

## Mathematics · Associate of Science

Mathematics is more than the study of counting and measurement – it is also the study of shapes and motion. Mathematicians look for patterns and use them to design new theories, new models, and even predictions about nature. This program introduces students to Mathematics and it includes courses that are common to all four-year institutions in Colorado.

### Career Information

Career paths in mathematics include finance, engineering, computer science, coding, accounting, statistics, and research. The Associate of Science (AS) degree in Mathematics prepares students to complete the second half of a Bachelor of Science (B.S.) or a Bachelor of Arts (B.A.) in Mathematics at a four-year university.

**Course Map. Where students have options, recommended courses appear (in brackets).**

Fall 1/ First Semester ~15 credit hours	
ENG 121 MAT 201 Social and Behavioral Science (PSY 101 or 102, SOC 101 or 102, ECO 201 or 202) Arts and Humanities (PHI 111 or 112, THE 105, HUM 115, 121 or 122) Elective (HUM 117)*	<b>Milestones:</b> Complete MAT 201 and one ENG course with C or higher Maintain at least 2.0 GPA
Spring 1/ Second Semester ~15 credit hours	
ENG 122 MAT 202 CSC 160 Arts and Humanities (PHI 113 or 112, THE 105, HUM 115, 121, or 122)	<b>Milestones:</b> Complete all ENG and MAT 202 with C or higher Maintain at least 2.0 GPA Complete scholarship applications early! Start visiting Transfer schools
Fall 2/ Third Semester ~15 credit hours	
MAT 203 or 204* PHY 211 History (HIS 101, 102, 111, 112, 121, or 122) COM 115 or 125	<b>Milestones:</b> Submit Graduation Planning Sheet! Apply for admission at Transfer school(s) Maintain at least 2.0 GPA
Spring 2/ Final Semester ~15 credit hours	
PHY 212 Arts and Humanities (ART 110, 111 or 112 or MUS 120, 121, or 122) Social and Behavioral Science ( PSY 101 or 102, SOC 101 or 102, ECO 201 or 202) Elective (MAT 255 or 261)*	<b>Milestones:</b> Maintain at least 2.0 GPA Complete scholarship applications early! Reach out to department chair/faculty advisor at Transfer school

\*If a student takes MAT 204 **AND** MAT 261, then the elective (HUM 117) is not needed.

**Mathematics**  
**Associate of Science**

Valid for school year  
2018/2019

Sample Schedules (recommended requirements and electives used as an example)

Full time 2 years

<b>Fall 2016</b>	<b>Credits 14</b>	<b>Spring 2017</b>	<b>Credits 15</b>
ENG 121 MAT 201 PSY 101 PHI 111	3 5 3 3	ENG 122 MAT 202 CSC 160 PHI 113	3 5 4 3
<b>Fall 2017</b>	<b>Credits 16</b>	<b>Spring 2018</b>	<b>Credits 15</b>
MAT 204 PHY 211 COM 125 HIS 121	5 5 3 3	PHY 212 ECO 201 MAT 261 ART 110	5 3 4 3

Part time 3 years (requires summer semesters)

<b>Fall 1</b>	<b>Credits 8</b>	<b>Spring 1</b>	<b>Credits 8</b>	<b>Summer 1</b>	<b>Credits 6</b>
ENG 121 MAT 201	3 5	ENG 122 MAT 202	3 5	PHI 111 PSY 101	3 3
<b>Fall 2</b>	<b>Credits 8</b>	<b>Spring 2</b>	<b>Credits 8</b>	<b>Summer 2</b>	<b>Credits 6</b>
PHY 211 ART 110	5 3	PHY 212 ECO 201	5 3	COM 125 HIS 121	3 3
<b>Fall 3</b>	<b>Credits 8</b>	<b>Spring 3</b>	<b>Credits 7</b>	<b>Summer 3</b>	<b>Credits</b>
MAT 204 PHI 113	5 3	MAT 261 CSC 160	4 3		

**Degree Transfer**

This degree transfers to the following Colorado Public Four-Year institutions of higher education:

- University of Colorado, Boulder (B.A. Mathematics)
- University of Colorado, Denver (B.S. Mathematics)
- University of Colorado, Colorado Springs (B.A. Mathematics; B.S. Mathematics)
- Adams State University (B.A. Mathematics)
- Colorado Mesa University (B.S. Mathematics; Mathematics, Secondary Education, or Statistics concentrations)
- Colorado State University-Fort Collins (B.S. Mathematics)
- Colorado State University-Pueblo (B.A. Mathematics; B.S. Mathematics)
- Fort Lewis College (B.A. Mathematics; Mathematics option)
- Metropolitan State University of Denver (B.A. Mathematics)
- University of Northern Colorado (B.S. Mathematics; Applied Mathematical Sciences or Liberal Arts emphasis)
- Western State Colorado University (B.A. Mathematics)