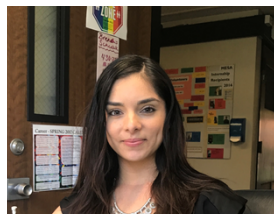




**MAITREYEE CHANDRA**  
MESA DIRECTOR



**BRENDA GONZALEZ**  
MESA COUNSELOR



**DESPINA PRAPPAVESSI**  
MESA DEAN



**CLARICE ADAMS**  
MESA ASSISTANT

# MESA NEWS



**MESA students celebrating the December Holiday Party**

## What is MESA?

**MESA** at DVC was launched in the Fall of 2014. MESA is a statewide program for students majoring in Science, Technology, Engineering or Mathematics. **MESA received a multi-year endowment through the CC Chancellor's office in Fall of 2017.** MESA is a community of students, faculty and STEM professionals that work together to support and prepare students who are pursuing STEM fields. The program provides unique combination of enrichment activities, academic resources, major-specific advising, early exposure to four year schools, professional development and other important needs of science and engineering majors. MESA is supported by industry, so students learn firsthand about career options and learn about scholarships, competitions, volunteering opportunities, internships and special programs.

Equipped with his five senses, man explores the universe around him and calls the adventure Science.

- Edwin Powell Hubble

MESA continues to seek and forge new collaborations. Here are our most recent partners: UC Davis AvenueE program, UC Davis McNair program, CSU Stanislaus STEM success, Philanthropic Ventures Foundation, Richmond Promise and Andeavor Corporation

## Bootcamp Sessions

Bootcamp sessions are preparatory sessions that are given by professors to prepare students for their upcoming courses a weeks before the start of the semester. Brief insightful introductions of concepts and an outline of the course are presented.

## MESA Sections

Spaces are reserved for MESA and FOM students in certain STEM classes. The students' progress is monitored so that they can get the intervention at the right time. MESA Section students are highly encouraged to attend the SI sessions.

## Supplemental Instructional (SI) Sessions

SI sessions are weekly two hour sessions are designed to help students keep track of their learning progress in the courses they are taking. These faculty guided peer led session help students in reinforcing concepts to deepen student's understanding of the subject.

## Bootcamps & SI Sessions



*"The Supplemental Instruction (SI) sessions can be very helpful when enrolled in STEM classes. The structure is like an organized study session where a student facilitator that has taken a certain course in the past, presents the same topics and activities to students currently enrolled in that course. This is helpful for students because they get to see the concepts in their classes presented in another way that may work better with their learning style. This also can make students feel safer asking questions because a fellow student is leading the session. I have seen both sides of SI at this point and I can defiantly see the value."*

**-Joseph Carter**  
**SI student Facilitator/Past SI student**

### MESA offers SI sessions for:

Calculus I & II  
General Chemistry I & II  
General Physics I  
Physics for Engineers  
& Scientists  
Principals of Cellular &  
Molecular Biology

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**SI Fall 17 Enrollment: 126**

**SI Spring 18 Enrollment: 235**



Top to Bottom:  
Chemistry Bootcamp - Spring 2018  
SI Orientation - Spring 2018  
SI Facilitators and students - Fall 2017



Georgiy Afanasiadzi - SDSU  
 Danielle Asiain - UCD  
 Wendy Avalos - UCB  
 Jessie Badley - UCD  
 Ralyn Britton - UCSD  
 Brandon Chan - UCI  
 Emmanuel Cortes - UCB  
 Briana Davis - UCD  
 Rodolfo Diaz - Cal Poly SLO  
 Hans Elizaga - UCB  
 Marwin Fernandez - SFSU  
 Roberto Gamarra - SFSU -  
 Miguel Hernandez - UCSC  
 Adam Hillaire - UCD  
 Justin Hyunh - UCB  
 Julie Jacobson - CSULB  
 Henry Lum - SJSU  
 John McMurry - UCLA  
 Saud Molaib - UCD  
 Earl Morales - UCD  
 Mustafa Naik - UCSB  
 Ariana Ng -  
 Xiaoyu Niu - UCB  
 Malachi Oliver - UCSC  
 Ramiro Pacheco -  
 Kylie Paramore - UCLA  
 Ernst Pulido - SFSU  
 Gabriela Robles - UCD  
 Erin Rosales - UCLA  
 Javier Sandoval - UCB  
 Chantheary Soth - UCD  
 Khang (kevin) Tran - UCB  
 Chanakarn Velez - UCB  
 Bradley Vieyra-Celaya - UCSC

*"The focus group meetings help the program evolve as a community. We also have mini-games to make new MESA students feel welcomed to the space and reinforce the relationship between concurrent MESA students. During the discussion portion, everyone is able to chime in and comment, giving everyone a chance to feel involved. There are no judgements during these meetings, so students feel more comfortable in sharing their thoughts and ideas on improvements and additions to the MESA space and program. MESA is for the students' benefit, so it's great hearing other students feel passionate about MESA." - Emily Wong, Student Leader.*



## Focus Group Meetings

The meetings served as a forum to introduce new students, discuss MESA happenings, policies, events, etc. The students discussed MESA issues and participated in the MESA program development and growth as a learning community. Some of the issues discussed were the how to improve communication using social media, adding more student run activities such as Movie Fridays, Game Night, etc.



## College Visits

### Berkeley Engineering Visit Day - Oct. 2017

Students received overview on the college of engineering program, transfer admission process, research opportunities as well as received exposure through lab tours and student panel Q&A session.

*The UCB visit was mind-opening for two reasons. First and foremost, I felt like everyone had an insightful and honest story to share. Second, the faculty who spoke discussed projects relating to water conservation which is one of the main reasons I plan to become an engineer. Ultimately, I felt that I was presented with an opportunity to attend U.C. Berkeley, and make a wonderful contributions to society.*  
**-Kevin Crane, MESA Student**

### UC Davis STEM Day - Nov. 2017

Students heard speakers from various STEM fields talk about their experiences. They learned about the transfer admission process and the resources available at UCD. They joined lab tours and listened to a panel of transfer students and Q&A



UC Davis STEM Day (L-R: Violet Bolick, Monica Noori Saghar, Samantha Richmond, Kevin Crane, Emily Wong)

*"Having the opportunity to attend the Happy Valley Leadership Retreat taught me what you can do, if you are open to opportunities. As an example, we won the state competition of logo design for structure and engineering. This experience helped me understand that school community is more than classes, and the more a person puts in, the more they get out."*

**-Luis E. Barrios- MESA student**



MESA students in SACNAS: Joseph Hernandez and Ernst Pulido

## SACNAS Conference Salt Lake City, Utah- Fall 2017

*"SACNAS Conference 2017 was a very inspiring and nurturing experience for me. It is highly encouraging and motivational when you see and identify with a group of individuals who are working in the field that you want to work in. Equal parts science, culture, and community, 2017 SACNAS is the largest diversity in STEM conference in the country."*

**-Joseph Hernandez- MESA student**

## Happy Valley Leadership Conference - Spring 2018

Students and staff representing California MESA Community College programs throughout the state were in attendance. In addition to getting to know each other and our common journeys, this weekend was time of reflection, inspiration, exploration, skill-building, and challenge.



Happy Valley Retreat Attendees: L-R Joseph Carter, Sumaira Ahmed, Mariya Borovska, Maitreyee Chandra and Luis Barrios

## MESA Leadership Conference - Fall 2017

The Student Leadership Conference (SLC) brings hand-picked STEM students with industry professionals to develop the next generation of diverse STEM leaders. This event bridges from college to career, em-powering students with the "soft skills" and emotional intelligence they need to succeed.



MESA students in SLC L-R Mustafa Naik, Ralyn Britton, and Kevin Tran

*"Through attending this conference, I have made many professional connections on LinkedIn with students from other campuses and many inspiring, successful women of color whose work ethic and tact I admire."*

**- Ralyn Britton- MESA student**

## Internship & Scholarships

**Sumaira Ahmed** – Stephen C. Bishop Scholarship

**Wendy Avalos** – Rossmore Scholarship

**Louis Barrios** – O.C. Jones Internship, Ole & Eileen Moles Scholarship

**Zack Bethel** – Rising Sun Energy

**Mariya Borovska** – O.C. Jones Internship, Somerton Scholarship

**Bond Bortman** – UCB TTE-REU Internship, DVC Retirees Association Scholarship, and Phyllis Howe Memorial Scholarship

**Ralyn Britton** – UCD Prep Medico Internship, Kennedy King Scholarship

**Joseph Carter** – UCB TTE-REU Internship, Somerton Scholarship, Bernard Osher Scholarship

**Brent Curran** – City of Livermore ENGR, Somerton Scholarship

**Briana Davis** – East Bay Mineral Scholarship

**Guillaume de Cannart** – Phyllis Howe Memorial Scholarship

**Hans Elizaga** – Warren L. Finke Memorial Scholarship

**Marwin Fernandez** – USC DEBI:C4 Internship

**Miguel Hernandez** – UCSF Gladstone Internship

## STEM Conferences attended by MESA students in 2017-2018:

- Stanford University Minority Medical Alliance (SUMMA)- February 2018
- Society of Women Engineer's Google Visit - February 2018, Sunnyvale
- Cisco Girl PowerTech Conference- March 2018, San Jose
- LatinX in the Mathematical Sciences- March 2018, UCLA
- UCSF Pathogenesis Symposium - March 2018
- Generation Science Conference- April 2018, Stanford University
- UCB Microbiology Student Symposium- April 2018



# MESA EVENTS

ISSUE 3, 2017-18



## DRx/Banks Integration Field Trip - April 2018

Students were invited to take a field trip to DRx, a company that produces novel protein therapeutics to treat cancer and other debilitating diseases in humans. They also visited Banks Integration group, a company that provides innovative design and engineering with proven methodologies that effectively and efficiently integrate data across the production process.

## AvenueE Tag Workshop - Fall 2017

Erin Silva, UC Davis STEM Strategies Group Coordinator offered information about the Avenue E program to potential UC Davis transfer students. Avenue E is an excellent opportunity for students that are planning to transfer to UC Davis with majors in engineering or computer science. The program is geared to help first generation and female students as well as those that belong to underrepresented groups in engineering and computer science.



## Speaker Series: Charting a Course in Biotech- April 2018

Genentech's Chris Flask presented information on how to plan a career path way in stem. Other topics included current trends in microbiology and how to go about applying for jobs in biotechnology.



## UC Personal Insight Question & Application Workshop - October 2017

MESA Counselor Brenda Gonzalez hosted a workshop on the UC application process and how to approach writing the Personal Insight Questions for the UC applications. Students took the opportunity to ask questions about the process.



## MESA Event Highlights:

### Fall 2017

MESA Welcome Day  
MESA Information Session  
Focus Group Meetings  
AvenueE Tag Workshop  
Banks Integration Speaker Panel  
UC Personal Insight Question  
and Application Workshop  
VMWare Field Trip  
Year-End Social

### Spring 2018

MESA Welcome Day  
Resume Writing Workshop  
Wellness & College Success Workshop  
Climate Change Sp. Series  
CSU Stanislaus Info Session  
Job Fair Success Workshop  
AvenueE Info Session  
Charting a Course in Biotech Sp. Series  
Overview of Biomed Eng. Sp. Series  
UC Davis McNair Workshop  
"Power of being Connected" Workshop

## Intern & Scholar Cont'd

### Eric Lopez- DVC

Foundation Scholarship

### Kathryn Miller - Bernard

Osher Scholarship

### Mustafa Naik - Pacific

Instruments Internship and  
Somerton Scholarship

### Mohamed Nijad - Texas A & M REU Internship

### Kylie Paramore - Kaiser

Permanente FOOL

Internship, Kennedy King

Scholarship, Rossmoor

Scholarship, and Hagstrom  
Scholarship

### Ernst Pulido - UCSF

Oncology Dept Internship  
and Somerton Scholarship

### Da' Quan Robinson -Barbara

Robinson Academic  
Excellence Scholarship

### Erin Rosales - Assistance

League of Diablo Valley  
Scholarship and PEO  
Sisterhood Chapter GX,  
Carolyn Chrisman  
Scholarship

### Javier Sandoval - M.K. Fives

Academic Scholarship and  
Alice Kruse Puente  
Scholarship

### Chantheary Soth - AvenueE

Scholarship  
**Khang (kevin) Tran** - Keith  
Reeves Memorial Scholarship  
& Phyllis Howe Memorial  
Scholarship

### Roberto Velez - UCD Prep

Medico Internship

# STUDENT CORNER

At the time of declaring my major as Mechanical Engineering, I was commuting 30 miles away from home to Diablo Valley College. It was hard for me to find a place to study since I was far from home. MESA has not only helped me get the tutoring needed for my classes, but it also gave me a place I could study, eat, and connect with other STEM students alike. The MESA coordinators stay on top of their schedules to ensure they are constantly informing students of local internships in the area, because of this I've had the pleasure of getting an engineering internship with CHC consulting as well participating in a robotics competition with NASA, where I was granted a NASA Aerospace Community College Scholarship. Overall, MESA has made me a well-rounded student.

- Mouzima Mousumi MESA Student



*The Kennedy King Scholars  
(L-R Ralyn Britton and Kylie Paramore)*



*Generation Science Conference*



*Students at work!*



*The Fantastic SI Team*



*The Amazing MESA Tutors*



*DesignX Field Trip*



*Resume Basics Workshop*



*UC Berkeley Visit*

## Acknowledgements

### Thank you MESA Volunteers and Supporters!

#### MESA TUTORS

Who are here on a weekly basis to help students in need.

**SI LEADERS/  
FACULTY** Who lead sessions to help MESA students in developing a deeper understanding of the concepts taught in class.

#### STUDENT WORKERS

For helping the center and events run smoothly.

#### MESA COUNSELOR

Brenda Gonzalez for providing individual help and advice to MESA students and for your informative workshops.

**MESA PROGRAM  
ASSISTANT**  
Clarice Adams for helping the program with the day to day operations.

**MESA DIRECTOR**  
Maitreyee Chandra for working tirelessly to improve and expand the MESA Program.

## STEM Students and Clubs

### WOMEN IN STEM



This community helps women succeed in STEM fields by providing a positive environment to propel women towards their goals.

### MATH CLUB

This club is dedicated to bringing together the math community here at DVC through learning, problem solving and fellowship. You will get an opportunity to go deeper into the math that you have learned, get talks from professors at DVC, and get the opportunity to visit math conferences.

### United Minds of STEM (UMS)

UMS is a student-run organization at MESA which is dedicated towards promoting and advocating student ideas in order to develop practical applications and research-conceived innovation and creativity. UMS is

"MESA inspired us to become leaders not only within our cohort but within the whole of community. It taught us giving back to those who are in need, as we were before joining MESA"  
**Monica Noori Saghar- Club Founder**

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