## 2024 UTEACH STEM EDUCATORS CONFERENCE SCHEDULE

### Tuesday, May 21

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:00 – 2:30</td>
<td>Plenary and Opening Session in Zlotnik Ballroom — Opening Session Speaker: <strong>Dr. Paulette Evans</strong>, Director of UABTeach at the University of Alabama at Birmingham</td>
</tr>
</tbody>
</table>
| 2:45 – 3:45   | Elevating the Profession: Unveiling the Sixth 'E' in Preservice Teacher Education  
Elevating the Profession: Unveiling the Sixth 'E' in Preservice Teacher Education  
What Is UTeach?  
The Impact of UTeach-Trained K–12 Teachers on Developmental Math Classes at the University Level  
Connecting Content Challenges Through Engineering Design  
Understanding and Building STEM Identity  
Innovations in Remote Student Support: The Power of XR Tutoring  
Course Overview: Classroom Interactions |
| 4:00 – 5:00   | A Watershed Event (AWE): A 3D Teaching Ecosystems Curriculum for Middle and High School Biology or Environmental Science  
Sustaining UTeach Alabama  
Using Coached Rehearsal to Transform Student Performance in UTeach Field Courses  
Exploring Preservice Teachers' Development of STEM Teaching Philosophies  
Course Overview: Step 1 and Step 2  
Energizing STEM Instruction: AI Innovation in Blended Learning Classrooms |
| 5:30 – 7:30   | Reception and poster session in Zlotnik Ballroom                      |

### Competitive Student Posters

- Breaking Ground: Empowering Children With Physical Disabilities in Inclusive Agriculture Classrooms
- Classroom Interactions: Structure and Requirements
- Closing Chemistry Content Knowledge Gaps for Blind and Low Vision Students
- Community Building Through UTeach STEAM PB at UT Permian Basin
- Create Your Own Species: A Project-Based Learning Unit Exploring Evolution, Natural Selection, and Adaptations
- Diary of a Newly Launched UTeach Program: Alabama A&M University Teach
- Empowering Confidence in STEM: Art-Based SEL in Project-Based Instruction
- Fostering Intern Experiences: Motivating Students to Take Ownership of Their Futures in STEM
- How Research Methods Inquiries Support Pre-Service Agriculture Teachers
- Implementing the Seven Survival Skills in Agricultural Education
- Inventive Insect Instruction
- Novice vs Expert: Soil Conservation
- Octet Rule's Influence on Student Understanding of Chemical Bonding
- PBI Unit: From Farms to Streams
- Print, Drop, and Conquer: Investigating the Impact of Different Filaments on Egg Drop Performance
- Restoring Water: Understanding Hurricane Impact and Purification Solutions
- The Experiences of Women Students and Faculty in Male-Dominated STEM Fields: A Case Study
- The Strongest Element
- Unveiling the Path of Inquiry

### Non-Competitive Posters

- Spotlight on Supporting Culturally Responsive Teaching in NevadaTeach
- USEA Induction, Professional Development, and the Equity, Racial, and Social Justice Working Group
- Educational Impact of Fire Science Lessons on Middle School Science Students During a NevadaTeach Internship
- The High School Research Initiative Expansion Project Growth of NevadaTeach Pre-Service Teachers While Working a National Science Foundation Internship
## Wednesday, May 22 — Morning

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:00 – 9:15</td>
<td>Breakfast: General breakfast for all. Special breakfast meeting for students. Special breakfast meeting for Master Teachers.</td>
</tr>
</tbody>
</table>
| 9:30 – 10:30 | 104: Affinity Spaces as Critical Professional Development to Support Student Belonging and Identity Development  
107: We’re Doing UTeach . . . Now What?  
108: Classroom Management Through the Lens of Current Culture: An Innovative Approach to Managing Resistant Behaviors  
115: Creating Teacher Leaders in an Upper-Level Functions and Modeling Course  
21: The Critical Use of AI-Generated Lessons in Preservice Teacher Preparation  
22: Course Overview: Knowing and Learning in Mathematics and Science  
25: Decolonizing and Queering Math Classrooms: Building on the Banks Multicultural Model |
| 10:45 – 11:45 | 104: Reimagining the UTeach Curriculum for an Alternative Certification Pathway  
107: What We Learned in Year One  
108: Agriculture Education in the NevadaTeach Classroom  
115: Promoting Authentic Mathematical Engagement with Rich Mathematical Tasks and Intentional Pedagogical Actions  
116: Digital Citizen: Using Google Classroom in a Middle School Mathematics Project  
21: Empowering Tomorrow’s Innovators: Utilizing Computer Science in STEM Education  
25: USEA Recruitment Panel  
26: Course Overview: Research Methods |
| 11:45 – 1:00 | Lunch |

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
</tr>
</thead>
</table>
| 1:00 – 2:00 | 104 Past the Tipping Point: The Rise of Uncertified Teachers  
             | 107 Preparing Secondary STEM Teachers for High-Needs Settings Using Structured Mentoring  
             | 108 Teaching THROUGH the SE Model  
             | 115 Mic Check, One, Two: Is This Feedback Working?  
             | 116 The Case of The Murdered Mayor: Solve A Forensic Case Using Multiple Lines of Evidence  
             | 21 AI in Education: Embracing the Present, Shaping the Future  
             | 22 Course Overview: Perspectives on Science and Mathematics  
             | 25 Knowing, Learning, and Ungrading: A Course Policy for Change  
             | 26 Course Overview: Functions and Modeling |
| 2:15 – 3:15 | 104 Tracking UTeach Graduates from Completion to Classroom: A Look at the Schools and Students They Serve  
             | 107 Fundraising Essentials Workshop: Practical Strategies for Success  
             | 108 Building Community and Sense of Belonging to Improve Community College Engagement and Transfer  
             | 115 One Size Fits All? Crafting a University-Specific Recruiting Message  
             | 116 Enhancing Education Through Personalized Learning: Integrating the SE Model and Blended Learning  
             | 21 How to Create Equitable Lesson Plans Using Generative AI  
             | 22 Breaking Down Certification Barriers with Exam Preparation  
             | 25 Decoding the Puzzle: Exploring the Tower of Hanoi  
             | 26 Frameworks for Integrated Project-Based Instruction in STEM Disciplines |
| 3:15 – 4:00 | Visit exhibitors and have snacks |
| 4:00 – 5:00 | 104 UTeach for Texas: Pathways to Teaching for Degree Holders  
             | 107 The Gift of Gratitude: Perspectives on Fundraising in STEM Education  
             | 108 Preparing to Teach for Equity and Justice: The CU Teach Equity Framework  
             | 115 Student Retention in FIUteach: Examining Intersections of Cultural, Teaching, and STEM Identities  
             | 116 Harnessing the Benefits of Video-Enhanced Reflection and Artificial Intelligence to Support Teacher Candidate Reflection  
             | 21 Empowering STEM Educators: Integrating AI Tools for Culturally Responsive Teaching  
             | 22 USEA: Strategizing for Change in STEM Education  
             | 25 Exploring the Mutual Benefits of a Paid K–12 Internship Program: A Win-Win for UTeach Candidates and Local School Districts  
             | 26 Course Overview: Project-Based Instruction |
| 5:30–8:00 | UTeach alumni mixer — Moody’s Kitchen and Bar, 2530 Guadalupe Street |
**Thursday, May 23**

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:00 – 9:15</td>
<td>Breakfast: General breakfast for all. Special breakfast for Alabama programs. Special breakfast for Texas programs.</td>
</tr>
<tr>
<td>9:30 – 10:30</td>
<td>Closing Keynote in Zlotnik Ballroom — Keynote Speaker: Dr. David Yeager, Professor of Psychology at the University of Texas at Austin</td>
</tr>
</tbody>
</table>
| 10:45 – 11:45| 104: Explorations in UTeach: Step1, Step 2 and Combo  
|           | 107: From the Ground Up: Recruitment in Year One and Beyond  
|           | 108: Educational Fusion: CS Teaching Adventures with ChatGPT  
|           | 115: Student Discovery of Diversity and Inclusion in STEM Fields  
|           | 116: Co-Director Meeting — Closed Session  
|           | Z1: Navigating the New Texas Teacher Preparation Requirements  
| 1:00 – 2:00| 104: Strategies for Implementing a Yearlong Residency Model in Your Secondary STEM Teacher Preparation Program  
|           | 107: Creative Ways to Increase Computer Science Teacher Certification  
|           | 108: Coding and STEM: Where Fun and Learning Collide  
|           | 115: Recruiting High School Students into UTeach: Partnering with Career and Technical Programs  
|           | 116: Course Overview: Apprentice Teaching  
|           | Z1:  
|           | Z2:  
|           | Z5:  
|           | Z6:  
| 11:45 – 1:00| Lunch  

---