College Ready or Not?
Opportunities in the 12th Grade Mathematics Transition Course

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College Ready or Not?

The Charles A. Dana Center: What we do

- Collaborate with local and national organizations
- Strengthen mathematics and science education
- Promote college and career readiness
- Focus on equity and access for all students

College Ready or Not?

The Charles A. Dana Center: How we do it

- Innovation
- Research & Practice
- Capacity-Building
- High Academic Standards
What Is the “Right Math”?  

**Associate's Degrees Awarded**
- Require calculus: 23%
- Do not require calculus: 77%

**Bachelor's Degrees Awarded**
- Require calculus: 38%
- Do not require calculus: 62%

Author’s calculations based on data from the Texas Higher Education Coordinating Board, 2013: Degrees Earned by CIP Code.

What are Mathematics Pathways?

A course or sequence of courses that students take to meet the requirements of their program of study.
Mathematics Pathways
Mathematics Association of America
Committee on the Undergraduate Program in Mathematics

“Unfortunately, there is often a serious mismatch between the original rationale for a college algebra requirement and the actual needs of students who take the course. A critically important task for mathematics sciences departments at institutions with college algebra requirements is to clarify the rationale for requirements, determine the needs of students, and ensure that department’s courses are aligned with these findings.”

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National Policy and Content Organizations Supporting Mathematics Pathways

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Trends Across Texas


<table>
<thead>
<tr>
<th>Year</th>
<th>Math 1342 Elementary Statistical Methods</th>
<th>Math 1332 Contemporary Mathematics</th>
<th>Math 1314 College Algebra</th>
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Trends Across the U.S.
Meanwhile…in K–12…

- Shifts in standards
- Transition courses

Transition to College Mathematics

Reflects modern mathematics
- Applying mathematical processes
- Numeric reasoning
- Proportional reasoning
- Algebraic reasoning
- Probabilistic reasoning
- Quantitative reasoning
Transition to College Mathematics

Content aligned to higher education mathematics pathways

+ embedded non-cognitive and college cultural capital content

= preparation for ALL entry-level mathematics courses

= re-engagement in mathematics

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For more information on the Dana Center, see
www.utdanacenter.org

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