C or better in MATH 1220
- __ MATH 2270 Linear Algebra (3) (F/S)
Pre-req: MATH 1220
- __ MATH 2280 Differential Equations (3) (S)
Pre-req: MATH 1220 & 2270 (MATH 2270 can be taken concurrently)
- __ 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.

ELECTIVE COURSES (8-9 credits, 7 upper-division)

- __ Electives (any discipline)

Bachelor of Science Degree Requirements (12 credits)

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

Additional Information

Students must complete all coursework with a C grade or above.

All Chemistry majors must successfully complete an exit exam before graduation.

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

F: Fall courses
S: Spring courses
M: Maymester/Summer courses

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