

# STEM EXPLORATION

APRIL 15-30

2024

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## Math Center & MESA Open House

Date: **Monday, April 15, 2024**

Time: **1:00 p.m. - 3:00 p.m.**

Location: **L-204**

Hosted By: **Math Center & MESA Program**

**Description:** Meet the Math and MESA Center Teams and see what STEM resources are available to you EVERY semester and during STEM Month!

## Exoplanets - Other Worlds - Let's Chat and Do The Math

Date: **Tuesday, April 16, 2024**

Time: **2:00 p.m. - 3:00 p.m.**

Location: **SC-118**

Hosted By: **Professor Ben Hager**

**Description:** Astronomers have detected over 5,500 exoplanets and that number is climbing fast! Come join the conversation about these alien worlds; learn what they are, how they are detected, and what can be determined from observations. Using real exoplanet transit data and our trusty friend Algebra, we will mathematically determine the size of an exoplanet!

## From Tradition to Transformation: Pioneering Diversity in STEM

Date: **Wednesday, April 17, 2024**

Time: **11:00 a.m. - 12:00 p.m.**

Location: **HS-121**

Hosted By: **Amber Dinh (STEM Core) & Alicia Ramos (IT Cyber Security)**

**Description:** Together, we explore STEM—its past, present, and the potential future. Engage in discussions on how to forge a diverse path forward and discover resources available to you on campus to empower your journey towards a successful career in STEM.

## Science of Dune

Date: **Wednesday, April 17, 2024**

Time: **12:00 p.m. - 1:00 p.m.**

Location: **SC-212**

Hosted By: **SAC Science Faculty including Professor Alexander Natale & Professor Charles Jang**

**Description:** We will discuss the real biology and ecology underlying the life cycle on Arrakis and the Shai-Hulud (sand worms). How realistic is the life cycle from sand plankton, to sand trout, to Little Makers, and eventually the Water of Life? We will also explore the physics of the technology, and the astrobiology explored from planets like Caladan, Giedi Prime, and Arrakis.

## Solar Telescope - Live View of the Sun in H-alpha

Date: **Thursday, April 18, 2024**

Time: **10:00 a.m. - 12:00 p.m.**

Location: **Central Mall Plaza**

Hosted By: **Professor Ben Hager**

**Description:** Come view the Sun in all its glory. Using a hydrogen-alpha telescope we can safely view solar activity. If you've never peered into the turbulent atmosphere of a star before, now is your chance! Depending on the crankiness of the Sun we will likely see Sunspots, Filaments, Prominences, and if lucky a Solar Flare. Weather permitting.

## Something in the Way Light Moves

Date: **Friday, April 19, 2024**

Time: **11:00 a.m. - 12:00 p.m.**

Location: **SC - 312**

Hosted By: **Professor Alexander Natale**

**Description:** 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!

## Connect with UC Riverside!

Date: **Friday, April 19, 2024**

Time: **12:15 p.m. - 1:10 p.m.**

Location: **A-130**

Hosted By: **University of California, Riverside; College of Natural and Agricultural Sciences Team**

**Description:** Connect with a representative from UC Riverside's College of Natural and Agricultural Sciences. You will be able to explore degree options, services, and resources available at UC Riverside.

## Intro to Python Programming

Date: **Friday, April 19, 2024**

Time: **1:00 pm to 2:00 pm**

Zoom ID: **917 866 2655**

Hosted By: **Professor Jason Sim**

**Description:** Do you want to learn more about software development? The SAC computer science department will be demonstrating a hands-on introduction to Python Programming.

## 1,2,3 Let's Get Your STEM Degree

Date: **Friday, April 19, 2024**

Time: **2:00 p.m. - 3:00 p.m.**

Zoom ID: **875 1254 7846**

Hosted By: **MESA Program Counselor/Director**

**Description:** Have you ever considered a major in STEM? These majors are within your reach! Learn about the various pathways in STEM, STEM degrees and the resources available at SAC to support you in your STEM journey.

## Sustainability @ SAC - Earth Day

Date: **Monday, April 22, 2024**

Time: **11:00 a.m. - 2:00p.m.**

Location: **Central Mall Plaza & Town Hall Location**

Hosted By: **Associated Student Government**

**Description:** Join us for a special Earth Day Town Hall on the Santa Ana College campus. This event will bring together experts from SAC's STEM faculty, students and representatives from local city environmental programs to discuss important issues affecting our planet.

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## Robots - Friend or Foe!

Date: **Tuesday April 23, 2024**

Time: **1:00 p.m. - 2:00 p.m.**

Location: **SC-134**

Hosted By: **Professor Craig Takahashi**

**Description:** Visit the Engineering Lab at SAC! Learn about how robots/automation are shaping manufacturing. Demonstration related to engineering careers and will showcase an industrial robot and PLC system.

## Meet a Neuroscientist, Meet Your Brain!

Date: **Wednesday, April 24, 2024**

Time: **12:00 p.m. - 1:30 p.m.**

Location: **SC-122**

Hosted By: **UC Irvine PHD Student Team**

**Description:** Join UC Irvine PhD students studying neuroscience for hands-on demos of neuro concepts--including holding a real brain!- A panel discussion on neuroscience-related careers, our paths to research, and the graduate school experience will follow the demonstration.

## The Beauty of Mathematics and Why Mathematics Needs You

Date: **Wednesday, April 24, 2024**

Time: **9:00 a.m. - 10:00 a.m.**

Location: **HS-121**

Hosted By: **Professor Martin Romero**

**Description:** Mathematics is a beautiful subject. Join us to explore what it means to do mathematics, why you should consider pursuing a math career, and how to be good at it. By the end you will think it is beautiful too!

## Are You Ready For the Next STEM-ESTER?

Date: **Wednesday, April 24, 2024**

Time: **10:30 a.m. - 11:30 a.m.**

Location: **L-202**

Hosted By: **MESA Program**

**Counselor/Director**

**Description:** Attention all STEM majors. This workshop will review major prep required, recommended coursework, and GPA requirements based on the University you are hoping to transfer to.

## Employee Summit

Date: **Thursday April 25, 2024**

Time: **10:00 a.m. - 1:00 p.m.**

Location: **Central Mall**

Hosted By: **SAC Career Center**

**Description:** Connect with employers, community organizations, and work centers that will have jobs, internships, and other work-based learning opportunities. Meet your Career & Academic Pathways (CAP) Student Services programs and departments.

## Connect with CSU Long Beach!

Date: **Friday, April 26, 2024**

Time: **12:15 p.m. - 1:10 p.m.**

Location: **A-130**

Hosted By: **Tanya Piloyan; Senior Academic Advisor & Outreach Coordinator @ CSULB**

**Description:** Connect with a representative from CSU Long Beach's College of Natural Sciences and Mathematics. You will be able to explore degree options, services, and resources available at The Beach.

## An Evening to Celebrate STEM

Date: **Friday, April 26, 2024**

Time: **4:00 p.m. - 6:00 p.m.**

Location: **SC-113**

Hosted By: **MESA Program**

**Description:** Learn about SAC students' STEM research experiences in Alaska, CSU Fullerton, & Chapman University. Plus, meet SAC STEM alumni and hear how their time at Santa Ana College prepared them for success in STEM.

## Art and Science: Exquisite Expression

Date: **Monday, April 29, 2024**

Time: **1:00 p.m. - 2:00 p.m.**

Location: **SC-212**

Hosted By: **Professor Minhan Dinh-Mahavongtrakul (Biology) and Darren Hostetter (Art)**

**Description:** Explore your creative side! In this workshop, learn about how art and science meld in our world and how you can incorporate art into your major. See some original art pieces from our very own SAC art major students, and take some time to unwind and create your own art!

## Decision Making 101: How Studying STEM Improves Decision Making

Date: **Monday, April 29, 2024**

Time: **3:00 p.m. - 4:00 p.m.**

Location: **SC-212**

Hosted By: **Professor Martin Romero**

**Description:** Explore the process of decision making and how studying STEM can help you improve & be a game changer. We will even discuss how choosing STEM as your pathway could be the best decision you ever made!

## Movie Screening: A Million Miles Away

Date: **Tuesday April 30, 2024**

Time: **5:00 p.m. - 7:00 p.m.**

Location: **TBA**

Hosted By: **MESA Program**

**Description:** Get ready to be captivated by Jose Hernandez' life story of adventure, discovery, and humanity's quest for the unknown. Join MESA for an unforgettable screening experience that will transport you to the far reaches of space and beyond!

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