Which MATH class should I take?

**STEP 1: Determine your required Pathway.**
Your Pathway is determined by your required Essential Learning math course. Use the chart below as a guide or speak to an advisor or check your DegreeWorks.

**STEP 2: Determine your readiness – take ALEKS!**
Once you complete the ALEKS Placement Assessment, you can practice in the ALEKS Learning Modules and then retake ALEKS.

**STEP 3: Follow your Pathway to your course.**
Use your ALEKS Placement Assessment score to locate the course in your pathway that you are most ready to take.

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I plan to major in Elementary Education or get a bachelor’s degree in Early Childhood Education. **YES!**

**Elementary Education Track**
[MATH 205]

**Calculus Track**
[MATH 151/135]

**Algebra Track**
[MATH 113]

**Quantitative Reasoning Track**
[MATH 110]

**ALEKS**

<table>
<thead>
<tr>
<th>COURSE</th>
<th>0-18</th>
<th>19+</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATC 090</td>
<td>MATH 110</td>
<td></td>
</tr>
<tr>
<td>MATC 092</td>
<td>MATH 113</td>
<td></td>
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<tr>
<td>MATH 119A</td>
<td></td>
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<tr>
<td>MATH 119</td>
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<tr>
<td>MATH 130</td>
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<tr>
<td>MATH 131</td>
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<tr>
<td>MATH 135</td>
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<td></td>
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<tr>
<td>NA</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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My major requires Calculus I (MATH 151) or Engineering Calculus I (MATH 135). **YES!**

The degree for my major is a Bachelor of Science (BS), Bachelor of Business Administration (BBA), Bachelor of Science in Nursing (BSN)**, or Bachelor of Science in Radiologic Sciences (BSRS)**. (Some AS and BAS programs not listed.) **YES!**

My degree is a Bachelor of Arts, or my major is in one of the following departments: Art; Theater; Music; Languages, Literature, and Mass Communication; or Social and Behavioral Sciences. (Some Health Science and WCCC programs not listed.) **YES!**

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**Go to https://www.coloradomesa.edu/math-stat/math-placement.html** for more detailed information on the pathway for your major.
Quantitative Reasoning Track - MATH 110

- Art and Theater/Dance Programs
  - Art History (BA)
  - Art: K-12 Education (BA)
  - Studio Art (BA)
  - Art: Studio Art (BFA)
  - Dance (BFA)
- Graphic Design: Visual Design (BFA)
- Animtn, Film, Photo & Mot Dsn (BFA)
- Theatre Arts: Design/Tech (BFA, BA)
- Theatre Arts: Acting/Directing (BFA)
- Theatre Arts: Music Theatre (BFA)

SBS Programs
- Criminal Justice (BA)
- Criminal Justice (AAS)
- Criminal Justice - POST Academy (BAS)
- History: Secondary Education (BA)
- History (BA)
- Political Science (BA)
- Psychology: Counseling Psych (BA)
- Applied Anthropology and Geog (BA)
- Psychology (BA)
- Social Work (BA)
- Sociology (BA)
- Liberal Arts: Social Science (AA)

Health Sci and Kinesiology Programs
- Nursing: RN to BSN (BSN)
- Nursing: LPN to BSN (BSN)
- Nursing (AAS)
- Practical Nursing (TCT)
- Radiologic Sciences (BAS)
- Kinesiology: Adapted Phys Edu (BA)
- Kinesiology: K-12 Education (BA)

WCCC Programs
- Digital Filmakg: Prod Design (AAS)
- Digital Filmakg: Writing/Direct (AAS)
- Liberal Arts: Early Childdlc Edu (AA)**
- Information and Comm Tech (AAS)
- Agriculture Science (AS)
- Wildland Fire Mngt (MATH 108 req)
- Emerg Med Tech - Paramedic (AAS) (MATH 107 req)

Algebra Track - MATH 113

- Business Programs
  - Business Administration (BBA) with a concentration in:
    - Entrepreneurship, Business Analytics,
    - Business Economics, Energy Mngt/Landmanc
    - Finance, Hospitality Management,
    - Human Resource Management,
    - International Business, Management, Marketing
  - Accounting: General Accounting (BS)
  - Accounting: Public Accounting (BS)
  - Business Administration (BS)
  - Hospitality Management (BAS)
  - Computer Information Systems (BS and BAS)
  - Liberal Arts: Business Administration (AA)
  - Liberal Arts: Business Computer Inform Sys (AA)

Health Sciences Programs
- Surgical Technology (AAS)
- Medical Laboratory Technician (AAS)
- Nursing (BSN)
- Radiologic Sciences (BSRS)

Kinesiology Programs
- Fitness and Health Promotion (BS)
- Exercise Science (BS)
- Sport Management (BS)
- Outdoor Recreation Industry Studies (BS)
- Liberal Arts: Sport Management (AS)

STEM Programs (Bio, PES, Engr)
- Biological Sciences: Biology (BS)
- Biological Sciences: Ecology, Evolution and Organ Bio (BS)**
- Biological Sciences: Secondary Education (BS)
- Geosciences: Secondary Education
- Environmental Science and Technology (BS)**
- Construction Management (BS)
- Liberal Arts: Geology (AS)**
- Liberal Arts: Biology (AS)
- Liberal Arts: Computer Science (AS)**

WCCC
- Land Surveying and Geomatics (TCT)**
- Wildland Fire Management (AAS) (optional, MATH 108 req)
- Fire Science Technology (AAS)

Courses

- MATC 090
- MATC 110
- MATH 110

Courses

- MATH 105
- MATH 205

Courses

- MATH 113
- MATH 113R
- MATH 130
- MATH 131

Courses

- MATH 119
- MATH 119B
- MATH 119

Courses

- MATH 119A

- MATH 151/MATH 135

^ Be sure to verify the required Essential Learning course with DegreeWorks or the relevant program sheet for your major.

** Continuing to the 4-year degree or choosing certain program elective options may require a different pathway/mathematics course.
Essential Learning Math Pathways and Prerequisites for 2022-2023

There are four distinct pathways in mathematics. A student’s pathway is determined by their program of study and additional math courses they intend to take. A student should not enroll in a course that is in a pathway to the left of their own pathway.

**Elem Ed Track [MATH 205]**
For students majoring in Elem Educ or Early Childhood
- MATC 090 2 credits
- MATH 105 Elements of Math. I 3 credits
- MATH 205 Elements of Math. II 3 credits

**Quantitative Reasoning Track [MATH 110]**
For students whose major requires MATH 110 and who do not intend to take additional math courses other than statistics.
- MATC 090 2 credits
- MATH 110 Mathematical Investigations 3 credits
- ALEKS

**Algebra Track [MATH 113]**
For students whose major requires MATH 113 and who do not intend to take Calculus I or Engineering Calculus I. Students who plan to take Applied Calculus should stay in this track.
- MATH 113 College Algebra 4 credits
- ALEKS

**Calculus Track [MATH 151 and MATH 135]**
For students whose major requires Calculus I or Engineering Calculus I. Students required to take MATH 151 or MATH 135 should not enroll in MATH 110 nor MATH 113.
- MATH 119A Algebra for Calculus 4 credits
- MATH 119B Trigonometry for Calculus 3 credits
- MATH 151/135 Calculus I 5 credits/4 credits

Prerequisite Note for students who do not place into MATH 119A:
Students who are near the cutoff should practice and review in ALEKS and then retake the ALEKS Placement Assessment.
Students with lower scores can consider the Bridge course or MATC 092 for practice and review before retaking ALEKS to place into MATH 119A or MATH 119.
# Math Placement 2022-2023

## Elementary Education Track - MATH 205

<table>
<thead>
<tr>
<th>COURSE</th>
<th>ALEKS</th>
<th>SAT</th>
<th>ACT</th>
<th>Accuplacer</th>
<th>GPA Combo</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 105</td>
<td>19+</td>
<td>500+</td>
<td>19+</td>
<td>QRAS 240+</td>
<td>H5 GPA 2.75+ AND [SAT 460-490 or ACT 15-18 or QRAS 220-239]</td>
</tr>
<tr>
<td>MATH 205 (ESL Course)</td>
<td>Prerequisite: MATH 105. Note, the Teacher Education program requires a B or better in MATH 105 and MATH 205.</td>
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<td></td>
<td></td>
</tr>
</tbody>
</table>

Courses in this track will not transfer into the Algebra or Calculus tracks nor will they count as prerequisites for courses in the other tracks.

## Quantitative Reasoning Track - MATH 110

<table>
<thead>
<tr>
<th>COURSE</th>
<th>ALEKS</th>
<th>SAT</th>
<th>ACT</th>
<th>Accuplacer</th>
<th>GPA Combo</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATC 090</td>
<td>0 - 18^</td>
<td>Below 500^</td>
<td>Below 19^</td>
<td>QRAS 200-239^</td>
<td>Use other score(s)</td>
</tr>
<tr>
<td>MATH 110</td>
<td>19+</td>
<td>500+</td>
<td>19+</td>
<td>QRAS 240+</td>
<td>H5 GPA 2.75+ AND [SAT 460-490 or ACT 15-18 or QRAS 220-239]</td>
</tr>
</tbody>
</table>

*For placement below MATH 110 (ALEKS scores below 19), it is recommended that students retake the ALEKS Placement Assessment after completing Learning Modules within ALEKS.

Courses in this track will not transfer into the other tracks nor will they count as prerequisites for courses in the other tracks.

## Algebra Track - MATH 113

<table>
<thead>
<tr>
<th>COURSE</th>
<th>ALEKS</th>
<th>SAT</th>
<th>ACT</th>
<th>Accuplacer</th>
<th>GPA Combo</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bridge Course</td>
<td>0 - 18^</td>
<td>Below 500^</td>
<td>Below 19^</td>
<td>QRAS 200-239^</td>
<td>Use other score(s)</td>
</tr>
<tr>
<td>MATC 092</td>
<td>19 - 45^</td>
<td>500-530^</td>
<td>19-21^</td>
<td>QRAS 240-300^</td>
<td>H5 GPA 2.75+ AND [SAT 460-490 or ACT 15-18 or QRAS 220-239]</td>
</tr>
<tr>
<td>MATH 113R*</td>
<td>Use other score(s)</td>
<td>Use other score(s)</td>
<td>Use other score(s)</td>
<td>Use other score(s)</td>
<td>H5 GPA 3.25+ AND [SAT 500-530 or ACT 19-21 or ALEKS 40-45]</td>
</tr>
<tr>
<td>MATH 113**</td>
<td>46 - 60</td>
<td>540-600</td>
<td>22-23</td>
<td>AAF 245-279</td>
<td>Use other score(s)</td>
</tr>
<tr>
<td>MATH 130 or MATH 131</td>
<td>61 - 75</td>
<td>610-690</td>
<td>24-26</td>
<td>AAF 280-300</td>
<td>Use other score(s)</td>
</tr>
</tbody>
</table>

*For placement below MATH 113 (ALEKS scores below 46), it is recommended that students retake the ALEKS Placement Assessment after completing Learning Modules within ALEKS, or that they enroll in the Bridge Course.

**STEM majors who place into MATH 113/119A and need CHEM 131/151 must take the CHEM placement exam.

## Calculus Track - MATH 151 and MATH 135

<table>
<thead>
<tr>
<th>COURSE</th>
<th>ALEKS</th>
<th>SAT</th>
<th>ACT</th>
<th>Accuplacer</th>
<th>GPA Combo</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bridge Course</td>
<td>0 - 18^</td>
<td>Below 500^</td>
<td>Below 19^</td>
<td>QRAS 200-239^</td>
<td>Use other score(s)</td>
</tr>
<tr>
<td>MATC 092</td>
<td>19 - 45^</td>
<td>500-530^</td>
<td>19-21^</td>
<td>QRAS 240-300^</td>
<td>H5 GPA 2.75+ AND [SAT 460-490 or ACT 15-18 or QRAS 220-239]</td>
</tr>
<tr>
<td>MATH 119A**</td>
<td>46 - 60</td>
<td>540-600</td>
<td>22-23</td>
<td>AAF 245-279</td>
<td>Use other score(s)</td>
</tr>
<tr>
<td>MATH 119***</td>
<td>61 - 75</td>
<td>610-690</td>
<td>24-26</td>
<td>AAF 280-300</td>
<td>Use other score(s)</td>
</tr>
<tr>
<td>MATH 151 or MATH 135***</td>
<td>76 - 100</td>
<td>700+</td>
<td>27+</td>
<td>NA</td>
<td>Use other score(s)</td>
</tr>
</tbody>
</table>

*For placement below MATH 119A (ALEKS scores below 46), it is recommended that students retake the ALEKS Placement Assessment after completing Learning Modules within ALEKS, or that they enroll in the Bridge Course.

**Students taking MATC 092 will need to retake ALEKS after completion of the course in order to place into MATH 119A or MATH 119.

**STEM majors who place into MATH 113/119A and need CHEM 131/151 must take the CHEM placement exam.

***STEM majors who place into MATH 119 or higher via ACT/SAT/ACPL/ALEKS can take CHEM 131/151 without taking the CHEM placement exam.