

Best Choices Guide

Biology (BS)

This Associate of Science degree is designed for Colorado Community College System (CCCS) students who want to transfer to UCCS and complete a Bachelor of Science degree with a major in Biology. It is based on the [best academic advising choices](#) for future UCCS students. Please note that final graduation requirements for the bachelor's degree will be based on your year of admission to UCCS. Contact transfer@uccs.edu for more information.

To earn the Associate's degree with Designation (DwD), students must complete the courses listed on page 1 of this guide for a total of 60 credit hours. At least 34 credits must be GT Pathways Courses. At least 15 credit hours must be earned from the CCC granting the AA or AS degree. Courses taken at other colleges, AP, IB, CLEP, DSST, and other sources of credit may not be applicable upon transfer to UCCS even if applied to the associate's degree at CCCS. Check the CDHE's [GT Pathways](#) website for more information.

A cumulative GPA of 2.0 or better is required for transfer student admission to UCCS. A minimum grade of C- or higher is required for courses to transfer to UCCS.

Degree Requirements	Courses	
Written Communication (6 hours)	- ENG 1021 - ENG 1022 <i>Note: Students who test into ENG 122/1022 should take ENG 201/2001 or HIS 265/2765 as their second written communication course.</i>	
Mathematics¹ (4 hours)	MAT 1340 (College Algebra) or higher-level MA1 course: MAT 1420, 1440, or 2410.	
Arts & Humanities (6 hours)	Complete two GT-AH Courses (GT-AH1) (GT-AH2) (GT-AH3) (GT-AH4)	
History (3 hours)	Complete one GT-HI Course (GT-HI)	
Social & Behavioral Sciences (6 hours)	Complete two GT-SS Courses (GT-SS1) (GT-SS2) (GT-SS3) (<i>GEO 1006, Human Geography, highly recommended and will fulfill an Inclusiveness course requirement at UCCS</i>)	
Natural & Physical Sciences (10 hours)	- BIO 1111 - CHE 1111	
Additional Requirements (25 hours) Courses recommended by UCCS for this degree.	BIO 1112	5
	CHE 1112	5
	PHY 1111 AND PHY 1112 (Algebra-Based Sequence) or PHY 2111 AND PHY 2112 (Calculus-Based Sequence – requires MAT 2410 as a prerequisite)	10
	General Electives ² Note: MAT 1420 (3) or MAT 1440 (5) is highly recommended. Either course will fulfill the prerequisite for Calculus I, MAT 2410, at CCCS or MATH 1350 or 1330 at UCCS. Calc I is required for the Biology degree at UCCS.	5

State-Wide Articulation Agreement

This guide is based on the Colorado State-Wide Transfer Articulation Agreement (STAA) for your major. For additional information regarding guarantees, limitations, and addendums to that agreement please visit: [Transfer Degrees | Colorado Department of Higher Education Home](#).

¹Reasoning Skills – UCCS

The College of Letters, Arts and Sciences (LAS) at UCCS requires all students to complete a Reasoning Skills requirement.

- Biology majors** take MAT 2410 (or MATH 1330 or MATH 1350 at UCCS) **AND** a required Statistics course at UCCS (BIOL 3000 - Biology Statistics) to fulfill the Reasoning Skills requirement.

²Language other than English - UCCS

Beginning fall 2023, the College of Letters, Arts and Sciences (LAS) at UCCS requires all students to complete a language requirement as part of their degree program. Students who provide a final, official transcript showing completion of an Associate's degree prior to their first semester of enrollment at UCCS will be waived from this requirement. For those who don't complete the Associate's degree, the second semester of a world language (ex: SPA 1012, Spanish Language II) or higher completes the requirement. Students who completed two years of the same world language in high school, or have AP, IB, or CLEP scores equivalent to a Language II course, will have completed the requirement upon receipt of high school transcripts and/or exam scores. Other exemptions and test-out options are available.

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Four-Year Degree Plan - Biology

The following four-year plan lists all the specific course requirements for the Bachelor of Science in Biology degree at UCCS. Courses are listed by the course number at the appropriate institution. 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.

Suggested First Year

FALL			SPRING		
✓	Course	Hours	✓	Course	Hours
	ENG 1021	3		ENG 1022	3
	BIO 1111	5		BIO 1112	5
	MAT 1340	4		General Elective (MAT 1420 or MAT 1440)	3-5
	GT-SS course	3		General Elective	0-2
	TOTAL	15		TOTAL	13

Suggested Second Year

FALL			SPRING		
✓	Course	Hours	✓	Course	Hours
	CHE 1111	5		CHE 1112	5
	PHY 1111 (algebra-based) or PHY 2111 (calc-based)*	5		PHY 1112 (algebra-based) or PHY 2112 (calc-based)	5
	GT-AH course	3		GT-AH course	3
	GT-HI1 course	3		GT-SS course (GEO 1006 - Inclusiveness)	3
	TOTAL	16		TOTAL	16

Suggested Third Year

FALL			SPRING		
✓	Course	Hours	✓	Course	Hours
	BIOL 3700	3		BIOL 3020 (prerequisite BIOL 3830)	3
	BIOL 3830	3		Upper-Division (UD) Biology Elective	3
	HUM 3990	3		UD BIOL Elective	3
	CHEM 3001/3002 or CHEM 3101/3102	4		General Elective or CHEM 3111/3112	4
	General Elective (Oral Communication)	3		MATH 1350 or 1330	4
	TOTAL	16		TOTAL	17

Suggested Fourth Year

FALL			SPRING		
✓	Course	Hours	✓	Course	Hours
	BIOL 3000 (prerequisites BIOL 3830 and MATH 1350)	3		UD BIOL Elective (Summit/Capstone Experience)	3
	BIOL 4250 (prerequisite BIOL 3830)	3		UD BIOL Elective	3
	UD BIOL Elective	3		UD BIOL Elective	3
	UD BIOL Elective	3		General Elective (Inclusiveness)	3
	UD BIOL Elective	3			
	TOTAL	15		TOTAL	12

*PHY 2111 and PHY 2112 (Calculus-Based Physics Sequence) – PHY 2111 requires MAT 2410, Calculus I, as a prerequisite. Students who choose to take the calc-based sequence will need to complete or test out of MAT 1420 or 1440 and MAT 2410 prior to taking PHY 2111. MAT 2410 will fulfill the MATH 1350 or 1330 requirement at UCCS.

UCCS Bachelor of Science, Biology Major 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).
- The Biology major requires a minimum of 47 hours with a grade point average of 2.0, and at least 39 of the hours must be at the upper-division level.
- At least 30 hours of the degree must be completed while registered in the College of Letters, Arts and Sciences at UCCS.

Additional Resources

- Visit the UCCS Transfer website at [Transfer Admissions](https://www.uccs.edu/transfer)
- Contact a Transfer Advisor at transfer@uccs.edu