

ACADEMIC ADVISING

Partnering with students to successfully navigate college

Location: Main Hall 208

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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: 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](https://www.uccs.edu/math) | [Department of Mathematics \(uccs.edu\)](https://www.uccs.edu/math)

Major Requirements						
MATH Major (BS) (46 hours) The BS in MATHEMATICS major in the Statistics, Flexible, and Pure options require a minimum of 46 credit hours of MATH course work and the Applied Mathematics option requires a minimum of 49 credit hours of MATH course work.	Course/Area	Course Title				Credit Hours
	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 3400	Introduction to Differential Equations				3
	MATH 3410	Introduction to Analysis				3
	MATH 3810	Intro to Probability & Statistics				3
	MATH 4040	Senior Seminar				1
	 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. Option Course Recommendations: See the degree audit for recommended elective courses based on post-graduate goals. ¹NOTE: The Applied Math option requires completion of CS 1120 and PES 1110, 1120, and 1160.	Required Option				
All BS Mathematics Majors must select one of the Options below.						
Applied Mathematics Option¹			Statistics Option			
MATH 2650		Introduction to Computational Mathematics	3	MATH 4810	Mathematical Statistics I	3
MATH 4310		Modern Analysis I	3	MATH 4820	Mathematical Statistics II	3
MATH 4470		Methods of Applied Mathematics	3	MATH 4850	Stochastic Modeling	3
MATH 4650		Numerical Analysis	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, 4140, 4310	3	MATH 4140	Modern Algebra I	3
Math Electives		Complete 12 additional hours of MATH 4000+.	12	MATH 4310	Modern Analysis I	3
				Math Electives	Complete 9 additional hours of MATH 4000+.	9

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 PORT 3000 (0 Credits) – Writing Portfolio 	
Reasoning Skills	<ul style="list-style-type: none"> MATH 1350 (included in major requirements) MATH 3810 (included in major requirements) 	
Area Requirements (27 hours) <ul style="list-style-type: none"> Maximum 2 courses from any one discipline may be applied to the area requirements 	<ul style="list-style-type: none"> Humanities – 9 credit hours of which 3 credits must be HUM 3990. Social Sciences – 9 credit hours Natural Sciences – 9 credits hours of which at least 1 credit must be from a lab course; students pursuing the Applied Mathematics Option should take PES 1110, 1120, and 1160 to fulfill this requirement. <p>NOTE: Cannot select courses from primary major courses for area requirements.</p>	
Oral Communication, Cultural Diversity, and Global Awareness Requirements	One course from each list (see degree audit). <i>All courses that fulfill these requirements may also count towards other general education or major requirements.</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 (12 hours) <ul style="list-style-type: none"> 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	See Degree Audit
	Explore – Physical and Natural World	See Degree Audit
	Navigate	HUM 3990 (included in LAS area requirements)
	Summit	MATH 4040 (included in major requirements)
	Writing Intensive Courses (WIC) <i>Two courses with one upper-division (3000+ level)</i>	<ul style="list-style-type: none"> HUM 3990 (included in LAS area requirements) See Degree Audit
NOTE: Applied Mathematics Option Computer Science Sequence	Inclusiveness	See Degree Audit
	Sustainability	See Degree Audit
General Electives (23-29 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		Humanities Elective	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 3400	3
		MATH 2350	4		MATH 3110 (Spring Only)	3
		Explore - Physical & Natural World Course	3		Natural Science Elective w/ Lab	4
		Humanities Elective (<i>Writing Intensive</i>)	3		Social Science Elective (<i>Global Awareness</i>)	3
		General Elective	3		General Elective	4
		TOTAL	16		TOTAL	17

Year Three	✓	FALL	Hours	✓	SPRING	Hours
		MATH 3130	3		MATH 3410	3
		MATH 3810	3		MATH Option Course	3
		Natural Science Elective	3		Natural Science Elective	2
		Social Science Elective (<i>Cultural Diversity</i>)	3		Social Science Elective	3
		Upper Division (UD) General Elective	3		UD General Elective (<i>Inclusiveness</i>)	3
		TOTAL	15		TOTAL	14

Year Four	✓	FALL	Hours	✓	SPRING	Hours
		MATH 4040	1		MATH Option Course	3
		MATH Option Course	3		MATH Option Course	3
		MATH Option Course	3		General Elective or MATH Option Course	1
		HUM 3990	3		UD General Elective	3
		UD General Elective (<i>Sustainability</i>)	3		UD General Elective	3
		TOTAL	13		TOTAL	13