**MATHEMATICS/QUANTITATIVE REASONING AND WRITING REQUIREMENTS**

**Four Steps to Graduation**

To assure that your mathematics/quantitative reasoning and writing skills are adequate for success in college and in the career you eventually pursue, the following is required of all undergraduates. If you have questions, please inquire in Academic Advising Programs (http://www.csuchico.edu/aap/), SSC 220, or Graduation Advising (http://www.csuchico.edu/gradadvising/), SSC 110.

**Step 1. Understand your Mathematics/Quantitative Reasoning and Written Communication Placement**

Placement in courses that satisfy CSU General Education (GE) Mathematics/Quantitative Reasoning and Written Communication requirements will be based on four categories described below. See Admissions (Undergraduate) (https://catalog.csuchico.edu/academic-standards-policies/admissions-undergraduate/) for more information on the assessment of academic preparation and placement.

- **Fulfilled: Has fulfilled the GE Written Communication (A2) or Mathematics/Quantitative Reasoning (B4) requirement**
  - Student has met the CSU GE Breadth Subarea A2 and/or B4 requirement via Advanced Placement (AP) examination, International Baccalaureate (IB) examination or transferable course.

- **Ready: Ready for GE Written Communication (A2) or Mathematics/Quantitative Reasoning (B4) courses**
  - Student has met examination standards and/or multiple measures-informed standards.

- **Ready With Support: Ready for GE Written Communication (A2) or Mathematics/Quantitative Reasoning (B4) courses with support**
  - Based on multiple measures, student needs additional academic support.
  - Participation in the Early Start program is recommended and may be highly advisable for some students, particularly STEM majors.

- **Ready With Support, Early Start Program Required: Ready for GE Written Communication (A2) or Mathematics/Quantitative Reasoning (B4) courses with support, Early Start Program is required**
  - Based on new multiple measures, student needs additional academic support.
  - Participation in the Early Start Program is required.

If you think you are exempt, please check The Guide to Mathematics/Quantitative Reasoning and Writing Requirements (p. 2) below, or consult Academic Advising Programs (https://www.csuchico.edu/aap/).

**Early Start Program**

Early Start Program (https://www.csuchico.edu/admissions/apply/first-time-freshmen/early-start.shtml) participation is required for students needing skills development, as determined by systemwide placement standards. Students needing skills development in both general education written communication and mathematics/quantitative reasoning shall be required to enroll in a written communication or mathematics/quantitative reasoning course but not both during the Early Start Program. However, you may elect to enroll in both.

You will be notified throughout the process of application, admission, and registration about this requirement. Once you have applied, you can find your most current status via your California State University, Chico Portal (https://portal.csuchico.edu/).

**Step 2. Enroll in a GE Mathematics/Quantitative Reasoning (B4)**

First-time freshmen are required to enroll in a General Education Mathematics/Quantitative Reasoning (B4) course within their first academic year. When you pass GE Mathematics/Quantitative Reasoning (B4) with a C- or higher, you will have met the requirement for graduation. Check The Guide to Mathematics/Quantitative Reasoning and Writing Requirements (p. 2) below, for exemptions, or consult Academic Advising Programs (https://www.csuchico.edu/aap/).

If you place as Ready With Support, you will enroll in a designated GE Mathematics/Quantitative Reasoning (B4) course paired with a preparatory mathematics course your first term. Satisfactory completion of the preparatory mathematics course will certify you as GE Mathematics/Quantitative Reasoning Ready.

If you place as Ready With Support, Early Start Program Required, you will enroll in your GE Mathematics/Quantitative Reasoning (B4) course in your second term. To prepare for that course, in your first term you will enroll in a designated science course (GE B1 or B2) paired with a preparatory mathematics course that will develop your quantitative reasoning skills.

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<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 31B</td>
<td>Foundational Mathematics A</td>
<td>1</td>
</tr>
<tr>
<td>MATH 31G</td>
<td>Foundational Mathematics A</td>
<td>1</td>
</tr>
<tr>
<td>MATH 31N</td>
<td>Foundational Mathematics A</td>
<td>1</td>
</tr>
<tr>
<td>MATH 31P</td>
<td>Foundational Mathematics A</td>
<td>1</td>
</tr>
<tr>
<td>MATH 5L</td>
<td>Foundational Mathematics B</td>
<td>1</td>
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<tr>
<td>MATH 7L</td>
<td>Foundational Mathematics B</td>
<td>1</td>
</tr>
<tr>
<td>MATH 10L</td>
<td>Foundational Mathematics B</td>
<td>1</td>
</tr>
<tr>
<td>MATH 16L</td>
<td>Foundational Mathematics B</td>
<td>1</td>
</tr>
</tbody>
</table>

**Step 3. Enroll in a GE Written Communication (A2) course**

First-time freshmen are required to enroll in a GE Written Communication (A2) course within their first academic year. Check The Guide to Mathematics/Quantitative Reasoning and Writing Requirements, below, for exemptions, or consult Academic Advising Programs (https://www.csuchico.edu/aap/).

**Important Information**

Ready With Support, Early Start Program Required students are also required to enroll in ENGL 131, a one-unit support course, where you will receive supplemental help with your writing skills. It is graded credit/no credit and may be repeated as needed.
Step 4. Complete four Writing (W) courses

Writing Across the Curriculum (EM 17-009) is a graduation requirement and may be demonstrated through satisfactory completion of four Writing (W) courses listed below.

1. A GE Written Communication course (see Step 1).
2. A lower- or upper-division Writing (W) course.
3. An upper-division Writing (W) course in or specified by the department of the major.
4. The upper-division Writing (W) course serving as the Graduation Writing Assessment Requirement (GWAR) course in your major (see Step 5).

Step 5. Take and pass the Graduation Writing Assessment Requirement (GWAR) course in your major

All students must demonstrate competency in writing skills as a requirement for graduation. Information on currently available ways to meet this graduation requirement may be obtained from the Writing Across the Curriculum (EM 17-009) website.

You are required to take and pass the Graduation Writing Assessment Requirement (GWAR) course in your major with a grade of C- or higher. In most majors, junior or senior year after passing the Graduation Writing Assessment Requirement (GWAR) course in your major (A2) with a grade of C- or higher.

The Guide to Mathematics/Quantitative Reasoning and Writing Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>GE Written Communication (A2)</th>
<th>GE Written Communication (B4)</th>
<th>Lower-division Writing (W)</th>
<th>Major designated upper-division Writing (W)</th>
<th>Upper-division course: practical applications of writing in major</th>
</tr>
</thead>
<tbody>
<tr>
<td>Who</td>
<td>All upper-division undergraduates unless exempt (see below).</td>
<td>All upper-division undergraduates unless exempt (see below).</td>
<td>All upper-division undergraduates unless exempt (see below).</td>
<td>All upper-division undergraduates (must have completed GE Written Communication (A2) with a grade of C- or higher).</td>
<td>In most majors, junior or senior year after passing the Graduation Writing Assessment Requirement (A2) with a grade of C- or higher.</td>
</tr>
<tr>
<td>When</td>
<td>Enroll in a GE Written Communication (A2) course.</td>
<td>Enroll in a GE Written Communication (B4) course.</td>
<td>Enroll in a lower-division Writing (W) course.</td>
<td>Enroll in the major-designated upper-division Writing (W) course.</td>
<td>Enroll in a GE Written Communication (A2) course.</td>
</tr>
<tr>
<td>Where</td>
<td>Any college or university.</td>
<td>Any college or university.</td>
<td>Chico State</td>
<td>Chico State</td>
<td>Chico State</td>
</tr>
<tr>
<td>Why</td>
<td>Minimum verification of math literacy.</td>
<td>Preparation for academic writing.</td>
<td>Preparation for academic writing.</td>
<td>Verification of writing proficiency appropriate for major.</td>
<td>Preparation for academic writing.</td>
</tr>
</tbody>
</table>

No graduation without passing grade (C- or higher) in GE Mathematics/Quantitative Reasoning course and no graduation if no passing grade (C- or higher) in GE Written Communication (A2).

No admittance to upper-division writing requirement if no passing grade (C- or higher) in GE Written Communication (A2).

Must pass to certify completion of University Writing Requirement.

Must pass to certify completion of University Writing Requirement.

Must pass GWAR course in each major with C- or higher to graduate.
Exemptions:
- Transfer of college GE math course (C- or higher)
- CLEP Calculus: 50
- CLEP College Algebra: 50
- CLEP College Algebra/Trigonometry: 50
- AP Math (any exam): 3
- Transfer of college written communication course (C- or higher)
- AP Comp. & Lit. or Lang.: 3 or higher
- International Baccalaureate (IB) Mathematics HL: 4
- None