

Best Choices Guide

Mathematics (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 Mathematics. 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 of Science Degree, students must complete the following course requirements for a total of 60 semester credit hours, at least 34 of which must be Colorado State-Guaranteed Courses. 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.

To transfer to UCCS, students should have a cumulative GPA of 2.0 or better.

| Degree Requirements | Courses | |
|--|---|---|
| Written Communication (6 hours) | <ul style="list-style-type: none"> ENG 121/1021 ENG 122/1022 <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> | |
| Communication (3 hours) | <ul style="list-style-type: none"> COM 125/1250 | |
| Mathematics (5 hours) | <ul style="list-style-type: none"> MAT 201/2410 | |
| Arts & Humanities (9 hours) | <ul style="list-style-type: none"> Complete three GT-AH courses (GT-AH1) (GT-AH2) (GT-AH3) (GT-AH4) | |
| History (3 hours) | <ul style="list-style-type: none"> Complete on GT-HI1 course (GT-HI1) (DO NOT take more than one GT-HI course for this AS.) | |
| Social & Behavioral Sciences (6 hours) | <ul style="list-style-type: none"> Complete two GT-SS courses (GT-SS1) (GT-SS2) (GT-SS3) <i>Note: These courses are highly recommended: ANT 101/1001, GEO 105/1005 or GEO 106/1006</i> | |
| Physical and Life Sciences (10 hours) | <ul style="list-style-type: none"> PHY 211/2111 PHY 212/2112 | |
| Additional Requirements (18 hours) Courses recommended by UCCS for this degree. | MAT 202/2420 | 5 |
| | MAT 204/2431 | 5 |
| | CSC 119/1019 (prerequisite for CSC 160/1060) | 3 |
| | CSC 160/1060 | 4 |
| | Open Elective | 1 |

Other AA/AS Requirements

- 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 CCCS.
- Career and technical courses, whether taken at another institution or at CCCS, are not accepted toward this degree without approval of the CCCS Vice President for Instructional Services. Approval is given only when it is appropriate to the educational objectives of the student.
- Courses numbered below 100/1000 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 (higher.ed.colorado.gov/Academics/Transfers/Students.html).

Language other than English - UCCS

Beginning fall 2023, the College of Letters, Arts and Sciences at UCCS requires all students to meet a language requirement equivalent to two semesters of beginner-level instruction in a language other than English before graduation. Students will have fulfilled the requirement upon admission by having completed any of the following equivalents to the first two semesters of language courses (1010/1020) at UCCS: two years of the same world language in high school; AP, IB, or CLEP scores; or completion of a World Language course 1012 or higher in the Colorado Community College System. Students who graduated from high school prior to 1993 and veteran and active duty military students in specific situations will be exempt. Students may test out of all or part of the requirement by taking a placement exam at UCCS. **Please contact a Transfer Advisor (transfer@uccs.edu) with questions.**

Additional Resources

The UCCS transfer website (www.uccs.edu/transfer) has many additional resources for students transferring from CCCS to UCCS.

Best Choices Guide

Four-Year Degree Plan - Mathematics

The following four-year plan lists all the specific course requirements for the Bachelor of Science in Mathematics 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 121/1021 | 3 | | ENG 122/1022 | 3 |
| | MAT 201/2410 | 5 | | MAT 202/2420 | 5 |
| | CSC 119/1019 | 3 | | CSC 160/1060 | 4 |
| | GT-AH course | 3 | | GT-AH course | 3 |
| | GT-SS course | 3 | | | |
| | TOTAL | 17 | | TOTAL | 15 |

Suggested Second Year

| FALL | | | SPRING | | |
|------|---|-----------|--------|--------------|-----------|
| ✓ | Course | Hours | ✓ | Course | Hours |
| | MAT 204/2431 | 5 | | COM 125/1250 | 3 |
| | PHY 211/2111 | 5 | | PHY 212/2112 | 5 |
| | General Elective | 1 | | GT-AH course | 3 |
| | GT-SS course (<i>see recommendations above</i>) | 3 | | GT-HI course | 3 |
| | TOTAL | 14 | | TOTAL | 14 |

Suggested Third Year

| FALL | | | SPRING | | |
|------|---|-----------|--------|--|-----------|
| ✓ | Course | Hours | ✓ | Course | Hours |
| | MATH 2150 | 3 | | MATH 3110 | 3 |
| | MATH 3130 | 3 | | MATH 3400 | 3 |
| | MATH 3810 | 3 | | MATH 3410 | 3 |
| | General Elective (<i>Writing Intensive</i>) | 3 | | Social Science Elective (<i>Inclusiveness</i>) | 3 |
| | CS 1120 (<i>Applied Math Option only</i>) or General Elective | 3 | | General Elective | 3 |
| | TOTAL | 15 | | TOTAL | 15 |

Suggested Fourth Year

| FALL | | | SPRING | | |
|------|---|-----------|--------|---|-----------|
| ✓ | Course | Hours | ✓ | Course | Hours |
| | MATH 4040 (<i>Oral Communication</i>) | 1 | | UD MATH Option Course | 3 |
| | Upper-Division (UD) MATH Option Course | 3 | | UD MATH Option Course | 3 |
| | UD MATH Option Course | 3 | | UD General Elective | 3 |
| | UD MATH Option Course | 3 | | UD General Elective | 3 |
| | HUM 3990 | 3 | | UD General Elective (<i>Sustainability</i>) | 2 |
| | UD General Elective (<i>Cultural Diversity</i>) | 3 | | | |
| | TOTAL | 16 | | TOTAL | 14 |

UCCS Bachelor of Arts, Mathematics 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 Mathematics major requires a minimum of 47 hours with a grade point average of 2.0, and at least 31 of the hours must be at the upper-division level (courses numbered 3000-4999).
- The last 30 hours of the degree must be completed while registered in the College of Letters, Arts and Sciences at UCCS.
- 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. Mathematics majors will have met the Global Awareness requirement by completing one course from ANT 101/1001, GEO 105/1005 or GEO 106/1006 at the community college.

Prospective Student Advising: Transfer Advisor (transfer@uccs.edu)