



Faculty Mixer

Wednesday,
September 23, 2026
12:00 p.m. - 1:15 p.m.
Room 1086

FOOD FOR THOUGHT: Conversations about Teaching

Come and chat with
Dr. Janelle Johnson
(lunch provided)



RSVP

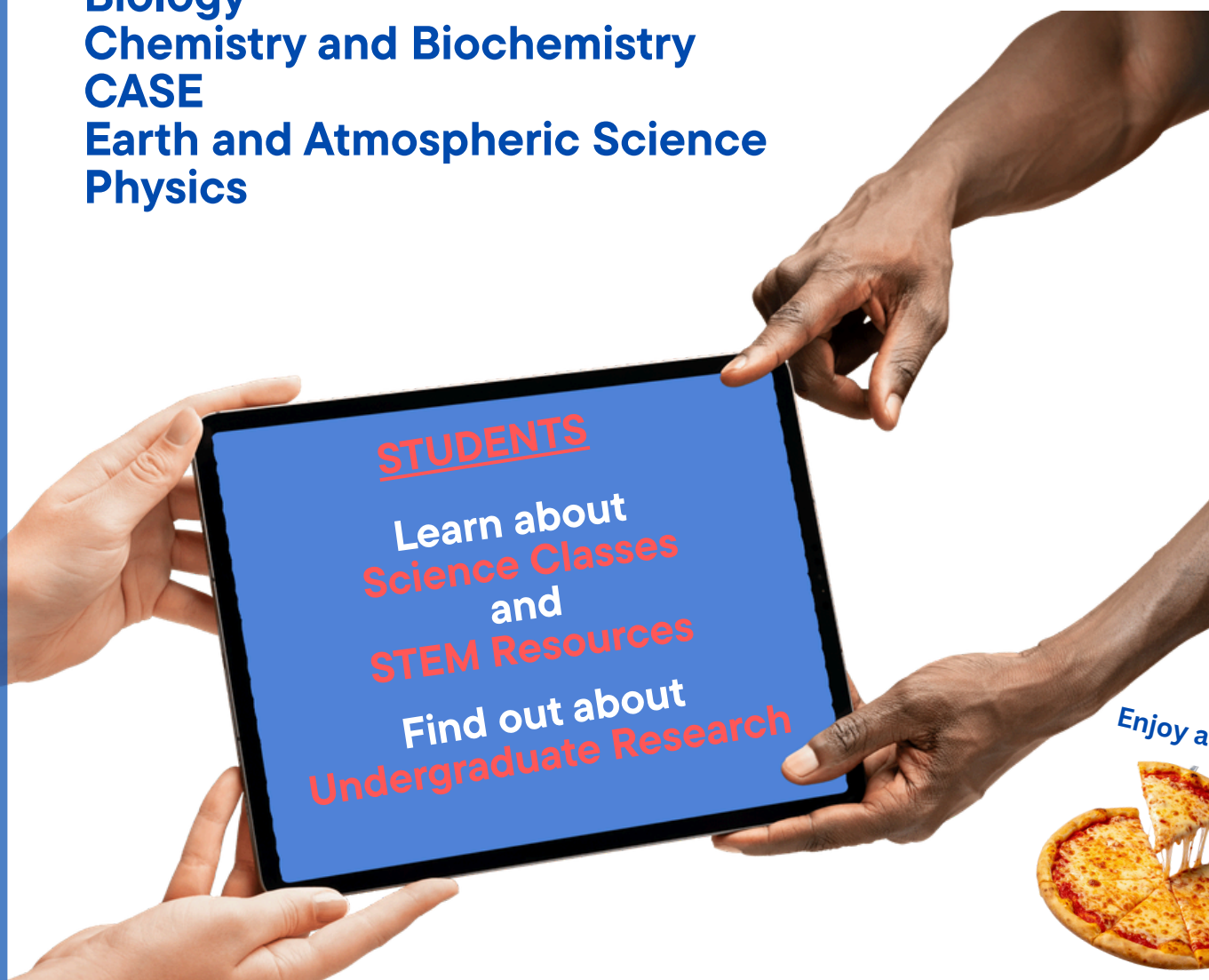


<https://tinyurl.com/y2443cfa>

MSU DENVER SCIENCE OPEN HOUSE

Science Open House
Thursday, September 24th
3:00 p.m. - 5:00 p.m.
SI 1009

Biology
Chemistry and Biochemistry
CASE
Earth and Atmospheric Science
Physics



Explore. Connect. Discover Your Path.

Career Expo

at
Denver Zoo
Conservation
Alliance

DISCOVER the diversity of careers
behind animal care, conservation,
education, research, operations,
marketing, and so much more.



Register HERE

Registration: <https://my.denverzoo.org/74088/77436>



WHEN:
FRIDAY,
SEPTEMBER 11
9:00 AM - 12:00 PM



WHERE:
Denver ZOO
Conservation
Alliance
2300 Steele Street
Denver, CO 80225



WHO:
Students from Metro State
University, Community
College of Denver, and CU
Denver

STEM Career Fair 2026

Tivoli Turnhalle | Wednesday, September 30th

The STEM Career Fair offers professional jobs
and internships in the STEM fields.

Find a job or internship

Openings in:

- Computer Science
- Technology, Science
- Chemistry
- Mathematics
- Environmental Science
- Aviation & Aerospace
- Engineering, Design
- Healthcare
- Manufacturing
- and more!

All Majors Welcome

Dress for Success

Bring Several Copies of Your Resume!



UNITED
NATIONS
WORLD
WATER
DAY

AVIATION DAY AT MSU DENVER

THURS. 10.08
10:00 AM - 2:00 PM
Tivoli Turnhalle

MSU Denver will host a wide range of
organizations recruiting for flight and airport
operations functions to help our students' aviation careers take flight.

Featured organizations will include:

- Major, National, and Regional Airlines
- Cargo Carriers
- Business Aviation and Charter Companies
- Flight Training and Pilot Pipeline Organizations
- FBO and Airport Services Groups
- UAS and Drone Operations
- And more!



Register Here: <https://msudenver-csm.symplicity.com/events/STEMFA26>

Register Here: <https://msudenver-csm.symplicity.com/events/AD26>

CASE IN POINT

Past CASE In Points



Thank you to our Summer Science Camp Instructors

John Martinez, Mark Karlok, Dr. Don Gilmore, Dr. Mike Jacobs,
Dr. Sarah Schliemann, Tyler Williams

Thank you for inspiring our Summer Science students with your enthusiasm for STEM. The students loved the hands-on activities, including burning chocolate, the light bulb project, slime making, learning about microbes, exploring the Cherry Creek and learning alongside new friends. We know how much time, effort, and planning goes into developing engaging programs. You have made a lasting impact on these middle schoolers.

CASE in Point is our way of showcasing achievements (large and small) by our students, faculty, and staff each month.

Nominate a Student - Faculty Member - A Team

In CASE you didn't know.....

$$y = mx + b$$

Linear Math and Voting

Linear algebra is a subject in mathematics that many students in STEM must take, but few ever see one useful application of it. Linear algebra can be used to study gerrymandering by turning a voting map into mathematical data. A state can be divided into small geographic units, such as voting precincts, and information about those precincts can be organized into vectors and matrices. For example, an adjacency matrix can record which precincts share a border: a 1 means two precincts touch, while a 0 means they do not. Other vectors can record population, voting results, or which district each precinct belongs to. Once the map is represented this way, mathematicians can use linear algebra and graph theory to study whether districts are geographically reasonable and how the grouping of precincts affects election results.

For example:

Imagine a state with 12 equally populated precincts, where 6 generally favor Party A and 6 favor Party B. The state must be divided into three districts of four precincts each. One possible map could place four Party A precincts together in a single district, while the remaining two districts each contain three Party B precincts and one Party A precinct. Party B would then win two of the three districts even though the two parties have equal support statewide. This is an example of packing, in which many voters from one party are concentrated into a small number of districts so that their votes have less influence on the remaining districts.

To determine whether a real district map shows this kind of behavior, researchers can use computers to generate thousands or even millions of alternative maps that satisfy normal requirements such as equal population, geographic contiguity, and compactness. Each possible map can be represented mathematically and its expected election results recorded in vectors. The actual map can then be compared with this large collection of reasonable alternatives. If most possible maps produce, for example, four to six seats for a party but the enacted map consistently gives that party only two, the enacted map may be a strong mathematical outlier.

Linear algebra cannot by itself prove that someone intentionally gerrymandered a map, but it can provide strong quantitative evidence that the map produces unusually biased results. When such bias has been demonstrated, courts have sided with voting rights groups arguing to return district maps to fairer layouts that allow for more equal representation.



CASE
Events
Fall
2026

STEM Tutoring

Monday - Friday

7:00 a.m. - 7:00 p.m.

[Schedule](#)

Friday,
September 4
October 2
November 6
December 4
11:00 a.m. - 12:00 p.m.
Student Advisory Board
Virtual
[Become a Member](#)

September 8 - 11, 2026
and
September 14, 2026
Roadrunners Give Back
[Sign Up Here](#)

Wednesday,
September 23, 2026
12:00 p.m. - 1:15 p.m.
**Faculty Mixer: Chat with
Dr. Janelle Johnson**
Room 1086
[RSVP](#)

Thursday,
September 24, 2026
3:00 p.m. - 5:00 p.m.
**Science
Open House**
Science 1009
No RSVP Required
Visit anytime between
3:00 p.m. and 5:00 p.m.

Tuesday,
October 20, 2026
11:30 a.m. - 2:00 p.m.
**CASE STEM
Symposium**
Tivoli Turnhalle
No RSVP Required
Visit anytime between
11:30 a.m. and 2:00 p.m.

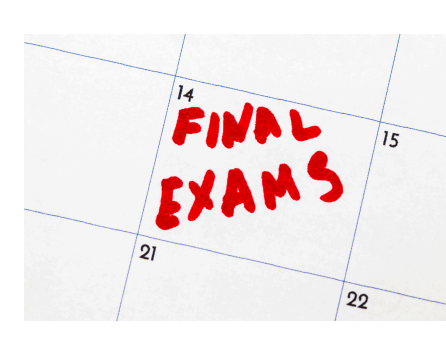
Thursday,
November 5, 2026
5:30 p.m. - 7:00 p.m.
**Women in STEM 2026
and
Colorado Women's Hall of
Fame Panel**
Tivoli Turnhalle
[Register Here](#)

Friday,
November 13, 2026
3:00 p.m. - 5:00 p.m.
**Faculty Mixer
Social Hour at
Degree Restaurant**
Room 1086
[RSVP](#)

Fall Break
November 23 - 27



December 7 - 11



Contact Information

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METROPOLITAN
STATE UNIVERSITY
OF DENVER
Center for Advanced
STEM Education