

# Which **MATH** class should I take?

Just follow these steps...



## 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.

Start Here!

I plan to major in Elementary Education or get a bachelor's degree in Early Childhood Education.

YES!

**Elementary Education Track**  
[MATH 205]

ALEKS	19+	NA
COURSE	MATH 105	MATH 205

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

YES!

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

ALEKS	0-45	46 - 60	61 - 75	76 - 100
COURSE	(retake ALEKS) See Advisor	MATH 119A	MATH 119	MATH 151 MATH 135

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!

**Algebra Track**  
[MATH 113]

ALEKS	19 - 45	46 - 60	61 - 75
COURSE	(retake ALEKS) MATC 092	MATH 113	MATH 130 MATH 131

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!

**Quantitative Reasoning Track**  
[MATH 110]

ALEKS	0-18	19+
COURSE	MATC 090	MATH 110

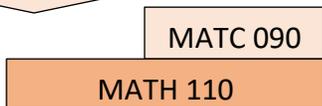
\*\*Go to <https://www.coloradomesa.edu/math-stat/math-placement.html> for more detailed information on the pathway for your major.

## 2022-2023 Essential Learning Math Pathways – By Program^

### Quantitative Reasoning Track - MATH 110

<p><b>Art and Theater/Dance Programs</b></p> <ul style="list-style-type: none"> <li>Art History (BA)</li> <li>Art: K-12 Education (BA)</li> <li>Studio Art (BA)</li> <li>Art: Studio Art (BFA)</li> <li>Dance (BFA)</li> <li>Graphic Design: Visual Design (BFA)</li> <li>Animtn, Film, Photo &amp; Mot Dsn (BFA)</li> <li>Theatre Arts: Design/Tech (BFA, BA)</li> <li>Theatre Arts: Acting/Directing (BFA)</li> <li>Theatre Arts (General) (BA)</li> <li>Theatre Arts: Music Theatre (BFA)</li> </ul> <p><b>Music Programs</b></p> <ul style="list-style-type: none"> <li>Music Perf - Vocal Perf (BM)</li> <li>Music: Liberal Arts (BA)</li> <li>Music Education K-12 (BME)</li> <li>Music: Commercial Music (BA)</li> <li>Music with Elec Studies in Bus (BM)</li> <li>Music Perf - Instrumental Perf (BM)</li> <li>Music Perf - Keyboard Perf (BM)</li> </ul> <p><b>LLMC and General Programs</b></p> <ul style="list-style-type: none"> <li>English: Secondary Education (BA)</li> <li>English (BA)</li> <li>English: Literature (BA)</li> <li>English: Writing (BA)</li> <li>Mass Comm: Med Strat and App (BA)</li> <li>Spanish: Hispanic Studies (BA)</li> <li>Spanish: Secondary Education (BA)</li> <li>Interdisciplinary Studies (BAS)</li> <li>Liberal Arts: General Studies (BA)</li> <li>Liberal Arts: Humanities (AA)</li> <li>Liberal Arts: University Studies (AA)</li> </ul>	<p><b>SBS Programs</b></p> <ul style="list-style-type: none"> <li>Criminal Justice (BA)</li> <li>Criminal Justice (AAS)</li> <li>Criminal Justice - POST Academy (BAS)</li> <li>History: Secondary Education (BA)</li> <li>History (BA)</li> <li>Political Science (BA)</li> <li>Psychology: Counseling Psych (BA)</li> <li>Applied Anthropology and Geog (BA)</li> <li>Psychology (BA)</li> <li>Social Work (BA)</li> <li>Sociology (BA)</li> <li>Liberal Arts: Social Science (AA)</li> </ul> <p><b>Health Sci and Kinesiology Programs</b></p> <ul style="list-style-type: none"> <li>Nursing: RN to BSN (BSN)</li> <li>Nursing: LPN to BSN (BSN)</li> <li>Nursing (AAS)</li> <li>Practical Nursing (TCT)</li> <li>Radiologic Sciences (BAS)</li> <li>Kinesiology: Adapted Phys Educ (BA)</li> <li>Kinesiology: K-12 Education (BA)</li> </ul> <p><b>WCCC Programs</b></p> <ul style="list-style-type: none"> <li>Digital Filmakg: Prod Design (AAS)</li> <li>Digital Filmakg: Writing/Direct (AAS)</li> <li>Liberal Arts: Early Childd Educ (AA)**</li> <li>Information and Comm Tech (AAS)</li> <li>Agriculture Science (AS)</li> <li>Wildland Fire Mngt (MATH 108 req)</li> <li>Emerg Med Tech - Paramedic (AAS) (MATH 107 req)</li> </ul>
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Courses



### Elem Ed Track - MATH 205

<ul style="list-style-type: none"> <li>Liberal Arts, Elem Educ: English</li> <li>Liberal Arts, Elem Educ: Mathematics</li> <li>Liberal Arts, Elem Educ: Social Sci</li> <li>Early Chd Educ: Early Childhd Spcl Educ</li> </ul>	<p style="text-align: center;">Courses</p> <table border="1" style="margin-left: auto; margin-right: auto; text-align: center;"> <tr> <td style="padding: 5px;">MATH 105</td> </tr> <tr> <td style="padding: 5px;">MATH 205</td> </tr> </table>	MATH 105	MATH 205
MATH 105			
MATH 205			

### Algebra Track - MATH 113

**Business Programs**

Business Administration (BBA) with a concentration in:

- Entrepreneurship, Business Analytics,
- Business Economics, Energy Mngt/Landman,
- Finance, Hospitality Management,
- Human Resource Management,
- International Business, Management, Marketing

Accounting: General Accounting (BS)

Accounting: Public Accounting (BS)

Business Administration (BAS)

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)\*\*

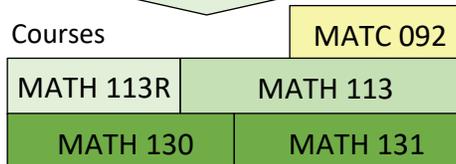
**WCCC**

Land Surveying and Geomatics (TCT)\*\*

Wildland Fire Management (AAS) (optional, MATH 108 req)

Fire Science Technology (AAS)

Courses



### Calculus Track - MATH 151/135

**Engineering Programs**

- Computer Science (BS)
- Mechanical Engineering Technology (BS)
- Mechanical Engineering Technology (AS)
- Pre-Engineering (All CU partnership programs)

**Math and PES Programs**

- Chemistry (BS)
- Chemistry: Biochemistry (BS)
- Geosciences: Environmental Geology (BS)
- Geosciences: Geology (BS)
- Mathematics (BS)
- Mathematics: Actuarial Science (BS)
- Mathematics: Applied Mathematics (BS)
- Mathematics: Secondary Education (BS)
- Mathematics: Statistics (BS)
- Physics (BS)
- Liberal Arts: Physics (AS)
- Liberal Arts: Mathematics (AS)

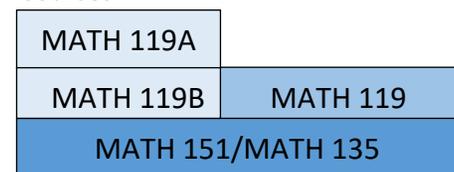
**Biology Programs**

Biological Sciences: Cell, Molecular, Dev (BS)

**Other Programs with MATH 151 as an option or elective**

- Biol Sci: Ecology, Evolution and Organ Bio (BS)
- Environmental Science and Technology (BS)
- Land Surveying and Geomatics (TCT)
- Liberal Arts: Computer Science (rec elective)
- Liberal Arts, Elementary Educ: Math (BA)

Courses

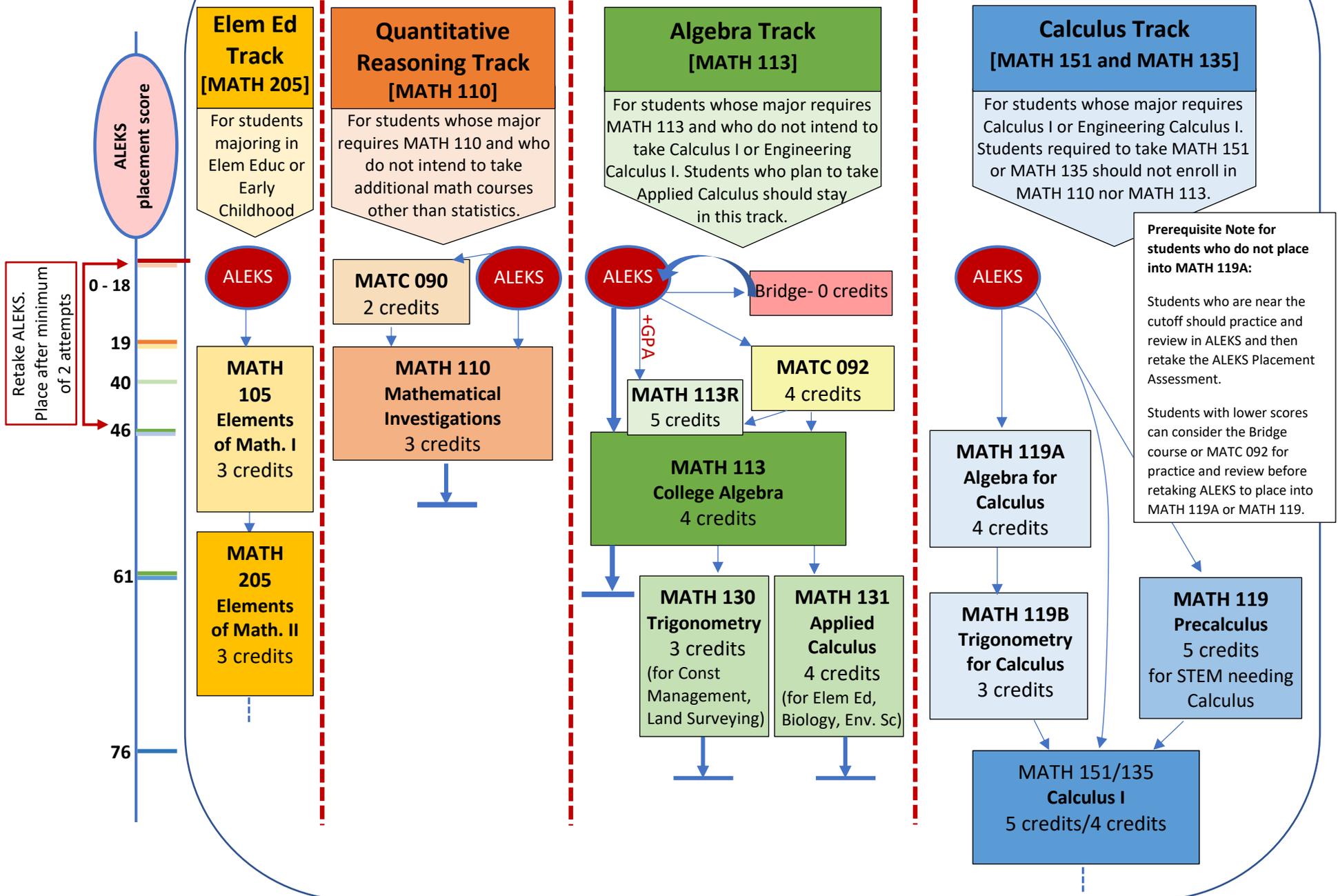


^ Be sure to verify the required Essential Learning course with DegreeWorks or the relevant program sheet for your major.

\*\* 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.



## Math Placement 2022-2023

### Elementary Education Track - MATH 205

COURSE	ALEKS	SAT	ACT	Accuplacer	GPA Combo
MATH 105	19+	500+	19+	QRAS 240+	HS GPA 2.75+ AND [SAT 460-490 or ACT 15-18 or QRAS 220-239]
MATH 205 (ESSL Course)	Prerequisite: MATH 105. Note, the Teacher Education program requires a B or better in MATH 105 and MATH 205.				
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

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

COURSE	ALEKS	SAT	ACT	Accuplacer	GPA Combo
Bridge Course	0 - 18 <sup>^</sup>	Below 500 <sup>^</sup>	Below 19 <sup>^</sup>	QRAS 200-239 <sup>^</sup>	Use other score(s)
MATC 092	19 - 45 <sup>^</sup>	500-530 <sup>^</sup>	19-21 <sup>^</sup>	QRAS 240-300 <sup>^</sup>	HS GPA 2.75+ AND [SAT 460-490 or ACT 15-18 or QRAS 220-239]
MATH 113R*	Use other score(s)	Use other score(s)	Use other score(s)	Use other score(s)	HS GPA 3.25+ AND [SAT 500-530 or ACT 19-21 or ALEKS 40-45]
MATH 113**	46 - 60	540-600	22-23	AAF 245-279	Use other score(s)
MATH 130 or MATH 131	61 - 75	610-690	24-26	AAF 280-300	Use other score(s)
<sup>^</sup> 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.					
*MATH 113R will count just as MATH 113 in any place that MATH 113 is required.					
**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

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