MATHEMATICS B.S.
Secondary Education Option

UCCS | University of Colorado Colorado Springs

ACADEMIC ADVISING

Partnering with students to successfully navigate college
Location: Main Hall 208
Phone: 719.255.3260
Website: Academic Advising

Connect With Your Advisor
Current UCCS Students
- Appointments: www.uccs.edu/advising/current-students

Prospective Students: www.uccs.edu/admissions/contact

GENERAL ACADEMIC INFORMATION

Minimum Graduation Requirements
- 120 credit hours
- 45 upper-division credit hours (3000-4999 level)
- 2.0 CU cumulative GPA
- Residency: Last 30 credit hours of 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: B.S. Program | Department of Mathematics (uccs.edu)

Major Requirements

MATH Major (BS)	Course/Area	Course Title	Credit Hours
(45 hours) The BS in MATHEMATICS major requires a minimum of 45 credit hours of MATH course work and a minimum of 31 credit hours of upper-division (3000+ level) MATH course work. All MATH courses must have a grade of "C" or better.	MATH 1350	Calculus I	4
	MATH 1360	Calculus II	4
	MATH 2150	Discrete Mathematics	3
	MATH 2350	Calculus III	4
	MATH 3110	Theory of Numbers	3
	MATH 3130	Introduction to Linear Algebra	3
	MATH 3210	Introduction to Geometry	3
	MATH 3400	Introduction to Differential Equations	3
	MATH 3410	Introduction to Analysis	3
	MATH 3480 **OR** UTLS 3480	Functions and Modeling Functions and Modeling	3
	MATH 3810	Introduction to Probability & Statistics	3
	MATH 4140 **OR** MATH 4310	Modern Algebra Modern Analysis I	3
	MATH Electives	*Complete 6 additional hours of MATH courses numbered 4000 or higher*	6
UCCS Teach Courses **(30 hours)** - A grade of "B-" or better must be earned in all Education courses. - Courses should be taken in the appropriate semester. See the four-year plan for details.	UTED 1030	Inquiry Approaches/Lesson Plan Design for Secondary Math/Science Teaching	3
	UTED 2010	Knowing and Learning in Mathematics and Science	3
	UTED 3020	Classroom Interactions	3
	UTED 4710	Project-Based Instruction	3
	UTED 4720	Reading in the Content Area	3
	UTED 4730	Apprentice Teaching UCCS Teach and Seminar	12
	UTLS 3030	Perspectives on Science and Math	3

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General Education and Elective Requirements

Core Writing Requirement (6 hours)	• ENGL 1310, 1308, or 1305 *(Students choosing ENGL 1305 must complete ENGL 1300 first.)* • ENGL 1410 • PORT 3000 (0 Credits) – Writing Portfolio
Reasoning Skills	Included in Major requirements
Area Requirements (27 hours) • Maximum 2 courses from any one discipline may be applied to the area requirements • Courses may not be taken pass/fail	• Humanities – 9 credit hours of which 3 credits must be HUM3990. • Social Sciences – 9 credit hours • Natural Sciences – 9 credits hours, of which at least 1 credit must be from a lab course **NOTE:** Cannot select courses from primary major courses for area requirements.
Oral Communication, Cultural Diversity, and Global Awareness Requirements	One course from each list (see degree audit). *All courses that fulfill these requirements may also count towards other general education or major requirements.*

Compass Curriculum (9 hours) • Explore and Navigate courses must be outside major and area requirements • Writing Intensive, Inclusiveness, and Sustainability courses can count towards other requirements within degree	Component	Course
	Gateway	GPS 1010
	Explore – Arts, Humanities and Cultures	See Degree Audit
	Explore – Society, Behavior and Health	UTED 1030
	Explore – Physical and Natural World	See Degree Audit
	Navigate	HUM 3990 (included in LAS area requirements)
	Summit	UTED 4730 (included in Education requirements)
	Writing Intensive Courses (WIC) *Two courses with one upper-division (3000+ level)*	• HUM 3990 (included in LAS area requirements) • See Degree Audit
	Inclusiveness	See Degree Audit
	Sustainability	See Degree Audit

General Electives (3 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
	GPS 1010	3		Social Science Elective (*Global Awareness/Inclusiveness*)	3
	Explore – Arts, Humanities & Cultures Course	3		UTED 1030	3
	General Elective	3		Explore – Physical & Natural World Course	3
	TOTAL	16		**TOTAL**	16

Year Two

√	FALL	Hours	√	SPRING	Hours
	MATH 2350	4		MATH 3810	3
	MATH 2150	3		MATH 3110 (Spring Only)	3
	UTED 2010	3		UTED 3020	3
	Humanities Elective	3		Humanities Elective	3
	Social Science Elective (*Cultural Diversity*)	3		Natural Science Elective	4
	TOTAL	16		**TOTAL**	16

Year Three

√	FALL	Hours	√	SPRING	Hours
	MATH 3130	3		MATH 3400	3
	MATH 3210	3		MATH 3410 (Spring Only)	3
	MATH 3480 or UTLS 3480 (Fall Only)	3		MATH 4000 Elective	3
	UTED 4720 (Fall Only)	3		UTLS 3030 (Spring Only)	3
	Natural Science Elective w/ Lab	5		Social Science Elective (*Sustainability*)	3
	TOTAL	17		**TOTAL**	15

Year Four

√	FALL	Hours	√	SPRING	Hours
	MATH 4140 or 4310 (Fall Only)	3		UTED 4730	12
	MATH 4000 Elective	3			
	HUM 3990	3			
	UTED 4710	3			
	TOTAL	12		**TOTAL**	12

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