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

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### Mathematics/Quantitative Reasoning and Writing Requirements

#### Course Title

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>GE Mathematics/Quantitative Reasoning (B4)</td>
<td>These are non-baccalaureate courses and are therefore not figured into your GPA or units completed. They do, however, count for financial aid credit.</td>
<td></td>
</tr>
<tr>
<td>MATH 5L</td>
<td>Foundational Mathematics B</td>
<td>1</td>
</tr>
<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>

- Students must earn a C- or higher to meet the Mathematics/Quantitative Reasoning (B4) graduation requirement.

If you believe your GE Mathematics/Quantitative Reasoning (B4) placement level does not accurately reflect your mathematical abilities, you have the opportunity to assess with ALEKS PPL. ALEKS PPL is a three-step process that provides an additional way to advise your readiness for GE B4 courses without support. Further, ALEKS PPL is used to determine readiness for calculus for Science, Technology, Engineering, and Mathematics (STEM) major programs. Review the Mathematics & Statistics Department website (https://www.csuchico.edu/math/index.shtml) for more placement, GE B4 requirements, and assessment information.

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Reasoning and Writing Requirements

The Guide to Mathematics/Quantitative Reasoning and Writing Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>GE Written Communication (A2) with a grade of C- or higher.</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 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) Reasoning (B4) course.</td>
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<td>Major-designated upper-division Writing (W) course.</td>
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<tr>
<td>When</td>
<td>Enroll in a GE Mathematics/Quantitative Reasoning (B4) course within first academic year.</td>
<td>Enroll in a Lower-division Writing (W) course.</td>
<td>Enroll in the major-designated upper-division Writing (W) course.</td>
<td>In most majors, junior or senior year after passing GE Written Communication (A2) with a grade of C- or higher.</td>
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<td>Where</td>
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<td>Chico State</td>
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</tr>
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</table>

Why

Minimum verification of math literacy.

Preparation for academic writing.

Preparation for academic writing in the major.

Preparation for writing proficiency appropriate for major.

Compliance

No graduation without passing grade (C- or higher) in GE Mathematics course and no GWAR course.

No admittance to upper-division writing requirement (GWAR) without a 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. The satisfactory grade certifies writing proficiency and satisfies the graduation writing assessment requirement (GWAR).

Exemptions

-Transfer of college GE math course (C- or higher).
-Transfer of college written communication course (C- or higher).
-Transfer of college students.
-Transfer of college writing proficiency (A2).
-None
-None
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