

Purpose: This list offers key articles and reports that can inform the task force during state-level planning.

Instructions: Use this resource to inform the task force of related information about math pathways. Although specific resources are listed, task force members are invited to include their own customized, state-specific readings. Ultimately, this resource is a “living document” that should be updated regularly by the task force; it is recommended that one person update the list based on new, identified readings. Be mindful that a longer list is not always a better list. Consider identifying essential readings or setting expectations for completing background readings.

(Note: If a hyperlink for a particular resource does not open in your default web browser, copy and paste the URL listed in the footnotes or use a different browser to open the link.)

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Course Structures and Supports

- [Changing Equations: How Community Colleges are Rethinking College Readiness in Math](#) (LearningWorks)¹
- [Promoting Gateway Course Success: Scaling Corequisite Academic Support](#) (Complete College America)²
- [The New Mathways Project Readiness Assessment](#) (The Charles A. Dana Center)³

¹ http://www.learningworksca.org/wp-content/uploads/2013/10/LWBrief_ChangingEquations_WEB.pdf

² <http://completecollege.org/wp-content/uploads/2014/06/Promoting-Gateway-Course-Success-Final.pdf>

³ <http://www.utdanacenter.org/higher-education/new-mathways-project/the-new-mathways-project-in-texas/nmp-implementation-resources/nmp-institutional-scaling-toolkit/readiness-assessment>

Curriculum and Pedagogy

- [The Calculus Concept Inventory—Measurement of the Effect of Teaching Methodology in Mathematics](#) (American Mathematical Society)⁴
- [The Common Core State Standards: Mathematics Standards](#) (Common Core State Standards Initiative)⁵
- [The Mathematical Education of Teachers II](#) (Conference Board of the Mathematical Sciences)⁶
- [The New Mathways Project Curricular Materials](#) (The Charles A. Dana Center)⁷
- [Undergraduate Programs and Courses in the Mathematical Sciences: CUPM Curriculum Guide 2004 \(Summary\)](#) (The Mathematical Association of America)⁸

Evaluation of Mathematics Pathways Interventions

- [Community College Pathways: 2012–2013 Descriptive Report](#) (Carnegie Foundation for the Advancement of Teaching)⁹
- [Curricular Redesign and Gatekeeper Completion: A Multi-College Evaluation of the California Acceleration Project](#) (The California Acceleration Project)¹⁰
- [Laying the Foundations: Early Findings from the New Mathways Project](#) (The Charles A. Dana Center)¹¹

Modernizing the Field of Mathematics

- [A Common Vision for Undergraduate Mathematical Sciences Programs in 2025—Final Report \(Draft\)](#) (The Mathematical Association of America)¹²
- [Degrees of Freedom: Diversifying Math Requirements for College Readiness and Graduation](#) (Policy Analysis for California Education)¹³

⁴ <http://www.ams.org/notices/201308/rnoti-p1018.pdf>

⁵ <http://www.corestandards.org/Math>

⁶ <http://cbmsweb.org/MET2/met2.pdf>

⁷ <http://www.utdanacenter.org/higher-education/new-mathways-project/new-mathways-project-curricular-materials/>

⁸ <http://www.maa.org/sites/default/files/pdf/CUPM/summary.pdf>

⁹ http://www.carnegiefoundation.org/wp-content/uploads/2013/08/CCP_Descriptive_Report_Year_2.pdf

¹⁰ <http://cap.3csn.org/files/2014/04/RP-Evaluation-CAP.pdf>

¹¹ http://www.utdanacenter.org/wp-content/uploads/new_mathways_full_report_MDRC.pdf

¹² http://www.maa.org/sites/default/files/pdf/common-vision/common_vision_draft.pdf

¹³ <http://www.edpolicyinca.org/publications/degrees-freedom-diversifying-math-requirements-college-readiness-and-graduation-report-1-3-part-series>

- [Engage to Excel: Producing One Million Additional College Graduates with Degrees in Science, Technology, Engineering, and Mathematics](#) (President’s Council of Advisors on Science and Technology)¹⁴
- [Fueling Innovation and Discovery: The Mathematical Sciences in the 21st Century](#) (National Research Council)¹⁵
- [Insights and Recommendations from the MAA National Study of College Calculus](#) (The Mathematical Association of America)¹⁶
- [Prepare and Inspire: K–12 Education in Science, Technology, Engineering, and Math \(STEM\) for America’s Future](#) (President’s Council of Advisors on Science and Technology)¹⁷
- [Statistical Abstract of Undergraduate Programs in the Mathematical Sciences in the United States: Fall 2010 CBMS Survey](#) (Conference Board of the Mathematical Sciences)¹⁸
- [The History of the Undergraduate Program in Mathematics in the United States](#) (The Mathematical Association of America)¹⁹
- [The Mathematical Sciences in 2025](#) (National Research Council)²⁰
- [Transforming Post-Secondary Education in Mathematics: Report of a Meeting \(TPSE Math\)](#)²¹
- [What Does It Really Mean to Be College and Work Ready? The Mathematics Required of First Year Community College Students](#) (National Center on Education and the Economy)²²

¹⁴ https://www.whitehouse.gov/sites/default/files/microsites/ostp/pcast-engage-to-excel-final_2-25-12.pdf

¹⁵ <http://www.nap.edu/catalog/13373/fueling-innovation-and-discovery-the-mathematical-sciences-in-the-21st>

¹⁶ <http://www.maa.org/sites/default/files/pdf/cspcc/InsightsandRecommendations.pdf>

¹⁷ <https://www.whitehouse.gov/sites/default/files/microsites/ostp/pcast-stem-ed-final.pdf>

¹⁸ <http://www.ams.org/profession/data/cbms-survey/cbms2010-Report.pdf>

¹⁹ <http://www.maa.org/sites/default/files/pdf/CUPM/pdf/MAAUndergradHistory.pdf>

²⁰ <http://www.nap.edu/catalog/15269/the-mathematical-sciences-in-2025>

²¹ http://issuu.com/tpsemath/docs/austin_report

²² http://www.ncee.org/wp-content/uploads/2013/05/NCEE_MathReport_May20131.pdf

Policy and Practice Recommendations

Placement

- [A Call to Action to Improve Math Placement Policies and Processes](#) (The Charles A. Dana Center and Jobs For the Future)²³
- [Degrees of Freedom: Probing Math Placement Policies at California Colleges and Universities](#) (Policy Analysis for California Education)²⁴

Prerequisite Course Policies

- [Call to Action to Expand Access to Statistics](#) (The Charles A. Dana Center)²⁵
- [Mathematics Prerequisites for Success in Introductory Statistics](#) (The Charles A. Dana Center)²⁶
- [Position on The Appropriate Use of Intermediate Algebra as a Prerequisite Course](#) (American Mathematical Association of Two-Year Colleges)²⁷

Remediation

- [Core Principles for Transforming Remediation within A Comprehensive Student Success Strategy: A Joint Statement](#) (American Association of Community Colleges, Achieving The Dream, Complete College America, The Charles A. Dana Center, Education Commission of the States, and Jobs For the Future)²⁸

Transfer and Applicability

- [Modernizing Mathematics Pathways at Texas Universities: Insights from the New Mathways Project Transfer Champions](#) (The Charles A. Dana Center)²⁹
- [NMP Transfer and Applicability FAQ](#) (The Charles A. Dana Center)³⁰
- [Program of Study Issue Briefs](#) (The Charles A. Dana Center)³¹
- [Degrees of Freedom: Varying Routes to Math Readiness and The Challenge of Intersegmental Alignment](#) (Policy Analysis for California Education)³²

²³ <http://www.utdanacenter.org/wp-content/uploads/a-call-to-action-improve-math-051415.pdf>

²⁴ <http://www.edpolicyinca.org/publications/degrees-freedom-probing-math-placement-policies-california-colleges-and-universities-report-3-3-part-series>

²⁵ http://www.utdanacenter.org/wp-content/uploads/nmp_call_to_action_to_expand_access_to_statistics_full_version.pdf

²⁶ http://www.utdanacenter.org/wp-content/uploads/math_prerequisites_for_success_in_intro_statistics.pdf

²⁷ <http://www.amatyc.org/?page=PositionInterAlg>

²⁸ <http://www.core-principles.org/>

²⁹ http://www.utdanacenter.org/wp-content/uploads/modernizing_mathematics_pathways_at_texas_universities.pdf

³⁰ http://www.utdanacenter.org/wp-content/uploads/texas_transfer_and_applicability_FAQ_2014_September.pdf

³¹ <http://www.utdanacenter.org/higher-education/higher-education-resources/policy-resources/programs-of-study-mathematics-alignment/>

State Mathematics Task Force Work

Overview

- [Momentum for Improving Undergraduate Mathematics: Progress from State Mathematics Task Forces](#) (The Charles A. Dana Center)³³
- [NMP State-Level Mobilization](#) (The Charles A. Dana Center)³⁴

Published Recommendations

- [Colorado Math Pathways Task Force: Report and Recommendations](#) (Colorado Math Pathways Task Force)³⁵
- [Report and Recommendations of the Montana Math Pathways Task Force](#) (Montana Math Pathways Task Force)³⁶
- [Report and Recommendations of the Task Force on Gateway Mathematics Success](#) (Nevada System of Higher Education Task Force on Gateway Mathematics Success)³⁷
- [Report of the Houston Mathematics Pathways Task Force](#) (Houston Mathematics Pathways Task Force)³⁸
- [Report of the Missouri Mathematics Pathways Task Force on Building Math Pathways into Programs of Study](#) (Missouri Mathematics Pathways Task Force)³⁹
- [Rethinking Postsecondary Mathematics: Final Report of the Ohio Mathematics Steering Committee](#) (Ohio Mathematics Steering Committee)⁴⁰
- [University System of Georgia: Transforming College Mathematics](#) (The University System of Georgia Mathematics Task Force)⁴¹

³² <http://www.edpolicyinca.org/publications/degrees-freedom-varying-routes-math-readiness-and-challenge-intersegmental-alignment-report-2-3-part-series>

³³ http://www.utdanacenter.org/wp-content/uploads/dana_center_state_task_force_analysis_2015october.pdf

³⁴ http://www.utdanacenter.org/wp-content/uploads/nmp_state_level_mobilization_2016february.pdf

³⁵ http://www.utdanacenter.org/wp-content/uploads/colorado_math_pathways_task_force_2015november.pdf

³⁶ http://www.utdanacenter.org/wp-content/uploads/montana_math_pathways_report.pdf

³⁷ http://www.utdanacenter.org/wp-content/uploads/nevada_system_of_higher_education_report_and_recommendations_of_the_task_force_on_gateway_mathematics_april_2015.pdf

³⁸ http://www.utdanacenter.org/wp-content/uploads/houston_math_pathways_task_force_report_FINAL.pdf

³⁹ http://www.utdanacenter.org/wp-content/uploads/report_of_the_missouri_mathematics_pathways_task_force_on_building_math_pathways_into_programs_of_study.pdf

⁴⁰ https://ohiohighered.org/sites/ohiohighered.org/files/uploads/math/MATH-REPORT_FINAL_4.22.14.pdf

⁴¹ http://www.utdanacenter.org/wp-content/uploads/USG_Transforming_Remediation_Mathematics_Final_Report.pdf