
Validate that!

Upcoming changes to Area C
(math) validation

September 2024

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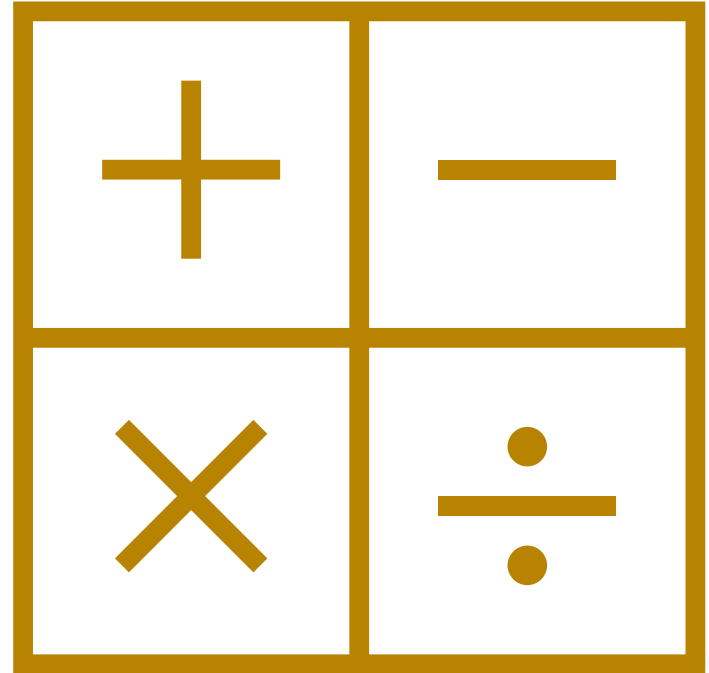
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Agenda

TOPICS FOR DISCUSSION

- Area C (math) description
- Outcomes of faculty workgroup Stage 1 & 2 reports
- Changes to Area C disciplines
- Changes to math validation rules
- Validation scenarios



Acronyms and terminology used in this session

BOARS

- Board of Admissions & Relations with Schools

ACW

- Area C Workgroup

HSA

- High School Articulation unit

VALIDATION

- When a student has successfully completed advanced work in an area of sequential knowledge, the student is presumed to have mastered the lower-level coursework.

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Math requirement for first-year applicants

WHAT IS THE AREA C REQUIREMENT?

- Three years of college-prep math including or integrating topics from:
 - Elementary algebra
 - Two- and three-dimensional geometry
 - Advanced algebra
- A fourth year of math is strongly recommended

HAS THE REQUIREMENT CHANGED?

NO!

- UC will continue to accept high-school level math from 7th and 8th grade
- A geometry course – or appropriate integrated math course – must be completed

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Area C Workgroup (ACW) outcomes



What prompted the review of Area C?

JULY 2023

- New California Mathematics Framework adopted
- Group of faculty from across UC contacted BOARS with concerns about current high school data science curricula
- BOARS removed their endorsement of data science in the California Math Framework and appointed a workgroup to study Area C

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ACW background

OCTOBER 2023

- ACW convened to review the Area C requirement
- Members included faculty from across the 10 campuses
- Faculty primarily from Math, Statistics and Computer Science departments



STAGE 1

- Reconfirmed three foundational years of math
- Advanced math would fall into two categories:
 - Courses that validate Algebra II/Math III
 - Courses that are appropriate for fourth year of math but do not validate Algebra II/Math III

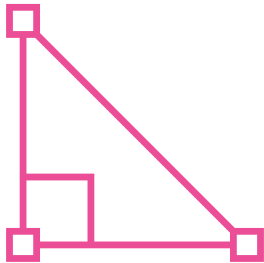
STAGE 2

- CSU faculty added to ACW
- Examined which math coursework is most appropriate and prepares students to be successful at the University
- Proposed two additional categories to distinguish between math courses based on students' interests (major, career, etc.)

ACW math categories: Category 1

CATEGORY 1

The required foundational math sequence



FOUNDATIONAL DISCIPLINES

- Algebra I
- Geometry
- Algebra II
- Math I
- Math II
- Math III

ACW math categories: Categories 2 & 3

CATEGORY 2

More advanced courses that validate a foundational course by requiring mastery of the content in the core sequence

- Precalculus
- Calculus
- Other Advanced Math (algebra-based)

CATEGORY 3

Courses that extend foundational knowledge but will **not** validate Algebra II/ Math III

- Statistics
- Additional Math

Courses in these two categories are particularly useful in developing the quantitative skills students are likely to need for college-level coursework

ACW math categories: Category 4

CATEGORY 4

Courses that focus on other topics in math and may align with – but do not necessarily exceed – the foundational knowledge typically found in Algebra II/ Math III; these courses will **not** validate Algebra II/ Math III

- Statistics
- Additional Math



Timeline

**January 2024 –
Stage 1 report**

**May 2024 – Stage
2 report**

**September 2024 –
New disciplines
introduced**

**Fall 2025 – All high school
math courses will be
categorized with new
disciplines**

**February 2025 – The 2025-26
course submission period
opens with new disciplines**

New math disciplines



Current math disciplines through 2024-25 academic year

Foundational math disciplines

- Algebra I
- Geometry
- Algebra II
- Math I
- Math II
- Math III

Math disciplines that validate Algebra II/Math III

- Precalculus
- Calculus
- Statistics
- Other Advanced Math

Math disciplines that do not validate Algebra II/Math III

- Computer Science

Math disciplines beginning 2025-26 academic year

Foundational math

- Algebra I
- Geometry
- Algebra II
- Math I
- Math II
- Math III

Math disciplines that will validate Algebra II/Math III

- Precalculus
- Calculus
- Other Advanced Math

Math disciplines that will not validate Algebra II/Math III

- Statistics
- Computer Science
- Additional Math

The 'Additional Math' discipline

WHAT IS 'ADDITIONAL MATH'?

- Courses from categories 3 and 4 as outlined by the ACW Stage 2 report
- Courses may either extend foundational knowledge or may focus on other topics that align with foundational knowledge
- These courses will **not** validate Algebra II/Math III



HOW WILL THESE NEW MATH DISCIPLINES AFFECT ADMISSIONS?

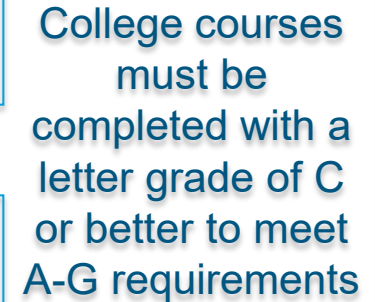
- Part of Comprehensive Review
- Extra courses in any subject area are encouraged and viewed positively
- No single course determines an admission decision
- Students should choose math courses that align with their major and career aspirations



What about college coursework/dual enrollment?

BEGINNING AY 2025-26:

- A UC-transferable course in college algebra, precalculus, calculus, linear algebra or differential equations will continue to validate Algebra II/Math III
- A non-transferable course in trigonometry will continue to validate Algebra II/Math III
- College statistics courses **will not validate** Algebra II/Math III



College courses
must be
completed with a
letter grade of C
or better to meet
A-G requirements

Math validation

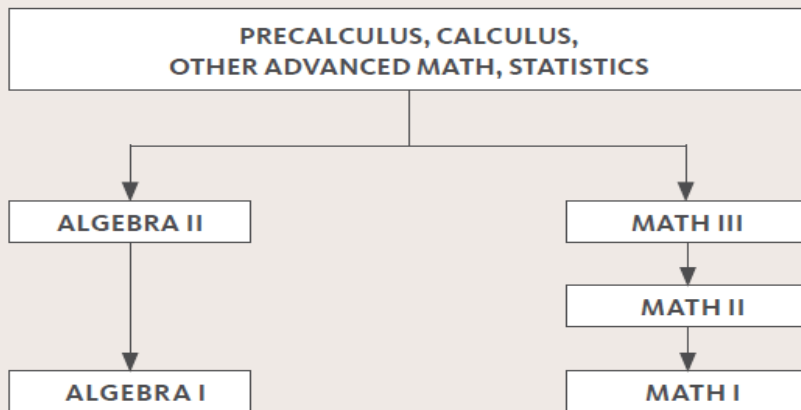


Current math validation rules

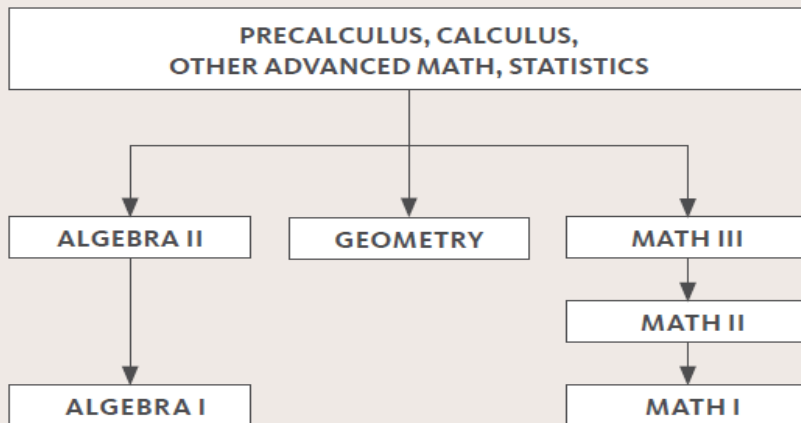
THROUGH AY 2024-25:

- Courses from Precalculus, Calculus, Other Advanced Math and Statistics disciplines validate Algebra II/Math III omission and/or deficient grades
- No course validates Geometry *omission*
- Courses from Precalculus, Calculus, Other Advanced Math and Statistics disciplines validate *deficient grades* in Geometry

Validation of subject omission (through summer 2025)



Validation of grade deficiencies (through summer 2025)

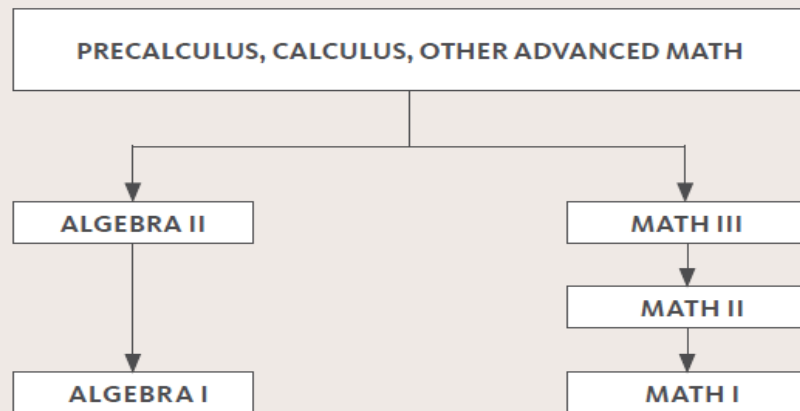


New math validation rules

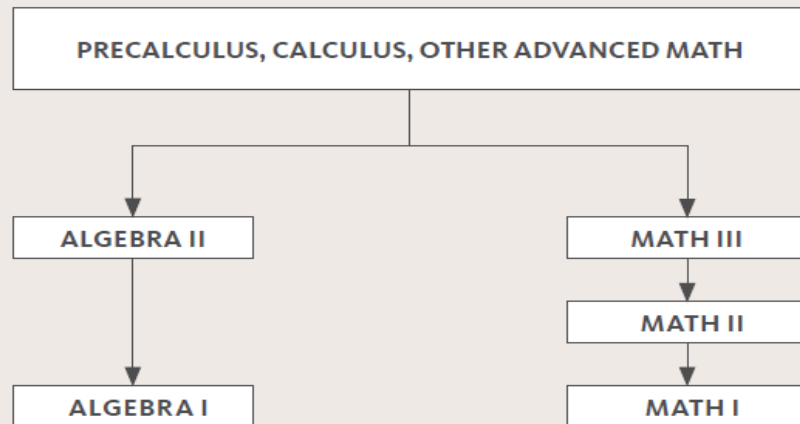
BEGINNING AY 2025-26:

- Courses from Precalculus, Calculus and Other Advanced Math disciplines validate Algebra II/Math III omission and/or deficient grades
- **No course** validates *omission or deficient grades* in Geometry

Validation of subject omission (beginning fall 2025)



Validation of grade deficiencies (beginning fall 2025)



Summary of validation changes

BEGINNING FALL 2025/AY 2025-26*:

- Courses from the Statistics discipline will validate **neither** the omission of **nor** deficient grades in Algebra II
- No courses will validate deficient grades in Geometry
- No changes to validation rules for the integrated math sequence

**Fall 2025/AY 2025-26 refers to the year the course is taken, not the year a student enters UC*

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A young man with curly hair, wearing a brown jacket and a grey t-shirt, is talking to a young woman with dark hair, wearing blue denim overalls and a colorful top. They are standing on a paved walkway on a university campus. In the background, there are trees, a building, and a sign that says "ONE-STOP SHOP".

Validation examples

Example #1

SCENARIO

A student earns the following grades:

AY 2022-23: Algebra 1 C, D

AY 2023-24: Geometry D, D

AY 2024-25: Precalculus D, C

Has the student met the Area C requirement?

ANSWER

Yes.

The C in second semester Precalculus validates the D in the first semester of Precalculus, the omission of Algebra 2, the D grades in Geometry (through AY 2024-25), and the D grade in second semester Algebra 1.

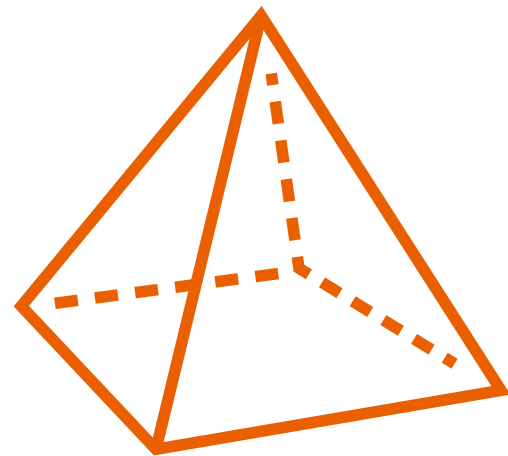
Example #2

SCENARIO

A student completes Geometry in 6th grade, Algebra 2 in 7th grade, Precalculus in 8th grade, and Calculus in 9th grade.

Question: Has the student met the Area C requirement?

Answer: No. Coursework in 6th grade cannot be used to meet any A-G requirements. Therefore, Geometry is considered an omission, and no course will validate the omission of Geometry.



Example #3

SCENARIO

In AY 2024-25, a student completes the first semester of Algebra 2 with a C grade, then drops the second semester of Algebra 2.

Which course taken in AY 2025-26 and passed with a C or better will validate Algebra 2 second semester?

- a. **Statistics**
- b. **AP Computer Science A**
- c. **Calculus**
- d. **Data Science**

ANSWER

C: Calculus

Beginning with AY 2025-26, Statistics and Data Science courses will no longer validate Algebra 2. And AP Computer Science A has never validated any lower-level coursework.

Example #4

SCENARIO

Student completes the following:

Math I B, B

Math III D, C

Question: Has the student met the minimum Area C requirement?

Answer: Yes, the C in Math III second semester validates the first semester of Math III and the omission of Math II.



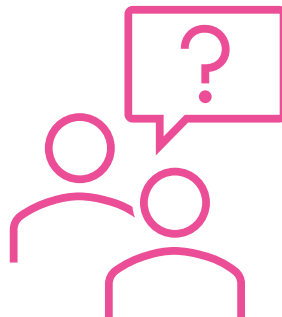
Example #5

SCENARIO

Student completes the following:

Algebra I B, B

Math III D, C



Question: Has the student met the minimum Area C requirement?

Answer: No. When students have a combination of stand-alone and integrated math courses, UC defaults to stand-alone validation. Math III is viewed as Algebra 2, which does NOT validate Geometry.

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Example #6

SCENARIO

A student earns the following grades:

AY 2024-25 Math III C, F

Summer 2025 Data Science C

Has the Algebra II/Math III requirement been met?

ANSWER

Yes.

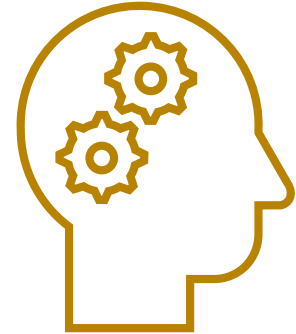
Through summer 2025, courses from the Statistics discipline – including Data Science – will continue to validate the omission of and/or deficient grades in Algebra II/Math III.

Example #7

SCENARIO

Beginning fall 2025 (AY 2025-26), which math disciplines will validate the omission of and/or deficient grades in Algebra II/ Math III?

- a. Precalculus
- b. Other Advanced Math
- c. Calculus
- d. All of the above



Example #8

SCENARIO

Beginning fall 2025 (AY 2025-26), which math disciplines will validate the omission of and/or deficient grades in Geometry?

- a. Precalculus
- b. Other Advanced Math
- c. Calculus
- d. None of the above



Resources

ACW Stage 1 report



ACW Stage 2 report



A-G Policy Resource Guide



Quick Reference Guide to UC Admissions 2024



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Thank you

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