2025 OhioMATYC Annual Conference – Sinclair Community College - April 04, 2025

Conference Schedule

Time Slot	Session A (Room: 103)	Session B (Room: 111)	Session C (Room: 113)	Session D (Room: 115)
9:00 – 10:00am	**Registration & Refreshments (Room 124/GYM)**			
10:00 – 10:50am ***(50 min)***	**01.** Interactive Learning in an Inclusive Environment **Shada Salem** *Cincinnati State Technical and Community College*	***[10:00-11:30am: 90-minute workshop]*** **02.** Engaging Students: Real-World Math in Action **Kerri Bentjen, Kinga Oliver & Robert Chaney** *Sinclair Community College*	**03.** Using Desmos Calculator Tools to Enhance Instruction **Tim Guindon** *Desmos Studio PBC*	**04. XYZ Homework:** Supporting OER with the Latest Features and Courses, From Developmental Math to Advanced Levels **John Kunkel & Bruce Spears** *XYZ Homework*
11:00 – 11:50am ***(50 min)***	**05.** Unveiling Deep Learning: A Mathematical Journey for Educators **Moez Ben-Azzouz** *Sinclair Community College*		**06.** Enhance your Math Courses with Web Assign **(20 min)** **Brandon Groh & Logan Unger** *Cengage*	**07.** OER and You: Part Two **Sarah Long** *Terra State Community College*
12:00 – 1:30pm ***(90 min)***	**Lunch (Room: 124/GYM)** and **OhioMATYC Business Meeting (Room 124/GYM)**			
1:30 – 2:20pm ***(50 min)***	**08.** The Effects of Hybrid & Online Instructions on Students' Learning Achievements & Online Learning Experience **Poranee Khayo** *University of Cincinnati Blue Ash College*	**09.** The Language and Methods of Global Math **Victoria Kruglov & Kinga Oliver** *Sinclair Community College*	**10.** Enhancing Math Instruction with GeoGebra: Interactive Classrooms & Secure Assessments **Irina Boyadzhiev** *Ohio State University at Lima*	**11.** Note-worthy Strategies for Guided Lecture Notes **(20 min)** **Karen F. Smith & Rachel Frankel** *University of Cincinnati, Blue Ash College*

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2:30 – 2:50pm ***(20 min)***	**12.** ISMART Approach in Structuring Projects and Activities for Students' Engagement **Khadija Khazafi** *Stark State College*	**13.** Using Improvisation to Strengthen Communication & Collaboration Skills for STEM Students **Renee Seals & Sarah Ferguson** *University of Cincinnati*	**14.** Empowering Mathematics Learning with Google's NotebookLM **Charles Warburton** *University of Cincinnati-Clermont College*	**15.** State Policy, Advocacy and the Impact to Community College Math Faculty **Chan Siriphokha** *Clark State College*
3:00 – 3:50pm ***(50 min)***	**16.** AI-AI Oh! Artificial Intelligence and the Classroom **Michelle L. Younker** *Terra State Community College*	**17.** The Interesting Math that Flows from 2025 **Carl Sieke** *Institute for Learning in Retirement*	**18.** ANETs and OhioNETs? **Sarah Long** *Terra State Community College*	
4:00 – 4:30pm ***(30 min)***	**Open Forum: Discussing the Format of Future Conferences** Moderated by the OhioMATYC Board **(Room: 115)**			
4:30 – 4:40pm ***(10 min)***	**Announcements, Closing Remarks, and Thank you!** **(Room: 115)**			

Our Special thanks to the following sponsors for their contributions to the Ohio Mathematics Association of Two-Year Colleges 2025 Annual Meeting

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List of Talks & Abstracts

(Order as in the conference schedule)

01. Shada Salem (shada.salem@cincinnatistate.edu)
Cincinnati State Technical and Community College

Title of Presentation: Interactive Learning in an Inclusive Environment

Abstract: This presentation delves into effective strategies and activities aimed at creating inclusive learning environments across various disciplines. Highlighting equitable teaching practices, educators can ensure all students, regardless of background or ability, succeed academically. Additionally, the session addresses imposter phenomena among students, offering practical approaches to empower learners and alleviate self-doubt. Attendees will gain insights into actionable methods to foster confidence, engagement, and academic achievement among diverse student populations.

Duration: 50 Minutes

02. Kerri Bentjen (kerri.bentjen@sinclair.edu), **Kinga Oliver** (kinga.oliver@sinclair.edu) **& Robert Chaney** (robert.chaney@sinclair.edu)
Sinclair Community College

Title of Presentation: Engaging Students: Real-World Math in Action

Abstract: Come experience Sinclair College's NSF-funded multidisciplinary math curriculum, designed to enhance foundational courses like College Algebra, Trigonometry, and Calculus. Participate in hands-on activities using robots to engage students in active learning and connect math to real-world problem-solving. We'll demonstrate these activities and share student feedback.

Duration: 90 Minutes

03. Tim Guindon (timguindon@desmos.com)
Desmos Studio PBC

Title of Presentation: Using Desmos Calculator Tools to Enhance Instruction

Abstract: Whether new to Desmos or a seasoned veteran, this session will elevate your graphing skills as we explore the free 2D and 3D graphing calculators. Beginning with an introduction to the tools, you'll walk away with clear strategies for creating and sharing dynamic visualizations and interactions to enhance your content.

Duration: 50 Minutes

04. John Kunkel (john.kunkel@xyzhomework.com) **& Bruce Spears (**bruce@xyztextbooks**.com)**
XYZ Homework

Title of Presentation: XYZ Homework: Supporting OER with the Latest Features and Courses, From Developmental Math to Advanced Levels

Abstract: XYZ Homework: Your Partner for OER Course Management. We offer Print, custom eBook, and custom assignments support, as well as new features designed to simplify large course management.
Discover the difference and elevate your OER courses, we are so much more than just "MyOpenMath with Support".

Duration: 50 Minutes

05. Moez Ben-Azzouz (moez.ben-azzouz@sinclair.edu)
Sinclair Community College

Title of Presentation: Unveiling Deep Learning: A Mathematical Journey for Educators

Abstract: This 50-minute workshop for mathematics educators explores the key concepts of deep learning, including backpropagation, the chain rule, and gradient descent. Through intuitive explanations and hands-on examples, you'll gain a deeper understanding of how these mathematical principles drive modern AI, equipping you to inspire the next generation of learners.

Duration: 50 Minutes

06. Brandon Groh (brandon.groh@cengage.com) & Logan Unger (logan.unger@cengage.com)
Cengage

Title of Presentation: Enhance your Math Courses with Web Assign
Abstract: Learn how WebAssign can enhance your math courses with auto graded homework, readiness boot camp content to build student confidence, and Mastery learning problems for additional practice with student help tools. Online, affordable access to WebAssign with Cengage on-boarding support to create a path to student success!
Duration: 20 Minutes

07. Sarah Long (slong10@terra.edu)
Terra State Community College
Title of Presentation: OER and You : Part Two
Abstract: Join in the OER discussion! Looking to start? Come and join the fun! Already a pro? Bring your best discovered websites, ebooks, tools, etc and let's see what's out there!
Duration: 50 Minutes

08. Poranee Khayo (khayopk@ucmail.uc.edu)
University of Cincinnati Blue Ash College
Title of Presentation: The Effects of Hybrid & Online Instructions on Students' Learning Achievements & Online Learning Experience
Abstract: The study investigated the impact of hybrid and online instructional methods on students' learning achievements, attitudes towards mathematics, and their overall online learning experience. A quasi-experimental design was employed with two groups: hybrid and online. Participants were students enrolled in a mathematics course at the University of Cincinnati Blue Ash College. Data collection included quizzes, exams, and surveys administered towards the end of the term. The hybrid group completed surveys on paper in class, while the online group completed them online. The study analyzed quiz and exam scores alongside survey responses to determine any significant differences in performance and attitudes between the two instructional methods. This research contributes to the understanding of how different instructional methods affect students' learning achievements, experiences, and attitudes towards mathematics. The findings could inform future instructional strategies to enhance student engagement and achievement in mathematics courses.
Duration: 50 Minutes

09. Victoria Kruglov (victoria.kruglov@sinclair.edu) **& Kinga Oliver** (kinga.oliver@sinclair.edu)
Sinclair Community College

Title of Presentation: The Language and Methods of Global Math
Abstract: This interactive workshop explores key differences in math terms, symbols, and approaches between the US and countries like Poland, Ukraine, Russia, and more. As international student numbers grow, understanding these differences is essential. Participants will engage in practical tasks and discussions to familiarize themselves with diverse mathematical methods.
Duration: 50 Minutes

10. Irina Boyadzhiev (boyadzhiev.1@osu.edu)
Ohio State University at Lima

Title of Presentation: Enhancing Math Instruction with GeoGebra: Interactive Classrooms & Secure Assessments
Abstract: This session explores GeoGebra Classroom and GeoGebra Calculators. GeoGebra Classroom is a web-based tool that allows students to work on problems or activities while teachers monitor their progress in real time. We'll look at GeoGebra calculators and Exam Mode for secure testing. Attendees can participate using personal devices.
Duration: 50 Minutes

11. Karen F. Smith (smith5kn@ucmail.uc.edu) **& Rachel Frankel** (Rachel.Frankel@uc.edu)
University of Cincinnati, Blue Ash College

Title of Presentation: Note-Worthy Strategies for Guided Lecture Notes
Abstract: This presentation explores innovative uses of guided notes, focusing on their use as a support tool for students who miss class and integrating them in flipped classrooms. Student feedback on guided notes will be included and audience participation will be encouraged.
Duration: 20 Minutes

12. Khadija Khazafi (kkhazafi@starkstate.edu)
Stark State College

Title of Presentation: ISMART Approach in Structuring Projects and Activities for Students' Engagement
Abstract: In this presentation, we will discuss how structuring projects and activities in a quantitative reasoning course helps students connect the knowledge they get to the real-world situations. We will explore how the ISMART (Interdisciplinary, Specific, Measurable, Authentic, Realistic and Timely) approach in structuring projects helps students understand, apply and retain information.
Duration: 20 Minutes

13. Renee Seals (lawhorrm@ucmail.uc.edu) **& Sarah Ferguson** (ferguss6@ucmail.uc.edu)
University of Cincinnati

Title of Presentation: Using Improvisation to Strengthen Communication & Collaboration Skills for STEM Students
Abstract: STEM often involves creative, inquiry-based learning within a collaborative setting. Students often are immersed into situations that require high-level problem solving strategies that are spontaneous. Improvisation skills allow for STEM students to practice similar strategies without the concern for high-stakes "mistakes".
Duration: 20 Minutes

14. Charles Warburton (charles.warburton@uc.edu)
University of Cincinnati-Clermont College

Title of Presentation: Empowering Mathematics Learning with Google's NotebookLM
Abstract: This presentation explores how NotebookAI can be used by both instructors and students. Instructors will learn to use this AI tool to organize their course materials, streamline lesson planning, generate diverse problem sets, and more. They will also discover how they can help their students leverage NotebookLM for organizing learning material, summarizing complex texts, self evaluating, and deepening their mathematical understanding.
Duration: 20 Minutes

15. Chan Siriphokha (siriphokhac@clarkstate.edu)

Clark State College

Title of Presentation: State Policy, Advocacy and the Impact to Community College Math Faculty

Abstract: The OACC serves as an advocate for Ohio community colleges. An update will be given on their work and the new Senate Bill 104 with a focus on the impact to math faculty. We'll also discuss the Ohio State Share of Instruction funding formula which emphasizes math course completion.

Duration: 20 Minutes

16. Michelle L. Younker (myounke01@terra.edu)

Terra State Community College

Title of Presentation: AI-AI Oh! Artificial Intelligence and the Classroom

Abstract: How familiar with AI and its uses (and abuses) in the classroom are you? This presentation provides an introduction to artificial intelligence and how faculty might use it in the classroom. Examples of applications of AI and ethical considerations are explored.

Duration: 50 Minutes

17. Carl Sieke (pje188@comcast.net)

Institute for Learning in Retirement

Title of Presentation: The Interesting Math that Flows from 2025

Abstract: We will go on a treasure hunt to discover a wealth of interesting math connected to 2025 (the number, not the year). There's a lot more here than what we saw circulating around the internet at the beginning of the year.

Duration: 50 Minutes

18. Sarah Long (slong10@terra.edu)

Terra State Community College

Title of Presentation: ANETs and OhioNETs?

Abstract: A brainstorming session to discuss what ANETs are and if there is any interest in Ohio!

Duration: 50 Minutes