

## ACADEMIC ADVISING

*Partnering with students to successfully navigate college*

**Location:** Main Hall 208

**Phone:** 719.255.3260

**Website:** [Academic Advising](http://www.uccs.edu/academic-advising)

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- Appointments: [www.uccs.edu/advising/current-students](http://www.uccs.edu/advising/current-students)

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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](http://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) (46 hours)	Course/Area	Course Title			Credit Hours		
<ul style="list-style-type: none"> <li>• Requires a minimum of 46 credit hours of course work for the Statistics, Flexible, and Pure options, and a minimum of 49 hours for the Applied Mathematics option.</li> <li>• All options require a minimum of 31 credit hours of upper-division (3000+ level) MATH course work.</li> <li>• All MATH courses must have a grade of "C" or better.</li> </ul>	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		
	<b>Required Option</b>						
	All BS Mathematics Majors must select one of the Options below.						
	<b>Applied Mathematics Option*</b>			<b>Statistics Option</b>			
	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	
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<b>Flexible Option</b>			<b>Pure Mathematics Option</b>				
Directed Elective <i>Choose one</i>	MATH 4130, 4140, 4310	3	MATH 4140 <i>(spring only)</i>	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

**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																					
<b>Core Writing Requirement</b> (6 hours)	<ul style="list-style-type: none"> <li>ENGL 1310, 1308, or 1305 (<i>Students choosing ENGL 1305 must complete ENGL 1300 first.</i>)</li> <li>ENGL 1410</li> <li>PORT 3000 (0 Credits) – Writing Portfolio</li> </ul>																				
<b>Reasoning Skills</b>	<ul style="list-style-type: none"> <li>MATH 1350 (included in major requirements)</li> <li>MATH 3810 (included in major requirements)</li> </ul>																				
<b>Core Humanities</b> (3 hours)	<ul style="list-style-type: none"> <li>HUM 3990                             <ul style="list-style-type: none"> <li>This course also fulfills Navigate and one Writing Intensive course.</li> </ul> </li> </ul>																				
<b>Natural Sciences Lab</b> (1 hour)	<ul style="list-style-type: none"> <li>See Degree Audit                             <ul style="list-style-type: none"> <li>This can be taken as part of an Explore – PNW course that has a lab component</li> </ul> </li> </ul>																				
<b>Oral Communication</b>	<ul style="list-style-type: none"> <li>MATH 4040 (included in major requirements)</li> </ul>																				
<b>LAS Language other than English Requirement</b>	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>																				
<b>Compass Curriculum</b> (21 hours) <ul style="list-style-type: none"> <li>Explore and Navigate courses must be outside major requirements</li> <li>Writing Intensive, Inclusiveness, and Sustainability courses can count towards other requirements within degree</li> </ul>	<table border="1"> <thead> <tr> <th>Component</th> <th>Course</th> </tr> </thead> <tbody> <tr> <td><b>Gateway Program Seminar</b></td> <td>GPS 1010</td> </tr> <tr> <td><b>Explore – Arts, Humanities and Cultures (2 courses)</b></td> <td>See Degree Audit</td> </tr> <tr> <td><b>Explore – Society, Behavior and Health (2 courses)</b></td> <td>See Degree Audit</td> </tr> <tr> <td><b>Explore – Physical and Natural World (2 courses)</b></td> <td>See Degree Audit</td> </tr> <tr> <td><b>Navigate</b></td> <td>HUM 3990 (included in LAS gen ed requirements)</td> </tr> <tr> <td><b>Summit</b></td> <td>MATH 4040 (included in major requirements)</td> </tr> <tr> <td><b>Writing Intensive Courses (WIC) (2 courses)</b> <i>Must include one upper-division (3000+ level)</i></td> <td> <ul style="list-style-type: none"> <li>HUM 3990 (included in LAS gen ed requirements)</li> <li>See Degree Audit</li> </ul> </td> </tr> <tr> <td><b>Inclusiveness (2 courses)</b></td> <td>See Degree Audit</td> </tr> <tr> <td><b>Sustainability</b></td> <td>See Degree Audit</td> </tr> </tbody> </table>	Component	Course	<b>Gateway Program Seminar</b>	GPS 1010	<b>Explore – Arts, Humanities and Cultures (2 courses)</b>	See Degree Audit	<b>Explore – Society, Behavior and Health (2 courses)</b>	See Degree Audit	<b>Explore – Physical and Natural World (2 courses)</b>	See Degree Audit	<b>Navigate</b>	HUM 3990 (included in LAS gen ed requirements)	<b>Summit</b>	MATH 4040 (included in major requirements)	<b>Writing Intensive Courses (WIC) (2 courses)</b> <i>Must include one upper-division (3000+ level)</i>	<ul style="list-style-type: none"> <li>HUM 3990 (included in LAS gen ed requirements)</li> <li>See Degree Audit</li> </ul>	<b>Inclusiveness (2 courses)</b>	See Degree Audit	<b>Sustainability</b>	See Degree Audit
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<b>NOTE: Applied Mathematics Option Additional Required Courses</b>	Complete CS 1120 and PES 1110, 1120, and 1160. <ul style="list-style-type: none"> <li>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.</li> </ul>																				
<b>General Electives (40-43 hours)</b>	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	✓	FALL	Hours	✓	SPRING	Hours
	Year One		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
		<b>TOTAL</b>	<b>16</b>		<b>TOTAL</b>	<b>16</b>
Year Two		MATH 2150	3		MATH 3400	3
		MATH 2350	4		MATH 3110	3
		Explore – Arts, Humanities & Cultures Course	3		Explore - Physical & Natural World Course	3
		Explore – Society, Behavior & Health Course	3		Natural Science Lab	1
		General Elective	3		General Elective	4
		<b>TOTAL</b>	<b>16</b>		<b>TOTAL</b>	<b>14</b>
Year Three		MATH 3130	3		MATH 3410	3
		MATH 3810	3		MATH Option Course	3
		HUM 3990	3		MATH Option Course or UD MATH Elective*	3
		General Elective	3		General Elective	3
		General Elective (Inclusiveness)	3		General Elective	3
		<b>TOTAL</b>	<b>15</b>		<b>TOTAL</b>	<b>15</b>
Year Four		MATH 4040	1		MATH Option Course or UD MATH Elective*	3
		MATH Option Course or UD MATH Elective*	3		MATH Option Course or General Elective	3
		MATH Option Course or UD MATH Elective*	3		Upper Division (UD) General Elective	3
		General Elective	3		UD General Elective	3
		General Elective (Inclusiveness)	3		UD General Elective (Sustainability)	3
		<b>TOTAL</b>	<b>13</b>		<b>TOTAL</b>	<b>15</b>

\*Course choice depends on which Option is chosen.