

## College of Letters, Arts and Sciences – BA Biochemistry – Secondary Education 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 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, BA Biochemistry – Secondary Education Option Major Degree Requirements

> A minimum of 124 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 CHEM 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
Gateway	GPS 1010
Explore <sup>1</sup> – Arts, Humanities and Cultures	See List
Explore <sup>1</sup> – Society, Behavior and Health	See List
Explore <sup>1</sup> – Physical and Natural World	BIOL 1350
Navigate <sup>2</sup>	HUM 3990
Summit	UTED 4730
Writing Intensive Course (WIC) <sup>3</sup> <i>Two courses with at least one upper-division (3000+ level).</i>	HUM 3990 CHEM 1513
Inclusiveness <sup>3</sup>	See List
Sustainability <sup>3</sup>	See List

<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 CHEMISTRY/BIOCHEMISTRY – SECONDARY EDUCATION OPTION

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

Degree Requirements		Courses				
<p><b>BA Biochemistry Major</b> (34 hours)</p> <p>The Biochemistry major requires a minimum of 34 credit hours of CHEM course work and a minimum of 16 credit hours of upper-division (3000+ level) CHEM course work.</p> <p>All CHEM courses must have a grade of “C” or better.</p> <p>All auxiliary requirements must be completed in addition to the required major courses.</p> <p>*Students must contact the department chair in the semester prior to that in which they wish to teach to determine an appropriate lab to teach.</p>	Course Number	Course Title			Credit Hours	
	CHEM 1401/1402	General Chemistry I and Lab			5	
	CHEM 1511/1513	General Chemistry II for Majors and Lab			5	
	CHEM 3201/CHEM 3203	Organic Chemistry I for Majors and Lab			5	
	CHEM 3211/CHEM 3213	Organic Chemistry II for Majors and Lab			5	
	CHEM 4001/CHEM 4002	Analytical Chemistry and Lab			4	
	CHEM 4211	Biochemistry Principles			3	
	CHEM 4701	Biophysical Chemistry			3	
	CHEM 4901*	Introduction to Lab Teaching			1	
	Electives	<i>Complete 3 hours of Upper Division (3000+ level) Chemistry Electives. Up to 3 hours may be CHEM 4904/4905.</i>			3	
	<b>Auxiliary Requirements</b>					
	BIOL 1350/1360	General Biology: Introduction to the Cell and Lab			4	
	MATH 1330	Calculus for Life Sciences			4	
	PES 1110/1160	General Physics I and Lab			5	
PES 1120/2160	General Physics II and Lab			5		
<p><b>UCCS Teach Courses</b> (32 hours)</p> <p>NOTE: A grade of “B-” or better must be earned in all Education courses.</p>	Complete all of the courses listed below. Courses should be taken in the appropriate semester. See the four-year plan for details.					
	UTED 1010	UTED 1020	UTED 2010	UTED 3020		
	UTLS 3030	UTLS 3040	UTED 4710	UTED 4720		
	UTED 4730					
<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>Reasoning Skills</b> (4 hours)</p>	Complete the courses listed below. Please note that CHEM 4001 is a required major course and MATH 1330 is part of the auxiliary requirements.					
	MATH 1330		CHEM 4001			
<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. Biochemistry – Secondary Education students can count some of the hours</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 HUM 3990.</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 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>	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	SOC 4920
	THTR 1000	THTR 3201	THTR 3202	VA 1010	VA 1020	WEST 2030
	WEST 2040	WEST 3020	WEST 3100	WEST 3550	WEST 4050	WEST 4280

<p>from the auxiliary requirements towards the Natural Science hours.</p> <p>Specific Limitations:          &gt; No more than two courses from any one discipline may be applied to the area requirements.          &gt; Courses in the primary major may not be applied to area requirements.          &gt; Courses may not be taken pass/fail.</p>	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
	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	<b>PSY 1000</b>	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	
	<b>NATURAL SCIENCE</b> – Complete GEOL 1010 and PES 1050 or PES 1060.					
	GEOL 1010	PES 1050	PES 1060			
	<p><b>Oral Communication, Cultural Diversity, and Global Awareness Requirements</b></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 increases 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>	<b>ORAL COMMUNICATION</b> – Complete UTED 3020 which is part of the required education courses.				
UTED 3020						
<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 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*	
<b>GLOBAL AWARENESS</b> – 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*					
<b>Compass Curriculum</b> (9 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 – BA Biochemistry – Secondary Education Option

The following four-year plan lists all the specific course requirements for the Bachelor of Arts in Biochemistry 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.

### Suggested First Year

FALL			SPRING		
√	Course	Hours	√	Course	Hours
	ENGL 1310	3		ENGL 1410	3
	CHEM 1401/1402	5		CHEM 1511/1513	5
	GPS 1010	3		MATH 1330	4
	UTED 1010	1		PHIL 1000, 1020, or 1120	3
	Explore – Arts, Humanities & Cultures Course	3		UTED 1020	1
	Explore – Society, Behavior & Health Course	3			
	<b>TOTAL</b>	<b>18</b>		<b>TOTAL</b>	<b>16</b>

### Suggested Second Year

FALL			SPRING		
√	Course	Hours	√	Course	Hours
	CHEM 3201/3203	5		CHEM 3211/3213	5
	PES 1110/1160	5		PES 1120/2160	5
	UTED 2010	3		PSY 1000	3
	Social Science Elective	3		UTED 3020	3
	<b>TOTAL</b>	<b>16</b>		<b>TOTAL</b>	<b>16</b>

### Suggested Third Year

FALL			SPRING		
√	Course	Hours	√	Course	Hours
	CHEM 4001/4002	4		CHEM 4901	1
	UTLS 3040 (Fall Only)	3		GEOL 1010	4
	HUM 3990	3		UTLS 3030 (Spring Only)	3
	PES 1050 or PES 1060	3		UTED 4710	3
	Upper Division (UD) CHEM Elective	3		BIOL 1350/1360	4
	<b>TOTAL</b>	<b>16</b>		<b>TOTAL</b>	<b>15</b>

### Suggested Fourth Year

FALL			SPRING		
√	Course	Hours	√	Course	Hours
	CHEM 4211	3		UTED 4730	12
	CHEM 4701	3			
	UTED 4720	3			
	Social Science Elective	3			
	Humanities Elective	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.