

**Bachelor of Science in Chemistry Composite – Professional Emphasis**  
**Worksheet & Pre-Requisites —2017-18**

Course #	Course title	CR	Offered	Pre-Requisites
<b>Required Courses</b>				
*CHEM 1220/1225	Principles of Chemistry II/Lab	4/1	S/Su	CHEM 1210/15
CHEM 2310/2315	Organic Chemistry I/Lab	4/1	F/Su	CHEM 1220/25
CHEM 2320/2325	Organic Chemistry II/Lab	4/1	S/Su	CHEM 2310/15
CHEM 3000/3005	Quantitative Analysis/Lab	3/1	Fall	CHEM 1220/25
CHEM 3160	Intermediate Inorganic Chemistry	3	F-even	CHEM 2310/15
CHEM 3610/3615	Physical Chemistry/Lab	3/1	Fall	CHEM 1220/25, MATH 1220
CHEM 3620/3625	Physical Chemistry II/Lab	3/1	Spring	CHEM 3610 admission to program
CHEM 4110	Biochemistry I	4	Fall	CHEM 2320 & BIOL 1620
CHEM 4120	Biochemistry II	4	Spring	CHEM 4110
CHEM 4160/4165	Advanced Inorganic Chemistry/Lab	3/1	S-odd	CHEM 3160 admission to program
CHEM 4230	Instrumental Analysis	3	S-even	CHEM 3000 or CHEM 3620
CHEM 4240	Analysis Laboratory	2	Spring	CHEM 4230
CHEM 4250	Synthesis Lab	2	F-odd	CHEM 2320/25
CHEM 4990	Chemical Literature & Seminar	1	Spring	CHEM 2320 or UD CHEM
*MATH 1220	Calculus II	4	F/S	MATH 1210
MATH 2210	Calculus III	4	F/S	MATH 1220
MATH 2270	Linear Algebra	3	F/S	MATH 1220
MATH 2280	Differential Equations	3	S	MATH 1220 & 2270
PHYS 2210/2215	Physics for Scientists & Engineers/Lab	4/1	F/S	MATH 1210
PHYS 2220/2225	Physics for Scientists & Engineers/Lab	4/1	F/S	PHYS 2210/15, MATH 1220
Free Electives to total 120		2-5		
Free UD Electives to total 40		3		
<b>FOUNDATION COURSES</b>				
MATH 1050	College Algebra	4	F/S/Su	"C" in MATH 1010 or Act of 23
MATH 1060	Trigonometry	3	F/S/Su	"C" in MATH 1010 or Act of 23
EDGE 1010	Becoming an Engaged Learner	1	F/S/Su	
EDGE 30XX	Project Proposal and Planning	1	F/S/Su	EDGE 1010
EDGE 40XX	Project Reporting and Reflection	1	F/S/Su	EDGE 30XX
<b>GENERAL EDUCATION</b>				
ENGL 1010	Intro to Academic Writing	3	F/S/Su	
ENGL 2010	Intermediate Writing	3	F/S/Su	ENGL 1010 or ACT of 29+
*MATH 1210	Calculus I	4	F/S/Su	MATH 1050 & 1060
American Institution		3	F/S/Su	
LM 1010	Information Literacy	1	F/S/Su	
CSIS 1000	Intro to Computer Applications	3	F/S/Su	
FINE ARTS:		3	F/S/Su	
HUMANITIES		3	F/S/Su	
SOC SCIENCE		3	F/S/Su	
LIFE SCIENCE		4	F/S	
*PS: CHEM 1210/1215	Principles of Chemistry I/Lab	5	F/S	MATH 1050

To be considered for admission to SUU's chemistry program students must have:

- a. A cumulative GPA of at least 2.5.
- b. Completed the following, or its equivalent; with a grade of "C" (2.0) or better:
  - i. Chemical Principles series with laboratory ([CHEM 1210](#), [CHEM 1215](#), [CHEM 1220](#), [CHEM 1225](#))
  - ii. Calculus Series ([MATH 1210](#), [MATH 1220](#)).