

College of Letters, Arts & Sciences – BS Mathematics – Statistics Option

Academic Advising Hours:

9-5

Location: Main Hall 208

Hours: Monday–Friday: 9am–4pm Appointments Only (except Wednesday afternoons)

Drop-in Advising every Wednesday from 1pm-4:30pm

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 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 & 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	Core HUM
Summit	MATH 4040
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.

UCCS DEPARTMENT OF MATHEMATICS – BS MATHEMATICS – STATISTICS OPTION

Department website: www.uccs.edu/math

Degree Requirements	Courses					
<p>MATH Major (BS) (47 hours)</p> <p>The BS in MATHEMATICS major requires a minimum of 47 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>NOTE: Computer competency acquired in some other way may be substituted for MATH 2650</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 3400	Introduction to Differential Equations				3
	MATH 3410	Introduction to Analysis				3
	MATH 3810	Introduction to Probability & Statistics				3
	MATH 4040	Senior Seminar				1
	MATH 4810	Mathematical Statistics I				3
	MATH 4820	Mathematical Statistics II				3
	MATH 4850	Stochastic Modeling				3
	Math Electives	Complete 6 additional hours of MATH courses numbered 4000 or higher.				6
Recommended Courses	Students interested in pursuing a graduate degree in statistics are advised to take the following courses to fulfill their math electives: MATH 4130 – Linear Algebra I MATH 4310 – Modern Analysis I (Fall only) MATH 4320 – Modern Analysis II					
<p>Composition (6 hours)</p>	Complete ENGL 1310, 1410, and the Writing Portfolio.					
	ENGL 1310	Rhetoric & Writing I				3
	ENGL 1410	Rhetoric & Writing II				3
	PORT 3000	Writing Portfolio Assessment				0
<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 applied to the area. > Courses in the primary major may not be applied to area requirements. > Courses may not be taken pass/fail.</p>	<p>HUMANITIES – Complete 9 hours from the list of courses below. <i>Course selection must include one occurrence of Core Humanities from: HUM 3990, 3993, 3995, or 3997.</i></p>					
	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	HUM 3990	HUM 3993	HUM 3995	HUM 3997
	ID 2000	MUS 1000	MUS 2050	MUS 2850	PHIL 1000	PHIL 1020
	PHIL 1120	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		
	<p>SOCIAL SCIENCE – Complete 9 hours from the list of courses below.</p>					
	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					

	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 2000	BIOL 3750	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	ID 3210	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 MATH 4040 which is part of your degree program.					
	MATH 4040					
	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 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*					
	GLOBAL AWARENESS – 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*		
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 .					
General Electives (22-28 hours)	Complete additional courses to meet total and upper-division requirements for your degree program.					



Four-Year Degree Plan – BS Mathematics – Statistics Option

The following four-year plan lists all the specific course requirements for the Bachelor of Arts in Mathematics – Statistics 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		Explore – Physical & Natural World Course	3
	Explore – Arts, Humanities & Cultures Course	3		General Elective	3
	Explore – Society, Behavior & Health Course	3		General Elective	3
	TOTAL	16		TOTAL	16

Suggested Second Year

FALL			SPRING		
√	Course	Hours	√	Course	Hours
	MATH 2150	3		MATH 2650	1
	MATH 2350	4		MATH 3110 (Spring Only)	3
	Humanities Elective	3		Natural Science Elective	3
	Natural Science Elective w/ Lab	4		Social Science Elective	3
				General Elective	4
	TOTAL	14		TOTAL	14

Suggested Third Year

FALL			SPRING		
√	Course	Hours	√	Course	Hours
	MATH 3130	3		MATH 3400	3
	MATH 3810	3		MATH 3410	3
	Natural Science Elective	2		General Elective (<i>Global Awareness</i>)	3
	Social Science Elective	3		General Elective (<i>Cultural Diversity</i>)	3
	Upper Division (UD) General Elective	3		UD General Elective	3
	TOTAL	14		TOTAL	15

Suggested Fourth Year

FALL			SPRING		
√	Course	Hours	√	Course	Hours
	MATH 4040	1		MATH 4820 (Spring Only)	3
	MATH 4810 (Fall Only)	3		MATH 4850	3
	MATH 4000 Elective	3		MATH 4000 Elective	3
	HUM 3990 (Req. Humanities Elective)	3		Humanities Elective	3
	UD General Elective	3		UD General Elective	3
	Social Science Elective	3			
	TOTAL	16		TOTAL	15