

# STEM EXPLORATION

## 2023

### APRIL 10-28

Sign-Up for Workshops [HERE](#)

## Monday, April 10, 2023

### Relational Database Systems, Creating an ERD Diagram

Learn how to create an ERD diagram using Microsoft Access. Learn why it is important for companies to create relationships between multiple tables. This will be a hands-on workshop.

Time: 1:00 P.M. - 2:00 P.M.

Zoom ID: 917 866 2655

### Something in the Way Light Moves

The workshop consists of a series of demonstrations involving light and its interactions with matter. The demonstrations will illustrate different effects that find widespread applications in different domains of science and technology. These applications range from telescopes to fiber optics, to the study of the structure of the atom and the study of the composition of stars. If you are an aspiring scientist or just curious about what can be learned from light, this is one workshop you don't want to miss.

Time: 2:00 P.M. - 3:00 P.M.

Location: SC - 312

## Tuesday, April 11, 2023

### Live Views of the Sun – Solar Telescope

Come see what the Sun is up to. If it's putting on a show you will be able to see Sunspots, Filaments, and Prominences. Learn about the Sun and make a sketch of what you see.

Time: 10:00 A.M. - 12:00 P.M.

Location: Central Mall Plaza

## Wednesday, April 12, 2023

### Only murderers in the SC-building... CSI using DNA

Ever wonder how biology integrates in the world of crime scene investigation? Or how are scraps of evidence from the crime scene used to identify potential suspects? What about paternity testing? In this workshop, you will get to see some general applications of DNA in the world of forensics. From DNA fingerprinting to ID potential suspects, to blood sample analysis, to even extracting your own DNA at home! Students will also have a chance to play detective and identify a "blood" sample from a crime scene to determine the suspect. \*Blood sample is a simulation and not human blood.

Time: 2:00 P.M. - 3:00 P.M.

Location: SC - 212

## Thursday, April 13, 2023

### Little Algebra vs Super Massive Black Hole

Come learn about stars, black holes, and math. Using a little algebra we will calculate the radius of the event horizon and determine just how close we can get to a black hole before it's too late.

Time: 10:00 A.M.-11:00 A.M.

Location: SC - 118

## Friday, April 14, 2023

### Meet & Greet with CSU-LA

Come and learn about opportunities for Engineering and Computer Science majors!

Time: 12:00 P.M. - 1:00 P.M.

Location: A - 104

## Monday, April 17, 2023

### Science of The Last of Us

Let's talk about the science of the hit show and video game "The Last of Us" We'll discuss the real-life cycle of the cordyceps' fungus. How realistic is the disease progresses from infection to runner, to clicker, and to bloater. We'll also explore other real-life organisms that exhibit host manipulation.

Time: 10:00 A.M. - 11:00 A.M.

Location: SC - 118

### Find Your Passion in the STEM Career Exploration: Part 1

Find out what a STEM career can do for you!

Time: 1:00 P.M. - 2:00 P.M.

Location: A - 207

## Tuesday, April 18, 2023

### Meet a Neuroscientist, Meet Your Brain!

Presented by UCI Center for The Neurobiology of Learning Memory  
(Sponsored by the MESA Program)

Join us for hands-on demos of neuroscience experiments—including dissecting a real brain—followed by a panel discussion with UC Irvine PhD students to learn about different paths to becoming a graduate student in neuroscience and hear about what being in a graduate program is like. Participants will be able to rotate through multiple experiment stations and ask the panelists questions about their undergraduate experiences, their day-to-day lives as graduate student researchers, or anything else they may be curious about.

Time: 11:00 A.M. - 12:00 P.M.

Location: SC - 118

(Sponsored by the Career Center)

### Discover the STEM Pathway!

Have you ever considered a major in STEM? These majors are within your reach. Learn about the various pathways in STEM and the resources we have at SAC to support you.

Time: 12:00 P.M.

Location: L - 202

## Wednesday, April 19, 2023

### STEM Career Exploration Presentation

Learn about the Career Center services and resources to explore careers in the STEM: Computers, Math, and Science pathway!

[Register by completing the Google Form](#)

Time: 12:00 P.M. - 1:00 P.M.

Location: L - 222

Sponsored by:

SCIENCE, MATH AND HEALTH SCIENCES DIVISION • BUSINESS DIVISION (Engineering and Computer Science)



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### Dinosaurs and Neurodiversity-Linking A Fascination with Dinosaur Literature to STEM Studies and Careers

Dinosaurs have featured prominently in fiction and non-fiction books for decades, and neurodiverse individuals can be deeply fascinated with dinosaurs from the time they are young. As such an individual, I recount how I integrated my ongoing love for dinosaurs into a successful career, sharing how knowledge of science writing, reading technical and fiction literature and public speaking can be beneficial toward a rewarding STEM career. STEM needs more neurodiversity, and dinosaurs are the gateway toward a lifetime of scientific study.

Time: 2:00 P.M. - 3:00 P.M.

Location: SC - 118

### Thursday, April 20, 2023 The Real Parasites of OC

Observe and learn from current BIO229 students about mosquitos, ticks, and kissing bugs. These insects are found in the OC and are responsible for transmitting various parasites! Discover how these real parasites are responsible for Chagas and Lyme Disease.

Time: 11:30 A.M. - 12:30 P.M.

Location: SC - 216

### Diversity in STEM with MESA

Explore and learn about STEM Champions, STEM Innovations and the role you play as future STEM professionals.

Time: 1:00 P.M. - 2:00 P.M.

Location: L - 202

### Sustain-a-Palooza – Earth Day Event!

Sponsored by SAC ASG

Time: 11:00 A.M. - 1:00 P.M.

Location: Central Mall

### Friday, April 21, 2023

### CSU, Fullerton Engineering & Computer Engineering

Learn about transferring to CSUF as a STEM major!

Time: 12:00 P.M. - 1:00 P.M.

Location: A - 207

### Monday, April 24, 2023

### STEM Career Exploration Part 2

Find out more about what a STEM career can do for you!

Time: 1:00 P.M. - 2:00 P.M.

Location: A - 207

### Something in the Way Light Moves

The workshop consists of a series of demonstrations involving light and its interactions with matter. The demonstrations will illustrate different effects that find widespread applications in different domains of science and technology. These applications range from telescopes to fiber optics, to the study of the structure of the atom and the study of the composition of stars. If you are an aspiring scientist or just curious about what can be learned from light, this is one workshop you don't want to miss.

Time: 2:00 P.M. - 3:00 P.M.

Location: SC - 312

### Tuesday, April 25, 2023

### Live Views of the Sun – Solar Telescope

Come see what the Sun is up to. If it's putting on a show you will be able to see Sunspots, Filaments, and Prominences. Learn about the Sun and make a sketch of what you see.

Time: 10:00 A.M. - 12:00 P.M.

Location: Central Mall Plaza

### Wednesday, April 26, 2023

### Micropipette Art and Biotech Skills

Come make art with a micropipettor! We'll teach you to use one of the most common tools of in a biotechnology lab.

Time: 1:00 P.M. - 2:00 P.M.

Location: SC - 118

### Thursday, April 27, 2023

### Little Algebra vs Super Massive Black Hole

Come learn about stars, black holes, and math. Using a little algebra we will calculate the radius of the event horizon and determine just how close we can get to a black hole before it's too late.

Time: 10:00 A.M. - 11:00 A.M.

Location: SC - 118

### The Beauty of Mathematics and Why Mathematics Needs You

Come learn what it means to do mathematics, why you should consider pursuing math a career, and how to be good at it. We will also look at why many people think mathematics is beautiful. By the end you will think it is beautiful too.

Time: 12:00 P.M. - 1:00 P.M.

Location: SC - 118

### STEM Movie

Watch a fun movie with MESA. Must sign-up.

Time: 5:00 P.M. - 7:00 P.M.

Location: JSC The Spot

### Friday, April 28, 2023

### CSU, Long Beach

Learn about transferring to CSULB in STEM!

Time: 12:00 P.M. - 1:00 P.M.

Location: A - 207

### An Evening to Celebrate STEM at SAC

Come hear about the exciting research experiences of SAC students and support them in their pursuit of STEM degrees! Then hear from SAC Alumni as they share how their experiences at Santa Ana College prepared them for success in the field of STEM.

\*Parking Permit Required – Purchase at kiosks in Lot 6

Time: 4:00 P.M. - 6:00 P.M.

Location: SC - 113

Sponsored by:

SCIENCE, MATH AND HEALTH SCIENCES DIVISION • BUSINESS DIVISION (Engineering and Computer Science)

