

## College of Letters, Arts and Sciences – BS Mathematics – Secondary Teaching Option

### Academic Advising Hours:

**Location:** Main Hall 208

**Hours:** Monday: 9am-5pm Walk-in Advising  
Tuesday–Friday: 9am-4pm Appointments Only  
Call: (719) 255-3260

**Website:** [www.uccs.edu/advising](http://www.uccs.edu/advising)

### General Academic Information

#### Academic Policies

It is the responsibility of each student to know and follow all Academic policies established by the University and the College of Letters, Arts & Sciences (LAS) that are set forth in the Catalog ([catalog.uccs.edu](http://catalog.uccs.edu)).

#### Course Prerequisites

Students are responsible for knowing and completing all course prerequisites. Course prerequisites are strictly enforced for all classes at UCCS.

#### Restrictions and Limitations

Students may apply a maximum of 30 credit hours towards the bachelor's degree from course work taken outside the College of Letters, Arts & Sciences. Students may apply a maximum of 8 credit hours of independent study towards the major area of study and a maximum of 16 credit hours towards the bachelor's degree. Students may apply a maximum of 24 credit hours of Military Science/ROTC towards general electives and towards the bachelor's degree.

#### Probation/Suspension

To remain in good academic standing within the College of Letters, Arts & Sciences, students must maintain a cumulative CU GPA of 2.0, or better. Students whose cumulative CU GPA falls below a 2.0 will be placed on probation for the next semester in which they are enrolled. While on probation students must achieve a minimum semester GPA of a 2.25. If the required semester GPA is not met, the student will be suspended from the College of Letters, Arts & Sciences for a full academic year (Fall and Spring semesters). PLEASE NOTE: *While on probation, registration for the subsequent semester will be blocked until final grades are posted for the current semester. This is to verify that the minimum semester GPA for each student has been fulfilled.*

#### UCCS Bachelor of Science, Mathematics Major Degree

##### Requirements

- A minimum of 120 hours must be completed with a cumulative CU grade point average of 2.0; at least 45 of these hours must be at the upper-division level (courses numbered 3000-4999).

- No more than 54 hours of MATH course work can count towards the degree.
- The last 30 hours of the degree must be completed while registered in the College of Letters, Arts and Sciences at UCCS.
- Courses numbered below 1000 do not count towards degree completion.

#### Compass Curriculum

Compass Curriculum is the campus-wide general education program at UCCS. The Compass Curriculum has multiple components many of which will coincide with the degree requirements listed in this guide. Please visit the Compass Curriculum website at [www.uccs.edu/compasscurriculum](http://www.uccs.edu/compasscurriculum), review your degree audit, or check out the Compass Curriculum advising guide for specific course details. The required components are listed below and referenced in the guide.

#### REQUIRED COMPASS CURRICULUM COMPONENTS:

Component	Course
<b>Gateway</b>	GPS 1010
<b>Explore<sup>1</sup></b> – Arts, Humanities and Cultures	See Degree Audit
<b>Explore<sup>1</sup></b> – Society, Behavior and Health	See Degree Audit
<b>Explore<sup>1</sup></b> – Physical and Natural World	See Degree Audit
<b>Navigate<sup>2</sup></b>	Core HUM
<b>Summit</b>	UTED 4730
<b>Writing Intensive Course (WIC)<sup>3</sup></b> <i>Two courses with at least one upper-division (3000+ level).</i>	HUM 3990 See Degree Audit
<b>Inclusiveness<sup>3</sup></b>	See Degree Audit
<b>Sustainability<sup>3</sup></b>	See Degree Audit

<sup>1</sup> Explore must be outside major and area requirements.

<sup>2</sup> Navigate must be outside major requirements.

<sup>3</sup> Can count towards other requirements within the Compass Curriculum or within a student's degree program.



**DEPARTMENT OF MATHEMATICS – BS MATHEMATICS – SECONDARY TEACHING OPTION**

Department website: [www.uccs.edu/math](http://www.uccs.edu/math)

Degree Requirements	Courses					
<p><b>MATH Major (BS)</b> (46 hours)</p> <p>The BS in MATHEMATICS major requires a minimum of 46 credit hours of MATH course work and a minimum of 31 credit hours of upper-division (3000+ level) MATH course work.</p> <p>All MATH courses must have a grade of “C” or better.</p> <p><b>NOTE: Computer competency acquired in some other way may be substituted for MATH 2650</b></p>	Course Number	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 2650	Introduction to Computational Math				1
	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	Functions and Modeling				3
	MATH 3810	Introduction to Probability & Statistics				3
MATH 4140	Modern Algebra I				3	
OR	OR					
MATH 4310	Modern Analysis I					
MATH Electives	<i>Complete 6 additional hours of MATH courses numbered 4000 or higher</i>				6	
<p><b>UCCS Teach Courses</b> (29 hours)</p> <p>NOTE: A grade of “B-” or better must be earned in all Education courses.</p>	<i>Complete all of the courses listed below. Courses should be taken in the appropriate semester. See the four-year plan for details.</i>					
	UTED 1010	Step I: Inquiry Approaches to Teaching				1
	UTED 1020	Step II: Inquiry-Based Lesson Design				1
	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
<p><b>Composition</b> (6 hours)</p>	<i>Complete ENGL 1310, 1410, and the Writing Portfolio.</i>					
	ENGL 1310	Rhetoric & Writing I				3
	ENGL 1410	Rhetoric & Writing II				3
	PORT 3000	Writing Portfolio Assessment				0
<p><b>Area Requirements</b> (27 hours)</p> <p>All LAS students are required to complete 9 credit hours in each of three areas - humanities, social sciences, and natural sciences. The total requirement is 27 hours.</p> <p>Specific Limitations: &gt; No more than two courses from any one discipline may be applied to the area. &gt; Courses in the primary major may not be applied to area requirements. &gt; Courses may not be taken pass/fail.</p>	<b>HUMANITIES</b> – Complete 9 hours from the list of courses below. <i>Course selection must include one course from PHIL 1000, PHIL 1020 or PHIL 1120, and one occurrence of Core HUM 3990, 3993, 3995, or 3997.</i>					
	AH 1000	AH 1001	AH 2800	AH 2810	AH 2820	AH 2860
	AH 2890	AH 3430	COMM 2250	COMM 3100	COMM 3500	COMM 4000
	ENGL 1500	ENGL 2600	ENGL 2610	ENGL 3320	ENGL 3900	FCS 3180
	FCS 3190	FCS 3240	FCS 3550	FCS 3690	FCS 3890	FCS 4210
	FILM 1000	FILM 2000	FILM 3690	FR 3240	GER 3180	GER 3190
	HIST 1120	HIST 1130	HIST 1140	HIST 1400	HIST 1410	HIST 1540
	HIST 1600	HIST 1610	<b>HUM 3990</b>	<b>HUM 3993</b>	<b>HUM 3995</b>	<b>HUM 3997</b>
	ID 2000	MUS 1000	MUS 2050	MUS 2850	<b>PHIL 1000</b>	<b>PHIL 1020</b>
	<b>PHIL 1120</b>	PHIL 1300	PHIL 3000	PHIL 3100	PHIL 3160	PHIL 3180
	PHIL 4070	SPAN 3690	SPAN 4210	THTR 1000	THTR 3201	THTR 3202
	VA 1010	VA 1020	WEST 2030	WEST 2040	WEST 3020	WEST 3100
	WEST 3550	WEST 4050	WEST 4280	WEST 4920		
	<b>SOCIAL SCIENCE</b> – Complete 9 hours from the list of courses below. <i>Course selection must include PSY 1000.</i>					
	ANTH 1020	ANTH 1040	ANTH 2800	ANTH 3040	ANTH 3260	ANTH 3270
	ANTH4270	COMM 1020	COMM 2150	COMM 3440	COMM 4200	COMM 4220
	COMM 4250	ECON 1000	ECON 1010	ECON 1050	ECON 2020	ECON 3150
	ECON 3710	GES 1980	GES 1990	GRNT 2300	GRNT 3000	MSGP 4100
	PHIL 3200	PHIL 3210	PHIL 4260	PHIL 4400	PSC 1010	PSC 1100
	PSC 2080	PSC 2100	PSC 3300	PSC 4190	PSC 4210	PSC 4470

	PSY 1000	PSY 3630	SOC 1110	SOC 2200	SOC 2220	SOC 2250
	SOC 2300	SOC 2500	SOC 3070	SOC 3340	SOC 3610	WEST 1010
	WEST 2500	WEST 3060	WEST 3070	WEST 3090	WEST 3620	WEST 4100
	WEST 4120					
	WEST 4500					
	<b>NATURAL SCIENCE</b> – Complete 9 hours from the list of courses below. At least one course must have, or be, a lab course. Lab courses are marked in bold.					
	ANTH 1030	ANTH 3320	ANTH 3340	ANTH 3370	BIOL 1000	BIOL 1050
	<b>BIOL 1060</b>	BIOL 2000	BIOL 3750	CHEM 1101	<b>CHEM 1102</b>	CHEM 1111
	<b>CHEM 1112</b>	CHEM 1121	<b>CHEM 1122</b>	<b>CHEM 1201</b>	<b>CHEM 1211</b>	CHEM 1401
	<b>CHEM 1402</b>	CHEM 1411	<b>CHEM 1412</b>	CHEM 1511	<b>CHEM 1513</b>	ENSC 1500
	ENSC 1510	ENSC 1600	<b>ENSC 1620</b>	ENSC 3200	GES 1000	GES 1010
	<b>GES 1050</b>	GES 3200	GES 3250	<b>GEOL 1010</b>	GEOL 1020	<b>GEOL 1530</b>
	GEOL 3170	GEOL 3700	GEOL 4660	ID 2050	ID 3210	PES 1000
	PES 1040	PES 1050	PES 1060	<b>PES 1090</b>	<b>PES 1100</b>	<b>PES 1140</b>
	<b>PES 1160</b>	<b>PES 1170</b>	PES 1310	PES 1600	<b>PES 1620</b>	PES 1710
	PES 1720	PSY 3270				
<b>Oral Communication, Cultural Diversity, and Global Awareness Requirements</b>	<b>ORAL COMMUNICATION</b> – Complete MATH 4040 which is part of your degree program.					
	MATH 4040					
	<b>CULTURAL DIVERSITY</b> – Complete one of the courses listed below.					
	AH 3430	ANTH 3250	ANTH 3420*	ASL 4000	COMM 3280*	ENGL 3320*
	ENGL 4060	FCS 3360	FCS 4210*	GES 4680	HIST 3520	HIST 3580
	MUS 2050*	PHIL 3180*	PHIL 3230	PHIL 4550	SOC 2200*	SOC 2250*
	SOC 3220*	SOC 3250*	SOC 3290*	SOC 4240*	SOC 4290*	SOC 4390*
	SOC 4480*	SOC 4530	SOC 4680	SPAN 4210*	SPAN 4420	THTR 3240
	WEST 1010*	WEST 2020	WEST 3090*	WEST 3130	WEST 3250	WEST 3290*
	WEST 3360	WEST 3420*	WEST 3520	WEST 3580	WEST 3760	WEST 4120*
	WEST 4280*	WEST 4390*	WEST 4480*	WEST 4530	WEST 4550	WEST 4680
	WEST 4920*					
	<b>GLOBAL AWARENESS</b> – Complete one of the courses listed below.					
	AH 3450	AH 3460	AH 4450	AH 4470	ANTH 1040*	ANTH 3040*
	ANTH 4270*	CHEM 1111*	CHEM 4521*	ECON 3590	ECON 3710*	ENGL 2600*
	ENGL 2610*	ENGL 4065	EUST 3000	FCS 3180*	FCS 3190*	FCS 3250
	FCS 3380*	FCS 3690*	FCS 3890*	FILM 2000*	FILM 3690*	FR 3250
	GER 3180*	GER 3190*	GES 1980*	GES 1990*	GES 3070*	GES 3400*
	GES 3820*	GES 3980*	GES 4640	GRNT 3560	HIST 1110*	HIST 1120*
	HIST 1130*	HIST 1140*	HIST 1400*	HIST 1410*	HIST 1600*	HIST 1610*
	HIST 3120*	HIST 3220*	HIST 3560*	HIST 3570	HIST 3590*	HIST 3680
	HIST 4050*	HIST 4060	HIST 4130*	HIST 4150*	HIST 4160*	HIST 4280*
	HIST 4860	ID 3579	ID 3700	ID 3710	ID 3730	ID 3740
	ID 3750	ID 3760	ID 3770	ID 3780	ID 3790	ID 3800
	MUS 3150*	PHIL 1300*	PHIL 1400	PHIL 3000*	PHIL 3100*	PHIL 3240*
	PHIL 3345	PHIL 3400	PHIL 3480	PHIL 3490	PHIL 3500	PSC 1010*
	PSC 2070	PSC 2080*	PSC 2090	PSC 3240	PSC 4170	PSC 4190*
	PSC 4210*	PSC 4570	PSC 4580	PSC 4590	PSY 3560	SOC 2220*
	SOC 3340*	SOC 4380*	SOC 4450	SOC 4580	SOC 4600	SOC 4660*
	SOC 4700*	SPAN 3690*	WEST 3380*	WEST 3480*	WEST 3560	WEST 3680
	WEST 4050*	WEST 4060	WEST 4170	WEST 4380*	WEST 4700*	
<b>Compass Curriculum</b> (12 hours)	Complete all Compass Curriculum requirements not already completed as part of the above program. The Gateway Seminar ( <b>GPS 1010</b> ) must be completed by all students. Explore courses must be completed outside of the major and Area Requirements. All other Compass Curriculum requirements can be completed within the degree requirements above. To see a list of all Compass Curriculum courses, please visit: <a href="http://www.uccs.edu/compasscurriculum">www.uccs.edu/compasscurriculum</a> .					

## UCCS Four-Year Degree Plan – BS Mathematics – Secondary Teaching Option

The following four-year plan lists all the specific course requirements for the Bachelor of Science in Mathematics – Secondary Teaching Option degree at UCCS. The order in which these courses are taken may vary with course availability. **Students are responsible for completing all course prerequisites.** Please note that this is a *suggested* degree program; your program may vary. NOTE: The following courses are usually offered during each Summer semesters: MATH 1350, 1360, 2350, 3130, 3400, 3810. Please check with the Math Department about the projected Summer course offerings.

### Suggested First Year

FALL			SPRING		
√	Course	Hours	√	Course	Hours
	ENGL 1310	3		ENGL 1410	3
	MATH 1350	4		MATH 1360	4
	GPS 1010	3		PSY 1000	3
	UTED 1010	1		UTED 1020	1
	PHIL 1000,1020, or 1120	3		Explore – Physical & Natural World Course	3
	Explore – Society, Behavior & Health Course	3			
	<b>TOTAL</b>	<b>17</b>		<b>TOTAL</b>	<b>14</b>

### Suggested Second Year

FALL			SPRING		
√	Course	Hours	√	Course	Hours
	MATH 2350	4		MATH 2650	1
	MATH 2150	3		MATH 3110 (Spring Only)	3
	UTED 2010	3		UTED 3020	3
	Humanities Elective	3		Explore – Arts, Humanities & Cultures Course	3
	Social Science Elective	3		Natural Science Elective	4
	<b>TOTAL</b>	<b>16</b>		<b>TOTAL</b>	<b>14</b>

### Suggested Third Year

FALL			SPRING		
√	Course	Hours	√	Course	Hours
	MATH 3130	3		MATH 3400	3
	MATH 3210	3		MATH 3410 (Spring Only)	3
	MATH 3480 or UTLS 3480 (Fall Only)	3		MATH 3810	3
	UTED 4720 (Fall Only)	3		UTLS 3030 (Spring Only)	3
	Natural Science Elective w/ Lab	5		Social Science Elective	3
	<b>TOTAL</b>	<b>17</b>		<b>TOTAL</b>	<b>15</b>

### Suggested Fourth Year

FALL			SPRING		
√	Course	Hours	√	Course	Hours
	MATH 4140 or 4310 (Fall Only)	3		UTED 4730	12
	MATH 4000 Elective	3			
	MATH 4000 Elective	3			
	HUM 3990 (Req. Humanities Elective)	3			
	UTED 4710	3			
	<b>TOTAL</b>	<b>15</b>		<b>TOTAL</b>	<b>12</b>

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