

MATHEMATICS B.A.

Secondary Education Option



University of Colorado
Colorado Springs

ACADEMIC ADVISING

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GENERAL ACADEMIC INFORMATION

Minimum Graduation Requirements

- 120 credit hours
- 45 upper-division credit hours (3000-4999 level)
- 2.0 CU cumulative GPA
- Residency: At least 30 credit hours of the degree must be completed while registered in the College of Letters, Arts, and Sciences at UCCS.

Student Responsibilities

Students are required to know and follow:

- All academic policies set forth by the University, College, and academic department in the UCCS Catalog: catalog.uccs.edu
- All course prerequisites designated by the University. Failure to meet course prerequisites may result in an administrative drop of the course from a student's schedule. See degree audit for course prerequisites within the academic major.

DEGREE REQUIREMENTS

Explore Mathematics: [Department of Mathematics \(uccs.edu\)](http://www.uccs.edu/math)

Major Requirements			
Mathematics Major (BA) - Secondary Education (45 hours) • Requires a minimum of 45 credit hours of MATH course work. • Requires a minimum of 27 credit hours of upper-division (3000+ level) MATH course work. • All MATH courses must be completed with a grade of "C" or better.	Course/Area	Course Title	Credit Hours
	Core Courses - Complete all Core Courses listed below for a total of 30 credit hours		
	MATH 1350	Calculus I	4
	MATH 1360	Calculus II	4
	MATH 2150	Discrete Mathematics	3
	MATH 2350	Calculus III	4
	MATH 2650	Introduction to Computational Mathematics (<i>spring only</i>)	3
	MATH 3110	Theory of Numbers	3
	MATH 3130	Introduction to Linear Algebra	3
	MATH 3400	Introduction to Differential Equations	3
	MATH 3410	Introduction to Analysis	3
	MATH 3810	Introduction to Probability & Statistics	3
	Secondary Education Track Courses - Complete all Track Courses below for a total of 12 credit hours		
	MATH 3010	Mathematics for Elementary Teachers I	3
	MATH 3020	Mathematics for Elementary Teachers II	3
	MATH 3210	Introduction to Geometry (<i>fall only</i>)	3
	Electives		
	MATH Electives	Complete 3 additional hours of MATH courses numbered 4130 or higher	3
Secondary Education - STEM Courses (37 hours) • Requires a minimum of 37 credit hours of required Education course work with grades of "B-" or better. *NOTE: UTED 1030 should be the first Education course taken in the sequence.	Education Core Courses		
	UTED 1030*	Inquiry Approaches/Lesson Plan Design for Secondary Math/Science Teaching	3
	EDUC 1000	Intro to Inclusive Education	3
	EDUC 2000	Intro to Educational Psychology	3
	EDUC 2700	Schools, Society, & Diversity	3
	EDUC 3800	ESL for Educators	3
	UTED 3020	Classroom Interactions	3
	UTED 4710	Project-Based Instruction	4
	UTED 4720	Reading in the Content Area	3
	EDUC 4950	Secondary – Student Teaching	12

General Education and Elective Requirements

Core Writing Requirement (6 hours)	- ENGL 1310, 1308, or 1305 (<i>Students choosing ENGL 1305 must complete ENGL 1300 first.</i>) - ENGL 1410 - Writing Portfolio – PORT 3000 (0 credits) or PORT 4000 (1 credit) or alternative – See Degree Audit		
Reasoning Skills	- MATH 1350 (included in major requirements) - MATH 3810 (included in major requirements)		
Core Humanities (3 hours)	- HUM 3990 - This course also fulfills Navigate and one Writing Intensive course.		
Natural Sciences Lab (1 hour)	- See Degree Audit - This can be taken as part of an Explore – PNW course that has a lab component		
Oral Communication	EDUC 4950 (<i>Secondary – Student Teaching</i>)		
LAS Language other than English Requirement	Complete two semesters of a language other than English equivalent to 1010 & 1020 with high school, transfer, placement exam, or UCCS coursework. <i>Courses taken to fulfill this requirement may also count toward Compass Curriculum Explore - Arts, Humanities and Cultures or general electives. See degree audit for details.</i>		
Compass Curriculum (18 hours) - Explore and Navigate courses must be taken in departments other than the major. - Writing Intensive, Inclusiveness, and Sustainability courses may count toward other requirements within the degree.	Component		Course
	Gateway Program Seminar		GPS 1010
	Explore – Arts, Humanities and Cultures (2 courses)		See Degree Audit
	Explore – Society, Behavior and Health (2 courses)		- UTED 1030 (included in Secondary Education reqs.) - See Degree Audit
	Explore – Physical and Natural World (2 courses)		See Degree Audit
	Navigate		HUM 3990 (included in LAS gen ed requirements)
	Summit		EDUC 4950 (included in Secondary Education reqs.)
	Writing Intensive Courses (WIC) (2 courses)		- HUM 3990 (included in LAS gen ed requirements) - UTED 4720 (included in Secondary Education reqs.)
	Inclusiveness (2 courses: 1 Global and 1 Local)		See Degree Audit
	Sustainability		See Degree Audit
General Electives (10 hours)	Complete additional courses to meet total and upper-division requirements for your degree program.		

FOUR-YEAR DEGREE PLAN

Please note that this is an *example* degree program and your program may vary. **Students are responsible for completing all course prerequisites.**

Year One	✓	FALL	Hours	✓	SPRING	Hours
		ENGL 1310	3		ENGL 1410	3
		MATH 1350	4		MATH 1360	4
		UTED 1030	3		EDUC 2000	3
		GPS 1010	3		Explore – Society, Behavior and Health Course	3
		Explore – Arts, Humanities & Cultures Course	3		Explore – Physical & Natural World Course	3
		TOTAL	16		TOTAL	16

Year Two	✓	FALL	Hours	✓	SPRING	Hours
		MATH 2150	4		MATH 2650 (<i>spring only</i>)	3
		MATH 2350	3		MATH 3110	3
		EDUC 1000	3		MATH 3810	3
		EDUC 2700	3		Explore – Physical & Natural World Course	3
		Explore – Arts, Humanities & Cultures Course	3		Natural Science Lab	1
					General Elective	1
		TOTAL	16		TOTAL	14

Year Three	✓	FALL	Hours	✓	SPRING	Hours
		MATH 3010	3		MATH 3020	3
		MATH 3130	3		MATH 3400	3
		MATH 3210	3		MATH 3410	3
		EDUC 3800	3		UTED 3020	3
		General Elective (<i>Inclusiveness</i>)	3		UTED 4720	3
		TOTAL	15		TOTAL	15

Year Four	✓	FALL	Hours	✓	SPRING	Hours
		MATH 4000-level Elective (<i>4130 or above</i>)	3		EDUC 4950	12
		UTED 4710	4			
		HUM 3990	3			
		General Elective (<i>Sustainability</i>)	3			
		General Elective (<i>Inclusiveness</i>)	3			
		TOTAL	16		TOTAL	12

NOTE: Students must complete all course requirements other than UTED 4730 before the final semester.