Secondary Mathematics Education, BA
with Concurrent Major in Mathematics

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
Freshman Fall Semester						
			USP First-Year Seminar	3	C	FY
			USP US & Wyoming Constitution	3	C	V - Required for WY Substitute Teaching Permit.
	ENGL	1010	College Composition and Rhetoric	3	C	C1. Honors Program can substitute HP 1020.
	ITEC	2360	Teaching with Technology *	3	C	
	MATH	2200	Calculus I **	4	C	Q
			Credit hours subtotal:	**16**		
Freshman Spring Semester						
			USP Physical & Natural World	3	D	PN
	EDST	2450	Foundations of Development and Learning *	3	C	H- Prerequisite: Minimum UW GPA of 2.50.
	MATH	2205	Calculus II	4	C	
			Elective (if necessary)	3	C	Elective course toward 120 (min.) credits required for graduation.
			Statistics Course	4	C	Recommended: STAT 2050 or STAT 2070.
			Credit hours subtotal:	**17**		
Sophomore Fall Semester						
	EDEX	2484	Introduction to Special Education	3	C	Prerequisites: EDST 2450 and 2.50 UW GPA
			Elective (if necessary)	3	C	Elective course toward 120 (min.) creidts required for graduation.
	MATH	2210	Calculus III	4	C	
	MATH	2250	Linear Algebra	3	C	
	MATH	2800	Math Major Seminar	2	C	Offered S/U grading only.
			Credit hours subtotal:	**15**		
Sophomore Spring Semester						
	EDST	2480	Diversity and the Politics of Schooling	4	C	H - Must meet all prerequisites for Phase I. #
			Elective (if necessary)	3	C	Elective course toward 120 (min.) credits required for graduation.
	MATH	2310	Applied Differential Equations	3	C	
	MATH	3500	Algebra I, Intro to Rings & Proofs ***	3	C	
	MATH	3340	Applied 1, Intro to Scientific Computing***	3	C	
			Credit hours subtotal:	**16**		

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.

Notes continued on next page(s).

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Sequence	Course Prefix	Course Number	Course Title	Credit Hours	Min Grade	Notes
Junior Fall Semester						
	EDST	3550	Educational Assessment	2	C	Prerequisites: EDST 2480; USP Q; 2.75 UW cumulative GPA.
			Breadth Elective	3	C	Consult with your academic advisor regarding options.
			Depth Sequence course 1 of 2 ****	3	C	
			USP Physical & Natural World	3	D	PN
	MATH	3205	Analysis 1, Elementary Real Analysis***	3	C	
			Credit hours subtotal:	**14**		
Junior Spring Semester						
	EDST	3000	Teacher as Practitioner	6	C	C2. Admission to Phase II required. #
	MATH	4000	History of Mathematics	3	C	
			Upper Division Elective (if necessary)	3	C	Elective course toward 120 (min.) credits required for graduation.
			Depth Sequence course 2 of 2 ****	3	C	
			Credit hours subtotal:	**15**		
Senior Fall Semester						
▲	EDSE	3271	Methods I: Secondary Mathematics Education	3	C	Offered fall semester only. Admission to Phase IIIa of the program required. #
▲	EDSE	4271	Methods II: Secondary Mathematics Education	4	C	C3 - Offered fall semester only. Admission to Phase IIIa of the program required. #
▲	MATH	4150	Secondary School on Campus	3	C	Concurrent enrollment in EDSE 4271 required.
	MATH	4600	Foundations of Geometry	3	C	
			Credit hours subtotal:	**13**		
Senior Spring Semester						
▲	EDSE	4500	Residency in Teaching	15	S	Offered spring semester only. Admission to Phase IIIb of the program required. #
			Credit hours subtotal:	**15**		
			TOTAL CREDIT HOURS	**121**		

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.

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.

Notes continued on next page(s).

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Secondary Mathematics Education with Concurrent Major in Mathematics Program notes:

***** The course prerequisite of a 2.50 cumulative UW gpa is waived for new, incoming students who have declared education as their major for their first semester only.

****** Requires MATH ACT > 27, MATH SAT > 640, Math Placement Exam > 5, or > C in MATH 1405 or 1450

******* Transition courses introduce students to the three (3) main areas of mathematical research in the department. The first of the three (3) upper division transitions courses should be taken within the first four (4) semesters to enable the depth sequence (description follows) to be completed by the end of the junior year. To fulfill this requirement, mathematics majors must take:

- MATH 3205 Elementary Real Analysis
- MATH 3340 Introduction to Scientific Computing
- MATH 3500 Algebra I: Introduction to Rings and Proofs

******** For depth sequence courses, a mathematics major must select one (1) two-course sequence that builds on one (1) of the transition courses. This sequence gives the student an opportunity to study one of these areas in greater depth. The two-course sequences are:

- MATH 4200 (Analysis 2: Advanced Analysis) and MATH 4205 (Analysis 3: Undergraduate Topics in Analysis)
- MATH 4340 (Numerical Methods for Ordinary and Partial Differential Equations) and MATH 4440 (Introduction to Partial Differential Equations)
- MATH 4510 (Algebra II: Introduction to Group Theory) and MATH 4520 (Algebra III: Topics in Abstract Algebra)

Revised: 5/2019