

## Math Pathway by Degree

\*Depending on [Placement Scores](#) or [Math Diagnostic Assessment](#) results, students may also be required to complete *Foundational Knowledge Courses* that are not part of the degree.

### Associate in Arts (AA)

Math requirements vary by area of emphasis. Visit CGCC's [Degree & Certificates](#) or speak with an advisor for details.

**Option 1:**

<p><b>Foundation Courses If Required by Placement</b></p> <ul style="list-style-type: none"> <li>• <b>MAT055:</b> 1 credit 5-weeks long</li> </ul>
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Course Sequence	Coursework	Course Name	Credits
1	<b>MAT141/142</b>	College Math	4 or 3 credits

**Option 2:**

<p><b>Foundation Courses If Required by Placement</b></p> <ul style="list-style-type: none"> <li>• <b>MAT055, 056, 057 Modules</b> 1 credit and 5-weeks long each. May take up to 3modules per semester</li> <li>• <b>MAT121 Intermediate Algebra</b> 4 credits</li> </ul>
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Course Sequence	Coursework	Course Name	Credits
1	<b>MAT151</b>	College Algebra	4 credits
2	<b>MAT187</b>	Pre-Calculus	5 credits

**Required by some Social Science Degrees ONLY**

Course Sequence	Coursework	Course Name	Credits
3	<b>MAT206</b>	Elements of Statistics	3 credits

## Associate in Arts, Elementary Education (AAEE)

Math requirements vary by area of emphasis. Visit CGCC's [Degree & Certificates](#) or speak with an advisor for details.

### Option 1:

#### **Foundation Courses If Required by Placement**

- **MAT055, 056, 057 Modules**  
1 credit and 5-weeks long each.  
May take up to 3modules per semester
- **MAT121 Intermediate Algebra**  
4 credits

Course Sequence	Coursework	Course Name	Credits
1	MAT141/142	College Algebra	3 or 4 credits
2	MAT256	Math for Elementary Teachers I	4 credits
3	MAT257	Math for Elementary Teachers II	4 credits

### Option 2:

#### **Foundation Courses If Required by Placement**

- **MAT055, 056, 057 Modules**  
1 credit and 5-weeks long each.  
May take up to 3modules per semester
- **MAT121 Intermediate Algebra**  
4 credits

Course Sequence	Coursework	Course Name	Credits
1	MAT151	College Algebra	4 credits
2	MAT256	Math for Elementary Teachers I	4 credits
3	MAT257	Math for Elementary Teachers II	4 credits

## Associate in Business (ABUS)

Math requirements vary by area of emphasis. Visit CGCC's [Degree & Certificates](#) or speak with an advisor for details.

### **Foundation Courses If Required by Placement**

- **MAT055, 056, 057 Modules**  
1 credit and 5-weeks long each.  
May take up to 3 modules per semester
- **MAT121 Intermediate Algebra**  
4 credits

Course Sequence	Coursework	Course Name	Credits
1	<b>MAT151</b>	College Algebra	4 credits
2	<b>MAT213</b>	Brief Calculus	4 credits
3	<b>MAT217</b>	Math Analysis for Business	4 credits
4	<b>GBS221</b>	Business Statistics	3 credits

### **Required by some Business Degrees ONLY**

Course Sequence	Coursework	Course Name	Credits
5	<b>MAT206</b>	Elements of Statistics	3 credits

## Associate in Science (AS)

Math requirements vary by area of emphasis. Visit CGCC's [Degree & Certificates](#) or speak with an advisor for details.

Foundation Courses If Required by Placement
<ul style="list-style-type: none"> <li>• <b>MAT055, 056, 057 Modules</b> 1 credit and 5-weeks long each. May take up to 3 modules per semester</li> <li>• <b>MAT121 Intermediate Algebra</b> 4 credits</li> </ul>

Course Sequence	Coursework	Course Name	Credits
1	<b>MAT151</b>	College Algebra	4 credits
2	<b>MAT187</b>	Precalculus	5 credits
3	<b>MAT220/221</b>	Calculus I	5 or 4 credits
4	<b>MAT230/231</b>	Calculus II	5 or 4 credits
5	<b>MAT240/241</b>	Calculus III	5 or 4 credits

### Post-Calculus I Options

\*Upon completing MAT220/221 Calculus I with C grade or better, students may take the following courses depending on their degree emphasis.

Course Number	Course Name	Credits
<b>MAT225, or</b>	Linear Algebra	3 credits
<b>MAT227</b>	Discrete Math	3 credits

### Post-Calculus II Options

\*Upon completing MAT230/231 Calculus II with C grade or better students may progress to these courses.

Course Number	Course Name	Credits
<b>MAT276</b>	Differential Equations	4 credits

## Bachelor in Artificial Intelligence and Machine Learning

Math requirements vary by area of emphasis. Visit CGCC's [Degree & Certificates](#) or speak with an advisor for details.

**Foundation Courses  
If Required by Placement**

- **MAT055, 056, 057 Modules**  
1 credit and 5-weeks long each.  
May take up to 3modules per semester
- **MAT121 Intermediate Algebra**  
4 credits

Course Sequence	Coursework	Course Name	Credits
	<b>MAT151</b> (as pre-req to MAT206 and MAT220/221)	College Algebra	4 credits
	<b>MAT187</b> (as pre-req to MAT220/221)	Precalculus	5 credits
<b>1</b>	<b>MAT206</b>	Elements of Statistics	3 credits
<b>2</b>	<b>MAT220/221</b>	Calculus I	5 or 4 credits
<b>3</b>	<b>MAT230/231</b>	Calculus II	5 or 4 credits
<b>4</b>	<b>MAT225</b>	Elementary Linear Algebra	1 credit
<b>5</b>	<b>MAT227</b>	Discrete Mathematical Structures	3 credits
<b>6</b>	<b>BAM/MAT305</b>	Mathematics for Machine Learning	3 credits

### MAT Electives for the Bachelor of Artificial Intelligence and Machine Learning

\*Upon completing MAT230/231 Calculus II with a C grade or better, students can meet MAT electives by taking:

Course Number	Course Name	Credits
<b>MAT 240/241, or</b>	Calculus with Analytic Geometry III	4 or 5 credits
<b>MAT 276</b>	Modern Differential Equations	4 credits