

## Mathematics (BS)

This Associate of Arts degree is designed for PCC 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.

To earn the Associate of Arts 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 PCC.

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> (9 credit hours)	ENG 121	<i>Note: Students who test into ENG 122, should take ENG 201 as their second composition course.</i>				
	ENG 122					
	COM 125					
<b>Mathematics</b> (5 credit hours)	<b>Category GT-MA1</b>					
	<b>MAT 201</b>					
<b>Arts &amp; Humanities/Social &amp; Behavioral Sciences</b> (18 credit hours)  1. Select three courses from at least two different GT-AH areas.  2. Select one GT-HI course. <b>Do not take more than one GT-HI course for the AA.</b>  3. Select two courses from two different GT-SS areas.  <b>ANT 101, GEO 105 or GEO 106 are preferred options to fulfill part of this requirement for UCCS students.</b>	<b>Category GT-AH1</b>					
	ART 110	ART 111	ART 112	ART 207	MUS 120	MUS 122
	MUS 125	THE 105	THE 211	THE 212		
	<b>Category GT-AH2</b>					
	HUM 115	HUM 121	LIT 115	LIT 201	LIT 202	LIT 205
	LIT 211	LIT 212	LIT 246			
	<b>Category GT-AH3</b>					
	PHI 111	PHI 112	PHI 113	PHI 114	PHI 115	PHI 214
	PHI 218	PHI 220				
	<b>Category GT-AH4</b>					
	FRE 211	FRE 212	GER 211	GER212	ITA 211	ITA 212
	SPA 211	SPA 212				
	<b>Category GT-HI1</b>					
	HIS 101	HIS 102	HIS 111	HIS 112	HIS 121	HIS 122
	HIS 225	HIS 244	HIS 247			
	<b>Category GT-SS1</b>					
ECO 201	ECO 202	ECO 245	POS 105	POS 111	POS 125	
<b>Category GT-SS2</b>						
<b>GEO 105</b>	<b>GEO 106</b>					
<b>Category GT-SS3</b>						
<b>ANT 101</b>	ANT 107	ANT 215	COM 220	ETH 200	PSY 101	
PSY 102	PSY 205	PSY 217	PSY 226	PSY 227	PSY 235	
PSY 238	PSY 240	PSY 249	PSY 265	SOC 101	SOC 102	
SOC 205	SOC 215	SOC 216	SOC 218	SOC 231	SOC 237	
WST 200						

<b>Physical and Life Sciences</b> (10 credit hours) Complete PHY 211 and PHY 212.	<b>Category GT-SC1</b>					
	<b>PHY 211</b>	<b>PHY 212</b>				
<b>Additional Requirements</b> 18 credits recommended by UCCS for this degree plus remaining courses from the approved course list.						
	MAT 202					5
	MAT 203 or 204 (MAT 204 is recommended for UCCS students)					5
	CSC 160					4
	Open Electives (CSC 161 is recommended for UCCS students)					4

### Secondary Area of Study

All BS in Mathematics students at UCCS must complete a secondary area of study. Depending on which secondary area you choose, your degree program may differ from that of this guide. Please see a Recruitment Counselor at UCCS to determine your best course of action. Secondary Area options are as follows:

- Actuarial Science (see counselor)
- Biology
- Chemistry
- Computer Science
- Electrical Engineering
- Economics
- Mechanical & Aerospace Engineering
- Physics
- Psychology
- System Science & Engineering (see counselor)

### 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 PCC.
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 PCC, are not accepted toward this degree without approval of the vice president for educational 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 ([higher.ed.colorado.gov/Academics/Transfers/Students.html](http://higher.ed.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 the 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. 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 ([transfer@uccs.edu](mailto:transfer@uccs.edu)) to see if this requirement applies to you.**

### Advising at PCC

(719) 549-3177

### Additional Resources

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

## 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	3		ENG 122	3
	MAT 201	5		MAT 202	5
	GT-AH course	3		CSC 160	4
	GT-SS course	3		GT-AH course	3
		<b>TOTAL</b>			<b>TOTAL</b>
		14			15

### Suggested Second Year

FALL			SPRING		
√	Course	Hours	√	Course	Hours
	MAT 204	5		GT-HI course	3
	PHY 211	5		PHY 212	5
	General Electives – (CSC 161)	4		COM 125	3
	GT-SS course	3		GT-AH course	3
		<b>TOTAL</b>			<b>TOTAL</b>
		17			14

### Suggested Third Year

FALL			SPRING		
√	Course	Hours	√	Course	Hours
	MATH 2150	3		MATH 3400	3
	MATH 3100 or 3810	3		PHIL 3420	3
	MATH 3130	3		Secondary Area courses	6
	Upper-Division Math Elective	3		Upper-Division Secondary Area course	3
	Secondary Area course	3			
		<b>TOTAL</b>			<b>TOTAL</b>
		15			15

### Suggested Fourth Year

FALL			SPRING		
√	Course	Hours	√	Course	Hours
	MATH 4310	3		MATH Restricted Elective	3
	MATH 4650 or CS 4600	3		MATH 4480 or 4850	3
	Upper-Division Secondary Area course	3		MATH 4040	1
	HUM 3990	3		Upper-Division Secondary Area course	3
	Upper-Division Math Elective	3		MATH Restricted Elective	3
				General Electives	2
		<b>TOTAL</b>			<b>TOTAL</b>
		15			15

### UCCS Bachelor of Science, Mathematics 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 3000-4999).
2. The Mathematics major requires a minimum of 43 hours with a grade point average of 2.0, and at least 28 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. Mathematics majors will have met the Global Awareness requirements by completing one course from ANT 101, GEO 105 or GEO 106 at the community college and Oral Communication by taking MATH 4040 at UCCS. The Cultural Diversity requirement will be met by taking an approved general elective course at UCCS.
5. For specific department information on Secondary Areas and recommendations, please visit [www.uccs.edu/math](http://www.uccs.edu/math).

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