



STEM Institute Professional Development Day Friday, July 27, 2018

The Math Department invites you to spend the day meeting and networking with your colleagues from the STEM Institute

8:30 a.m.	Continental Breakfast	MAN 103
8:50 a.m.	Welcome	MAN 103
9:00–9:50 a.m.	Where is “L” in STEM? Ave Latte	MAN 103
10:00–10:50 a.m.	Session A: By Knowing Just a Little More About Financial Aid, You Can Be a Partner in Student Success! Stephanie Fitzsimmons	MAN 103
	Session B: WebAssign Training for Faculty Megan Maxwell and Rachael Scardelli	MAN 105
	Session C: Mathematical Mindsets – An Influencer of Academic Goal Achievement and Student Success Deicy Ahmad-Chaustre, Katherine Edward, Diane Morehead, Rajkumari Wesley, and Rebecca Rozario	MAN 104
11:00–11:50 a.m.	Session A: Universal Design for Learning (UDL): A Best Practice for Every Classroom Sara Burrill	MAN 103
	Session B: CANVAS Updates: New Communication Link for Brookdale Adjuncts and CANVAS Tips for Students and Faculty Richard Jesmajian and Jonathan Shaloum	MAN 105
	Session C: An Alternative to the Quadratic Formula Fred Burg	MAN 104

12:00–1:00 p.m.	Lunch	MAN 103
12:30–1:00 p.m.	The “New” Brookdale Bookstore Trupti Ashar and Peter Maranzano	MAN 103
1:00–1:50 p.m.	Session A: Course Design for Student Success Margo Wolfson	MAN 103
	Session B: Explore Math with Desmos Spyro Roubos and Ana Teodorescu	MAN 105
	Session C: Prealgebra Curriculum Revision Discussion Daniel Lopez	MAN 104

Keynote Address

Where is the “L” in STEM – Ave Latte

Complex cognitive processing and problem solving demand strong literacy skills. Knowledge that is presented to the naïve learner through mathematical and graphical representations may seem to be daunting when literacy flexibility is compromised. Research indicates that when learning is made visible, students unlock key constructs that enhance their abilities to understand, analyze and synthesize new knowledge. What are these processes and how do effective instructional practices promote the transfer of STEM concepts and applications?

Workshops Descriptions

By Knowing Just a Little More About Financial Aid, You Can Be a Partner in Student Success – Stephanie Fitzsimmons

You don't have to be a financial aid expert to understand how financial aid impacts:

- A student's ability to use financial aid to purchase books
- A student who is monitored as never attending a class
- The requirement to maintain Satisfactory Academic Progress (SAP)

Financial Aid assists students in reducing financial barriers which could stand in the way of their success in attaining their educational goals. Some students are not always proactive in learning their rights and responsibilities, or understanding the information provided. Learning just enough can give you an edge on assisting students as they understand more about their financial aid journey.

Mathematical Mindsets: An Influencer of Academic Goal Achievement and Student Success – Deicy Ahmad-Chaustre, Katherine Edward, Diane Morehead, Rebecca Rozario, and Rajkumari Wesley

The concept of "mathematical mindset" has emerged at the forefront of research in math education. Dr. Jo Boaler, a professor at Stanford University, has developed new pedagogies that have been shown to transform students' experiences in the math classroom. As part of a Brookdale Innovation Grant, an interdisciplinary team trained four math faculty in mathematical mindset techniques. In this presentation, we will share how to design rich, open-ended math tasks to encourage curiosity, creativity, and collaboration; re-envision and recast student mistakes; and help students develop a growth mindset so they can persist in learning and resist stereotypes.

WebAssign Training for Faculty – Megan Maxwell and Rachael Scardelli

This workshop will give instructors a quick start to using WebAssign and will walk faculty through some of its features and functionality. Faculty will learn how to create or copy a course, add and schedule assignments, and how to help students get set up. This workshop will also show faculty how to integrate their WebAssign course into Canvas to help further simplify the WebAssign registration process for students.

A Universal Design for Learning (UDL): A Best Practice for Every Classroom – Sara Burrill

This presentation gives an overview of Universal Design for Learning (UDL), a best practice for teaching students of diverse learning styles and abilities. When it comes to curriculum design, lesson planning and assessment construction, educators employ UDL to support and challenge as many students as possible in a single classroom. UDL strategies are streamlined, purposeful and creative. This presentation focuses on UDL strategies most appropriate for the community college classroom, with specific examples included.

CANVAS Updates: New Communication Link for Brookdale Adjuncts and CANVAS Tips for Students and Faculty – Richard Jesmajian and Jonathan Shaloum

Learn about a new and, we hope, exciting and useful CANVAS course titled Brookdale-Adjunct-Faculty. It is designed to enable Brookdale's adjuncts to easily email and interactively share information and communicate with fellow Brookdale adjuncts on an individual, Departmental, Institute, or Everyone basis. We will also share useful tips for the CANVAS learning management system. Highlighted will be Notifications; Mobile Functionality; CANVAS Conversations; and Assignment Submissions.

An Alternative to the Quadratic Formula – Fred Burg

The Quadratic Formula has been used for thousands of years for solving Quadratic Equations. Yet it presents problems to students having to memorize this. It also does not have a complete geometric interpretation. This talk will present an alternative to the Quadratic Formula and discuss some of the geometric significance.

The “New” Brookdale Bookstore – Trupti Ashar and Peter Maranzano

On May 29th, the College bookstore transitioned to Follett Higher Education Group management. Please join Trupti Ashar and Peter Maranzano as they introduce Follett and share the new features and options available to students and faculty at the bookstore.

Course Design for Student Success – Margo Wolfson

Margo Wolfson will share insights from the June, 2018 "Course Design" workshop, a collaborative effort by NJCCC's Center for Student Success:

1. Developing a summative assignment, formative assignment and grading rubric in CANVAS
2. How students best learn, and effective teaching methods.

Explore Math with Desmos – Spyro Roubos and Ana Teodorescu

Learn how to use and incorporate Desmos.com into your class to demonstrate general curve-behavior and utilize the Desmos Activity Builder to create unique and engaging digital activities for students.

PreAlgebra Curriculum Revision Discussion – Daniel Lopez

The Prealgebra Curriculum Committee has begun work on revising the MATH 011/012/015 courses. The new curriculum will be rolled out beginning in the Fall 2019 semester. While the basic content of the course will remain the same, we will be implementing projects to promote financial literacy and concept-based activities to promote critical thinking and reasoning. At this session, we will briefly outline the new course and the progress of our work thus far. Then we will discuss ideas for financial literacy projects and conceptual activities that can be used to motivate specific topics. If you have any critical thinking or reasoning activities you like to use in class, please share them with us at this session; we are open to having multiple options in the course guidelines from which instructors can choose.

Thank
you



The Brookdale Mathematics Department is grateful
for the support received from
the following co-sponsors of this Professional
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