13th 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 Chicanx and Latinx 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

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:30–9:30 AM</td>
<td>Pre-Conference Check-In and Continental Breakfast</td>
</tr>
<tr>
<td></td>
<td>Conference Center Lobby</td>
</tr>
<tr>
<td>9:30 AM</td>
<td>MESA Welcome</td>
</tr>
<tr>
<td></td>
<td>Dr. Rosalyn Clark, Director, MESA, UC Davis</td>
</tr>
<tr>
<td></td>
<td>Greetings</td>
</tr>
<tr>
<td></td>
<td>Ebony Lewis, Executive Director Undergraduate Admissions, UC Davis</td>
</tr>
<tr>
<td></td>
<td>Finding Your Path, College of Engineering</td>
</tr>
<tr>
<td></td>
<td>Dr. Yayoi Takamura, Professor Materials Science and Engineering</td>
</tr>
<tr>
<td></td>
<td>Faculty Special Recognition</td>
</tr>
</tbody>
</table>

### Session One

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>10:00–10:30 AM</td>
<td>UC Transfer Admission</td>
</tr>
<tr>
<td></td>
<td>Pamela Blanco, Associate Director, Transfer Opportunity Program, UC</td>
</tr>
<tr>
<td></td>
<td>Davis</td>
</tr>
<tr>
<td>10:30–11:00 AM</td>
<td>UCD Financial Aid</td>
</tr>
<tr>
<td></td>
<td>Vanessa Roberts, Financial Aid Officer</td>
</tr>
<tr>
<td>11:00–11:30 AM</td>
<td>Finding Your Path, College of Biological Sciences</td>
</tr>
<tr>
<td></td>
<td>Joyce Fernandez</td>
</tr>
<tr>
<td></td>
<td>Assistant Director</td>
</tr>
<tr>
<td></td>
<td>Biology Academic Success Center (BASC)</td>
</tr>
<tr>
<td>11:30–12:00 PM</td>
<td>Finding Your Path, College of Letters and Sciences</td>
</tr>
<tr>
<td></td>
<td>Dr. Jesús M. Velázquez, Assistant Professor, Department of Chemistry</td>
</tr>
</tbody>
</table>

### Special Events

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>Noon–1:00 PM</td>
<td>Lunch and Resource Fair</td>
</tr>
<tr>
<td></td>
<td>Conference Center Lobby, Patio,</td>
</tr>
<tr>
<td>12:30–1:00 PM</td>
<td>Avenue E (Engineering) Student Lunch Reception</td>
</tr>
<tr>
<td></td>
<td>STEM Directors &amp; Coordinators Lunch</td>
</tr>
</tbody>
</table>

---

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
Depart for Lab Tours
Conference Center Patio & Lobby

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