**MATHEMATICS/QUANTITATIVE REASONING AND WRITING REQUIREMENTS**

### Five Steps to Graduation

To assure mathematics/quantitative reasoning and writing requirements are met as outlined in EM 21-023 (https://www.csuchico.edu/pres/em/2021/21-023.shtml/) per the California State University, each student will have their skills levels assessed. Questions regarding assessment of skill level should be directed to Academic Advising Programs (http://www.csuchico.edu/aap/) or Graduation Advising (http://www.csuchico.edu/gradadvising/).

**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 three categories described below. See Admissions (Undergraduate) (https://catalog.csuchico.edu/undergraduate-requirements/admissions-undergraduate/) for more information on the assessment of academic preparation and placement.

- **Fulfilled:** Student 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:** Student is ready for GE Written Communication (A2) or Mathematics/Quantitative Reasoning (B4) courses.
  - Student has met multiple measures-informed standards and is ready to enroll in A2 and/or B4.
- **Ready with Support:** Student is ready for GE Written Communication (A2) or Mathematics/Quantitative Reasoning (B4) courses with support.
  - Based on multiple measures, student needs additional academic support for enrollment in A2 and/or B4.

Eligibility for exemptions can be identified in the Guide to Mathematics/Quantitative Reasoning and Writing Requirements located at the bottom of the page or through consultation with Academic Advising Programs. (http://www.csuchico.edu/aap/)

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

First year in college students are required to enroll in a General Education Mathematics/Quantitative Reasoning (B4) course within their first academic year.

- If you place as GE B4 “Ready with Support” you will be required to enroll in a designated GE Mathematics/Quantitative Reasoning (B4) course paired with a preparatory support mathematics course within your first year. See chart below for pairings. Satisfactory completion of the preparatory mathematics course will certify you as GE Mathematics/Quantitative Reasoning Ready.

**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 located at the bottom of the page. For eligibility of exemptions, consult Academic Advising Programs (https://www.csuchico.edu/aap/).

**Important Information**

Ready with Support 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) (https://www.csuchico.edu/pres/em/2017/17-009.shtml/) 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 serves as the Graduation Writing Assessment Requirement (GW) course in your major (see Step 5).

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

All students must demonstrate competency in writing skills as a requirement for graduation. Things to consider include:

- To graduate, you must take and pass the Graduation Writing Assessment Requirement (GW) course in your major with a grade of
Reasoning and Writing Requirements

The Guide to Mathematics/Quantitative Reasoning and Writing Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>GE Written Communication (A2)</th>
<th>Lower-division Writing (W) course.</th>
<th>Major-designated upper-division Writing (W) course.</th>
<th>GWAR: GWAR course in the major with a grade of C- or higher.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Who</td>
<td>All undergraduates unless exempt (see below).</td>
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<td>All 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>
</tr>
<tr>
<td>What</td>
<td>GE Mathematics/Quantitative Reasoning (B4) course.</td>
<td>GE Written Communication (A2) course.</td>
<td>Lower-division Writing (W) course.</td>
<td>Major-designated upper-division Writing (W) course.</td>
</tr>
<tr>
<td>When</td>
<td>Enroll in a GE Mathematics/Quantitative Reasoning (B4) course within first academic year.</td>
<td>Enroll in a GE Written Communication (A2) course.</td>
<td>Enroll in the major-designated upper-division Writing (W) course.</td>
<td>In most majors, junior or senior year after passing GWAR.</td>
</tr>
<tr>
<td>Where</td>
<td>Any college or university; an equivalent transfer course will meet this requirement.</td>
<td>Chico State</td>
<td>Chico State</td>
<td>Chico State</td>
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</tbody>
</table>

### Why
- Minimum verification of math literacy.
- Preparation for academic writing.
- Preparation for academic writing in the major.
- Preparation for verification of writing proficiency appropriate for major.

### Compliance
- No graduation without passing grade (C- or higher) in GE Mathematics course.
- No admittance to upper-division writing requirement (GWAR) if no passing grade (C- or higher) in GE Written Communication (A2).
- 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 Trigonometry: 50
- International Baccalaureate (IB) Mathematics HL: 4
- AP Math (any exam): 3

C- or higher. Therefore, it is important to talk with your advisor every semester and plan your schedule carefully.

- You will not be allowed to enroll in the GW course in your major until you have met the GE Written Communication (A2) requirement. Faculty teaching GW courses will not allow you to sit in, audit, or enroll later in the semester.

- Some departments change their GW course from time to time, and your GW requirement is determined by the semester in which you take the course, not by catalog rights. If you are not sure what the GW course in your major is or when it is offered, see your major advisor immediately.

The requirements are designed to ensure that students have a strong foundation in both quantitative and written communication skills, which are essential for success in a variety of academic and professional settings.