

# Scaling Math Pathways: Key Resources for Colleges

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The following resources are available at the Dana Center Mathematics Pathways Resource Site, [www.dcmathpathways.org](http://www.dcmathpathways.org).

To receive monthly updates about the DCMP and new resources, email [dcmathpathways@austin.utexas.edu](mailto:dcmathpathways@austin.utexas.edu).

## Research and Background

*Making the Case for Math Pathways*: Brief summarizing the drivers that negatively impact student success in mathematics and how math pathways address these issues.

*DCMP Annotated Bibliography*: Summaries of research that influenced the Dana Center's work on math pathways.

## Implementation Resources

*DCMP Implementation Guide*: Comprehensive guide to prepare for effective implementation including:

- Key action items
- Guidance on engaging stakeholders
- Templates and exemplars

*DCMP Institutional Scaling Toolkit*: Readiness assessment to guide users to resources that address the following challenges:

- Aligning math pathways to programs of study
- Setting long-term goals for scaling
- Developing effective advising tools
- Increasing faculty engagement
- Using high impact practices to increase enrollment and improve student success

*Advising and Multiple Math Pathways*: Video outlines a step-by-step guide to develop a comprehensive advising plan using Dana Center resources and tools.

## Working Across Disciplines and Sectors

*Program-of-Study Issue Briefs*: Information about math course requirements in Business, Communications, Criminal Justice, Nursing, Social Work and Elementary Teacher Education.

*Examples of math pathways alignment to programs, state and institutional: Emerging Texas Math Pathways, Indiana Meta-Majors List, Victoria College Student Math Pathways Graphic Continued.*

*Modernizing Mathematics Pathways at Texas Universities*: Recommendations for effective implementation of math pathways for 4-year institutions and their community college partners.

## **Curriculum and Professional Learning**

Statistics pathway design: *Mathematics Prerequisites for Success in Introductory Statistics* and *A Call to Action to Expand Access to Statistics*.

*STEM-Prep Pathway: Content and Structure*: Summary of the research base and thinking that have gone into the Dana Center's re-envisioning of the path to Calculus. One of several papers about the Dana Center's work on to develop a more effective STEM-Prep pathway.

*Frameworks for Mathematics and Collegiate Learning Course*: Free curriculum for a learning frameworks course designed to help students develop the strategies and tenacity necessary to succeed in mathematics and in other college coursework.

DCMP Mathematics Courses: Course design standards, learning outcomes, course outlines, and sample materials. For those interested in reviewing or using the full courses, please contact a Pearson representative:

<http://www.pearsonhighered.com/educator/relocator/>.