

# Pathway to Calculus Symposium

## Preparing Students for Calculus: Discussing Current Research and Promising Practices

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### Rethinking your institution's pathway to Calculus?

The Charles A. Dana Center is pleased to offer a Pathway to Calculus Symposium, *Preparing Students for Calculus: Current Research and Promising Practices*. Hosted by [Rebecca Hartzler](#) and [Frank Savina](#), the symposium is a 4-part interactive webinar series that will engage mathematics faculty in real-time conversation about promising practices that help students not only prepare for—but also succeed in—calculus.

In this symposium, we will dive into selected research articles. In particular, we will look at methods that develop students' flexible conceptual understanding of functions, scaffolded with key noncognitive constructs such as active learning, collaborative learning, productive persistence, and productive struggle.

### Who is this symposium for?

This is an open invitation to mathematics faculty from colleges and universities in Mathematics Pathways to Completion (MPC) states. Faculty participants will learn about strategies for rethinking their institutions' pathways to calculus to better serve STEM-focused students, particularly those from historically underrepresented and underserved student populations.

Faculty members can sign up for some or all of the webinars. Those who participate in all four sessions will receive a certificate of completion.

### What are the symposium dates and topics of discussion?

Four interactive webinars will be hosted from 2:00 to 3:30 p.m. central time.

| Topics  | Dates        |
|---|--------------|
| Preparing students for calculus: Exploring current research   | March 23     |
| Choosing content: Balancing conceptual understanding with procedural fluency  | April 27     |
| Course architecture: Active and cooperative learning; noncognitive factors (e.g., productive persistence, productive struggle)                  | September 21 |
| Keeping it real: Conversations with the math department (community, content, architecture and rigor), partner disciplines, and student services | October 19   |

### How do I register?

To sign up for some or all of these webinars, please use this link:

<http://connect.txpod.org/e3okl9r65sh/event/registration.html>

Due to a limited number of web connections, participants will be registered on a first-come, first-served basis. Faculty members from the same college or university are encouraged to register as a school, and attend the webinars as a group, using one connection.