

## Biochemistry (BS)

This Associate of Science degree is designed for PPCC students who want to transfer to UCCS and complete a Bachelor of Science degree with a major in Biochemistry. It is based on the [best academic advising choices](#) for future UCCS students.

To earn the Associate of Science Degree, students must complete the following course requirements for a total of 60 semester credit hours, at least 35 of which must be Colorado State-Guaranteed Courses. Courses taken at other colleges, AP, IB, CLEP, and other sources of credit may not be applicable upon transfer to UCCS even if applied to the associate's degree at PPCC.

To transfer to UCCS, students should have a cumulative GPA of 2.4 or better, *including all remedial and repeated courses*. (Students with a transfer GPA between 2.0 and 2.39 will be considered for admission.) Each transfer course must have a grade of "C" or better.

| Degree Requirements  | Courses  |  |         |         |         |          |
|--|--|--|---------|---------|---------|----------|
| <b>Communication</b><br>(6 credit hours)   | ENG 121  | <i>Note: Students who test into ENG 122, should take ENG 201 as their second composition course.</i> |         |         |         |          |
|  | ENG 122  |  |         |         |         |          |
| <b>Mathematics</b><br>(5 credit hours)   | <b>Category GT-MA1</b>   |  |         |         |         |          |
|  | <b>MAT 201</b>   |  |         |         |         |          |
| <b>Arts &amp; Humanities/Social &amp; Behavioral Sciences</b><br>(15 credit hours)<br><br>Select two courses from two different GT-AH areas.                           | <b>Category GT-AH1</b>   |  |         |         |         |          |
|  | ART 110  | ART 111  | ART 112 | ART 207 | DAN 125 | MUS 120  |
|  | MUS 121  | MUS 122  | MUS 123 | MUS 125 | THE 105 | THE 108  |
|  | THE 211  | THE 212  | THE 215 |         |         |          |
|  | <b>Category GT-AH2</b>   |  |         |         |         |          |
|  | HUM 103  | HUM 115  | HUM 121 | HUM 122 | HUM 123 | LIT 115  |
|  | LIT 201  | LIT 202  | LIT 205 | LIT 211 | LIT 212 | LIT 221  |
|  | LIT 222  | LIT 225  | LIT 246 | LIT 259 | LIT 268 |          |
|  | <b>Category GT-AH3</b>   |  |         |         |         |          |
|  | PHI 111  | PHI 112  | PHI 113 | PHI 114 | PHI 214 | PHIL 218 |
|  | PHI 220  |  |         |         |         |          |
|  | <b>Category GT-AH4</b>   |  |         |         |         |          |
|  | FRE 211  | FRE 212  | GER 211 | GER 212 | ITA 211 | ITA 212  |
|  | JPN 211  | JPN 212  | RUS 211 | RUS 212 | SPA 211 | SPA 212  |
|  | 2. Select one GT-HI course. Do not take more than one GT-HI course for the AS. | <b>Category GT-HI1</b>   |         |         |         |          |
| HIS 101  |  | HIS 102  | HIS 111 | HIS 112 | HIS 121 | HIS 122  |
| HIS 205  |  | HIS 207  | HIS 208 | HIS 215 | HIS 225 | HIS 235  |
| HIS 236  |  | HIS 243  | HIS 244 | HIS 247 | HIS 249 | HIS 250  |
| HIS 251  |  | HIS 255  | HIS 260 |         |         |          |
| 3. Select two courses from at least two different GT-SS areas. <b>ANT 101, GEO 105 or GEO 106 are preferred options to fulfill this requirement for UCCS students.</b> | <b>Category GT-SS1</b>   |  |         |         |         |          |
|  | AGE 102  | ECO 101  | ECO 201 | ECO 202 | ECO 245 | POS 105  |
|  | POS 111  | POS 125  | POS 205 | POS 215 | POS 225 |          |
|  | <b>Category GT-SS2</b>   |  |         |         |         |          |
|  | <b>GEO 105</b>   | <b>GEO 106</b>   |         |         |         |          |
|  | <b>Category GT-SS3</b>   |  |         |         |         |          |
|  | AGR 260  | <b>ANT 101</b>   | ANT 103 | ANT 107 | ANT 108 | ANT 201  |
|  | ANT 215  | ANT 225  | ANT 250 | COM 220 | CRJ 110 | ETH 200  |
|  | JOU 105  | PSY 101  | PSY 102 | PSY 205 | PSY 217 | PSY 226  |
|  | PSY 227  | PSY 235  | PSY 238 | PSY 240 | PSY 249 | SOC 101  |
|  | SOC 102  | SOC 205  | SOC 207 | SOC 215 | SOC 216 | SOC 218  |
|  | SOC 220  | SOC 231  | SOC 237 | WST 200 | WST 225 | WST 240  |



# Best Choices Guide



| Physical and Life Sciences<br>(10 credit hours)  | Category GT-SC1   |         |  |  |   |
|--|-------------------|---------|--|--|---|
|  | CHE 111           | CHE 112 |  |  |   |
| Additional Requirements<br>24 credits recommended by<br>UCCS for this degree plus<br>remaining courses from the<br>approved course list. | BIO 111           |         |  |  | 5 |
|  | CHE 211           |         |  |  | 5 |
|  | CHE 212           |         |  |  | 5 |
|  | COM 125           |         |  |  | 3 |
|  | General Electives |         |  |  | 6 |

**NOTE:** Courses in italics will count towards the UCCS Writing Intensive Requirement.

### Other AA Requirements

1. A minimum of 60 credit hours in a prescribed program of study with a cumulative grade point average of 2.0 (a C average). At least 15 of these credit hours must be earned from PPCC.
2. Only 6 elective credits are allowed in any combination of PED courses.
3. Career and technical courses, whether taken at another institution or at PPCC, are not accepted toward this degree without approval of the PPCC Vice President for Instructional Services. Approval is given only when it is appropriate to the educational objectives of the student.
4. Courses numbered below 100 do not apply towards degrees

### State-Wide Articulation Agreement

This guide is based on the Colorado state-wide transfer articulation for your major. For additional information regarding guarantees, limitations, and addendums to that agreement please visit the Guaranteed Transfer and Guided Pathways page on the Colorado Department of Higher Education website ([higherred.colorado.gov/Academics/Transfers/Students.html](http://higherred.colorado.gov/Academics/Transfers/Students.html)).

### Foreign Language Note – UCCS

UCCS admission requirements include 2 years of the same high school foreign language (or equivalent 2 semesters at Pikes Peak Community College). Students planning to attend UCCS who do not have the prerequisite foreign language requirement should consider enrolling in these courses in addition to the degree requirements. Students who do not meet this requirement will need to fulfill it upon transferring to UCCS. This admission requirement does not apply to those who graduated from high school prior to 1988, who have a GED, who graduated from a non-U.S. high school, or who can prove proficiency in a foreign language through the 2<sup>nd</sup> semester at college level. **Please check with the Transfer Advisor ([ppcc@uccs.edu](mailto:ppcc@uccs.edu)) to see if this requirement applies to you.**

### Advising at PPCC

(719) 502-3232 – [advising@ppcc.edu](mailto:advising@ppcc.edu)

### Additional Resources

The UCCS transfer website ([www.uccs.edu/transfer](http://www.uccs.edu/transfer)) has many additional resources for students transferring from PPCC to UCCS.



# Best Choices Guide



## Four-Year Degree Plan - Biochemistry

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

| <b>Suggested First Year</b>  |  |           |        |   |           |
|------------------------------|--|-----------|--------|---|-----------|
| FALL                         |  |           | SPRING |   |           |
| √                            | Course                                     | Hours     | √      | Course  | Hours     |
|                              | ENG 121                                    | 3         |        | ENG 122   | 3         |
|                              | CHE 111                                    | 5         |        | CHE 112   | 5         |
|                              | GT-HI course                               | 3         |        | MAT 201   | 5         |
|                              | GT-AH course                               | 3         |        | GT-SS course from: GEO 105, GEO 106, or ANT 101   | 3         |
|                              | <b>TOTAL</b>                               | <b>14</b> |        | <b>TOTAL</b>                                      | <b>16</b> |
| <b>Suggested Second Year</b> |  |           |        |   |           |
| FALL                         |  |           | SPRING |   |           |
| √                            | Course                                     | Hours     | √      | Course  | Hours     |
|                              | CHE 211                                    | 5         |        | CHE 212   | 5         |
|                              | BIO 111                                    | 5         |        | COM 125   | 3         |
|                              | General Elective                           | 3         |        | GT-SS course                                      | 3         |
|                              | GT-AH course                               | 3         |        | General Elective                                  | 3         |
|                              | <b>TOTAL</b>                               | <b>16</b> |        | <b>TOTAL</b>                                      | <b>14</b> |
| <b>Suggested Third Year</b>  |  |           |        |   |           |
| FALL                         |  |           | SPRING |   |           |
| √                            | Course                                     | Hours     | √      | Course  | Hours     |
|                              | CHEM 4001/4002                             | 4         |        | CHEM 4222   | 3         |
|                              | CHEM 4221                                  | 3         |        | CHEM 4231   | 3         |
|                              | HUM 3990                                   | 3         |        | CHEM 4241   | 3         |
|                              | PES 1110/1160                              | 5         |        | CHEM 4701   | 3         |
|                              |  |           |        | PES 1120/2160                                     | 5         |
|                              | <b>TOTAL</b>                               | <b>15</b> |        | <b>TOTAL</b>                                      | <b>17</b> |
| <b>Suggested Fourth Year</b> |  |           |        |   |           |
| FALL                         |  |           | SPRING |   |           |
| √                            | Course                                     | Hours     | √      | Course  | Hours     |
|                              | CHEM 4232                                  | 3         |        | CHEM 4921   | 3         |
|                              | CHEM 4251                                  | 3         |        | UD CHEM Elective                                  | 3         |
|                              | UD (Upper-Division) CHEM Elective          | 4         |        | UD General Elective ( <i>Inclusiveness</i> )      | 3         |
|                              | UD CHEM Elective                           | 3         |        | UD General Elective ( <i>Cultural Diversity</i> ) | 3         |
|                              | General Elective ( <i>Sustainability</i> ) | 3         |        |   |           |
|                              | <b>TOTAL</b>                               | <b>16</b> |        | <b>TOTAL</b>                                      | <b>12</b> |

### UCCS Bachelor of Arts, BS Biochemistry Major Requirements

1. 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 300-499).
2. The BS Biochemistry major requires a minimum of 48 hours with a grade point average of 2.0; a grade of "C " or higher must be attained in all required courses; and at least 38 of the hours must be at the upper-division level (courses numbered 3000-4999)
3. The last 30 hours of the degree must be completed while registered in the College of Letters, Arts and Sciences at UCCS.
4. In addition to the requirements listed on this handout, students are required to complete one course in Oral Communication, Cultural Diversity and Global Awareness. The courses may be within the major, part of general education or electives. BA Biochemistry majors will have met the Global Awareness requirement by completing one course from ANT 101, GEO 105 or GEO 106 at the community college. The Oral Communication requirement will be met by taking CHEM 4921, a required major course, at UCCS. The Cultural Diversity requirement will be met by taking an approved course as a general elective at UCCS.
5. For specific department information and recommendations, please visit: <http://www.uccs.edu/chemistry>.

Prospective Student Advising: Transfer Advisor ([ppcc@uccs.edu](mailto:ppcc@uccs.edu))