

University of Wyoming Sample Four-Year Degree Plan  
Catalog Year: 2018-19

## Secondary Physics Education, BA with Concurrent Major in Physics



This sample degree plan is a guide, to be used for planning in consultation with your academic advisor. Actual course sequence may vary by student. A ▲ symbol identifies courses that must be taken and passed during the suggested semester in order for a student to stay on track toward completing the degree program within four years.

Sequence	Course Prefix	Course Number	Course Title	Credit Hours	Min Grade	Notes
			USP First-Year Seminar	3	C	FY
	CHEM	1020	Chemistry I	4	C	PN
	MATH	2200	Calculus I *	4	C	Q
	ENGL	1010	College Composition and Rhetoric	3	C	C1. Honors Program can substitute HP 1020.
<b>Credit hours subtotal:</b>				<b>14</b>		

### Freshman Spring Semester

			USP US & Wyoming Constitution	3	C	V - Required for WY Substitute Teaching Permit.
	EDST	2450	Foundations of Development and Learning **	3	C	H- Prerequisite: Minimum UW GPA of 2.50.
	PHYS	1310	College Physics I ***	4	C	Can substitute PHYS 1210 (Eng Physics I).
	MATH	2205	Calculus II	4	C	
<b>Credit hours subtotal:</b>				<b>14</b>		

### Sophomore Fall Semester

	COSC	1010	Introduction to Computer Science I	4	C	Can substitute COSC 1030 (Computer Science I)
	EDST	2480	Diversity and the Politics of Schooling	4	C	H - Must meet all prerequisites for Phase I. #
	MATH	2210	Calculus III	4	C	
	PHYS	1320	College Physics II ****	4	C	Can substitute PHYS 1220 (Eng Physics II)
<b>Credit hours subtotal:</b>				<b>16</b>		

### Sophomore Spring Semester

	ASTR	1050	Survey of Astronomy	4	C	Can substitute ASTR 1000 (Descriptive Astronomy).
	ITEC	2360	Teaching with Technology **	3	C	Prerequisite of a 2.5 cumulative UW gpa.
	PHYS	2320	Physics IV: Modern Physics	3	C	
	PHYS	2310	Physics III: Wave & Optics	4	C	Prerequisite: PHYS 1220 or 1320
			Elective	3	C	Toward min. of 120 total credits required for graduation
<b>Credit hours subtotal:</b>				<b>17</b>		

This is a guide for course work in the major; actual course sequence may vary by student. Please refer to the online student degree evaluation, and consult with an academic advisor. • Not all courses are offered every semester and some electives may have prerequisites. Students should review the course descriptions in the University Catalog and consult with their academic advisor to plan accordingly.

#### University of Wyoming requirements:

Students must have a minimum cumulative GPA of 2.0 to graduate. • Students must complete 42 hours of upper division (3000-level or above) coursework, 30 of which must be from the University of Wyoming. • Courses must be taken for a letter grade unless offered only for S/U. • University Studies Program (USP) Human Culture (H) and Physical & Natural World (PN) courses must be taken outside of the major subject, but can be cross-listed with the major.

#### College of Education requirements:

The College of Education maintains rigorous admission standards to ensure the quality of preparation for future educators. This plan assumes students are able to start taking 1000-level courses the first semester of college. All professional education courses and all major content courses must be completed with a grade of C or higher. A minimum 2.50 gpa is required in major content. Current UW students wishing to change their major, students seeking re-admission to UW, or those transferring to UW from another institution can learn more about the specific admission requirements for these groups at: <http://www.uwyo.edu/ste/teacher-preparation-and-advising-office/admission%20requirements.html>. All students must undergo and pass an initial criminal background check prior to full admission to the College of Education. Any costs associated with the background check are the responsibility of the student. A second background check is included as part of the state application process for the Wyoming Substitute Teaching Permit, which is required for admission to Phase II of UW's teacher education program. Criminal background checks are a standard for the profession.

Notes continued on next page(s).

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Sequence	Course Prefix	Course Number	Course Title	Credit Hours	Min Grade	Notes
<b>Junior Fall Semester</b>						
	EDEX	2484	Introduction to Special Education	3	C	Admission to Phase I of the program required. #
	MATH	2310	Applied Differential Equations I	3	C	
	LIFE	1010	General Biology	4	C	PN
	PHYS	4410	Electricity and Magnetism I	3	C	
			Physics Elective (2000-level or above) ****	3	C	
<b>Credit hours subtotal:</b>				<b>16</b>		

<b>Junior Spring Semester</b>						
	EDST	3000	Teacher as Practitioner	6	C	C2. Admission to Phase II required. #
	EDST	3550	Educational Assessment	2	C	Prerequisites: EDST 2480; USP Q; 2.75 UW cumulative GPA.
	PHYS	4210	Classical Mechanics I	3	C	
			Upper Division Physics Elective	3	C	
<b>Credit hours subtotal:</b>				<b>14</b>		

<b>Senior Fall Semester</b>						
▲	EDSE	3275	Methods I: Secondary Biology Education	3	C	Admission to Phase IIIa of the program required. #
▲	EDSE	4275	Methods II: Secondary Biology Education	4	C	C3; Admission to Phase IIIa of the program required. #
	PHYS	4310	Quantum Mechanics	3	C	Can substitute ASTR 4610 (Intro to Astrophysics).
	PHYS	4510	Thermodynamics and Statistical Mechanics	3	C	
			Elective	3	C	Toward min. of 120 total credits required for graduation
<b>Credit hours subtotal:</b>				<b>10</b>		

<b>Senior Spring Semester</b>						
▲	EDEL	4500	Residency in Teaching	15	S	Offered spring semester only. Admission to Phase IIIb of the program required. #
<b>Credit hours subtotal:</b>				<b>15</b>		

**TOTAL CREDIT HOURS    116**

### College of Education requirements continued:

# Bachelors degrees in the College of Education operate in a series of phases: Phase I, Phase II, Phase IIIa, and Phase IIIb. Continuation in the program in any content area is dependent upon the successful completion of prerequisites for each phase. A minimum 2.75 cumulative UW gpa is required for Phase II, and Phases IIIa/IIIb of the program, and to meet College of Education graduation requirements. Specific information about these requirements can be found on the program sheets for each content area that are located at: <http://www.uwyo.edu/ste/teacher-preparation-and-advising-office/majors-and-program-sheets/>.

**Concurrent Majors:** All Secondary Education degree programs in the College of Education include a concurrent major in the student's content area.

### Secondary Physics Education with Concurrent Major in Physics Program notes:

\* Requires MATH ACT  $\geq$  27, MATH SAT  $\geq$  600, Math Placement Exam  $\geq$  5, or  $\geq$  C in MATH 1405 or 1450.

\*\* The course prerequisite of a 2.5 cumulative UW gpa is waived for new, incoming freshman having declared Education as their major.

\*\*\* For declared physics majors, the prerequisite of Math 2200 is waived and concurrent enrollment is approved.

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