## **MATHEMATICS B.A.**

**Secondary Education Option** 



## **ACADEMIC ADVISING**

Partnering with students to successfully navigate college

Location:Main Hall 208Phone:719.255.3260Website:Academic Advising

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**Current UCCS Students** 

• Appointments: <a href="https://www.uccs.edu/advising/current-students">www.uccs.edu/advising/current-students</a>
Prospective Students: <a href="https://www.uccs.edu/admissions/contact">www.uccs.edu/admissions/contact</a>

## **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: <u>catalog.uccs.edu</u>
- 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: <u>Department of Mathematics (uccs.edu)</u>

		Major Requirements						
Mathematics Major (BA) -	Course/Area	Course Title	Credit Hours					
Secondary Education	Core Courses - Complete all Core Courses listed below for a total of 30 credit hours							
(45 hours)	MATH 1350	Calculus I	4					
Postuires a minimum of 45 gradit	MATH 1360	Calculus II	4					
<ul> <li>Requires a minimum of 45 credit hours of MATH course work.</li> </ul>	MATH 2150	Discrete Mathematics	3					
Hours of MATTI course work.	MATH 2350	Calculus III	4					
Requires a minimum of 27 credit	MATH 3110	Theory of Numbers	3					
hours of upper-division (3000+ level)	MATH 3130	Introduction to Linear Algebra	3					
MATH course work.	MATH 3400	Introduction to Differential Equations	3					
	MATH 3410	Introduction to Analysis	3					
All MATH courses must be	MATH 3810	Introduction to Probability & Statistics	3					
completed with a grade of "C" or better.	Secondary Education Track Courses - Complete all Track Courses below for a total of 12 credit hours							
better.	MATH 2650	Introduction to Computational Mathematics (fall only)	3					
	MATH 3010	Mathematics for Elementary Teachers I	3					
	MATH 3020	Mathematics for Elementary Teachers II	3					
	MATH 3210	Introduction to Geometry	3					
	Electives							
	MATH Electives	Complete 3 additional hours of MATH courses numbered 4130 or higher	3					
UCCS Teach Courses	EDUC 1000	Intro to Inclusive Education	3					
(37 hours)	EDUC 2000	Intro to Educational Psychology	3					
A sunda of "D " on botton mount be sound	EDUC 2700	Schools, Society, & Diversity	3					
A grade of "B-" or better must be earned in all UCCS Teach courses.	EDUC 3800	ESL for Educators	3					
in all occs reach courses.	EDUC 3994	Intro to Professional Year	1					
Courses should be taken in the	UTED 1030	Inquiry Approaches/Lesson Plan Design for Secondary Math/Science Teaching	3					
appropriate semester. See the four-year	UTED 3020	Classroom Interactions (spring only)	3					
plan for details.	UTED 4710	Project-Based Instruction	3					
	UTED 4720	Reading in the Content Area	3					
	UTED 4730	Apprentice Teaching UCCS Teach and Seminar	12					

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G	eneral Education and Elective Re	equirements				
Core Writing Requirement (6 hours)  Reasoning Skills  Core Humanities	<ul> <li>ENGL 1310, 1308, or 1305 (Students choosing ENGL 1410)</li> <li>Writing Portfolio – PORT 3000 (0 credits) or PORT</li> <li>MATH 1350 (included in major requirements)</li> <li>MATH 3810 (included in major requirements)</li> <li>HUM 3990</li> </ul>	GL 1305 must complete ENGL 1300 first.)  4000 (1 credit) <b>or</b> alternative – See Degree Audit				
(3 hours)	<ul> <li>This course also fulfills Navigate and or</li> </ul>	ne Writing Intensive course.				
Natural Sciences Lab (1 hour)  Oral Communication	<ul> <li>See Degree Audit         <ul> <li>This can be taken as part of an Explore</li> </ul> </li> <li>UTED 4730 (Apprentice Teaching)</li> </ul>	e – PNW course that has a lab component				
LAS Language other than English Requirement	Complete two semesters of a language other than English equivalent to 1010 & 1020 with high school placement exam, or UCCS coursework. Courses taken to fulfill this requirement may also count toward Curriculum Explore - Arts, Humanities and Cultures or general electives. See degree audit for details.					
Compass Curriculum	Component	Course				
(18 hours)	Gateway Program Seminar	GPS 1010				
<ul> <li>Explore and Navigate courses must be taken in departments other than the major.</li> </ul>	Explore – Arts, Humanities and Cultures (2 courses)  Explore – Society, Behavior and Health (2 courses)	See Degree Audit     UTED 1030 (included in UCCS Teach requirements)     See Degree Audit				
Writing Intensive, Inclusiveness, and	Explore – Physical and Natural World (2 courses)	See Degree Audit				
Sustainability courses may count	Navigate	HUM 3990 (included in LAS gen ed requirements)				
toward other requirements within the	Summit	UTED 4730 (included in UCCS Teach requirements)				
degree.	Writing Intensive Courses (WIC) (2 courses)	HUM 3990 (included in LAS gen ed requirements)     UTED 4720 (included in UCCS Teach requirements)				
	Inclusiveness (2 courses)	See Degree Audit				
	Sustainability	See Degree Audit				
General Electives (10 hours)	Complete additional courses to meet total and upper-d	livision 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.

ne	J	FALL	Hours	1	SPRING	Hours
		ENGL 1310	3		ENGL 1410	3
		MATH 1350	4		MATH 1360	4
ō		UTED 1030	3		EDUC 2000	3
Yea		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
	,			,	CDD. III	

	1	FALL	Hours	1	SPRING	Hours
		MATH 2150	4		MATH 3110	3
9		MATH 2350	3		MATH 3810	3
≥		MATH 2650 (fall only)	3		EDUC 2700	3
Year		EDUC 1000	3		Explore – Physical & Natural World Course	3
		Explore – Arts, Humanities & Cultures Course	3		Natural Science Lab	1
					General Elective	1
		TOTAL	16		TOTAL	14

	1	FALL	Hours	1	SPRING	Hours
		MATH 3010	3		MATH 3020	3
ree		MATH 3130	3		MATH 3400	3
Year Th		MATH 3210	3		MATH 3410	3
		EDUC 3800	3		EDUC 3994	1
		General Elective (Inclusiveness)	3		UTED 3020 (spring only)	3
					UTED 4710	3
		TOTAL	15		TOTAL	16

	J	FALL	Hours	1	SPRING	Hours
_		MATH 4000-level Elective (4130 or above)	3		UTED 4730	12
6		UTED 4720	3			
T.		HUM 3990	3			
ea		General Elective (Sustainability)	3			
>		General Elective (Inclusiveness)	3			
		TOTAL	15		TOTAL	12

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