

## ACADEMIC PROGRAM COMPLETION PLAN

Advising/Sign-off Sheet

Chemistry Teaching Major

Advisor: Tascha Knowlton, 2112 HEB, 801-585-7284, email:

[advisor@chem.utah.edu](mailto:advisor@chem.utah.edu)

Student Name: \_\_\_\_\_

Student's ID#: \_\_\_\_\_

Student's Signature: \_\_\_\_\_

Date: \_\_\_\_/\_\_\_\_/\_\_\_\_

Advisor's Signature: \_\_\_\_\_

Date: \_\_\_\_/\_\_\_\_/\_\_\_\_

To Departmental Advisor: Please indicate below which courses the above-named student has completed in fulfillment of Teaching Major/Minor requirements. **PLEASE WRITE IN AND INITIAL ALL SUBSTITUTIONS.** After signing the form, please return to the student.

### Core Requirements

	Sem	Year	Course	Grade
CHEM			CHEM1210 General Chemistry I (4) OR CHEM1211 Honors General Chemistry I (4)	
			CHEM1215 General Chemistry Laboratory I (1) OR CHEM1240 Honors General Chemistry Laboratory I (1)	
			CHEM1220 General Chemistry II (4) OR CHEM1221 Honors General Chemistry II (4)	
			CHEM1225 General Chemistry Laboratory II (1) OR CHEM1241 Honors General Chemistry Laboratory II (1)	
			CHEM2310 Organic Chemistry I (4) OR CHEM2311 Honors Organic Chemistry I (4)	
			CHEM2320 Organic Chemistry II (4) OR CHEM2321 Honors Organic Chemistry II (4)	
			CHEM2315 Organic Chemistry Laboratory I (2)	
			CHEM 2325 Organic Chemistry Lab II (2)	
			CHEM 3000 Quantitative Analysis [CW, QI] (4)	
			CHEM 3060 Quantum Chemistry [QI] (4)	
			CHEM 3100 Inorganic Chemistry (5)	
			CHEM3070 Thermodynamics and Chemical Kinetics (4)	
			<b>Complete at least 1 of the following:</b> CHEM5700 Advanced Analytical Chemistry Laboratory (2) CHEM5710 Advanced Organic Chemistry Laboratory (2) CHEM5720 Advanced Physical Chemistry Laboratory (2) CHEM5730 Advanced Inorganic Chemistry Laboratory (2) CHEM5750 Advanced Chemical Biology Laboratory (2)	
			CHEM2000 Undergraduate Seminar I (1) or CHEM4000 Undergraduate Seminar II (1)	
			<b>Complete at least 1 of the following:</b> CHEM4800 - Undergraduate Research (1 - 6) CHEM4999 - Honors Thesis/Project (3) CHEM4965 - Undergraduate Professional Chemistry Internship (1 - 4) CHEM5380 - Special Topics in Modern Chemical Education (1 - 4)	

Choose **two** of the following science courses:

SCI			ASTR1050 - The Solar System (3) ASTR1060 - The Universe (3) ASTR2060 - Popular Observational Astronomy (3) ASTR4060 - Observational Astronomy for Scientists (3) ATMOS1010 - Severe and Unusual Weather (3) ATMOS1020 - Climate Change (3) ATMOS3100 - Atmospheric Chemistry and Air Pollution (3) BIOL1620 - Fundamental Principles of Biology II: Evolution, Ecology and Physiology (4) BIOL3450 - Rain Forest Ecology and Conservation (3) BIOL3460 - Global Environmental Issues (3) GEO1110 - Introduction to Earth Systems (3) GEO1100 - Evolving Earth (3) GEO3030 - Living with Earthquakes and Volcanoes (3)	
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WRTG			WRTG3014 Writing in the Sciences (3) or HONOR 3200 Writing in a Research University (3)	
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PHYS			PHYS 2210 Physics for Scientists and Engineers I (4) OR PHYS 3210 Physics for Scientists I (4)	
			PHYS 2220 Physics for Scientists and Engineers II (4) OR PHYS 3220 Physics for Scientists II (4)	
			PHYS 2215 Physics Laboratory for Scientists and Engineers I (1) OR PHYS 2225 Physics Laboratory for Scientists and Engineers II (1)	

Math			MATH1210 Calculus I (4) OR MATH1310 Engineering Calculus I (4)	
			MATH1220 Calculus II (4) OR MATH1320 Engineering Calculus II (4) OR MATH1250 Calculus for AP Students I (4) OR  <i>Note: Math 1250 is the equivalent of taking the Math 1210, Math 1220 sequence</i>	
			MATH2210 Calculus III (3) OR MATH1260 Calculus for AP Students II (4)	

EDU			EDU 5170 Secondary Science Teaching Methods (3) OR EDU 5375 Science Teaching Methods (3)	
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**Courses for Secondary Education Licensure must be completed with a grade of “B-“ or better beginning fall 2020. Education and prerequisite courses completed prior to fall 2020 must be completed with a grade of “C” or better. Major/minor courses must be completed with a grade of “C” or better unless departmental grade requirements are higher.**

**Candidates for Secondary Education Licensure are required to maintain a 3.0 cumulative G.P.A. in all licensure coursework.**

Course Substitutions: If a course that is a requirement for the major is not available, the department reserves the right to substitute another course to fulfill that requirement. For any questions regarding Quarter to Semester course equivalencies, please see the departmental advisor. Some courses may be taken as honors, AP, or alternative (e.g., engineering calculus) versions. Please consult a DAR, the general catalog, or the departmental advisor for any questions.

**Note:** This academic completion plan **ONLY** lists those courses that are required for your **MAJOR**. It **DOES NOT** include General Education or Bachelor's Degree requirements which are also components to completing your degree. Please refer to your DAR report to make sure you are on track for these requirements. For licensure requirements, please contact the Secondary Education advisor.