

ACADEMIC ADVISING

Partnering with students to successfully navigate college

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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: [B.S. Program](http://www.uccs.edu/math) | [Department of Mathematics \(uccs.edu\)](http://www.uccs.edu/math)

Major Requirements						
Mathematics Major (BS) (49 hours)	Course/Area	Course Title			Credit Hours	
<ul style="list-style-type: none"> • Requires a minimum of 49 credit hours of course work for all options. • All options require 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 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	Intro to Probability & Statistics			3	
	MATH 4040	Senior Seminar (<i>spring only</i>)			1	
	Required Option					
	All BS Mathematics Majors must select one of the Options below.					
	Applied Mathematics Option*			Statistics Option		
MATH 4310	Modern Analysis I (<i>fall only</i>)	3	MATH 4810	Mathematical Statistics I (<i>fall only</i>)	3	
MATH 4470	Methods of Applied Mathematics (<i>spring only</i>)	3	MATH 4820	Mathematical Statistics II (<i>spring only</i>)	3	
MATH 4650	Numerical Analysis (<i>fall only</i>)	3	MATH 4850	Stochastic Modeling (<i>spring only</i>)	3	
Math Electives	Complete 6 additional hours of MATH 4000+.	6	Math Electives	Complete 6 additional hours of MATH 4000+.	6	
Flexible Option			Pure Mathematics Option			
Directed Elective	Choose one: MATH 4130 (<i>fall only</i>) MATH 4140 (<i>spring only</i>) MATH 4310 (<i>fall only</i>)	3	MATH 4140	Modern Algebra I (<i>spring only</i>)	3	
Math Electives	Complete 12 additional hours of MATH 4000+.	12	MATH 4310	Modern Analysis I (<i>fall only</i>)	3	
			Math Electives	Complete 9 additional hours of MATH 4000+.	9	

Option Course Recommendations:
See the degree audit for recommended elective courses based on post-graduate goals.

***NOTE:** The Applied Math option requires completion of CS 1120 and PES 1110, 1120, and 1160.

General Education and Elective Requirements

Core Writing Requirement (6 hours)	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> MATH 1350 (included in major requirements) MATH 3810 (included in major requirements) 	
Core Humanities (3 hours)	<ul style="list-style-type: none"> HUM 3990 <ul style="list-style-type: none"> This course also fulfills Navigate and one Writing Intensive course. 	
Natural Sciences Lab (1 hour)	<ul style="list-style-type: none"> See Degree Audit <ul style="list-style-type: none"> This can be taken as part of an Explore – PNW course that has a lab component 	
Oral Communication	<ul style="list-style-type: none"> MATH 4040 (included in major requirements) 	
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 (21 hours) <ul style="list-style-type: none"> 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)	See Degree Audit
	Explore – Physical and Natural World (2 courses)	See Degree Audit
	Navigate	HUM 3990 (included in LAS gen ed requirements)
	Summit	MATH 4040 (included in major requirements)
	Writing Intensive Courses (WIC) (2 courses) <i>Must include one upper-division (3000+ level)</i>	<ul style="list-style-type: none"> HUM 3990 (included in LAS gen ed requirements) See Degree Audit
Inclusiveness (2 courses: 1 Global and 1 Local)	See Degree Audit	
Sustainability	See Degree Audit	
NOTE: Applied Mathematics Option Additional Required Courses	Complete CS 1120 and PES 1110, 1120, and 1160. <ul style="list-style-type: none"> The CS and PES courses will fulfill General Elective hours in the 4-Year Degree Plan below, except for PES 1160 which will complete the Natural Science Lab for this Option. 	
General Electives (40-43 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
		MATH 1350	4		MATH 1360	4
		GPS 1010	3		Explore - Physical & Natural World Course	3
		Explore – Arts, Humanities & Cultures Course	3		Explore – Society, Behavior & Health Course	3
		General Elective	3		General Elective	3
		TOTAL	16		TOTAL	16

Year Two	✓	FALL	Hours	✓	SPRING	Hours
			MATH 2150	3		MATH 2650 (<i>spring only</i>)
		MATH 2350	4		MATH 3400	3
		Explore – Arts, Humanities & Cultures Course	3		MATH 3110	3
		Explore – Society, Behavior & Health Course	3		General Elective (<i>Inclusiveness</i>)	3
		General Elective (<i>Writing Intensive</i>)	3		General Elective	4
		TOTAL	16		TOTAL	16

Year Three	✓	FALL	Hours	✓	SPRING	Hours
			MATH 3130	3		MATH 3410
		MATH 3810	3		MATH Option Course	3
		HUM 3990	3		MATH Option Course	3
		Explore - Physical & Natural World Course	3		General Elective	3
		Natural Science Lab	1		General Elective	3
		TOTAL	13		TOTAL	15

Year Four	✓	FALL	Hours	✓	SPRING	Hours
			MATH Option Course	3		MATH 4040 (<i>spring only</i>)
		MATH Option Course	3		General Elective	3
		MATH Option Course	3		Upper Division (UD) General Elective	3
		General Elective	3		UD General Elective	3
		General Elective (<i>Inclusiveness</i>)	3		UD General Elective (<i>Sustainability</i>)	3
		TOTAL	15		TOTAL	13