

College of Letters, Arts and Sciences – BA 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

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).

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 21 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 Arts, Mathematics – Secondary Teaching Option

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, 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
Gateway	GPS 1010
Explore¹ – Arts, Humanities and Cultures	See Degree Audit
Explore¹ – Society, Behavior and Health	See Degree Audit
Explore¹ – Physical and Natural World	See Degree Audit
Navigate²	HUM 3990
Summit	UTED 4730
Writing Intensive Course (WIC)³ <i>Two courses with at least one upper-division (3000+ level).</i>	HUM 3990 See Degree Audit
Inclusiveness³	See Degree Audit
Sustainability³	See Degree Audit

¹ Explore must be outside major and area requirements.

² Navigate must be outside major requirements.

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



DEPARTMENT OF MATHEMATICS – BA SECONDARY TEACHING OPTION

Department website: www.uccs.edu/math

Degree Requirements	Courses																																																																		
<p>MATH Major (BA) (42 hours)</p> <p>The BA in MATHEMATICS major requires a minimum of 42 credit hours of MATH course work and a minimum of 27 credit hours of upper-division (3000+ level).</p> <p>All MATH courses must have a grade of “C” or better.</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 3100 or MATH 3810	Statistics for the Sciences Intro to Probability & Statistics				3																																																													
	MATH 3110	Theory of Numbers				3																																																													
	MATH 3130	Introduction to Linear Algebra				3																																																													
	MATH 3400	Introduction to Differential Equations				3																																																													
	MATH 4140	Modern Algebra I (Fall Only)				3																																																													
	MATH 4210	Higher Geometry				3																																																													
	MATH 4310	Modern Analysis I (Fall Only)				3																																																													
	MATH 4480 or MATH 4850	Mathematical Modeling (Spring only) Stochastic Modeling (Spring only)				3																																																													
	Electives	<i>Complete 3 additional hours of MATH courses numbered 3100 or higher. [MATH 3410 strongly recommended]</i>				3																																																													
MATH 2650	Introduction to Computational Mathematics (recommended, but not required for the degree) Note: Adequate experience with computer programming (equiv. to MATH 2650) required for MATH 4480 and MATH 4850				1																																																														
<p>UCCS Teach Courses (32 hours)</p> <p>NOTE: A grade of “B-” or better must be earned in all Education courses.</p>	<p>Complete all of the courses listed below. Courses should be taken in the appropriate semester. See the four-year plan for details.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;">UTED 1010</td> <td style="width: 25%;">UTED 1020</td> <td style="width: 25%;">UTED 2010</td> <td style="width: 25%;">UTED 3020</td> </tr> <tr> <td>UTLS 3030</td> <td>UTLS 3480</td> <td>UTED 4710</td> <td>UTED 4720</td> </tr> <tr> <td>UTED 4730</td> <td></td> <td></td> <td></td> </tr> </table>						UTED 1010	UTED 1020	UTED 2010	UTED 3020	UTLS 3030	UTLS 3480	UTED 4710	UTED 4720	UTED 4730																																																				
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<p>Composition (6 hours)</p>	<p><i>Complete ENGL 1310, 1410, and the Writing Portfolio.</i></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;">ENGL 1310</td> <td colspan="3">Rhetoric & Writing I</td> <td colspan="2"></td> <td style="text-align: center;">3</td> </tr> <tr> <td>ENGL 1410</td> <td colspan="3">Rhetoric & Writing II</td> <td colspan="2"></td> <td style="text-align: center;">3</td> </tr> <tr> <td>PORT 3000</td> <td colspan="3">Writing Portfolio Assessment</td> <td colspan="2"></td> <td style="text-align: center;">0</td> </tr> </table>						ENGL 1310	Rhetoric & Writing I					3	ENGL 1410	Rhetoric & Writing II					3	PORT 3000	Writing Portfolio Assessment					0																																								
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<p>Area Requirements (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: > No more than two courses from any one discipline may be</p>	<p>HUMANITIES – Complete 9 hours from the list of courses below. <i>Course selection must include one course from PHIL 1000, 1020 or 1120, PHIL 3420, and one occurrence of HUM 3990.</i></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 12.5%;">HUM 3990</td> <td style="width: 12.5%;">PHIL 1000</td> <td style="width: 12.5%;">PHIL 1020</td> <td style="width: 12.5%;">PHIL 1120</td> <td style="width: 12.5%;">PHIL 3420</td> <td colspan="2"></td> </tr> </table> <p>SOCIAL SCIENCE – Complete 9 hours from the list of courses below. <i>Course selection must include PSY 1000.</i></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 12.5%;">ANTH 1020</td> <td style="width: 12.5%;">ANTH 1040</td> <td style="width: 12.5%;">ANTH 2800</td> <td style="width: 12.5%;">ANTH 3040</td> <td style="width: 12.5%;">ANTH 3260</td> <td style="width: 12.5%;">ANTH 3270</td> </tr> <tr> <td>COMM 1020</td> <td>COMM 2150</td> <td>COMM 3440</td> <td>COMM 4200</td> <td>COMM 4220</td> <td>COMM 4250</td> </tr> <tr> <td>ECON 1000</td> <td>ECON 1010</td> <td>ECON 1050</td> <td>ECON 2020</td> <td>ECON 3150</td> <td>ECON 3710</td> </tr> <tr> <td>GES 1980</td> <td>GES 1990</td> <td>GRNT 2300</td> <td>GRNT 3000</td> <td>MSGP 4100</td> <td>PHIL 3200</td> </tr> <tr> <td>PHIL 4260</td> <td>PHIL 4400</td> <td>PSC 1010</td> <td>PSC 1100</td> <td>PSC 2080</td> <td>PSC 2100</td> </tr> <tr> <td>PSC 3300</td> <td>PSC 4190</td> <td>PSC 4210</td> <td>PSC 4470</td> <td>PSY 1000</td> <td>SOC 1110</td> </tr> <tr> <td>SOC 2120</td> <td>SOC 2200</td> <td>SOC 2220</td> <td>SOC 2250</td> <td>SOC 2300</td> <td>SOC 2500</td> </tr> <tr> <td>SOC 3340</td> <td>SOC 3610</td> <td>WEST 1010</td> <td>WEST 2500</td> <td>WEST 3060</td> <td>WEST 3070</td> </tr> <tr> <td>WEST 3090</td> <td>WEST 3620</td> <td>WEST 4100</td> <td>WEST 4120</td> <td>WEST 4500</td> <td></td> </tr> </table>						HUM 3990	PHIL 1000	PHIL 1020	PHIL 1120	PHIL 3420			ANTH 1020	ANTH 1040	ANTH 2800	ANTH 3040	ANTH 3260	ANTH 3270	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 4260	PHIL 4400	PSC 1010	PSC 1100	PSC 2080	PSC 2100	PSC 3300	PSC 4190	PSC 4210	PSC 4470	PSY 1000	SOC 1110	SOC 2120	SOC 2200	SOC 2220	SOC 2250	SOC 2300	SOC 2500	SOC 3340	SOC 3610	WEST 1010	WEST 2500	WEST 3060	WEST 3070	WEST 3090	WEST 3620	WEST 4100	WEST 4120	WEST 4500	
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<p>applied to the area requirements.</p> <p>> Courses in the primary major may not be applied to area requirements.</p> <p>> Courses may not be taken pass/fail.</p>	NATURAL SCIENCE – 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
	BIOL 1060	BIOL 1510	BIOL 1530	BIOL 2000	BIOL 3411	CHEM 1101
	CHEM 1102	CHEM 1111	CHEM 1112	CHEM 1121	CHEM 1122	CHEM 1201
	CHEM 1211	CHEM 1401	CHEM 1402	CHEM 1411	CHEM 1412	CHEM 1511
	CHEM 1513	ENSC 1500	ENSC 1510	ENSC 1600	ENSC 1620	ENSC 3200
	GES 1000	GES 1010	GES 1050	GES 3200	GES 3250	GEOL 1010
	GEOL 1020	GEOL 1530	GEOL 3170	GEOL 3700	GEOL 4660	ID 2050
	PES 1000	PES 1040	PES 1050	PES 1060	PES 1090	PES 1100
	PES 1140	PES 1160	PES 1170	PES 1310	PES 1600	PES 1620
	PES 1710	PES 1720	PSY 3270			
	<p>Oral Communication, Cultural Diversity, and Global Awareness Requirements</p> <p>Students are required to take one course with a substantial component involving oral communication, one course that increases their awareness of cultural diversity, and one course that increase their awareness of global issues.</p> <p><i>All courses in this section can count towards other requirements. Courses marked with an asterisk (*) can count towards specific requirements; courses without an asterisk will count towards General Electives.</i></p>	ORAL COMMUNICATION – Complete UTED 3020 which is part of the required education courses.				
UTED 3020						
CULTURAL DIVERSITY – 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 4680		SOC 4920*	SPAN 4210*	SPAN 4420	THTR 3240	WEST 1010*
WEST 2020		WEST 3090	WEST 3130	WEST 3150	WEST 3250	WEST 3290
WEST 3360		WEST 3420	WEST 3520	WEST 3580	WEST 4120*	WEST 4280*
WEST 4390		WEST 4500*	WEST 4550	WEST 4680	WEST 4920*	
GLOBAL AWARENESS – Complete one of the courses listed below.						
ANTH 1040*		ANTH 3040*	AH 3450	AH 3460	AH 4450	AH 4470
BIOL 1510*		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 3590	HIST 3680	HIST 4050
HIST 4060		HIST 4130	HIST 4150	HIST 4160	HIST 4280	HIST 4860
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 4600	SOC 4700*	SPAN 3690*	WEST 3380
WEST 3480*		WEST 3560	WEST 3680	WEST 4050	WEST 4060	WEST 4170
WEST 4380		WEST 4700*				
Compass Curriculum (12 hours)	Complete all Compass Curriculum requirements not already completed as part of the above program. The Gateway Seminar (GPS 1010) 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: www.uccs.edu/compasscurriculum .					

UCCS Four-Year Degree Plan – BA Mathematics – Secondary Teaching Option

The following four-year plan lists all the specific course requirements for the Bachelor of Arts in Mathematics 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, sometimes 3100. 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
	PHIL 1000,1020, or 1120	3		MATH 2150	3
	UTED 1010	1		PSY 1000	3
	GPS 1010	3		UTED 1020	1
	Explore – Society, Behavior & Health Course	3			
	TOTAL	17		TOTAL	14

Suggested Second Year

FALL			SPRING		
√	Course	Hours	√	Course	Hours
	MATH 2350	4		MATH 3130	3
	MATH 2650	1		MATH 3400	3
	UTED 2010	3		MATH 3100 or MATH 3810	3
	Explore – Arts, Humanities & Cultures Course	3		UTED 3020	3
	Natural Science Elective w/ Lab	5		Explore – Physical & Natural World Course	3
	TOTAL	16		TOTAL	15

Suggested Third Year

FALL			SPRING		
√	Course	Hours	√	Course	Hours
	UTLS 3480 (Fall Only)	3		MATH 3110 (Spring Only)	3
	MATH 4210	3		MATH Elective (MATH 3410 Recommended)	3
	PHIL 3420	3		MATH 4480 or MATH 4850	3
	UTED 4720 (Fall Only)	3		UTLS 3030 (Spring Only)	3
	Natural Science Elective	4		Social Science Elective	3
	TOTAL	16		TOTAL	15

Suggested Fourth Year

FALL			SPRING*		
√	Course	Hours	√	Course	Hours
	MATH 4310 (Fall Only)	3		UTED 4730	12
	MATH 4140 (Fall Only)	3			
	UTED 4710	3			
	HUM 3990	3			
	Social Science Elective	3			
	TOTAL	15		TOTAL	12

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