

## ACADEMIC PROGRAM COMPLETION PLAN

Advising/Sign-off Sheet

**Physics Teaching Major**

Advisor: Cyri Dixon, 240 CSC, [cyri.dixon@utah.edu](mailto:cyri.dixon@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 it to the student.

### Core Requirements:

	Sem	Year	Course	Grade
Math	Calculus (Choose One of the Following Sequences):			
			MATH 1210 Calculus I (4)	MATH 1250 - Calc for AP Students I (4)
			MATH 1220 Calculus II (4)	MATH 1260 - Calc for AP Students II (4)
			MATH 2210 Calculus III (3)	
	Ordinary Differential Equations and Linear Algebra:			
			MATH 2250 Differential Equations and Linear Algebra (4)	MATH2270 Linear Algebra (4) MATH2280 Introduction to Differential Equations (4)
Chem	Chemistry (Choose One of the Following Sequences):			
			CHEM1210 Gen Chemistry I (4)	CHEM1211 Hon Gen Chem I (4)
			CHEM1215 Gen Chemistry Lab I (1)	CHEM1221 Hon Gen Chem II (4)
			CHEM1220 Gen Chemistry II (4)	CHEM1240 Hon Gen Chem Lab I (1)
Phys	Physics (Choose One of the Following Sequences):			
			PHYS3210 Phys for Scientists I (4) PHYS3220 Phys for Scientists II (4)	PHYS2210 Phys for Scientists and Engineers I (4) PHYS2220 Phys for Scientists and Engineers II (4)
			PHYS 2215 Physics Lab for Scientists and Engineers I (1)	
			PHYS2225 - Physics Laboratory for Scientists and Engineers II (1)	
			PHYS2235 - Computational Laboratory for Physicists (1)	
			PHYS1970 - Undergraduate Seminar I (1)	
			PHYS1980 - Undergraduate Seminar II (1)	
			PHYS3740 - Introduction to Quantum Theory and Relativity (3)	
			Complete at least 1 of the following: PHYS3760 - Principles of Thermodynamics and Statistical Mechanics (3) CHEM3070 - Thermodynamics and Chemical Kinetics (4)	

			PHYS4410 - Classical Physics I (4)	
			PHYS5140 - Research and Teaching in Physics Education (3)	
			ASTR3070 - Foundations of Astronomy (3)	
			Approved 5000 level Physics Elective (3-4)	
			Allied Elective Course (3-6) ATMOS1010 - Severe and Unusual Weather (3) ATMOS1020 - Climate Change (3) ATMOS5400 - The Climate System (3)	

Required Education Courses

	Sem	Year	Course	Grade
EDU			EDU 1010 Introduction to Teaching (3) or SCI 5050 The Science of Learning	
ETHNC			Ethnic Studies (Choose One): ETHNC 2550 - African American Experiences (3) ETHNC 2560 - Chicana/o Experiences (3) ETHNC 2570 - American Indian Experiences (3) ETHNC 2580 - Asian Pacific American Experiences (3) ETHNC 2590 - Pacific Islander American Experiences (3)	
ED PS			ED PS 3721 Child Dev. & Learning (3)	
			ECS 3150 Introduction to Multicultural Education (3) or SCI 3900 Being Human in STEM (3)	
EDU			EDU 5170 Secondary Science Methods (3)	

Substitutions:


Comments:


Physics majors must have a GPA of at least 2.0 in physics courses combined and at least a “C” grade in each course.

Candidates 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.

With a few additional math and physics courses, a student could obtain an applied physics degree.

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.

**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 DARS report to make sure you are on track for these requirements. For licensure requirements, please contact the Secondary Education advisor.