

First Semester Math Recommendations for Specific Majors

Category 1B of the All-University Core Curriculum (AUCC) requires students to have at least three credits of quantitative reasoning (mathematics or statistics). Visit the [General Catalog](#) for a current list of courses that will satisfy this requirement.

Many majors have specific courses that are required, whereas, other majors may not specify. This document has a list of CSU majors and what your advisor wants you to know about taking a math and/or statistics class your first semester at CSU.

MATH 101, MATH 105, STAT 100, STAT 201, and STAT 204 do not have prerequisites. If one of these courses is acceptable for your major, you will not need to take the Math Placement Tool. These courses do not satisfy the prerequisite for higher-level math classes. Therefore, if you add to or change your degree program, you may end up having to take the Math Placement Tool later.

Not every student will place into the class(es) recommended to take their first semester. These students can opt to improve their math placement results and/or register for the prerequisite classes. When you look at your results, you will see what options are available to you if you wish to improve your math placement. If you wish to register for the prerequisite classes, you will need to place into at least MATH 117.

The Math Placement Tool covers the content of the five one credit pre-calculus courses at CSU.

- **MATH 117** College Algebra I (prerequisite: satisfactory score on a Colorado State University Mathematics Placement Examination, or MAT 055, 093, or 099 taken at a Colorado Community College with a grade of C- or higher)
- **MATH 118** College Algebra II (prerequisite: MATH 117)
- **MATH 124** Logarithmic and Exponential Functions (prerequisite: MATH 117 and 118)
- **MATH 125** Numerical Trigonometry (prerequisite: MATH 117 and 118)
- **MATH 126** Analytical Trigonometry (prerequisite: MATH 117, 118, and 125)

The Math Placement Tool consists of three sections: Algebra (MATH 117 and 118), Trigonometry (MATH 125 and 126), and Logarithmic and Exponential Functions (MATH 124). The only section you are required to answer is the Algebra section.

The Math Placement Tool is also testing prerequisite skills for MATH 117, 120, and 127.

MATH 120 and 127 are another option for Precalculus courses.

- **MATH 120** is a three credit college algebra course that covers similar content to MATH 117, 118, and 124. (prerequisite: satisfactory score on a Colorado State University Mathematics Placement Examination, or MAT 055, 093, or 099 taken at a Colorado Community College with a grade of C- or higher)
- **MATH 127** is a four credit precalculus class that covers similar content to MATH 117, 118, 124, 125, and 126. (prerequisite: satisfactory score on a Colorado State University Mathematics Placement Examination, or MAT 055, 093, or 099 taken at a Colorado Community College with a grade of C- or higher)

Some students should be enrolled in calculus their first semester. There are four different first semester calculus courses at CSU:

- **MATH 141**, Calculus in Management Sciences (prerequisite: MATH 117 and 118)
- **MATH 155**, Calculus for Biological Scientists I (prerequisite: MATH 117, 118, 124, and 125)
- **MATH 156**, Mathematics for Computational Science I (prerequisite: MATH 117, MATH 118, MATH 124, MATH 125, and MATH 126. Note: for both MATH 124 and 126 students must place out of the course on the Math Placement Tool and/or have a grade of B or higher.)
- **MATH 160**, Calculus for Physical Scientists I (prerequisite: MATH 117, MATH 118, MATH 124, MATH 125, and MATH 126. Note: for both MATH 124 and 126 students must place out of the course on the Math Placement Tool and/or have a grade of B or higher.)

| Major | Is math important to first semester schedule?* | The ideal placement will allow students to register for the following AUCC 1B course. | Notes |
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| <u>Agricultural Biology</u> | Yes | MATH 155 | The algebra section is the most important section. Placing out of the algebra course (MATH 117) will allow you to register for chemistry CHEM 107. Then Math 118, Math 124 and Math 125 as Prerequisites to Math 155. |
| <u>Agricultural Business</u> | Yes | MATH 117, 118, 124 | The algebra section is the most important section. You must be concurrently enrolled in or have completed MATH 117 before taking AREC 202 which is required for Ag Business. |

| Major | Is math important to first semester schedule?* | The ideal placement will allow students to register for the following AUCC 1B course. | Notes |
|---|---|--|--|
| <u>Agricultural Education</u> | Yes | MATH 117, 118, 124 | The algebra section is the most important section. You must be concurrently enrolled in or have completed MATH 117 & 118 before taking AREC 202 in your first year. |
| <u>Animal Science</u> | Yes, very important | MATH 117, 118, and 124 or MATH 120 or MATH 127 | All Animal Science students must take the Math Placement Tool prior to Ram Orientation due to math courses such as MATH 117, 118 & 124 as these serve as pre-requisites for CHEM 107/CHEM 111. Please note this plays an important role into your <i>overall academic success and timely graduation in animal science.</i> |
| <u>Anthropology</u> | No | Any, MATH 101 is fine | |
| <u>Apparel and Merchandising</u> | Yes, very important | MATH 117, 118, 124 | All Apparel and Merchandising students must take the Math Placement Tool prior to Ram Orientation due to math prerequisites within the Program of Study. Note that if Math 117 and MATH 118 are not completed during the first two semesters, students may not be able to graduate in eight semesters. MATH 120 is allowed as a substitute for MATH 117, MATH 118, and MATH 124. |
| <u>Art (BA and BFA)</u> | No | Any, MATH 101, MATH 105, or STAT 100 is fine | Only consideration for Art students is if they want a minor that requires a certain level of math. |

| Major | Is math important to first semester schedule?* | The ideal placement will allow students to register for the following AUCC 1B course. | Notes |
|--------------------------------------|---|--|--|
| <u>Biochemistry</u> | Yes, very important | MATH 155 or MATH 160 | The algebra section is the most important section. Placing out of the two algebra courses (MATH 117 and 118) will fulfill the math prerequisite for chemistry. |
| <u>Biology</u> | Yes, very important | MATH 117, 118, 124, 125, 120, or 155 | The algebra section is the most important section. Placing out of the two algebra courses (MATH 117 and 118) will fulfill the math prerequisite for chemistry. |
| <u>Biomedical Engineering</u> | Yes, very important | MATH 160 | All Engineering students must take the Math Placement Tool prior to Ram Orientation due to math prerequisites for courses such as MATH 160 & 161, as well as CHEM 111 and PH 141. Please note it is not possible to graduate from Biomedical Engineering in 10 semesters unless you place into MATH 160 or higher in your first semester or take summer courses. |
| <u>Biomedical Sciences</u> | Yes, very important | Anatomy and Physiology concentration requires MATH 155 or MATH 160. Environmental Public Health and Microbiology and Infectious Disease concentrations require a minimum of three credits from MATH 118, 124, 125, 126, 155, and/or 160. | The algebra section is the most important section. Placing out of the two algebra courses (MATH 117 and 118) will fulfill the math prerequisite for chemistry. |

| Major | Is math important to first semester schedule?* | The ideal placement will allow students to register for the following AUCC 1B course. | Notes |
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| <u>Business Administration</u> | Yes | Three course credits from the following: MATH 117, MATH 118, MATH 124, MATH 125, MATH 126, MATH 141 or a higher-level calculus course. | All Business students must take the Math Placement Tool prior to Ram Orientation. The algebra section is the most important section. Placing out of the two algebra courses (MATH 117 and 118) will allow you to register for your math requirement and ECON202, which are both required for Business Majors. |
| <u>Chemical and Biological Engineering</u> | Yes, very important | MATH 160 | All Engineering students must take the Math Placement Tool prior to Ram Orientation due to math prerequisites for courses such as MATH 160 & 161, as well as CHEM 111 and PH 141. Please note it is not possible to graduate from Chemical and Biological Engineering in 8 semesters unless you place into MATH 160 or higher in your first semester or take summer courses. |
| <u>Chemistry</u> | Yes, very important The Math Placement is very important to start strong in your chemistry career at CSU. Even if you have taken college level math courses, if you still don't have your credits officially transferred over, you should complete the Math Placement. | MATH 160 or MATH 155 | The algebra section of the Math Placement Tool is the most important section. Placing out of college algebra (MATH 117 and 118) will allow you to register for the first chemistry course. |

| Major | Is math important to first semester schedule?* | The ideal placement will allow students to register for the following AUCC 1B course. | Notes |
|-------------------------------------|---|--|---|
| <u>Civil Engineering</u> | Yes, very important | MATH 160 | All Engineering students must take the Math Placement Tool prior to Ram Orientation due to math prerequisites for courses such as MATH 160 & 161, as well as CHEM 111 and PH 141. Please note it is not possible to graduate from Civil Engineering in 8 semesters unless you place into MATH 160 or higher in your first semester or take summer courses. |
| <u>Communication Studies</u> | No | Any, MATH 101 or STAT 100 are fine | Only consideration for students is if they want a minor or double major that requires a certain level of math. |
| <u>Computer Engineering</u> | Yes, very important | MATH 160 | All Engineering students must take the Math Placement Tool prior to Ram Orientation due to math prerequisites for courses such as MATH 160 & 161, as well as CHEM 111 and PH 141. Please note it is not possible to graduate from Computer Engineering in 8 semesters unless you place into MATH 160 or higher in your first semester or take summer courses. |
| <u>Computer Science</u> | Yes, very important | Either MATH 156 or MATH 160 | Utilizing the Math Placement Tool before Orientation is very important to determining the correct first semester schedule. Your CS Advisor will be able to help you develop a good plan for your classes with any results from the Math Placement Tool. |

| Major | Is math important to first semester schedule?* | The ideal placement will allow students to register for the following AUCC 1B course. | Notes |
|---|---|---|--|
| <u>Construction Management</u> | Yes, very important | MATH 125 | Students should complete the Math Placement Tool prior to Ram Orientation. Math is critical for progression in the degree and your advisor will help you determine a math plan based on the results. |
| <u>Dance (BA and BFA)</u> | No | Any, MATH 101 is fine | Only consideration for students is if they want a minor or double major that requires a certain level of math. |
| <u>Data Science</u> | Yes, very important | Either MATH 156 or MATH 160 | All Data Science majors should complete the Math Placement Tool before orientation so that your advisor can help develop a good plan for your first semester. Mathematics is critical to the degree and students should plan to enroll in a math course during their first semester. |
| <u>Early Childhood Education</u> | No | Any AUCC 1B, STAT 201 is recommended since this course can satisfy both the AUCC 1B requirement and the statistics requirement for the major. | STAT 201 is sufficient for Early Childhood Education majors. Only consideration for students is if they want a minor or double major that requires a certain level of math. |
| <u>Economics</u> | Yes, very important. | MATH 117 and 118 | Eventually must complete MATH 141 or 155 or 160 and Statistics 201, 204 or a 300 level statistics course. Timely graduation best ensured if calculus done by end of sophomore year. Stats by end of 1 st semester junior year (although that is pushing it). |

| Major | Is math important to first semester schedule?* | The ideal placement will allow students to register for the following AUCC 1B course. | Notes |
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| <u>Ecosystem Science and Sustainability</u> | Yes, very important | MATH 155 or 160 | Major requires completion of MATH 155 or 160 and STAT 301 or 307, as well as physics. Timely graduation best ensured if calculus done no later than fall of second year, physics by spring of second year, and statistics by fall of third year. |
| <u>Electrical Engineering</u> | Yes, very important | MATH 160 | All Engineering students must take the Math Placement Tool prior to Ram Orientation due to math prerequisites for courses such as MATH 160 & 161, as well as CHEM 111 and PH 141. Please note it is not possible to graduate from Electrical Engineering in 8 semesters unless you place into MATH 160 or higher in your first semester or take summer courses. |
| <u>Engineering Open Option</u> | Yes, very important | MATH 160 | All Engineering students must take the Math Placement Tool prior to Ram Orientation due to math prerequisites for courses such as MATH 160 & 161, as well as CHEM 111 and PH 141. Please note it is not possible to graduate with an Engineering degree in 8 semesters unless you place into MATH 160 or higher in your first semester or take summer courses. |
| <u>English</u> | No | Any, MATH 101 is fine | The only math consideration for English is if the student is in or is considering a minor or double major with specific math requirements. |

| Major | Is math important to first semester schedule?* | The ideal placement will allow students to register for the following AUCC 1B course. | Notes |
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| <u>Environmental and Natural Resource Economics</u> | Yes | MATH 117, 118, 124 | The algebra section is the most important section. You must be concurrently enrolled in or have completed MATH 117 before taking AREC 202 which is required for ENRE. |
| <u>Environmental Engineering</u> | Yes, very important | MATH 160 | All Engineering students must take the PLACEMENT TOOL prior to Ram Orientation due to math prerequisites for courses such as MATH 160 & 161, as well as CHEM 111 and PH 141. Please note it is not possible to graduate from Environmental Engineering in 8 semesters unless you place into MATH 160 or higher in your first semester or take summer courses. |
| <u>Environmental Horticulture</u> | Yes | MATH 117, 118, plus 124 or 125 (see notes) | <p>Three credits of math are required. The Landscape Design & Contracting Concentration require up to MATH 125; Other concentrations up to MATH 124.</p> <p>The algebra section of the PLACEMENT TOOL is the most important section. Placing out of the two algebra courses (MATH 117 and 118) will fulfill the math prerequisite for chemistry, and/or microeconomics.</p> |

| Major | Is math important to first semester schedule?* | The ideal placement will allow students to register for the following AUCC 1B course. | Notes |
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| <u>Equine Science</u> | Yes, very important | MATH 117, 118, and 124 or MATH 120 or MATH 127 | All Equine Science students must take the Math Placement Tool prior to Ram Orientation due to math courses such as MATH 117, 118 & 124 as these serve as pre-requisites for CHEM 107/CHEM 111. Please note this plays an important role into your overall <i>academic success and timely graduation in equine science.</i> |
| <u>Ethnic Studies</u> | No | Any, MATH 101 is fine | The only math consideration for Ethnic Studies is if the student is in or is considering a minor or double major with specific math requirements. |
| <u>Exploratory Studies</u> | Recommended | MATH 117 or MATH 120 | Ultimately math courses are dictated by major choice. Taking College Algebra leaves the most options open. |
| <u>Exploratory Studies: Arts, Humanities, and Design</u> | Recommended | MATH 117 or MATH 120 | Ultimately math courses are dictated by major choice. Taking College Algebra leaves the most options open. |
| <u>Exploratory Studies: Business Interest</u> | Yes | MATH 117 or higher | MATH 101, MATH 105, STAT 100, STAT 201, and STAT 204 are not appropriate placement. |
| <u>Exploratory Studies: Education and Teaching</u> | Early Childhood Education– no, but recommended in first year. Secondary or K-12 education – depends on subject area | Early Childhood Education – any Secondary or K-12 education – depends on subject area | Secondary or K-12 areas (art, music) – if aiming for teaching math, science, technology, or business students will need pre-calculus and higher. |

| Major | Is math important to first semester schedule?* | The ideal placement will allow students to register for the following AUCC 1B course. | Notes |
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| Exploratory Studies: Engineering Interest | Yes, very important | MATH 160 | If student is not able to register for MATH 160, student should plan to take all precalculus credits needed (MATH117-126) OR take MATH 127 in first semester. MATH 101, MATH 105, STAT 100, STAT 201, and STAT 204 are not appropriate placement. |
| <u>Exploratory Studies: Environmental and Natural Resources</u> | Yes, important | MATH 117 or MATH 120 | MATH 101, MATH 105, STAT 100, STAT 201, and STAT 204 are not appropriate placement. |
| <u>Exploratory Studies: Global and Social Sciences</u> | Recommended | MATH 117 or MATH 120 | Ultimately math courses needed are dictated by major choice. Taking College Algebra leaves the most options open. |
| <u>Exploratory Studies: Health, Life, and Food Sciences</u> | Yes, important | MATH 117 or MATH 120 | MATH 101, MATH 105, STAT 100, STAT 201, and STAT 204 are not appropriate placement. |
| Exploratory Studies: Information Technology Interest | YES, very important | MATH 156 or MATH 160 | If student is not able to register for MATH156 or 160, student should plan to take all precalculus credits needed (MATH117-126) OR take MATH127 in the first semester. MATH101, MATH105, STAT100, STAT201 and SATA204 are not appropriate placement for this major. |

| Major | Is math important to first semester schedule?* | The ideal placement will allow students to register for the following AUCC 1B course. | Notes |
|---|---|--|--|
| Exploratory Studies: Journalism and Communication Interest | No, but encouraged | STAT 100 or MATH 117 (see note) | For students who KNOW THEY WANT JMC, we recommend STAT 100. However, for Exploratory Studies in general who might have JMC and other majors of interest, we recommend MATH 117/118 or MATH 120 to keep doors open. |
| <u>Exploratory Studies: Land, Plant, Animal Sciences</u> | Yes, important | MATH 117 or MATH 120 | MATH 101, MATH 105, STAT 100, STAT 201, and STAT 204 are not appropriate placement. |
| <u>Exploratory Studies: Organization, Management, and Enterprise</u> | Yes | MATH 117 or higher | MATH 101, MATH 105, STAT 100, STAT 201, and STAT 204 are not appropriate placement. |
| <u>Exploratory Studies: Physical Science and Engineering</u> | YES, very important | MATH 160 | If student is not able to register for MATH160, student should plan to take all precalculus credits needed (MATH117-126) OR take MATH127 in first semester. MATH 101, MATH 105, STAT 100, STAT 201, and STAT 204 are not appropriate placement for this major. |
| <u>Family and Consumer Sciences</u> | No | Any, MATH 101 is fine | Only consideration for students is if they want a minor or double major that requires a certain level of math. |

| Major | Is math important to first semester schedule?* | The ideal placement will allow students to register for the following AUCC 1B course. | Notes |
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| <u>Fermentation Science and Technology</u> | Yes | MATH 117, 118, 124 or MATH 120; MATH 125 | Ideally, students will complete at least MATH 117 in their first semester to allow them to complete chemistry in their second semester. |
| <u>Fire and Emergency Services Administration</u> | No | Any AUCC 1B – MATH 101 is fine | This degree is offered through CSU online. |
| <u>Fish, Wildlife and Conservation Biology</u> | Yes, very important | MATH 117 or higher | Completing MATH 117, 118, 124, and 125 before the end of the freshman year is critical to staying on track for calculus and other courses that have MATH 155 and/or MATH 117-125 as prerequisites. |
| <u>Forest and Rangeland Stewardship</u> | Yes | MATH 117 or higher | Students are strongly encouraged to complete the Math Placement Tool prior to Ram Orientation. The Algebra section is the most important and placing into or out of the two algebra courses (MATH117 and MATH118) will help with course registration, and provide preparation for calculus, which is required for the Forest and Rangeland Stewardship concentrations. |
| <u>Geography</u> | No | Any, MATH 101 is fine | Only consideration for students is if they want a minor or double major that requires a certain level of math. |

| Major | Is math important to first semester schedule?* | The ideal placement will allow students to register for the following AUCC 1B course. | Notes |
|--|---|--|---|
| <u>Geology</u> | Yes, very important | MATH 160 | The algebra section is the most important section. Placing out of the two algebra courses (MATH 117 and 118) will fulfill the math prerequisite for chemistry. Some concentrations previously accepted MATH 155. As of Fall 2015, all concentrations must take MATH 160. |
| <u>Health and Exercise Science</u> | Yes | MATH 118, 124, and 125 | HES student need to be in at least two credits of math (MATH117,118) their first semester at CSU. |
| <u>History</u> | No | Any, MATH 101 is fine | Only consideration for students is if they want a minor or double major that requires a certain level of math. |
| <u>Horticulture</u> | Yes | MATH 117, 118, 124 or MATH 155 | Three credits of math are required. Horticultural Science Concentration requires MATH 155; Other concentrations require up to MATH 124 The algebra section of the placement tool is the most important section. Placing out of the two algebra courses (MATH 117 and 118) will fulfill the math prerequisite for chemistry, and/or microeconomics. |
| <u>Hospitality and Event Management</u> | Yes | MATH 117 and MATH 101 | MATH 117 is a prerequisite for ECON 202 and ECON 204, which are both required courses for the major. |

| Major | Is math important to first semester schedule?* | The ideal placement will allow students to register for the following AUCC 1B course. | Notes |
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| <u>Human Development and Family Studies</u> | No | Any AUCC 1B course will be sufficient. MATH 101, MATH 105, STAT 100, STAT 201 are most common, | Any AUCC 1B course is sufficient for HDFS majors. However, students pursuing careers in health professions will need MATH 117, 118, 124, or MATH 127 to fulfill prerequisites for future science courses. |
| <u>Human Dimensions of Natural Resources</u> | No | MATH 117, 118, 124 | |
| <u>Interdisciplinary Liberal Arts</u> | No | Any AUCC math – MATH 101 most common | Many incoming interdisciplinary Lib. Arts students are exploring majors/minors, so MATH 117 is suggested if they qualify. |
| <u>Interior Architecture and Design</u> | Yes | MATH 117, 118, 124 | All Architecture and Design students must take the Math Placement Tool prior to Ram Orientation due to the sequence of courses within the Program of Study. Note that if Math 117, MATH 118, and MATH124 are not completed during the first two semesters, students may not be able to graduate in eight semesters. MATH 125 is recommended as a substitute for MATH 124 for students who are interested in Construction Management. And MATH 120 is allowed as a substitute for MATH 117, MATH 118, and MATH 124. |

| Major | Is math important to first semester schedule?* | The ideal placement will allow students to register for the following AUCC 1B course. | Notes |
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| <u>International Studies</u> | Yes, but not critical | Just requires 3 credits of AUCC1B: Quantitative reasoning. | |
| <u>Journalism and Media Communication</u> | No | STAT 100 recommended | The only math consideration is if the student is in or is considering a minor or double major with specific math requirements. |
| <u>Landscape Architecture</u> | Yes | MATH 117, 118, 125, and 126 | Three credits of math are required. Placing into MATH 118 is ideal. Program requires up to MATH 126. The algebra section is the most important section. Placing out of the two algebra courses (MATH 117 and 118) will fulfill the math prerequisite for chemistry, and/or microeconomics. |
| <u>Languages, Literatures and Culture</u> | No | Any AUCC Math – MATH 101 most common | |
| <u>Livestock Business Management</u> | | | |
| <u>Mathematics</u> | Yes, very important | MATH 160 | |

| Major | Is math important to first semester schedule?* | The ideal placement will allow students to register for the following AUCC 1B course. | Notes |
|--|---|--|---|
| <u>Mechanical Engineering</u> | Yes, very important | MATH 160 | All Engineering students must take the placement tool prior to Ram Orientation due to math prerequisites for courses such as MATH 160 & 161, as well as CHEM 111 and PH 141. Please note it is not possible to graduate from Engineering in 8 semesters unless you place into MATH 160 or higher in your first semester or take summer courses. |
| <u>Music (BA and BM)</u> | No | Any, MATH 101 is fine | Only consideration for Music students is if they want a 2 nd major or minor that requires a certain level of math. |
| <u>Natural Resource Tourism</u> | No | MATH 117, 118, 124 | |
| <u>Natural Resources Management</u> | Yes | MATH 117 or higher | Students are strongly encouraged to complete the Math Placement Tool prior to Ram Orientation. The Algebra section is the most important and placing into or out of the two algebra courses (MATH117 and MATH118) will help with course registration. |
| <u>Natural Sciences</u> | Yes, very important | MATH 155 or 160 | The algebra section is the most important section. Placing out of the two algebra courses (MATH 117 and 118) will fulfill the math prerequisite for chemistry. |
| <u>Neuroscience</u> | Yes, very important | MATH 155 or MATH 160 | The algebra section is the most important section. Placing out of the two algebra courses (MATH 117 and 118) will fulfill the math prerequisite for chemistry. |

| Major | Is math important to first semester schedule?* | The ideal placement will allow students to register for the following AUCC 1B course. | Notes |
|--|---|--|---|
| <u>Nutrition and Food Science</u> | Yes | MATH 117, 118, 124 or MATH 120 | Ideally, students will complete at least MATH 117 in their first semester to allow them to complete chemistry in their second semester. The Pre-Health Nutrition concentration also requires MATH 125. |
| <u>Philosophy</u> | No | Any, MATH 101 or STAT 100 are fine | The only math consideration for Philosophy is if the student is in or is considering a minor or double major with specific math requirements. |
| <u>Physics</u> | Yes, very important | MATH 160 | All Physics majors must take the Math Placement Tool prior to Ram Orientation due to prerequisites for courses such as MATH 160 and 161, and PH 141. |
| <u>Political Science</u> | No | Any, MATH 101 or STAT 100 are fine | The only math consideration is if the student is in or is considering a minor or double major with specific math requirements. |
| <u>Psychology</u> | Yes | MATH 117 | |
| <u>Restoration Ecology</u> | Yes | MATH117 or higher | Students are strongly encouraged to complete the Math Placement Tool prior to Ram Orientation. The Algebra section is the most important and placing into or out of the two algebra courses (MATH117 and MATH118) will help with course registration. |
| <u>Social Work</u> | No | Any AUCC Math – STAT 100 is recommended | STAT 100 will clear both your mathematics and social work statistic requirements. |

| Major | Is math important to first semester schedule?* | The ideal placement will allow students to register for the following AUCC 1B course. | Notes |
|--|---|--|--|
| <u>Sociology</u> | No | Any AUCC Math—MATH 101 is fine | Three credits of math required. MATH 105, 133, and 135 are NOT acceptable. |
| <u>Soil and Crop Sciences</u> | Yes | MATH 117, MATH 118, MATH 124 Students in the Plant Biotechnology Concentration also need MATH 125 | The algebra section is the most important. Placing out of the algebra course (MATH 117) will allow students to register for Chemistry (CHEM) sooner. |
| <u>Statistics</u> | Yes, very important | MATH 156 or MATH 160 | Algebra (MATH 117, 118) and logs and exponents (MATH 124) are the most important precalculus topics for future success in STAT courses. All STAT courses require an understanding of these topics. Among the calculus topics, understanding integration methods and being able to effectively apply them are of vital importance for future success in STAT 315, STAT 420, and STAT 430. |
| <u>Theatre</u> | No | Any, MATH 101 is fine | Only consideration for students is if they want a 2 nd major or minor that requires a certain level of math. |
| <u>Watershed Science and Sustainability</u> | Yes | MATH 118 or higher | Students are strongly encouraged to complete the Math Placement Tool prior to attending Ram Orientation. Math requirements will vary based on the major concentration chosen. |
| <u>Women's and Gender Studies</u> | No | Any AUCC math – MATH 101 most common | |

| Major | Is math important to first semester schedule?* | The ideal placement will allow students to register for the following AUCC 1B course. | Notes |
|----------------|---|--|--|
| <u>Zoology</u> | Yes, very important | MATH 117, 118, 124, 125, 120, or 155 | The algebra section is the most important section. Placing out of the two algebra courses (MATH 117 and 118) will fulfill the math prerequisite for chemistry. |

* CSU requires all students to satisfy category 1B (3 credits of quantitative reasoning) of the All-University Core Curriculum before earning 60 credits, including transfer credits. Refer to the [General Catalog](#) for more information.