OnLine Seminar on Undergraduate Mathematics Education
https://olsume.org
2017–2018

Sep 12 Curated Courses in Mathematics
Petra Bonfert-Taylor, Dartmouth
Sara Eichhorn, University of California, Irvine
David Farmer American Institute of Mathematics
Jim Fowler, Ohio State University

Sep 26 Rolling the dice: Flipping an introductory probability and statistics class
Jerry Orloff and Jon Bloom, Massachusetts Institute of Technology

Oct 10 Mathematical manipulatives: The MIT Mathlets
Haynes Miller and Jennifer French, Massachusetts Institute of Technology

Oct 24 From lecture to active learning: Rewards for all, and is it really so difficult?
David Pengelley, Oregon State University

Nov 7 MAA’s Instructional Practice Guide: Introduction to a new resource
Beth Burroughs, Montana State University

Nov 21 Transforming the gateway: Redesigning large introductory-level courses
Teena Gerhardt, Michigan State University

Dec 5 Active learning at Penn: 2013–2017
Robin Pemantle, University of Pennsylvania

Dec 19 Supporting graduate students for successful teaching experiences
Emily Braley, Harvard University and Duke University
Robin Gottleib, Harvard University

Feb 6 Impacting students’ practice of mathematics, especially at critical moments
Dev Sinha, University of Oregon

Feb 20 Active learning 2.0: Making it inclusive
Darryl Yong, Harvey Mudd College

Mar 6 The Illinois Geometry Lab: Fostering a culture of undergraduate research and community engagement in mathematics departments
Jeremy Tyson, University of Illinois at Urbana-Champaign

Apr 3 Mathematics emporium with adaptive technology
Andrew Tonge, Kent State University

Apr 17 A radical approach to calculus
David Bressoud, Macalester College

May 1 The Inquiry Oriented Differential Equations Project
Chris Rasmussen, San Diego State University

May 15 Inquiry based learning calculus
Angie Hodge, University of Nebraska Omaha
2018–2019

Sep 18  Rising to the challenge of diversifying the mathematics community
Allisa Crans, Loyola Marymount University
Dave Kung, St. Mary’s College of Maryland

Oct 2  Active Calculus
Matt Boelkins, Grand Valley State University

Oct 16  Educating the future professoriate:
Summer Institute for Graduate Teaching Assistants
Catherine Snyder, Peter Turner, Seema Rivera, Clarkson University

Oct 30  The College Mathematics Instructor Development Source (CoMInDS):
Supporting faculty who provide professional development
to the next generation of college mathematics instructors
Jack Bookman, Duke University
Natasha Speer, University of Maine

Nov 13  Ask. Don’t tell.
Alfonso Gracia-Saz, University of Toronto

Nov 27  Teaching students to communicate as mathematicians:
threshold concepts and their application at MIT
Susan Ruff, Massachusetts Institute of Technology

Dec 11  A mathematics learning community on inclusive teaching
Gavin LaRose, University of Michigan

Feb 5  Inquiry and engagement in an interactive classroom
Annalisa Crannell, Franklin and Marshall College

Feb 19  Redesigning a large linear algebra service course – a travel report
Philipp Hieronymi, University of Illinois at Urbana-Champaign

Mar 5  Teaching probability and statistics from a purely Bayesian point of view
Sanjoy Mahajan, Olin College of Engineering

Mar 19  Video textbooks in the active learning classroom
Mike Weimerskirch, University of Minnesota

Apr 2  Inquiry based learning at Michigan
Ralf Spatzier, University of Michigan

Apr 30  Active learning in calculus at Cornell
Steve Bennoun and Tara Holm, Cornell University

May 14  Managing college group work and creating groupworthy tasks
Eric Hsu, San Francisco State University
Sep 10  Course-based undergraduate research experiences: Two examples  
Sunil Chebolu, Illinois State University  
Haynes Miller, Massachusetts Institute of Technology

Sep 24  A focus on student buy-in: Why it matters and what to do about it  
Stan Yoshinobu, California Polytechnic State University

Oct 8  Student-centered assessment of mathematical proficiency  
Benjamin Braun, University of Kentucky

Nov 5  Integrating sustainability into the mathematics curriculum  
Bree Ettinger, Emory University

Nov 19  Incorporating service-learning into math courses  
Sara Billey, University of Washington

Dec 3  Co-creating interactive online exercises  
Annoesjka Cabo, Delft University of Technology

Feb 4  A scalable hybrid introductory ODE course  
Dave Levermore, University of Maryland, College Park

Feb 18  Who are we?: On the diversity and demographics of the mathematics community  
Ron Buckmire, Occidental College

Mar 17  Active learning online: A panel discussion  
Rick Cleary, Babson College  
Rachel Levi, MAA  
Mike Weimerskirsch, University of Minnesota

Mar 31  TPSE’s top ten things every online instructor should do  
Abbe Herzig, AMS  
Dave Kung, TSPE

Apr 7  Keep it active: Engaging students in virtual classrooms  
Rena Levitt, Minerva Schools at KGI

Apr 14  Calculus in context: Introducing calculus ideas through epidemieology models  
Eric Stade, University of Colorado, Boulder

Apr 28  Project-based learning  
Rachel Levy, Mathematical Association of America

May 12  What mathematical knowledge improves high school math teaching?  
Yvonne Lai, University of Nebraska, Lincoln

May 26  Reliable classification of classroom practices using lecture recordings  
George Kinnear, University of Edinburgh
2020–2021

Sep 15 A touch of calculus: Shaking up the pre-requisite structure of college mathematics  
Rick Cleary, Babson College

Sep 29 Assessing students’ proofs online  
Chris Sangwin, University of Edinburgh

Oct 13 Creating accessible materials  
Rob Beezer, University of Puget Sound

Oct 27 Quantitative reasoning and intellectual need as design principles for instructional materials  
Jason Martin, University of Central Arkansas,  
Michael Tallman, Oklahoma State,  
Matt Thomas and Aaron Weinberg, Ithaca College

Nov 10 Welcoming freshmen to the world of mathematics  
Uri Treisman and Erica Winterer, University of Texas, Austin

Dec 1 A fun, engaging, and effective approach to teaching calculus  
Shay Fuchs, University of Toronto

Dec 15 Tuning up your remote mathematics teaching  
Maria Anderson, Westminster College

Jan 5 Meaningful, motivating online assessments  
Paul Bourdon, University of Virginia

Jan 19 The value of computational thinking in statistics education  
Jo Hardin, Pomona College

Feb 2 Mathematical proof, online assessment, and high school connections in first-year discrete mathematics  
Doug Ensley, Shippensburg University

Feb 16 Using inquiry and active learning in mathematics - and how COMMITs can help  
Christine von Renesse, Westfield State University

Mar 2 PrairieLearn: A flexible platform for writing randomized auto-grading questions  
Matt West, University of Illinois

Mar 16 Documents for teaching a lesson: Lecture notes and their production  
Vilma Mesa, University of Michigan

Mar 30 A course to prepare students for careers in business, industry, and government – PIC Math  
Michael Dorff, Brigham Young University

Apr 13 The Mathematical Inquiry Project  
Bus Jaco and Mike Oehrtman, University of Oklahoma

Apr 27 Mastery-based grading in higher education  
Silvia Huebach and Sharona Krinsky, Cal State LA

May 11 Onboarding instructors to an active-learning class  
Jason Siefken, University of Toronto
2021–2022

Sep 14  A cheat-proof calculus exam?  
        Lew Ludwig, Denison University

Sep 28  Linear algebra and deep learning  
        Gil Strang, Massachusetts Institute of Technology

Oct 12  Incorporating research opportunities in undergraduate math courses  
        Pamela Harris, Williams College

Oct 26  Manipulative calculus: Active learning with 3D models  
        Stepan Paul, North Carolina State University

Nov 9   Rethinking linear algebra  
        Rekha Thomas, University of Washington

Nov 23  Mentoring community college math students through transfer  
        Eddie Tchertchian, Pierce College

Dec 7   Fostering positive collaboration  
        Kathryn Leonard, Occidental College

Jan 11  Active learning in a remote classroom  
        Angie Hodge-Zickerman, Northern Arizona University

Feb 8   Open Textbook Initiative  
        Kent Morrison, American Institute of Mathematics

Feb 22

Mar 8   Phil Gressmann, University of Pennsylvania

Mar 22  Martina Bode, University of Illinois at Chicago

Apr 5   Tevian Dray and Crinne Manogue, Oregon State University

Apr 19  Kevin Buzzard, Imperial College London

May 3   Brendan Kelly, Harvard University