

Kansas Mathematical Association of Two-Year Colleges

Spring Conference . . . April 6, 2024

Johnson County Community College, Overland Park, KS

Program

- 8:30 – 9:00 Check-in, Onsite registration, and Light Snacks
- 9:00 – 9:15 Welcoming remarks, Announcements, Introductions, and a word from our AMATYC President
Mary Wisgirda, Dean of Math and Sciences, Johnson County Community College
George Hurlburt, AMATYC President, Corning Community College
- 9:15 – 10:00 ***Navigating the Corequisite Models***
Rochelle Beatty, Assistant Math Professor, Kansas City Kansas Community College
This presentation will focus on and describe the different corequisite models: stacked, embedded, and supplemental. Pros and cons of each model will be explained and then discussed by participants.
- 10:15 – 11:00 ***Diving Headfirst into College Algebra Corequisite***
Rhonda Barlow, Math Professor, Johnson County Community College
Jennifer Kennett, Math Professor, Johnson County Community College
With so many decisions to make in creating and implementing a corequisite course, our goal is to share with others the many options we considered and the reasons for the choices we made. We feel our course is unique and could be used as a model for others because it not only includes math topics needed for College Algebra but extends strategies to help students with study skills, test taking strategies, time management, and other life skills that can be extremely helpful. We also will present the data we have collected and compare it to our traditional College Algebra courses.
- 11:10-11:55 ***Kansas Math Pathways: Contemporary Math***
Theresa McChesney, Math Professor, Johnson County Community College
The Kansas Board of Regents Math Pathways Initiative directs 2-year and 4-year institutions to offer and/or create three Math Pathways courses: College Algebra, Elementary Statistics, and Contemporary Mathematics. At this presentation, Theresa McChesney will share where Johnson County Community College is in creating a new Contemporary Mathematics course and invite participants to share what steps their institutions are taking to create and offer this seamless transfer course.
- 12:00 – 1:00 Lunch (Café Tempo, Regnier Center)
- 1:00 – 1:25 ***AMATYC: Updates and Events***
Dale Johanson, AMATYC Central Region Vice President, Northeast CC
In this brief slide show, Dale highlights the numerous professional development opportunities that are available from the American Mathematical Association of Two-Year Colleges. You will see a variety of ways in which both faculty and students can participate and serve in AMATYC.
- 1:30 – 1:55 ***Best Practices for Teaching Time Value of Money in Contemporary Math***
Sean Keady, Math Instructor, North Central Kansas Technical College
Contemporary math is a new or infrequently taught course at many Kansas institutions of higher learning. The purpose of this presentation is to introduce methods and best practices when teaching the time value of money in a Contemporary Math course. Mortgages/debt, savings annuities and payout annuity examples will be presented with an emphasis on how to convey to students that the time value of money can be advantageous when saving or disadvantageous when in debt.
A month-by-month incremental debt calculation worksheet will be shown, which grants students an intuition of the topic. Some best practices for connecting direct calculations of time value of money solvers/calculators will also be explored.

2:10 – 2:55

Computing Pi: A Brief History

Steve Wilson, Professor Emeritus, Johnson County Community College

Over the centuries, different approaches have been employed to compute the decimal expansion of pi, which is now known to 100 trillion decimal places. We shall look at how inscribed and circumscribed polygons, series for the inverse tangent, and arithmetic-geometric means have each been used, with a brief mention of Ramanujan formulas and digit-extraction algorithms. The mathematics involved includes Euclidian geometry, basic algebra, trigonometry, power series, and different types of means from descriptive statistics. The stimulus for the study that resulted in this presentation was a very bright calculus 2 student.

3:05 – 3:45

KAMATYC Business Meeting

KAMATYC Association Meeting Agenda

April 6th, 2024

Johnson County Community College, Overland Park, KS

I. Call to Order

II. Additions to Agenda

III. Reports

Treasurer's Report

IV. Old Business

A. Minutes of 2018 KAMATYC Spring Conference

B. **Teaching** and **Math** Excellence Awards.

C. AMATYC Presidential Student Scholarship

V. New Business

A. AMATYC Information

a. 50th Annual Conference Nov. 14-17 in Atlanta, GA

b. Affiliate scholarships

B. Delegate appointments

a. State Delegates: Allen Shockley (Independence CC), Colby Keslar (JCCC)

b. Affiliate Delegate

C. Nominations for KAMATYC officers.

a. President-Elect

b. Secretary

c. Treasurer

D. Location and date of next KAMATYC conference.

VI. Close