



**ENGINEERING
EXPLORATION DAY**
EDUCATORS' EDITION



Schedule and Session Overview

Friday, February 16, 2024 • Lory Student Center



Keynote Address: Associate Professor Dan Baker Unlocking the Power of AI: A Playbook for Students and Educators

CSU civil and environmental engineering Teaching Associate Professor Dan Baker will discuss how Artificial intelligence (AI) has the potential to revolutionize education. But like any new technology, it can be challenging to know where to start. This talk will provide you with practical ways to apply AI to expand your productivity and enhance student learning.

- 8:00 – 9:00 a.m.** **Check-In, Breakfast, and Resource Fair (Never No Summer/University Ballroom)**
- 9:00 – 9:30 a.m.** **Welcome, Admissions and Major Overviews (Never No Summer Ballroom)**
Returning Educators Morning Mingle (Lounge Area Outside University Ballroom)

Break _____
- 9:45 – 10:30 a.m.** **Panel Sessions**

Break _____

<p>10:45 – 11:30 a.m. Outreach Education in Engineering (LSC 374)</p> <p>Academic Advising (LSC 376)</p>	<p>Engineer Your Career (LSC 378)</p> <p>Student Experience (LSC 390)</p>
--	---
- 11:30 a.m. – 12:45 p.m.** **Lunch and Keynote Speaker (Never No Summer Ballroom)**

It's time to eat lunch and welcome Associate Professor Dan Baker for our keynote address.

Break _____
- 1:00 – 1:45 p.m.** **Lab Tours and Demonstrations (Departing Never No Summer Ballroom)**

Join the lab engineers in either the Engineering Building or Scott Bioengineering Building for a fun demonstration of what our students get to experience as engineering majors at CSU.

Break _____
- 2:00 – 3:00 p.m.** **Workshop (Never No Summer Ballroom)**

Embracing the Leap: Cultivating a Fail Forward Mindset in Education — Join Associate Professor Sam Bechara and be part of this crucial shift in education. Let's turn the fear of failure into a foundation for future success!
- 3:00 – 3:15 p.m.** **Closing Remarks (Never No Summer Ballroom)**

Break _____
- 3:30 – 4:30 p.m.** **Social Networking Hour (University Ballroom)**

Attendees are invited to a social hour, sponsored by the CSU Energy Institute!



Session Details



Workshop: Embracing the Leap: Cultivating a Fail Forward Mindset in Education

Sam Bechara, Associate Professor
CSU Department of Mechanical Engineering

In today's academic environment, the fear of failure often looms large in the minds of students, creating barriers to innovative thinking and learning. Led by Sam Bechara, this workshop aims to reshape our approach to education by highlighting the importance of failure as a powerful learning tool. Through engaging discussions and practical strategies, we will explore how educators can foster a 'fail forward' mentality, encouraging students to embrace challenges and learn from their setbacks.

Check-In, Breakfast, and Resource Fair

After you check in, please join us in the University Ballroom to enjoy breakfast and get to know the different resources CSU has for educators.

Welcome, Admissions and Major Overviews

Welcome to the Educators' Edition! We'll give you an overview of our engineering majors and what we're looking for when it comes time for your students to apply for college.

Returning Educators Morning Mingle

We invite returning educators to join mechanical engineering Associate Professor Sam Bechara for morning coffee & tea to discuss the results of his college math pilot and share how you implemented strategies from last year's Math Workshop in your schools.

Panel Sessions

Incoming Student Support Programs in Engineering (LSC 372)

Learn about resources for graduating seniors attending CSU in the future such as our residential learning communities on campus, summer bridge programs, diversity programs in engineering, scholarship resources, and Scott Scholars program.

Outreach Education in Engineering (LSC 374)

CSU has a large network of outreach educational resources available to educators. Learn more about our Summer Programs in STEM, school group visits, K-12 programs, STEM events, and other opportunities available throughout the school year.

Academic Advising (LSC 376)

Talk with our academic advisors on how students are supported once they enroll at CSU, and strategies for helping students apply to engineering programs. Advisors will explore transfer credits, placement tests, credit requirements, major changes, study abroad opportunities, and more.

Engineer Your Career (LSC 378)

Learn from our Career Education Manager, faculty, staff, and alumni about how students discover what career opportunities are available in engineering. Explore how students are using their experiences in engineering outside the classroom.

Student Experience (LSC 390)

Learn from current students about why they choose CSU and engineering as their major. Ask questions about their student experience, coursework, campus life, and plans for the future.

Lab Tours and Demonstrations

Explosive Excellence: Jet Engines at Work (Engineering Building)

Join the lab team as you fire up a jet engine to explore the common principles taught through our hands-on approach to mechanical engineering at CSU. Tour the industrial mechanical engineering lab, EMech labs, and our Idea-2-Produce 3D printing lab.

Powering Artificial Intelligence and Aerospace (Engineering Building)

Electrify your interest in electrical and computer engineering by joining our ECE Support Engineer, Brayan Trejo, and our ECE Undergraduate Program Coordinator, Elaine Linde, to explore demonstrations in Sensor-based Object Identification, Artificial Intelligence, and Aerospace Communications.

SMASH Lab -Exploring Materials and Fluids in Civil Engineering (Engineering Building)

Join our Civil and Environmental Undergraduate Laboratory Support Engineer, Todd Atadero, to talk about materials, with a focus on concrete and fluids. Test the strength of concrete by breaking cylinders in the concrete lab and learn about momentum in the fluids lab.

Bone Mechanics in Biomedical Engineering (Scott Bioengineering Building)

Tour the Suzanne and Walter Scott, Jr. Bioengineering Building with our Biomedical Engineering Lab Manager, Ellen Brennan-Pierce, and explore the state-of-the-art research labs, our Problem Based Learning Lab, and demonstrations on the bone mechanisms of an arm.



Get full session details, campus maps, and more on our website.

