

Math Pathways Professional Development & Implementation



Lunch and Learn:
Facilitated by Dr. Melinda J. Anderson
October 15, 2024

Our Time Together Today



Review



The Way Forward



Next Steps

Gateway Math Course Pathways

What are Gateway Math Courses?

Gateway math courses form a conceptual framework designed to offer diverse and equitable pathways in mathematics education for students. Unlike the traditional one-size-fits-all approach, gateway math courses recognize that students have varied goals, interests, and strengths. This framework aims to provide a range of learning experiences aligned with students' future aspirations, whether academic, vocational, or technical. By catering to different learning styles and career objectives, this approach not only enhances student engagement but also increases the likelihood of success in both academic and real-world settings.

To that end, public post-secondary institutions in Kansas will offer up to three gateway math courses, giving programs greater flexibility in selecting a math course that aligns with the needs of students. (Institutions are only required to offer the gateway math courses that apply to programs on their campuses.)

These three courses are:

- Elementary Statistics
- Contemporary Math
- College Algebra

How were the decisions made?

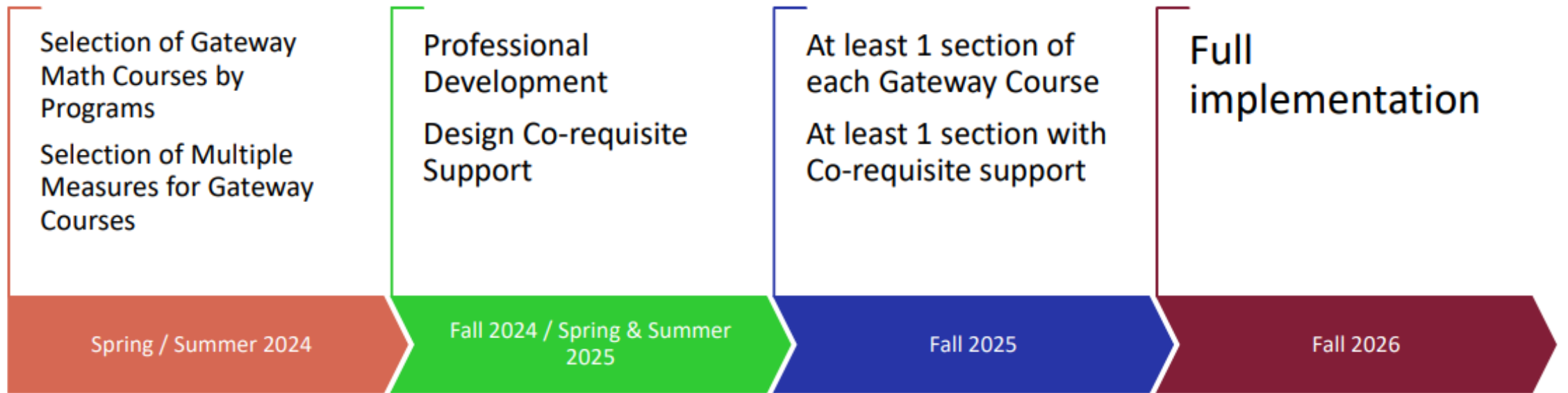
The following files contain the gateway math courses by program for each institution. These decisions were made by faculty members from various disciplines who gathered from across the state to discuss the different gateway math courses, review the learning outcomes for each, and select the course that best fits the needs of their students. Chief Academic Officers (CAOs) have confirmed these decisions.

[Gateway Math Courses by Program](#) (All Programs/All Institutions)

Gateway Math Courses by Gateway Math Course

- [College Algebra](#)
- [Contemporary Math](#)
- [Elementary Statistics](#)

Math Pathways Timeline



Multiple Measures



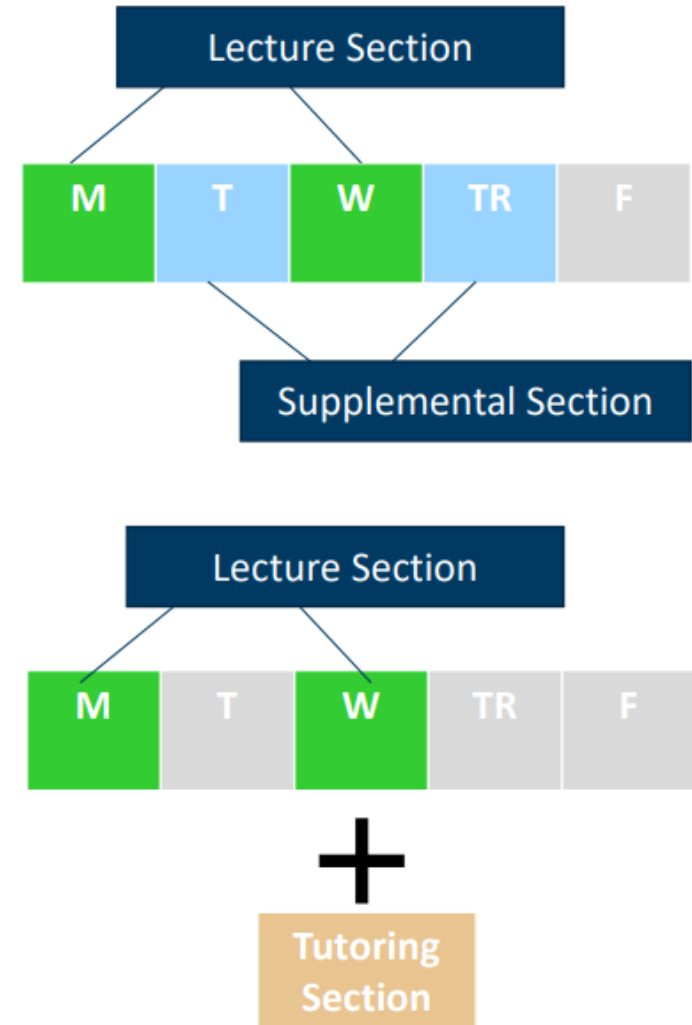
A Systemwide Course Placement Measure
Required for the Gateway Math Course
Associated with Their Major



Institutionally Designated Course Placement
Measure & Professional Discretion.

Corequisite Support Options

- Supplemental Course Selection
- Mandatory Tutoring
- Boot Camp Section
- Compressed Course Section



Dana Center Model

OUR MODEL

The DCMP model consists of four principles that emphasize both structural change and continuous improvement for mathematics pathways.

Institutions implement structural and policy changes quickly and at scale.

Mathematics pathways are structured so that:

PRINCIPLE

1

All students, regardless of college readiness, enter directly into mathematics pathways aligned to programs of study.

PRINCIPLE

2

Students complete their first college-level mathematics requirement in their first year of college.

Institutions and departments engage in a deliberate and thoughtful process of continuous improvement to ensure high-quality, effective instruction.

Students engage in a high-quality learning experience in mathematics pathways that are designed so that:

PRINCIPLE

3

Strategies to support students as learners are integrated into courses and are aligned across the institution.

PRINCIPLE

4

Instruction incorporates evidence-based curriculum and pedagogy.

The Way Forward

What questions do you still have about your work with students and math pathways?

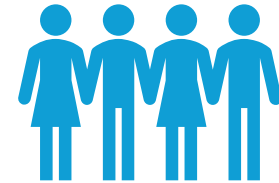
Next Steps



Data



Evaluation



Community Building

Advising Resources

THE KANSAS BOARD OF REGENTS
1925

ABOUT ACADEMIC AFFAIRS DATA STUDENTS UNIVERSITIES & COLLEGES WORKFORCE DEVELOPMENT

Home / Students / Advising Resources

ADVISING RESOURCES

We aim to empower advisors in guiding students through the insights to enhance your support as they navigate their path it.

See Transfer Options

More than 100 courses transfer seamlessly across the 32 public colleges and universities in Kansas. Help your students explore those transfer options and discover their path to degree completion.

Systemwide General Concurrent

- Admissions
- Adult Education
- Advising Resources**
- Apply Free Days
- Apply Kansas
- Dual Credit
- Credit for Prior Learning
- FAFSA Completion Challenge
- FAFSA Resources
- Free Expression Statement
- High School Counselor
- Information for Students and Prospective Students
- Kansas High School Diploma
- Military & Veteran Resources
- Residency FAQ
- Reverse Transfer
- Student Financial Aid
- Student Health Insurance
- Transfer & Articulation
- University Student Complaints

IN THIS SECTION:

- Admissions
- Adult Education
- Advising Resources**
- Apply Free Days
- Apply Kansas
- Dual Credit
- Credit for Prior Learning
- FAFSA Completion Challenge
- FAFSA Resources
- Free Expression Statement
- High School Counselor
- Information for Students and Prospective Students
- Kansas High School Diploma
- Military & Veteran Resources
- Residency FAQ
- Reverse Transfer