Napa Valley College

PROGRAM ACHIEVEMENTS:

Grants/Fellowships Awarded:

- US Department of Transportation: Dwight David Eisenhower Transportation Fellowship Program; one of four community colleges in the nation for 2009-2010, 2010-2011 & 2011-2012
- Co-facilitation for the NSF sponsored 2nd & 3rd Basic and Advanced Science and Technology Academics of Research Symposium, 2006 UCLA, 2008 CSU-Sacramento
- A former Member of the Biology Transfer Consortium (BTC) & the Environmental Leadership Pathway Program (ELP) at U.C. Berkeley
- 133 paid research/internships from 2004 thru Summer 2012
- Napa Valley College Foundation Scholarships, since 2002 has awarded 280 MESA participants a total of 565 scholarships!
- Total transferred between Fall 2002 thru Spring 2012: 250
- Spring 2012 658 hours of math, science, and engineering tutoring offered to all NVC STEM students
- Participant of MESA CCCP/National Science Foundation Grant
- California Connects Program
- Hispanic Serving Institution Science Technology Engineering and Math (HSI STEM) and Articulation grant.

MESA Regional Business/Industry Council:

Francis Ortiz-Chávez, Trustee, Napa Valley Unified School District
Antonio Castro, NVC Engineering Instructor / Agilent Technologies Electrical Engineer
Andy Kinane, NVC Instructor, Engineer/CASCE
Dorothy Lind-Salmon, Napa Valley Economic Development Corporation
Erica Cruz, Engineer, Schaaf & Wheeler
Peter Allen, NVC Instructor & Consultant Emerging Markets Economics

MESA Transfer Students 2011-2012

<table>
<thead>
<tr>
<th>Name</th>
<th>Institution</th>
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<tbody>
<tr>
<td>Yannick Aranas</td>
<td>UC Davis</td>
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<tr>
<td>David Ayers</td>
<td>St Mary’s College</td>
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<tr>
<td>Lucero Cervantes</td>
<td>Cal Poly SLO</td>
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<td>KaMan Chan</td>
<td>UCLA</td>
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<td>Tony Charles</td>
<td>UC Davis</td>
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<td>Craig Furman</td>
<td>UC Berkeley</td>
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<td>Charlotte Henderson</td>
<td>CSU East Bay</td>
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<td>Tiffany Hui</td>
<td>UC Davis</td>
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<tr>
<td>Kremena Karagyozova</td>
<td>UC Berkeley</td>
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<td>Muhammad Maqsood</td>
<td>UC Davis</td>
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<tr>
<td>Noemi Mauricio</td>
<td>UC Davis</td>
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<tr>
<td>Ashley Milhizer</td>
<td>UC Davis</td>
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<td>Enrique Mora</td>
<td>CSU Sacramento</td>
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<tr>
<td>Lawrence Padoan</td>
<td>UC Berkeley</td>
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<td>Michael Padilla</td>
<td>UCLA</td>
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<td>Kyung Soo Park</td>
<td>CSU Sacramento</td>
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<td>Eric Peck</td>
<td>CSU Sacramento</td>
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<td>Gabriel Perez</td>
<td>San Francisco State</td>
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<td>Eduardo Rodriguez</td>
<td>CSU Sacramento</td>
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<td>Alisha Rosario</td>
<td>CSU Sacramento</td>
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<td>Bianca Silva</td>
<td>UC Irvine</td>
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<td>Jacob Spinelli</td>
<td>UC Davis</td>
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<td>Maribel Torres</td>
<td>UC Santa Cruz</td>
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<tr>
<td>Hong Truong</td>
<td>San Jose State Univ.</td>
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René Rubio, MESA Advisor;
Sue Nelson, VP of Instruction;
José Hernández, MESA Director

SACNAS  
MESA  
SHPE
The Program

The Mathematics, Engineering, Science Achievement (MESA) Program was started in Fall 1999 to serve educationally underrepresented students and encourages them through a wide range of services to develop the necessary academic and leadership skills to successfully transfer and later graduate from a four-year university with a degree in mathematics, engineering, science or computer science. The MESA web page keeps the wider community and participants informed of opportunities/scholarships in math, engineering and science.

www.napavalley.edu/MESA

MESA currently serves 100+ students. Since 2002, 250 MESA students from NVC have transferred to a four-year college/university.

The Main Components

- A student computer lab center where individuals and groups of students study, receive tutoring, and gather for meetings of MESA, program clubs including MESA, Society for Advancement of Chicanos and Native Americans in Science (SACNAS), and Society of Hispanic Professional Engineers (SHPE)
- Academic counseling includes working with each student to develop a three-year academic plan, based on transfer requirements at four-year institutions
- Academic Excellence Workshops (AEW) cluster students scheduled in math and science core classes facilitated by faculty on how to maintain high academic outcomes through group study
- Student financial concerns are addressed through application workshops, updated information related to grant opportunities, remuneration for attending AEW workshops and facilitating academic tutorial sessions
- Field trips to business sites as well as engineering, computer science, and science programs/departments at four year colleges encourage successful transfer. A liaison is maintained with UC & CSU Alliance for Minority Programs, UC Center for Underrepresented Engineering Students, and other programs
- Student outreach is through a variety of activities including: presentations at NVCs fall & spring orientations, as well as local middle and high schools, Puente, Trio Programs, Adelante Program, non-profit and social service clubs/associations
- Student support services include tutoring, personal advising, participation in internships and leadership training institutes

Accomplishments

All-USA community and junior college academic team members:

- Amber Matusek (Mathematics. Mills College)
- Nida Qureshi received the Phi Theta Kappa Honor All-California Academic 1st Team (Electrical Engineering, UC Berkeley)
- Nida Qureshi received the Guistwhite Scholar of the Phi Theta Kappa Honor Society
- Kira L. Bulger (Engineering, Cal Poly)
- Luis Alcazar (Mechanical Engineering, UC Berkeley)
- Sabrina Galvin (Biology, University of Oklahoma)
- SACNAS 2010-2011, Nationally Recognized as outstanding new chapter
- New Century Scholar Award Highest scoring students in the state of California
- Nida Qureshi was awarded the New Century Scholar
- Kira Bulger was awarded the New Century Scholar

Partial listing of research/internships awarded to:

- Environmental Leadership Program (ELP) at UC Berkeley Provided by National Science Foundation Grant (NSF)—Total Participants : 10
- Basic & Advanced Science and Technology Academies of Research (B-STAR) (A STAR) NSF Grant — Total Participants: 44
- US Dept. of Transportation, Dwight David Eisenhower Transportation Fellowship Program awarded research—total of Participants: 14
- UC Berkeley’s Biology Transfer Consortium and Biology Fellows Program provided—Total Participants: 11
- Jessica Blanco, Yadira Chavez, Karla Marquez, Giancarlo Santa Cruz, Silvia Mendoza, Bobby Sutton, Shanice Watts and Ralph Valdez interned at Touro University during Summer 2012
- Brenda Montanez, Samuel Solis and Patricia Soto at UC Merced biology department research (A STAR)
- Alma De Haro at Bourns College of Engineering, CE-CERT lab, (Center for Environmental Research and Technology)
- Rafael Montanez at Stanford University in a lab with Dr. Renee Rejo-Perra thru the Human Embryonic Stem Cell Research
- Christian Ramos and Maria Sanchez participated in a program at Stanford University entitled Health Careers Opportunities Program (HCOP)