

	9:30-10:00 a.m.	10:15-10:45 a.m.	11:00-11:30 a.m.	12:30-1:00 p.m.	1:15-1:45 p.m.	2:00-2:30 p.m.	3:00-3:30 p.m.	3:45-4:15 p.m.
KIERLAND 1A	Modeling in the Curriculum from 5th Grade Through Calculus <i>Math Education / Teacher Prep</i> Patrice Tiffany & Rosemary Farley <i>Manhattan College</i>	The Importance of Modeling in Calculus and Differential Equations Courses <i>Beyond Calculus</i> Rosemary Farley & Patrice Tiffany <i>Manhattan College</i>		Z(app) the Tedium: Apps and Applications for Liberal Arts Students <i>Real World Applications</i> Thomas Pirnot <i>Kutztown University</i>	A Simpson Surprise <i>Calculus</i> Eric Schulz <i>Walla Walla Community College</i>	Assessment for Online Statistics with or without Proctoring <i>Pedagogy, Assessment & Research</i> Rodica Cazacu & George Cazacu <i>Georgia College</i>	Problem-Based Learning to Enhance Students' Achievement <i>Pedagogy, Assessment & Research</i> Lazara Ferrer & Marta Brito-Villani <i>Miami Dade College</i>	Exploring Calculus with Mathematica <i>Calculus</i> Somaya Muiny <i>Georgia State University</i>
KIERLAND 1B		College Algebra Early Intervention: Success for Some - Failure for Others <i>Before Calculus</i> Phoebe Rouse, Debra Kopcsó & Stephanie Kurtz <i>Louisiana State University</i>	Using Geometer's Sketchpad to Solve Challenging Problems <i>Before Calculus</i> Mary Jane Sterling <i>Bradley University</i>	Geometry Explorations - Discovery At Your Fingertips with Classpad.net <i>Before Calculus</i> Karen Greenhaus <i>Drexel University</i>	Answering Questions with Educreations Outside the Classroom <i>Before Calculus</i> Pamela Webster <i>Texas A&M Commerce</i>	Linear Programming: Using Original Software To Enhance Teaching <i>Before Calculus</i> Timor Sever <i>Houston Community College</i>	Using Excel with Internet Data in an Introduction Quantitative Methods Business Course <i>Before Calculus</i> Cathleen Zucco-Teveloff <i>Rider University</i>	Flex Your Learning with Mastery Based Algebra <i>Before Calculus</i> Alison Bonner <i>Pennsylvania State University</i>
KIERLAND 1C			Fostering Classroom Interaction in Calculus Using Student Response Technology <i>Calculus</i> Przemyslaw Bogacki <i>Old Dominion University</i>	Using Technology to Increase Student Engagement in Online Calculus Courses <i>Calculus</i> Laurie Woodman <i>University of Southern Maine</i>	Discrete Math Resources for Continuous Learning <i>Beyond Calculus</i> Andrew Beiderman <i>Community College of Baltimore County</i>	Keeping in Summer Shape (KiSS) in Calculus <i>Calculus</i> Carla VanDeSande <i>Arizona State University</i>	Presenting a Comprehensive Library of GeoGebra Applets for Linear Algebra <i>Beyond Calculus</i> James Factor <i>Alverno College</i>	Number Theory + Python = a Perfect Partnering <i>Beyond Calculus</i> Irina Shablinsky <i>Purchase College, SUNY</i>
KIERLAND 4A	Flipping the Corequisite Statistics Course <i>Corequisite</i> Michael Sullivan <i>Joliet Junior College</i>	Strategies to Improve Success for Online Math Students <i>Corequisite</i> Fitzroy Farquharson <i>Valencia College</i>		Corequisite Implementation - Bootcamps or Semester Courses? <i>Corequisite</i> Anne Fischer <i>Tulsa Community College</i> Jamie Blair <i>Orange Coast College</i>	CALL for a Coreq <i>Corequisite</i> Kimberly Walters <i>Mississippi State University</i>	Accelerated Math Sequences: Methodology and Techniques for Coreqs & Math Jams <i>Corequisite</i> Jennifer Crawford <i>Normandale Community College</i> Jamie Blair <i>Orange Coast College</i> Anne Fischer <i>Tulsa Community College</i>	Incorporating Mindsets into Corequisite Support Courses <i>Corequisite</i> George Woodbury <i>College of the Sequoias</i>	A Corequisite Pilot - First Semester Results <i>Corequisite</i> Salvador Vera <i>Northern Arizona University</i>
KIERLAND 4B	Perfect Examples in Statistics <i>Statistics</i> Marty Triola <i>Dutchess Community College</i>	Random Number Generators, Simulations, and the Central Limit Theorem <i>Statistics</i> Paul Bouthellier <i>University of Pittsburgh, Titusville</i>	Apps in Intro Stat: Where, When and Why <i>Statistics</i> Bernhard Klingenberg <i>Williams College</i>	Using Technology to Foster Students' Conceptual Understanding of Correlation <i>Statistics</i> Melanie Autin <i>Western Kentucky University</i> Laura Taylor <i>Elon University</i>		A Final Project Design: Three Phases for Success <i>Statistics</i> Carrie Grant <i>Flagler College</i>		Teaching Data Visualization with Power BI <i>Statistics</i> Maureen Petkewich <i>University of South Carolina, Darla Moore School of Business</i>
KIERLAND 4C	Why Would I Ever Want to Use the Custom Question Builder? <i>MyLab Math</i> Gwen Terwilliger <i>University of Toledo</i>	Jazz Up Your e-Statistics Poster Board with StatCrunch <i>MyLab Math</i> Lourdes Espana & Maria Alvarez <i>Miami Dade College</i>	Personalizing MyLab Math to Improve Students' Success <i>MyLab Math</i> Rachid Ait Maalem Lahcen & Ram Mohapatra <i>University of Central Florida</i>	The Publishing World Is NOT Flat <i>MyLab Math</i> Nathan Ritchey <i>Kent State University</i>	Overview on Teaching an Online Statistics Class with MyLab Math <i>MyLab Math</i> Sam Zhang <i>Union County College</i>	Results of Digital Courseware Project Using Learning Catalytics and Technology <i>MyLab Math</i> Eric Samansky & Jason Gershman <i>Nova Southeastern University</i>	Coordinator Courses in MyLab Math <i>MyLab Math</i> William Tschume <i>Mississippi State University</i>	Using Machine Learning to Get More Out of MyLab Math Data <i>MyLab Math</i> Aaron Smith <i>Seminole County Public School</i>
TRAILBLAZER E	Document Camera Fun! <i>Pedagogy, Assessment & Research</i> Thomas Carson <i>Franklin Classical School</i>	Diving Deeper: Does "Success" Mean All Are Succeeding? <i>Pedagogy, Assessment & Research</i> Brian Beaudrie & Barbara Boschmans <i>Northern Arizona University</i>	Trying the Trends: Flipped, Hybrid, Online, Video, Clickers, and More <i>Pedagogy, Assessment & Research</i> Brian Rickard <i>University of Arkansas</i>	How Technology Can Help Develop Student Writing Skills <i>Pedagogy, Assessment & Research</i> Jeffrey Clark <i>Elon University</i>	Learning Assistants in Blended Classrooms - Peer Learning On-site and Online <i>Pedagogy, Assessment & Research</i> Margaret Moore <i>University of Southern Maine</i>	The Role of Technology in Inverted Versus Traditional Instruction <i>Pedagogy, Assessment & Research</i> Reza Abbasian & John Sieben <i>Texas Lutheran University</i>	The Future Is High Tech - but Success May Be Low Tech <i>Pedagogy, Assessment & Research</i> Amy Bell <i>Central Carolina Technical College</i>	Cultivating Technologically Guided Culturally Relevant Mathematics <i>Pedagogy, Assessment & Research</i> Bathi Kasturiarachi <i>Kent State University, Stark</i>

	9:00-9:30 a.m.	9:45-10:15 a.m.	10:30-11:00 a.m.	11:15-11:45 a.m.	12:45-1:15 p.m.	1:30-2:00 p.m.	2:15-2:45 p.m.	3:00-3:30 p.m.	3:45-4:15 p.m.
KIERLAND 1A	<p>Is It Magic? No, It's Mathematics <i>Before Calculus</i></p> <p>Terry Krieger <i>Rochester Community and Technical College</i></p>	<p>Spreadsheets for Quantitative Reasoning: An Excel-lent Way to Engage Your Students with Mathematics <i>Before Calculus</i></p> <p>Eric Gaze <i>Bowdoin College</i></p>	<p>Quantitative Literacy for the Masses! <i>Before Calculus</i></p> <p>Rachael Lund <i>Michigan State University</i></p>	<p>Sequences, Discrete Functions, and Series Using Technology in College Algebra <i>Before Calculus</i></p> <p>Lisa Yocco <i>East Georgia State College</i></p>	<p>Assessing the Impact of the Emporium Model on Student Performance <i>Before Calculus</i></p> <p>Kathy Cousins-Cooper, Dominic Clemence, Nicholas Luke, Seongtae Kim & Katrina Nelson <i>North Carolina A&T State University</i></p>	<p>Trials and Triumphs at the MALL (Math Active Learning Lab) <i>Before Calculus</i></p> <p>Michele Iiams, Tim Prescott & Gwennie Byron <i>University of North Dakota</i></p>	<p>Inject Some Life into Your Classroom with Technology and Humor <i>Before Calculus</i></p> <p>Kory Swart <i>Kirkwood Community College</i></p>	<p>Animation and Simulation for Mathematics Courses <i>Before Calculus</i></p> <p>Richard Herbst <i>Montgomery County Community College</i></p>	<p>An Alternative Method for Solving Rational Inequalities <i>Before Calculus</i></p> <p>Timor Sever <i>Houston Community College</i></p>
KIERLAND 1B	<p>A Continuing Look into Calculus Placement <i>Calculus</i></p> <p>Robert Banik <i>Mississippi State University</i></p>	<p>Designing a 3D Video Game with P5.js <i>Beyond Calculus</i></p> <p>Paul Bouthellier <i>University of Pittsburgh, Titusville</i></p>	<p>Graphing Polar Curves Using Excel <i>Calculus</i></p> <p>Nadeem Aslam <i>Florida International University</i></p>	<p>Creating Interactive Documents for Mathematics Education <i>Calculus</i></p> <p>Daniel Skoog <i>Maplesoft</i></p>	<p>A Catapult Course in OpenScad for 3D printing <i>Beyond Calculus</i></p> <p>Knarik Tunyan <i>Purchase College, SUNY</i></p>	<p>Defeating Ambiguity: Modeling Problems with Calculus <i>Calculus</i></p> <p>Andrew Plucker & William Corson <i>United States Military Academy</i></p>		<p>Is Bread the Most Efficient Shape? <i>Calculus</i></p> <p>Dwight Horan <i>Wentworth Institute of Technology</i></p>	<p>Multivariable Calculus Visualizations in GeoGebra and Virtual Reality <i>Calculus</i></p> <p>Piotr Runge <i>Utah State University</i></p>
KIERLAND 1C	<p>Service Learning in a Mathematics Education Course <i>Math Education / Teacher Prep</i></p> <p>Nikita Patterson & Kimberly Bennekin <i>Georgia State University, Perimeter College</i></p>	<p>GAISE-based Statistics for the Elementary Teacher - Comparison of Students' Learning in Online and Face-to-Face Classes <i>Math Education / Teacher Prep</i></p> <p>Cynthia Stenger <i>University of North Alabama</i></p>		<p>Math and Reading Goes Hand-in-Hand <i>Math Education / Teacher Prep</i></p> <p>Shannon Solis & Tonia Garrett <i>San Jacinto College</i></p>		<p>Enhancing the Geometry Classroom with GeoGebra Projects <i>Math Education / Teacher Prep</i></p> <p>Violeta Vasilevska <i>Utah Valley University</i></p>	<p>Improving Preservice Teachers' Noticing Expertise Through Technology-Integrated Mathematics Content Courses <i>Math Education / Teacher Prep</i></p> <p>Mi Yeon Lee <i>Arizona State University</i></p>	<p>Fostering Imagination and Creativity with GeoGebra in Mathematics Teacher Education <i>Math Education / Teacher Prep</i></p> <p>Dr. Joseph Furner <i>Florida Atlantic University</i></p>	
KIERLAND 4A	<p>The Pros and Cons of the Flipped Model Classroom Using IBL <i>Pedagogy, Assessment & Research</i></p> <p>Caroline Caswell <i>Rhode Island College</i> Gail St. Jacques <i>Johnson & Wales University</i></p>	<p>Cognitive Ease and STEM Courses ... Are we Helping Too Much? <i>Pedagogy, Assessment & Research</i></p> <p>Jill Whealon <i>University of Maryland, University College</i></p>	<p>Striving for Gains: Implementing Growth Mindset in a Calculus Classroom <i>Pedagogy, Assessment & Research</i></p> <p>William Corson & Andrew Plucker <i>United States Military Academy</i></p>	<p>Supporting Students Online Through Web Conferencing <i>Pedagogy, Assessment & Research</i></p> <p>Christina Holdiness <i>University of California, Riverside</i></p>	<p>Using PowerPoint to Create Videos for Teaching Mathematics <i>Pedagogy, Assessment & Research</i></p> <p>Thomas Klein <i>Marshall University</i></p>		<p>Designing an Effective Mathematics Placement Test <i>Pedagogy, Assessment & Research</i></p> <p>Jacob Dasinger <i>University of South Alabama</i></p>	<p>Socrative App for Active Student Responses <i>Pedagogy, Assessment & Research</i></p> <p>Vicki Ingalls <i>Tiffin University</i></p>	<p>Integrating Parallel Notes Delivery and Study Sets <i>Pedagogy, Assessment & Research</i></p> <p>Rachid Ait Maalem Lahcen & Ram Mohapatra <i>University of Central Florida</i></p>
KIERLAND 4B	<p>Using Real World Data Means Math Solves Real World Problems <i>Real World Applications</i></p> <p>Jason Gregersen <i>Michigan Technological University</i></p>							<p>Understanding Differences Between American and Mediterranean Diets <i>Real World Applications</i></p> <p>Azar Raiszadeh <i>Chattanooga State Community College</i></p>	
KIERLAND 4C	<p>A Graphical Interface for R and Python; Data Desk and Data Science <i>Statistics</i></p> <p>Paul Velleman <i>Cornell University</i></p>	<p>Goodbye Chalkboard! Hello Mobility! <i>Statistics</i></p> <p>Iva Ballard <i>Mississippi State University</i></p>	<p>Simulations via StatCrunch Applets <i>Statistics</i></p> <p>George Bratton <i>University of Central Arkansas</i></p>	<p>Simulation Tools for Introductory Statistics <i>Statistics</i></p> <p>Barbara Bennie <i>University of Wisconsin, La Crosse</i> Erick Hofacker <i>University of Wisconsin, River Falls</i></p>		<p>Activities for Introductory Statistics <i>Statistics</i></p> <p>Carla Hill <i>Marist College</i></p>	<p>Is There Room for Data Science in an Introductory Statistics Class? <i>Statistics</i></p> <p>Robert Gould <i>University of California, Los Angeles</i></p>		
TRAILBLAZER E	<p>The Mathematics of the Movie Gifted Marv Bittinger <i>Indiana University - Purdue University Indianapolis</i></p>	<p>Effective Use of Technology in Teaching Collegiate Math Courses <i>Pedagogy, Assessment & Research</i></p> <p>Kuppapalle Vajravelu <i>University of Central Florida</i></p>	<p>An Interactive, Activity-based, Technology-driven College Algebra Classroom - Will You Survive? <i>Pedagogy, Assessment & Research</i></p> <p>Ralph Bertelle <i>Columbia-Greene Community College</i> Ernie Danforth <i>Corning Community College</i> Roy Cameron <i>SUNY Cobleskill</i> Trish Shuart <i>Polk State College</i></p>	<p>GeoGebra Tools for Visualizing Integration (with Mapping Diagrams) <i>Calculus</i></p> <p>Martin Flashman <i>Humboldt State University</i></p>	<p>Using CalcPlot3D to Create Dynamic Figures for OER Textbooks and to 3D Print Surfaces for Multivariable Calculus and Beyond <i>Calculus</i></p> <p>Paul Seeburger <i>Monroe Community College</i></p>	<p>Quantitative Reasoning Explorations F <i>Before Calculus</i></p> <p>Sarah Mabrouk <i>Framingham State University</i></p>			

MINI-COURSES Friday, March 15
DON'T MISS: Breakfast & Keynote Address 8:00 a.m.

	10:00-11:30 a.m.	12:30-2:00 p.m.	2:15-3:45 p.m.
MERRIAM	Graphing with GeoGebra <i>Before Calculus</i> David Ray <i>University of Tennessee, Martin</i>	Assessment: From a Silent Killer of Learning to an Active Driver of Deeper Learning <i>Real World Applications</i> Kristin Arney, Kayla Blyman, Lisa Bromberg, Scott Lynch, Scott Warnke & Frank Wattenberg <i>United States Military Academy</i>	Drones, Climate Science, Hot Cars, Personal and Public Health Policy and Math <i>Real World Applications</i> Bryan Adams, Diana Thomas & Frank Wattenberg <i>United States Military Academy</i>
LOWELL	Modeling with Spreadsheets <i>Before Calculus</i> Eric Gaze <i>Bowdoin College</i>	Welcome to Mathematica® <i>Real World Applications</i> Jason Gregersen <i>Michigan Technological University</i>	Enhance Your Mathematics Classroom Using Active Learning and Technology <i>Calculus</i> Angie Hodge <i>Northern Arizona University</i> Cindy York <i>Northern Illinois University</i>
TRAILBLAZER A		Maple for the Classroom: Tips, Tricks, and Techniques <i>Calculus</i> Douglas Meade <i>University of South Carolina</i> Phillip Yasskin <i>Texas A&M University</i>	Camtasia: Beginnings <i>Teaching Math Online</i> Sarah Mabrouk <i>Framingham State University</i>

MINI-COURSES Saturday, March 16
DON'T MISS: Breakfast & Keynote Address 8:00 a.m.

	9:00-10:30 a.m.	10:45 a.m.-12:15 p.m.	12:45-2:15 p.m.	2:30-4:00 p.m.
MERRIAM	Visualizing Multivariable Calculus & Differential Equations Using CalcPlot3D <i>Calculus</i> Paul Seeburger <i>Monroe Community College</i>	Designing an Effective Corequisite Program, Including Algebra and Statistics Activities <i>Corequisite</i> Jay Lehmann <i>College of San Mateo</i>		
LOWELL	Using a Comprehensive Library of GeoGebra Applets for Linear Algebra <i>Beyond Calculus</i> James Factor <i>Alverno College</i> Susan Pustejovsky <i>Alverno College</i>	Camtasia: Video Editing <i>Teaching Math Online</i> Sarah Mabrouk <i>Framingham State University</i>	Mobile Apps for Encouraging Student Interaction in Math Classes <i>Pedagogy, Assessment & Research</i> Revathi Narasimhan <i>Kean University</i>	Using Desmos to Encourage Mathematical Discourse and Reasoning <i>Math Education / Teacher Prep</i> Erick Hofacker <i>University of Wisconsin, River Falls</i>
TRAILBLAZER A		Proofs without Words Demonstrated in Active Videos <i>Math Education / Teacher Prep</i> John Diamantopoulos <i>Northeastern State University</i>	GeoGebra Tools for Creating Mapping Diagrams: From Worksheets to Books <i>Math Education / Teacher Prep</i> Martin Flashman <i>Humboldt State University</i>	Teaching an Online Statistics Course Using MyLab Math <i>Statistics</i> Sam Zhang <i>Union County College</i>