



13<sup>th</sup> Annual  
Northern California  
Community College

# STEM Transfer Day

Friday, November 2, 2018

9 AM—4 PM

UC Davis Conference Center



## **Welcome to our 13th Annual Northern California Community College STEM Transfer Day- Finding Your Path at UC Davis!**

Our Annual STEM Transfer Day event hosted by the UC Davis Mathematics, Engineering, Science Achievement (MESA) Center and Campus Partners brings together participating MESA Community College Programs in Northern California that support and engage our diverse first-generation college students in academic development and career exploration. STEM Transfer Day is an interactive day of stimulating workshops and unique campus lab tours to explore undergraduate research and STEM career opportunities.

This free event has expanded to incorporate Community College students participating in the UC Davis Avenue E (Engineering) pipeline program, HSI STEM programs, and related STEM initiatives.

Strong skills in science, technology, engineering and mathematics (STEM) are imperative in addressing the complicated, multidisciplinary challenges facing our world. There will continue to be an urgent demand for graduates with STEM training.

### **Welcome to our participating colleges:**

American River College, Sacramento  
Butte College, Oroville  
Cabrillo College, Aptos  
Cañada College, Redwood City  
Chabot College, Hayward  
City College of San Francisco, San Francisco  
College of Alameda, Alameda  
College of the Sequoias, Visalia  
Contra Costa College, San Pablo  
Cosumnes River College, Sacramento  
De Anza College, Cupertino  
Diablo Valley College, Pleasant Hill  
Gavilan College, Gilroy  
Hartnell College, Salinas  
Mission College, Santa Clara  
Modesto Junior College, Modesto  
Napa Valley College, Napa  
Sacramento City College, Sacramento  
San Joaquin Delta College, Stockton  
San Mateo College, San Mateo  
Santa Rosa Junior College, Santa Rosa  
Sierra College, Rocklin  
Skyline College, San Bruno  
Solano Community College, Fairfield  
Woodland Community College, Woodland  
Yuba College, Marysville

## UC Davis Resource Fair

Avenue E (Engineering)

Biology Undergraduate Scholars Program

Center of Chicana and Latina Academic Success Center

Chicano and Latino Engineers and Scientists Society

College of Agricultural and Environmental Sciences

College of Biological Sciences

College of Engineering

College of Letters and Science, Division of  
Mathematical and Physical Sciences

Educational Opportunity Program

Financial Aid and Scholarships

Guardian Scholars Program

Internship and Career Center

Leadership in Engineering Advancement Diversity  
and Retention Program

Mathematics and Science Teaching Program

McNair Scholars Program

Office of Opportunity and Enrichment Services

Study Abroad

Summer Sessions

Transfer Pre-Health Mentoring Program,  
Health Professions Advising

UC Davis MESA Schools Program

UC Davis School of Medicine

UC Davis School of Veterinary Medicine

UC Leadership Excellence Through Advanced Degrees

Undergraduate Admissions – Transfer Opportunity  
Program



## Agenda

**8:30–9:30 AM**  
Conference Center  
Lobby

**Pre-Conference Check-In  
and Continental Breakfast**

**9:30 AM**  
Ballrooms B and C

**MESA Welcome**  
Dr. Rosalyn Clark, Director,  
MESA, UC Davis

**Greetings**  
Ebony Lewis, Executive  
Director Undergraduate  
Admissions, UC Davis

**Finding Your Path,  
College of Engineering**  
Dr. Yayoi Takamura,  
Professor Materials Science  
and Engineering

**Faculty Special Recognition**

## Session One

**10:00–10:30 AM**  
Ballrooms B and C

**UC Transfer Admission**  
Pamela Blanco, Associate  
Director, Transfer  
Opportunity Program, UC  
Davis

**10:30–11:00 AM**  
Ballrooms B and C

**UCD Financial Aid**  
Vanessa Roberts, Financial  
Aid Officer

**11:00–11:30 AM**  
Ballrooms B and C

**Finding Your Path, College  
of Biological Sciences**  
Joyce Fernandez  
Assistant Director  
Biology Academic Success  
Center (BASC)

**11:30–12:00 PM**  
Ballrooms B and C

**Finding Your Path, College  
of Letters and Sciences**  
Dr. Jesús M. Velázquez,  
Assistant Professor,  
Department of Chemistry

## Special Events

**Noon–1:00 PM**  
Conference Center  
Lobby, Patio,

**Lunch and Resource Fair**

**12:30–1:00 PM**  
Conference Room A  
Conference Room B

**Avenue E (Engineering)  
Student Lunch Reception  
STEM Directors &  
Coordinators Lunch**

Mathematics, Engineering, Science Achievement  
(MESA) Schools Program, a unit of  
UC Davis Undergraduate Admissions

## Afternoon Sessions

**1:00–1:30PM**  
Ballrooms B and C

### **Undergraduate Research Center**

Sarah Stinson,  
Undergraduate Research  
Center Graduate Student  
Researcher

### **McNair Scholars**

Jacques Bowyer, McNair  
Scholars Advisor

## Special Panel Session

**1:30–2:00PM**  
Ballrooms B and C

### **Undergraduate STEM Student Panel**

## Afternoon Lab Tours

**2:15 PM**  
Conference Center  
Patio & Lobby

### **Depart for Lab Tours**

**2:30–3:00 PM**

### **Lab Tours, Group A**

**3:00–3:15 PM**

### **Lab Tours Transition**

**3:15–3:45 PM**

### **Lab Tours, Group B**

**4:00 PM**

### **Buses Depart**

Conference Center

## Guest Speakers



**Dr. Yayoi Takamura**, Professor and Vice Chair, Department of Materials Science and Engineering, studies the growth of complex oxide thin films, heterostructures and nanostructures. Her work uses laser-assisted growth to control interfacial properties with atomic-layer precision combined with state of the art synchrotron radiation-based characterization techniques.



**Dr. Jesús M. Velázquez**, Assistant Professor, Department of Chemistry, research is centered on the rational design of well defined dimensionally reduced materials, ranging from monolayers, bilayers, nanocrystalline thin films, and free-standing mesoporous monoliths. These materials have immediate applications in nanoelectronics, energy conversion devices and environmental remediation.



## Lab Tour Acknowledgments

Akahori Lab- College of Engineering

Barile Lab- College of Agricultural and Environmental Science

Chiu Lab- Department of Entomology and Nematology

Douglas Lab- College of Agricultural and Environmental Science

Gomes Lab- College of Biological Science

Heffern Lab- College of Letters and Sciences, Department of Chemistry

Kukreja Lab- Department of Materials Science and Engineering

Miller Lab- Department of Civil and Environmental Engineering

Morales Lab- Department of Civil and Environmental Engineering

Qing-Zhu Yin Lab- College of Letters and Sciences, Department of Geology

Robinson Lab- Department of Mechanical and Aerospace Engineering

Spaulding Lab- College of Letters and Sciences, Department of Geology

Takamura Research Group- Department of Materials Science and Engineering

Tricoli Lab- College of Biological Sciences

UC Davis Dairy Teaching and Research Facility- Department of Animal Science

Velazquez Lab, College of Letters and Sciences, Department of Chemistry

Veterinary Medicine Hospital- School of Veterinary Medicine

Waterhouse Lab- Department of Viticulture and Enology

Wood Lab- Department of Environmental Toxicology