28th Annual

STUDENT RESEARCH COMPETITION

May 2 – 3, 2014

HOSTED BY:

CALIFORNIA STATE UNIVERSITY
EAST BAY
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<td>Associate Professor of Physics, CSU East Bay</td>
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A MESSAGE FROM TIMOTHY P. WHITE,
Chancellor, California State University

Congratulations to all participants in the 28th Annual California State University Student Research Competition and to your mentors. Thank you to the faculty, staff and students of my alma mater, CSU East Bay, for hosting this year’s competition.

The process of rigorous review that comes from subjecting findings to a community of academic peers sharpens the mind and fosters new ideas. Through your dedication, you have become a dynamic part of the expansion of human knowledge. You sustain this expansion by asking a question, proposing a hypothesis, testing that hypothesis, verifying the result and asking another question. This knowledge seeking can last a lifetime and leave a legacy for the future.

My best wishes are with you in this competition and throughout your journey of academic exploration.

A MESSAGE FROM LEROY M. MORISHITA,
President, California State University, East Bay

Dear California State University Research Competition Participants,

On behalf of the faculty, students, and staff at Cal State East Bay, I am pleased to welcome you to the 28th Annual California State University Student Research Competition. We are proud to be hosting the top undergraduate and graduate student researchers in the CSU system as you showcase your achievements. Cal State East Bay, as do our sister campuses, offers students an outstanding quality university education. A crucial component of this is student research opportunities afforded our students to work closely and collaboratively with faculty and fellow students to enrich their classroom experiences.

We hope you enjoy your time on our campus and that you have an opportunity to exchange creative ideas with other students and faculty mentors. I wish you continued success as you work to provide the solutions to the challenges we face today and tomorrow.

Leroy M. Morishita
President
Welcome to the 28th Annual CSU Student Research Competition, which we are proud to be hosting at CSU East Bay this year. This competition features some of the best research being performed by our many talented, CSU students, who work in concert with dedicated faculty mentors, to create new ways of approaching scientific and social issues, examining challenges in business and engineering, and offering fresh perspectives on the arts and history.

We know that the research our students do with faculty can influence how they think critically about their world, their choice of careers, and our collective impact on society. This is a great opportunity for all of us to appreciate the curiosity and hard work that go into creating research for the 21st century. I am really looking forward to hearing the presentations and learning something new in each session.

A research competition this large—with over 200 participants, from 23 campuses, and representing dozens of disciplines—could not take place without the collective efforts of many people. Most especially, I want to thank Dr. Jason Singley, Associate Professor of Physics and Director of the Center for Student Research at East Bay, for being our coordinator and for performing outreach to our neighboring Universities, Community Colleges, and Laboratories, who have generously helped us find jurors for the competition.

I hope you will enjoy listening to some of our brightest minds explore new visions. Enjoy your time at CSU East Bay!

KEYNOTE SPEAKER BIOGRAPHY

Dr. Derek Jackson Kimball, Associate Professor of Physics, CSU East Bay

Professor Jackson Kimball’s research focuses on using techniques of experimental atomic physics and nonlinear optics for precision tests of the fundamental laws of physics. In particular, his research focuses on searches for new spin-dependent interactions that may have a connection to dark energy and dark matter, tests of fundamental symmetries of nature, and atomic spectroscopy with optical frequency combs. Professor Jackson Kimball received his Ph.D. in 2005 from the University of California at Berkeley, and is the co-author of Atomic Physics: an exploration through problems and solutions (Oxford University Press, 2008), Optical Magnetometry (Cambridge University Press, 2013), and over 50 peer-reviewed research articles. Professor Jackson Kimball was California State University East Bay’s 2011-12 George and Miriam Phillips Outstanding Professor.
Session 1
BEHAVIORAL AND SOCIAL SCIENCES, GRADUATE
Friday, May 2
Location: VBT 137

12:00
Tobias Larson
California State University, East Bay
Degree Objective: M.S. Kinesiology
Title: Using Mental Skills to Support Lifestyle Changes

12:20
Luís Gutierrez-Mock
San Francisco State University
Degree Objective: Masters of Public Health
Title: Multiracial Trans People and Bullying: Findings from the National Transgender Discrimination Survey

12:40
Elizabeth Bogumil
California State University, Northridge
Degree Objective: M.A. Sociology
Title: Transgender Discrimination Survey

1:00
Darin Brown
California State University, Los Angeles
Degree Objective: M.A. Psychology
Title: Multimodal Emotion Enhanced Memory: Congruent vs. Incongruent Cross Processing Effects on Memory

1:20
Sarah Conklin
California State University, Los Angeles
Degree Objective: M.S. Counseling, Applied Behavior Analysis
Title: Pyramidal Parent Training Using Behavioral Skills Training: Training Caregivers in the Use of a Differential Reinforcement Procedure

1:40
Nikki Cox
California State University, Northridge
Degree Objective: M.A. Anthropology
Title: Tangible Communities: A Folkloric Investigation at the Los Angeles Wisdom Tree

1:40
Corina Díaz
California State University, Dominguez Hills
Degree Objective: M.A. Sociology
Title: Beyond Legal Denying: A Study in Long Beach, California

1:40
Maria Díplonidis
California State University, East Bay
Degree Objective: Master of Social Work
Title: Identifying Intergenerational Patterns in the Child Welfare System

1:40
Daniel Ignacio
California State University, Fullerton
Degree Objective: M.A. Psychology
Title: The Effects of Music and Auditory Affective Priming on Cognition

1:40
Denise Kennedy
California State University, East Bay
Degree Objective: Master of Social Work
Title: Stress Management and Physical Activity for Clients with Schizophrenia

1:40
Juan Francozer
California State University, San Bernardino
Degree Objective: M.A. Criminal Justice
Title: Conflict Cetation and the Emergence of Weapon Supermarkets

Session 2
BIOLOGICAL AND AGRICULTURAL SCIENCES, GRADUATE
Friday, May 2
Location: VBT 219

12:00
Jennifer Gilbert
San Francisco State University
Degree Objective: M.S. Biology
Title: Putative Prasinomonas, SPCH-32/3
May Play a Role in Fertility in C. elegans

12:20
Bryan Ervin
California State University, Chico
Degree Objective: M.S. Biology
Title: Investigating Hot Springs Fungi for Applications to Biofuel Production

12:40
Heather Aucoff
California Polytechnic State University, Pomona
Degree Objective: M.S. Animal Science
Title: Effects of Adding a Dried Food Waste Product to the Diets of Finishing Pigs on Growth, Feed Intake, and Nutrient Digestibility

1:00
Chance Anderson
California State University, Los Angeles
Degree Objective: M.S. Biology
Title: Digestibility

1:20
John Berriman
California State University, Fullerton
Degree Objective: M.S. Biology
Title: Liposomes Formulated with Host-Derived Lipids Induce Bacterial Aggregation and Inhibit Bifidin Formation of Pseudomonas aeruginosa

1:40
Navreet Kaur Mahal
California State University, Fresno
Degree Objective: M.S. Plant Science
Title: Nitrous Oxide Emissions from Cotton Treated with Inhibitors

1:40
Jimmy Bodnar
Humboldt State University
Degree Objective: M.S. Microbiology
Title: Biochemical Characterization of the Folate Biosynthetic Pathway in a Rickettsial Endosymbiont of Ixodes pacificus

2:00
Nicholas Edward Clark
California State University, Fresno
Degree Objective: M.S. Plant Science
Title: Pyrosequencing Analyses of Endophytic Bacterial Populations in Tomato Leaves Infected by ‘Candidatus Liberibacter solanacearum’

2:20
Adriel Cruz
California State University, Sacramento
Degree Objective: M.S. Biology
Title: A Comparative Study of Assessment Formats in an Undergraduate Anatomy and Physiology Course

2:40
Laura Kuebler
San Diego State University
Degree Objective: M.S. Biomedical Informatics
Title: Genomic Analysis and Characterization of Colonizing and Invasive Group B Streptococcal Clinical Isolates

3:00
Lauryn Keeler
San Diego State University
Degree Objective: M.S. Biochemistry
Title: Description of New Species and Quantifying Diversity in the Sauvagesian Genus Oxyurus, a Proposed Biocontrol Agent

3:20
Nicholas Grover
California State University, San Bernardino
Degree Objective: M.S. Biology
Title: Measuring and Characterizing the Structure in the Santa Ana Speckled Dace (Rhinichthys osculus): Conservation and Evolution

3:40
Stacy Nekocinski
California State University, San Bernardino
Degree Objective: M.S. Biology
Title: Microsatellite Analysis of Population Structure in the Santa Ana Speckled Dace (Rhinichthys osculus): Conservation and Evolution
Session 3

BEHAVIORAL AND SOCIAL SCIENCES, UNDERGRADUATE

Friday, May 2
Location: VBT 126

12:00  Rachel Echeandia, Erik Miranda
California State University, East Bay
Degree Objective: B.A. Psychology
Title: Motivation: The Importance of Mastery in Middle School Science Achievement

12:20  Gokh Alshaif, Noor Qwfan
California State University, Bakersfield
Alshaif, B.A. Political Science
Qwfan, B.A. Public Administration
Title: Daughters of Sojourners: The Yemeni-American Female’s Experience in Education

12:40  Jasmine Awad
California State University, Northridge
Title: Adolescents Selling Drugs during Their Adolescence?

1:00  Brian Bulaya
Cal Polytechnic State University, Pomona
Degree Objective: B.A. Urban and Regional Planning
Title: Exploring the Regenerative Student Community Fellowship at Westminster Elementary (Pomona, CA)

1:20  Tatiana Daniels
California State University, Sacramento
Degree Objective: B.A. Sociology
Title: What Influences Some Black Males to Sell Drugs during Their Adolescence?

1:40  Jose Zacarias
California State University, Sacramento
Degree Objective: B.S. Government
Title: U.S. FDI and Mexican Immigration

12:00  Gerald Eisman, Chelsea McElwee
California State University, Dominguez Hills
Degree Objectives: B.A. Psychology
Title: Relationships Among Ethnicity, Early Childhood Factors and Neuropsychological Test Performance

12:20  Seyka Huff
California State University, Long Beach
Degree Objective: B.A. Psychology
Title: Behavior Indicators of Stress Overload

12:40  Chidimma Igbogwu
California State University, East Bay
Degree Objective: B.A. Psychology
Title: Peer and Parental Attachment as Predictors of Adjustment and Achievement in High School and College among Domestic and International Students

1:00  Christine Lee
California State University, San Marcos
Degree Objective: B.A. Communications
Title: Communicating Learner Empowerment in a Montessori Classroom

1:20  Vanessa Carlos
California State University, San Bernardino
Degree Objective: B.A. Psychology and Human Development
Title: The Combined Effects of Manipulating Multiple Word Characteristics during Reading

1:40  Steven Nieto
California State University, San Bernardino
Degree Objective: B.A. Psychology
Title: Adolescent Preexposure Enhances Sensitivity to Cocaine in Adulthood

2:00  BREAK

2:20  Jasmine Hamilton
California State University, Sacramento
Degree Objective: B.S. Biological Science
Title: The Effect of Long-Term Mental Exposure and Mermithid Parasitism on Behavior and Prolongation of Daphnia Magna by Synflo Laxative

2:40  Yvess Adamian
California State University, Northridge
Degree Objective: B.S. Biology
Title: Analysis of the Cytoskeleton-Associated Protein RAI14 as a New Molecular Target in Pancreatic Cancer

3:00  Jose Banuelos
California State University, San Marcos
Degree Objective: B.S. Biology
Title: Auxin Biosynthesis in Agrobacterium tumifaciens

3:20  Matt Brush, Shayne Holler
Humboldt State University
Degree Objectives: B.S. Environmental Science
Title: Salt Marsh Carbon Sequestration: A Baseline Study for Arcata, California

3:40  Lance Eco Courtney
California State University, Sacramento
Degree Objective: B.S. Biological Science
Title: Parental Care Investment Confers Resistance to Sapropeltisin in Convict Cichlid Eggs

4:00  BREAK

4:20  Abdulhamid Dalia
California State University, Bakersfield
Degree Objective: B.S. Biology
Title: Pilot Project: Attempt to Inhibit the Growth of Coccidioides immitis in its Natural Habitat by a Bacterial Antagonist
1:00 Kayvan Mojtabazadeh  
San Francisco State University  
Degree Objective: M.A. Industrial Arts  
Title: Thermoring: A Safety Feature for Old Electric Stoves

1:20 Mark Pinto  
San José State University  
Degree Objective: M.F.A. Photography  
Title: The Veteran’s Voice In Art

1:40 Isabel Barraza Valencia  
California State University, Fresno  
Degree Objective: M.A. Art  
Title: The World Below: Contemporary Painting

2:00 Zachary Barton, Maximiliano Cisneros, Ana Elias  
California State University, Dominguez Hills  
Degree Objectives: B.A. Graphic Design  
Title: Hearts for the Arts

2:20 BREAK

2:40 Prisca Langlais  
California State University, Fullerton  
Degree Objective: M.F.A. Drawing/Painting  
Title: Visual Representation of the Body in Art

3:00 Samantha Lewis  
San José State University  
Degree Objective: B.A. Interior Design  
Title: Responsive Building Surfaces

3:20 Mitchel Davidovitz  
California State University, Chico  
Degree Objective: B.A. Music: Recording Arts  
Title: Window of Normalization: A Musical and Photographic Exposition Created Solely with Sounds and Images Captured from Live Television

3:40 Meline Baghdasarian  
California State University, Los Angeles  
Degree Objective: M.S. Mechanical Engineer  
Title: Mixing in Thermally Stratified Nonlinear Spin-Up with Sources and Sinks

4:00 Andres Chavez  
California State University, Northridge  
Degree Objective: M.S. Mechanical Engineer  
Title: Multiferroic Motor Design, Fabrication, and Characterization

4:20 Jeanette Cobian-Iniguez  
California State University, Los Angeles  
Degree Objective: M.S. Mechanical Engineer  
Title: Parametric Analysis of a Compact Fin and Tube Heat Exchanger

4:20 Brandon Coetzee, Jasmeet Panag  
San Diego State University  
Degree Objective: M.S. Mechanical Engineer  
Title: Increasing Solar Cells Efficiency through New Generation of Low Band Materials and New Architecture

3:00 BREAK
1:00 | Eryk Hakman  
San Francisco State University  
Degree Objective: B.S. Biology  
Title: Are there Misconceptions about the Coronary System’s Role in Heart Attacks? A Novel and Reproducible Approach to Demonstrate the Anatomy of a Heart Attack

1:40 | Isidro Landa  
California State University, Long Beach  
Degree Objective: B.A. Psychology  
Title: Gastrointestinal Disturbances as Somatic Indicators of Psychological Stress

2:00 | David W. McMillan  
California State University, San Marcos  
Degree Objective: B.A. Kinesiology  
Title: Comparison of Metabolic and Hemodynamic Responses to Two Maximal Aerobic Exercise Tests

1:20 | Brittany Kato  
California State University, Fullerton  
Degree Objective: B.S. Kinesiology  
Title: Exploring the Individual Perceptions of Patients Recovering From Total Knee Arthroplasty

2:20 | BREAK

2:40 | Breanna Orozco  
California State University, Monterey Bay  
Degree Objective: B.S. Kinesiology  
Title: Evaluation of a Worksite Based Walking Competition on Perceived Stress and Physical Activity Participation Among Female University Employees

3:00 | John Ramos  
California State University, Sacramento  
Degree Objective: B.S. Dietetics  
Title: Man Enough: Somatoform and Eating Disorder Symptomology Among African American, Caucasian, and Hispanic/Latino Varsity/NCAA Division 1 Male Athletes

3:20 | Rodrigo Flores  
California State University, Long Beach  
Degree Objective: B.A. Psychology  
Title: Functional Consequences of Early Methylphenidate Exposure in Adolescent Rats

3:40 | Sabrina Hrabe  
Sonoma State University  
Degree Objective: B.S. Kinesiology  
Title: Effects of a Single Bout of Intermittent and Continuous Exercise on Postprandial Glycemia and Lipidemia

1:20 | Hanjiro Ambrose  
San José State University  
Degree Objective: B.A. Environmental Studies  
Title: Driving Rural Energy Access: A Second-Life Application for Electric Vehicle Batteries

2:00 | Gradon Faulkner  
California State University, Channel Islands  
Degree Objective: B.S. Computer Science and Mathematics  
Title: Optimization of Associative Memory

1:00 | Nastassia Hamor  
California State University, East Bay  
Degree Objective: M.S. Kinesiology  
Title: Measuring the Transfer of Three Psychological Skills from an Academic Setting to the Real World

1:20 | Michael Gallego, Kristena Koen  
California State University, Channel Islands  
Degree Objective: B.A. Political Science  
Title: Ideological Polarization and the Appropriations Process

2:20 | Emily Largay  
California State University, Channel Islands  
Degree Objective: B.A. Anthropology  
Title: Anthro in the Workplace: The Corporate World of California Pizza Kitchen

3:00 | Peter Krause  
California State University, Channel Islands  
Degree Objective: B.S. Political Science  
Title: Want to Know Who’s at Risk for Internet Addiction? Click Here
1:00  Stephanie Colman  
California State University, Northridge  
Degree Objective: M.A. Mass Communication  
Title: Connected: A Public Relations Effort to Support the Deaf Education And Families Project  
2:20  Kirandeep Deol  
San José State University  
Degree Objective: B.S. Chemistry  
Title: Chiral Sensing and Recognition using Europium(III)-Tetracycline Species in Circularly Polarized Luminescence  

1:20  Zane Cooper  
California State University, San Marcos  
Degree Objective: M.A. History  
Title: The Chinese Cowboy  
2:40  Rebecca Adamk  
California State University, Fullerton  
Degree Objective: B.S. Chemistry  
Title: The Discovery of a Novel West Nile Virus NS2B-NS3 Protease Small Molecule Inhibitor  

1:40  Chaz Kelley  
California State University, Chico  
Degree Objective: M.A. Communication Studies  
Title: Storm Censors  
3:00  Martin Salgado  
California State University, Chico  
Degree Objective: M.A. English/Creative Writing  
Title: Mexican-American Dreams  
3:20  Theresa Morrison  
San Diego State University  
Degree Objective: B.S. Applied Mathematics  
Title: A Quantitative Method for Analyzing the Movement of Mucus in a CF Lung

2:00  Yollotl Lopez  
California State University, Northridge  
Degree Objective: M.A. English Literature  
Title: Swashbucklers in Skirts: Female Gang’s Uprising of Power in YA “Seduction Tales”  
2:20  Gerardo Soriano  
San Diego State University  
Degree Objective: B.S. Chemical Physics  
Title: An Ab Initio Study on the Isomerization of the Cyclooctatetraenyl Radical  
2:40  Madison Perry  
California State University, San Marcos  
Degree Objective: B.S. Applied Mathematics  
Title: Characterization of Universal Dielectric Response and Negative Capacitance in Compressed Nanopowders  
3:00  Warren Nannya  
California State University, Dominguez Hills  
Degree Objective: B.S. Chemistry  
Title: Cost Effective Ion Selective Electrodes from Metal-azo Complexes

3:00  BREAK

3:20  Warren Nannya  
California State University, Dominguez Hills  
Degree Objective: B.S. Chemistry  
Title: Cost Effective Ion Selective Electrodes from Metal-azo Complexes  
3:40  Conor Camplison  
California Polytechnic State University, San Luis Obispo  
Degree Objective: B.S. Biochemistry  
Title: Fast-Wicking Paper-Based Fluidic Channels

4:00  Stephan Becerra  
California State University, Stanislaus  
Degree Objective: B.S. Chemistry  
Title: Photophysical Characterization and Solvent Effect on the Tonaturosemi of Free Base Corrole  
4:20  Nathalie Perez  
California State University, Stanislaus  
Degree Objectives: B.S. Chemistry, B.A. Criminal Justice  
Title: Fluorescence Properties of DNA Base Analogs to Study Base Flipping at the Single Molecule Level
Session 11
BEHAVIORAL AND SOCIAL SCIENCES, GRADUATE
Saturday, May 3
Location: VBT 137

8:40 Jodi Lewis
California State University, Sacramento
Degree Objective: M.A. Public Policy and Administration
Title: Examining the Influence of First Year Experience on Graduation at Sac State

9:00 Erin Mascho
California Polytechnic State University, Pomona
Degree Objective: M.A. Hospitality and Management
Title: An Investigation of Managerial Compensation in the Restaurant Industry

9:20 Jed Sam Pizarro-Guevara
California State University, Long Beach
Degree Objective: M.A. Linguistics/TESOL
Title: A Psycholinguistic Study of Tagalog Relative Clauses: Age of Acquisition and Comprehension

9:40 Irina Potapova
San Diego State University
Degree Objective: Ph.D. Language and Communicative Disorders
Title: Cognitive Effects in Child and Adult Spanish-English Bilinguals during Receptive Vocabulary Assessment

10:00 Bryan Pride
California Polytechnic State University, San Luis Obispo
Degree Objective: M.A. Public Policy
Title: Becoming Food Secure: How Corporate Farms Create Food Insecure Communities in Developing Countries

10:20 BREAK

10:40 Lindsey Rein
California State University, Chico
Degree Objective: M.A. Psychological Science
Title: "What’s on Your Mind?": A Review of Facebook, Extraversions, Narcissism, Loneliness, Empathy, Internet Addiction, and Self-Disclosure

11:00 Emily Schmied
San Diego State University
Degree Objective: Ph.D. Public Health
Title: Factors Predicting Intervention Fidelity of a Family-based Dietary Intervention

11:20 Swati Vishwanathan
California State University, East Bay
Degree Objective: M.A. Communication
Title: Yahoo Appoints Pregnant CEO: A Content Analysis

11:40 Jessica Wombolt
California State University, San Marcos
Degree Objective: M.A. Psychology
Title: Common Marmosets (Callithrix jacobus) Response to Snake Characteristics

12:00 Lace Riggs
California State University, San Bernardino
Degree Objective: M.A. General Experimental Psychology
Title: Prenatex Exposure during Adolescence Alters Response to Aversive Stimuli in Adulthood

Session 12
BIOLOGICAL AND AGRICULTURAL SCIENCES, GRADUATE
Saturday, May 3
Location: VBT 124

8:40 Gwen Miller
California State University, Monterey Bay
Degree Objective: M.S. Applied Marine and Wetland Science
Title: Di Temperature and Dissolved Organic Carbon Play a Role in Nitrate Removal within a Treatment Wetland

9:00 Shannon Waters
California State University, Sacramento
Degree Objective: M.S. Biological Science
Title: Does Exposure to High Salinity Result in Reduced Reproduction in Salmon Sea? Tlipa?

9:20 Justin Anthony Martinez
California State University, Bakersfield
Degree Objective: M.S. Biology
Title: Grapevine Water Use Varies Seasonally and Between Different Varieties

9:40 Amanda Roos
California State University, San Marcos
Degree Objective: M.S. Psychology
Title: Effects of Methamphetamine on Reward-Related USVs in Rats

10:00 Bercenice Rooler
California State University, San Diego
Degree Objective: M.S. Cell and Molecular Biology
Title: Adaptive Immunity Involved in Modulation of Group B Streptococcal Vaginal Colonization

10:20 Michael Schram
California State University, Northridge
Degree Objective: M.S. Biology
Title: Effects of Stimulated Size-Selective Harvesting on a Pronegious Temperate Reef Fish, Rhinogobiops nicholisi

10:40 BREAK

11:00 Jessica Valadez
California State University, Fullerton
Degree Objective: M.S. Biology
Title: Analysis of the Transcriptional Activation and Post-transcriptional Regulation of Transient Receptor Potential Muclpl-2 (TRPM2) Gene

11:20 Samantha Willford
California Polytechnic State University, Pomona
Degree Objective: M.S. Biology
Title: Thermodynamic Measurements May Reveal a New Ion/Substrate Stoichiometry for the γ-Aminobutyric Acid

11:40 Catherine Yasuda
California State University, Chico
Degree Objective: M.S. Biological Science
Title: Assessment of a Non-Invasive Technique to Identify Individual Lizards

12:00 Kelly Baker
California State University, Stanislaus
Degree Objective: M.S. Ecology and Sustainability
Title: Temporal Variation in Coyote (Canis latrans) Diet at the San Joaquin River, San Luis, and Merced Wildlife Refuges

12:20 Brian Lavin
California State University, Sonoma
Degree Objective: M.S. Biology
Title: Molecular Dating in the Anguidae: What Glass Lizards and Alligator Lizards can tell us about Past Climate Change
### Session 13
**BEHAVIORAL AND SOCIAL SCIENCES, UNDERGRADUATE**

**Saturday, May 3**

**Location:** VBT 126

<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
<th>Affiliation</th>
<th>Degree Objective</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:40</td>
<td>Daniel Markendorf</td>
<td>California State University, Bakersfield</td>
<td>B.A. Political Science</td>
<td>Giving Up American Ideals to Save America</td>
</tr>
<tr>
<td>9:00</td>
<td>Kaylyn Perugini</td>
<td>California State University, Chico</td>
<td>B.A. Political Science</td>
<td>Rethinking the Causes of Routine Gun Violence</td>
</tr>
<tr>
<td>9:20</td>
<td>Kyla Rankin</td>
<td>California State University, Fresno</td>
<td>B.A. Psychology</td>
<td>The Effect of Virtual Eye-Height on Memories of Object Size</td>
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<tr>
<td>9:40</td>
<td>Carlos Rosas</td>
<td>California State University, San Marcos</td>
<td>B.A. Psychology</td>
<td>Discrimination and Mental Health among Latinos</td>
</tr>
<tr>
<td>10:00</td>
<td>Patrick Shushereba</td>
<td>California Polytechnic State University, Pomona</td>
<td>B.A. Political Science</td>
<td>The Swing Vote and the Attitudinal Model of the Supreme Court: Explaining Ideological Shift to the Court Over Time</td>
</tr>
<tr>
<td>10:20</td>
<td>Ricardo Vasquez</td>
<td>California State University, San Marcos</td>
<td>B.A. Communication</td>
<td>&quot;I Just Need Someone to Talk to&quot;: The Importance of Conversations for At-Risk Kids</td>
</tr>
<tr>
<td>10:40</td>
<td>BREAK</td>
<td></td>
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</tr>
<tr>
<td>11:00</td>
<td>Kyle Firek</td>
<td>California State University, Monterey Bay</td>
<td>B.A. Psychology</td>
<td>Antimicrobial Effects of Curcumin Analogue Against Select Bacteria</td>
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<tr>
<td>11:20</td>
<td>Martha Zavala Perez</td>
<td>California State University, Channel Islands</td>
<td>B.A. Communication</td>
<td>A Comparative Study of Sustainability Awareness at CSU! Channel Islands</td>
</tr>
<tr>
<td>11:40</td>
<td>Paul Martinez</td>
<td>Sonoma State University</td>
<td>B.A. Sociology</td>
<td>I See Black People Everywhere: The Effect of Perceived Neighborhood Racial Composition on Middle-Class Black and White Social Interactions</td>
</tr>
<tr>
<td>12:00</td>
<td>Edgar Larin</td>
<td>California State University, San Bernardino</td>
<td>B.A. Criminal Justice</td>
<td>Network Profiling: Can the Analysis of an Affiliation Network Aid in Serial Crime Investigations?</td>
</tr>
<tr>
<td>12:20</td>
<td>Kristal Rahemc</td>
<td>Sonoma State University</td>
<td>B.A. Sociology</td>
<td>The Experience: An Analysis of the Retention and Graduation Rate of Black Students at Sonoma State University</td>
</tr>
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</table>

### Session 14
**BIOLOGICAL AND AGRICULTURAL SCIENCES, UNDERGRADUATE**

**Saturday, May 3**

**Location:** VBT 136

<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
<th>Affiliation</th>
<th>Degree Objective</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:40</td>
<td>Samantha Hartanto</td>
<td>California State University, Fresno</td>
<td>B.S. Chemistry</td>
<td>Investigating Defense Responses of Nicotiana benthamiana Involving the 14-3-3 Gene Family using VIGS</td>
</tr>
<tr>
<td>9:00</td>
<td>Peter Kleinpess</td>
<td>California State University, San Bernardino</td>
<td>B.A. Anthropology</td>
<td>The Paper Trail: Digital Archiving</td>
</tr>
<tr>
<td>9:20</td>
<td>Imelda Ibarra</td>
<td>California State University, Bakersfield</td>
<td>B.S. Biology</td>
<td>Cutaneous Bacteria from Two Amphibian Species (Rana catesbeiana and Bufo boreas halophilus) Inhibit the Growth of Human Fungal Pathogens</td>
</tr>
<tr>
<td>9:40</td>
<td>Katherine Moore</td>
<td>California State University, Chico</td>
<td>B.S. Animal Science</td>
<td>Effects of Brewer’s Yeast on Growth Performance and Carcin Tissue of Angus-influenced Steers</td>
</tr>
<tr>
<td>10:00</td>
<td>Daniel Muratore</td>
<td>California State University, Monterey Bay</td>
<td>B.S. Environmental Science, Technology, and Policy</td>
<td>Impact of Management Type on Emissions of Nitrous Oxide within a Sprinkler Irrigated Lettuce Crop</td>
</tr>
<tr>
<td>10:20</td>
<td>BREAK</td>
<td></td>
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<tr>
<td>10:40</td>
<td>Osman Sharifi</td>
<td>California State University, East Bay</td>
<td>B.S. Biological Science</td>
<td>A Partial Genome Sequence for Tritonia diomedea</td>
</tr>
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<table>
<thead>
<tr>
<th>Time</th>
<th>Jennifer Spencer</th>
<th>California State University, Fullerton</th>
<th>B.S. Biological Science</th>
<th>Investigating Defense Responses of Nicotiana benthamiana Involving the 14-3-3 Gene Family using VIGS</th>
</tr>
</thead>
<tbody>
<tr>
<td>11:00</td>
<td>Jacob Brown</td>
<td>California State University, Stanislaus</td>
<td>B.S. Biology</td>
<td>Genetic Separation of Catalytic Activity and Feedback Inhibition in ThrB (homoserine kinase) Enhances the L-threonine Biosynthesis in Corynebacterium glutamicum</td>
</tr>
</tbody>
</table>

18 28TH ANNUAL CALIFORNIA STATE UNIVERSITY STUDENT RESEARCH COMPETITION 19
<table>
<thead>
<tr>
<th>Time</th>
<th>Name</th>
<th>Institution</th>
<th>Degree Objective</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:20</td>
<td>David Duwe</td>
<td>San Diego State University</td>
<td>M.B.A. Entrepreneurship/Finance</td>
<td>Technology Commercialization: Example of an Investor’s Pitch Created by a Student MBA Team</td>
</tr>
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<tr>
<td>9:40</td>
<td>Takako Nishikawa</td>
<td>San Francisco State University</td>
<td>M.A. Japanese</td>
<td>Technology Commercialization: Example of an Investor’s Pitch Created by a Student MBA Team</td>
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<tr>
<td>10:00</td>
<td>Chelsea Redmon</td>
<td>California State University, Long Beach</td>
<td>M.A. Economics</td>
<td>The Relationship Between Corruption, Competition and Democracy: A Cross-Country Analysis</td>
</tr>
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<tr>
<td>10:20</td>
<td>James Chin, Farzana Morshed</td>
<td>California State University, East Bay</td>
<td>B.A. Liberal Studies</td>
<td>Community Issues in American Metropolitan Cities: A Data Mining Case Study</td>
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<tr>
<td>9:20</td>
<td>Hibba Ashraf</td>
<td>San Francisco State University</td>
<td>M.S. Biology</td>
<td>Determining the Proportion of Students that Switch Out of Biology Majors at SFSU and the Reasons Why</td>
</tr>
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<tr>
<td>9:40</td>
<td>Audrey Denney</td>
<td>California State University, Chico</td>
<td>M.S. Agricultural Education</td>
<td>Perceptions of Agricultural Sustainability held by California Secondary Agriculture Teachers</td>
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<tr>
<td>10:00</td>
<td>Marc Dutch</td>
<td>California State University, Long Beach</td>
<td>M.S. Counseling</td>
<td>Marriage Family Therapists’ Attitudes toward Evidence Based Treatments and Readiness for Change: What are the Training Needs?</td>
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<tr>
<td>10:20</td>
<td>Kyle Kennew</td>
<td>San Francisco State University</td>
<td>M.A. English: Composition</td>
<td>Student Rationale for Self-Placement into First Year Composition: Decision Making and Directed Self-Placement</td>
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Session 16
EDUCATION, COMBINED
Saturday, May 3
Location: AE 160

<table>
<thead>
<tr>
<th>Time</th>
<th>Name</th>
<th>Institution</th>
<th>Degree Objective</th>
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<tbody>
<tr>
<td>10:40</td>
<td>Brenda Sifuentez</td>
<td>California State University, Fresno</td>
<td>M.A. Higher Education Administration and Leadership</td>
<td>Cultural Competency: An Understanding of Cultural Competency in Student Affairs at Fresno State</td>
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<tr>
<td>11:20</td>
<td>Claudia Gonzalez, Rachel Hinaant, Ana Cristina Rodriguez</td>
<td>California State University, East Bay</td>
<td>M.A. Higher Education Administration and Leadership</td>
<td>Cultural Competency: An Understanding of Cultural Competency in Student Affairs at Fresno State</td>
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<td>10:00</td>
<td>Marra Nishikawa</td>
<td>San Francisco State University</td>
<td>M.A. Japanese</td>
<td>Technology Commercialization: Example of an Investor’s Pitch Created by a Student MBA Team</td>
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<tr>
<td>10:20</td>
<td>Beni Merlin</td>
<td>Sonoma State University</td>
<td>B.A. Sociology</td>
<td>Dreams Unfulfilled - An Analysis of Undocumented Students at SSU and SRJC</td>
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</table>
Session 17
ENGINEERING AND COMPUTER SCIENCE, UNDERGRADUATE
Saturday, May 3
Location: AE 142

8:40  Sean Acord, Sulaiman Alkadashee, Josh Ward
California State University, Bakersfield
Degree Objectives: Acord, B.S. Engineering Sciences
Alkadashee, B.S. Electrical Engineering
Ward, B.S. Computer Engineering
Title: Communication of Position Information among Unmanned Aerial Vehicles - UAVs - using ad-hoc ZigBee Networks

9:00  Matthew Corey, Zack Gentry, Andrew Sakamoto
California Polytechnic State University, Pomona
Degree Objectives: B.S. Chemical Engineering
Title: Corrosion of Nickel Chromium Alloys in Molten Sodium Sulfate Salt at 900° C

9:20  William Slocumb
San José State University
Degree Objective: B.S. Materials Engineering
Title: Bamboo Fiber Reinforced Composites for Orthotics and Prosthetics

9:40  Abhijit Suprem
California State University, Fresno
Degree Objective: B.S. Electrical Engineering
Title: Development of Cooperative and Competitive Evolutionary Algorithms to Deal with Dynamic Constraint Parameters and Solution Stagnation

10:00 Brian Herrera, Matthew Roesger, Rosalie Tallud
California State University, Dominguez Hills
Degree Objectives: B.S. Computer Science
Title: Mathematical Modeling of an Infectious Disease in Closed Population

Session 18
HEALTH, NUTRITION, AND CLINICAL SCIENCES, GRADUATE
Saturday, May 3
Location: AE 137

10:00  Wesley Heidenreich
San Francisco State University
Degree Objective: M.S. Communicative Disorders
Title: Changes in Sentence Structure and Complexity in Augmentative and Alternative Communication Based on Conversation

10:20  Cassandra Hudson, Rachel Jao, Meghan Moss, Jacqueline Sanchez
California State University, Dominguez Hills
Degree Objectives: M.S. Occupational Therapy
Title: Adaptation in Adolescents and Young Adults with Spinal Cord Injury: A Mechanism for Change

10:40  Jamie Phillips, Davey Ramos, Michael Wong
California State University, Northridge
Degree Objectives: M.S. Exercise Physiology
Title: Community Based Diabetes Prevention Programs: An Extension of 100 Citizens

11:00  Toni Pipes
California Polytechnic State University, San Luis Obispo
Degree Objective: M.S. Biomedical Engineering
Title: Characterizing the Reproducibility of Electrospun Poly (D,L-Lactide-co-Glycolide) Biomaterial Scaffolds

11:20  Kevin Valenzuela
California State University, Fullerton
Degree Objective: M.S. Kinesiology
Title: Effect of Foot Rotation during Running on Knee Moments and Lateral-medial Shear Force

11:40  Jozlyn Jareunpoon
Humboldt State University
Degree Objective: M.S. Kinesiology
Title: Acute Effects of Bikram Yoga on Ambulatory Blood Pressure
Session 19  
HUMANITIES AND LETTERS, UNDERGRADUATE  
Saturday: VBT 134  

<table>
<thead>
<tr>
<th>Time</th>
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</thead>
</table>
| 9:00   | Miles Culpepper                                                                          | San Francisco State University, San Francisco | B.A. History  
          | San Francisco State University, San Francisco |                  | Degree Objective                                      |
| 9:20   | Alexis Ingram                                                                            | California State University, Monterey Bay     | B.A. Human Communication  
          | California State University, Monterey Bay |                  | Degree Objective                                      |
| 9:40   | Marissa Jenrich                                                                           | California State University, Long Beach       | B.A. History  
          | California State University, Long Beach |                  | Degree Objective                                      |
| 9:40   | Olga Alfaro                                                                              | Sonoma State University                       | B.A. Spanish and B.A. Business  
          | Sonoma State University |                  | Business Title: Linguistic Analysis of Code Switching, Translation and Interpretations in the Film Instructions Not Included |
| 10:00  | Bonnie McKenzie                                                                           | California State University, Dominguez Hills  | B.A. History  
          | California State University, Dominguez Hills |                  | Degree Objective                                      |
| 10:20  | Maria Servin                                                                             | California Polytechnic State University, Pomona | B.A. Ethnic and Women’s Studies  
          | California Polytechnic State University, Pomona |                  | Degree Objective                                      |

Session 20  
PHYSICAL AND MATHEMATICAL SCIENCES, GRADUATE  
Saturday: VBT 221  

<table>
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<tr>
<th>Time</th>
<th>Title</th>
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</table>
| 9:00   | Masaki Hamada                                                                            | California State University, Chico             | M.S. Environmental Science  
          | California State University, Chico |                  | Degree Objective                                      |
| 10:00  | BREAK                                                                                     |                |                                                       |
| 11:00  | Grant Olson                                                                              | California Polytechnic State University, San Luis Obispo | M.S. Materials and Coatings  
          | California Polytechnic State University, San Luis Obispo |                  | Degree Objective                                      |
| 12:00  | Katherine Urabe                                                                           | California State University, Fresno           | M.A. Mathematics  
          | California State University, Fresno |                  | Degree Objective                                      |
| 12:20  | John Wilson                                                                              | California State University, Bakersfield      | M.S. Geology  
          | California State University, Bakersfield |                  | Degree Objective                                      |
| 12:20  | Masoud Roucintan                                                                         | California State University, Fullerton        | M.A. Physical Chemistry  
          | California State University, Fullerton |                  | Degree Objective                                      |
| 12:20  | John Wilson                                                                              | California State University, Bakersfield      | M.S. Geology  
          | California State University, Bakersfield |                  | Degree Objective                                      |
Session 21
PHYSICAL AND MATHEMATICAL SCIENCES, UNDERGRADUATE
Saturday, May 3
Location: AE 142a

9:20  Lilyana Staight Gross
California State University, Monterey Bay
Degree Objective: B.S. Pure Mathematics
Title: Modeling the Spread of Methamphetamine
Use: A Compartmental Approach

9:40  Carolyn Kan
California State University, Los Angeles
Degree Objective: B.S. Biochemistry
Title: Synthesis and Characterization of Kinase Inhibitors Encapsulated in mPEG-PLGA Nanoparticles for Anticancer Drug Delivery

10:00 Justin Thornton
California State University, Bakersfield
Degree Objective: B.S. Chemistry
Title: Synthesis of Small Molecule Lysyl Oxidase Inhibitors via Reductive Animation

10:20 Guilhem DeHoe
California Polytechnic State University, San Luis Obispo
Degree Objective: B.S. Chemistry
Title: Synthetic Design of Block Copolymer Amphiphiles for Nanomaterial Dispersion

10:40 BREAK

11:00 Holly Leopardi
Humboldt State University
Degree Objective: B.S. Physics
Title: Test of Gravity Below Fifty Microns

11:20 Daniel Collister
California State University, Los Angeles
Degree Objective: B.S. Mathematics
Title: The Lonely Runner and His Colorful Friends

11:40 Charles Petersen
San Jose State University
Degree Objective: B.S. Mathematics
Title: Winning Strategies for the Combinatorial Game Upset-Downset
<table>
<thead>
<tr>
<th>Session</th>
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<th>Student</th>
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</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>2:00</td>
<td>Ana Elias</td>
<td>Hearns for the Arts</td>
</tr>
<tr>
<td>17</td>
<td>10:00</td>
<td>Brian Herrera</td>
<td>Mathematical Modeling of an Infectious Disease in a Closed Population</td>
</tr>
<tr>
<td>18</td>
<td>10:20</td>
<td>Cassandra Hudson</td>
<td>Adaptation in Adolescents and Young Adults with Spinal Cord Injury: A Mechanism for Change</td>
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<tr>
<td>18</td>
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<td>Rachel Jao</td>
<td>Adaptation in Adolescents and Young Adults with Spinal Cord Injury: A Mechanism for Change</td>
</tr>
<tr>
<td>3</td>
<td>2:20</td>
<td>Chelsea McElwee</td>
<td>Relationships Among Ethnicity, Early Childhood Factors and Neurocognitive Test Performance</td>
</tr>
<tr>
<td>19</td>
<td>10:00</td>
<td>Bonnie McKenzie</td>
<td>Bay Son of America: Good for God, Good for Business</td>
</tr>
<tr>
<td>18</td>
<td>10:20</td>
<td>Meghan Moss</td>
<td>Adaptation in Adolescents and Young Adults with Spinal Cord Injury: A Mechanism for Change</td>
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<tr>
<td>10</td>
<td>3:20</td>
<td>Warren Nanney</td>
<td>Cost Effective Immune Selective Electrodes from Metal-oxide Complexes</td>
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<tr>
<td>15</td>
<td>11:00</td>
<td>Karen Orellana</td>
<td>Leadership and Organizational Performance in the Public Sector</td>
</tr>
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<td>Matthew Roseger</td>
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<td>Rovick Tallul</td>
<td>Mathematical Modeling of an Infectious Disease in a Closed Population</td>
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<tr>
<td>15</td>
<td>10:20</td>
<td>James Chiu</td>
<td>How are Executives Getting Paid for Corporate Social Responsibility (CSR)</td>
</tr>
<tr>
<td>1</td>
<td>3:00</td>
<td>Maria Diploudis</td>
<td>Identifying Interorganizational Patterns in the Child Welfare System</td>
</tr>
<tr>
<td>3</td>
<td>12:00</td>
<td>Rachel Ehrand</td>
<td>Motivation: The Importance of Mastery in Middle School Science Achievement</td>
</tr>
<tr>
<td>16</td>
<td>11:20</td>
<td>Claudia Gonzalez</td>
<td>America’s Call to Improve Science Education: Professional Development Deeps Middle School Science Teachers’ Content Knowledge</td>
</tr>
<tr>
<td>8</td>
<td>1:00</td>
<td>Nastassia Hamor</td>
<td>Measuring the Transfer of Three Psychological Skills from an Academic Setting to the Real-World</td>
</tr>
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<tr>
<td>3</td>
<td>3:00</td>
<td>Chalidima Igborgwu</td>
<td>Peer and Parental Attachment as Predictors of Adjustment and Achievement in High School and College Among Domestic and International Students</td>
</tr>
<tr>
<td>1</td>
<td>3:40</td>
<td>Denise Kennedy</td>
<td>Stress Management and Physical Activity for Clients with Schizophrenia</td>
</tr>
<tr>
<td>1</td>
<td>12:00</td>
<td>Tobias Larson</td>
<td>Using Mental Skills to Support Lifestyle Changes</td>
</tr>
<tr>
<td>3</td>
<td>12:00</td>
<td>Erik Miranda</td>
<td>Motivation: The Importance of Mastery in Middle School Science Achievement</td>
</tr>
</tbody>
</table>

**CALIFORNIA STATE UNIVERSITY, CHICO**

<table>
<thead>
<tr>
<th>Session</th>
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<tbody>
<tr>
<td>5</td>
<td>3:20</td>
<td>Mitchel Davidovitz</td>
<td>Window of Normalization: A Musical and Photographic Exposition Created Solely with Sounds and Images Captured from Live Television</td>
</tr>
<tr>
<td>16</td>
<td>9:40</td>
<td>Audrey Denney</td>
<td>Perceptions of Agricultural Sustainability held by California Secondary Agriculture Teachers</td>
</tr>
<tr>
<td>2</td>
<td>12:20</td>
<td>Bryan Ervin</td>
<td>Investigating Hot Spring Fungi for Applications to Biofuel Production</td>
</tr>
<tr>
<td>20</td>
<td>9:00</td>
<td>Masaki Hamada</td>
<td>Critical Evaluation of the Cosine-Correlation Algorithm Using Synthetic Backscatter Images and Synthetic Wind Velocity Fields</td>
</tr>
<tr>
<td>9</td>
<td>1:40</td>
<td>Chaz Kelley</td>
<td>Storm Sensors</td>
</tr>
<tr>
<td>14</td>
<td>9:40</td>
<td>Katherine Moore</td>
<td>Effects of Brewer’s Yeast on Growth Performance and Carcass Traits of Angus-influenced Steers</td>
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<tr>
<td>13</td>
<td>9:00</td>
<td>Karlynn Peregrini</td>
<td>Rethinking the Causes of Bysting Gun Violence</td>
</tr>
<tr>
<td>11</td>
<td>10:40</td>
<td>Lindsey Rein</td>
<td>&quot;What’s on Your Mind?&quot;: A Review of Facebook, Autism, Trauma, Nervousness, Loneliness, Empathy, Internet Addiction, and Self-Disclosure</td>
</tr>
<tr>
<td>9</td>
<td>2:40</td>
<td>Martin Salgado</td>
<td>Mexican American Dreams</td>
</tr>
<tr>
<td>12</td>
<td>11:40</td>
<td>Catherine Yusuda</td>
<td>Assessment of a Non-Invasive Technique to Identify Individual Lizards</td>
</tr>
</tbody>
</table>

**CALIFORNIA STATE UNIVERSITY, DOMINGUEZ HILLS**

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<td>Zachary Hurton</td>
<td>Hearns for the Arts</td>
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<td>5</td>
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<td>Maximilliano Casteros</td>
<td>Hearns for the Arts</td>
</tr>
<tr>
<td>4</td>
<td>2:40</td>
<td>Cesar Delon</td>
<td>Synthesis of [7,7] Para-Cyclophane Ternary Polypeptide</td>
</tr>
<tr>
<td>1</td>
<td>2:40</td>
<td>Corina Diaz</td>
<td>Beyond Illegal Damping: A Study in Long Beach, California</td>
</tr>
<tr>
<td>3</td>
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<td>Gerald Eisman</td>
<td>Relationships Among Ethnicity, Early Childhood Factors and Neurocognitive Test Performance</td>
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**CALIFORNIA STATE UNIVERSITY, EAST BAY**

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<td>Chalidima Igborgwu</td>
<td>Peer and Parental Attachment as Predictors of Adjustment and Achievement in High School and College Among Domestic and International Students</td>
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<td>Denise Kennedy</td>
<td>Stress Management and Physical Activity for Clients with Schizophrenia</td>
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<td>Tobias Larson</td>
<td>Using Mental Skills to Support Lifestyle Changes</td>
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<td>Erik Miranda</td>
<td>Motivation: The Importance of Mastery in Middle School Science Achievement</td>
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### Session 15
- **Time:** 10:20
- **Student:** Farzana Morshed
- **Title:** How are Executives Giving Paid for Corporate Social Responsibility (CSR)

### Session 16
- **Time:** 11:20
- **Student:** Ana Cristina Rodriguez
- **Title:** America’s Call to Improve Science Education: Professional Development Depress Middleschool Science Teachers’ Content Knowledge

### Session 14
- **Time:** 10:40
- **Student:** Osman Sheriff
- **Title:** A Partial Genome Sequence for Tritonia diomedia

### Session 11
- **Time:** 11:20
- **Student:** Swati Vedwathanan
- **Title:** Yahoo Appoints Pregnant CEO: A Content Analysis

### Session 19
- **Time:** 8:40
- **Student:** Carolina Alvarez
- **Title:** Secure and Efficient Attachment Style in Relation to the Use of Numerical Immediate Behaviors

### Session 2
- **Time:** 2:20
- **Student:** Nicholas Edward Clark
- **Title:** Pyrosequencing Analysis of Endophytic Bacterial Populations in Tomato Leaves Infected by ‘Candidatus Liberibacter solanacearum’

### Session 14
- **Time:** 8:40
- **Student:** Samantha Hartanto
- **Title:** Antimicrobial Effect of Curcumin Analogues Against Select Bacteria

### Session 2
- **Time:** 3:20
- **Student:** Neeraj Kaur Mahal
- **Title:** Nitric Oxide Emissions from Cotton Treated with Indoxil

### Session 13
- **Time:** 9:20
- **Student:** Kyla Rankin
- **Title:** The Effect of Virtual Eye-Hinge on Memories of Object Size

### Session 15
- **Time:** 11:20
- **Student:** Ivy Rivera
- **Title:** How Exposure to Ambient Session Impacts Individual Perceptions and Career Expectations

### Session 16
- **Time:** 11:00
- **Student:** Brenda Sifuentes
- **Title:** Cultural Competency: An Understanding of Cultural Competency in Student Affairs at Fresno State

### Session 17
- **Time:** 9:40
- **Student:** Abhiijeet Suprann
- **Title:** Development of Cooperative and Competitive Evolutionary Algorithms to Deal with Dynamic Constraints Parameters and Solution Stagnation

### Session 19
- **Time:** 8:40
- **Student:** Tarun Tadevosyan
- **Title:** Secure and Efficient Attachment Style in Relation to the Use of Numerical Immediate Behaviors

### Session 20
- **Time:** 12:00
- **Student:** Katherine Urabe
- **Title:** The Dubrovnik Polynomial of Rational Knots

### Session 5
- **Time:** 1:40
- **Student:** Isabel Barraza Valencia
- **Title:** The World Below: Contemporary Painting

### Session 10
- **Time:** 1:20
- **Student:** Rebeccaa Ashmeck
- **Title:** The Discovery of a Novel West Nile Virus NS2B-NS3 Protease Small Molecule Inhibitor

### Session 1
- **Time:** 3:20
- **Student:** Daniel Ignacio
- **Title:** The Effects of Music and Auditory Affective Priming on Cognition

### Session 7
- **Time:** 3:20
- **Student:** Rodolfo Flores
- **Title:** Behavior Indicators of Stress Overload

### Session 3
- **Time:** 2:40
- **Student:** Seyka Huff
- **Title:** Measurement of Nanoscale Structure Plasma Detuning During V3 Phase Transition

### Session 19
- **Time:** 9:40
- **Student:** Marissa Jensen
- **Title:** Narrating Norah: Economic Identity for Irish Immigrant Women in New York City, 1855-1865

### Session 7
- **Time:** 1:40
- **Student:** Isidro Luna
- **Title:** Gastrointestinal Disturbances as Semantic Indicators of Psychological Stress

### Session 20
- **Time:** 11:00
- **Student:** Kham Nguyen
- **Title:** Systematic Approach to Optimizing Free Parameters in the Geldmann Boson Exchange Model for Quark-Quark Interactions

### Session 11
- **Time:** 9:20
- **Student:** Jed Sum Pizarro-Guerra
- **Title:** A Psycholinguistic Study of Tagalog Relative Clauses: Age of Acquisition and Comprehension

### Session 15
- **Time:** 10:00
- **Student:** Chelsea Redmon
- **Title:** The Relationship Between Corruption, Competition and Democracy: A Cross-Country Analysis of Community Issues in American Metropolitan Cities: A Data Mining Case Study

### Session 6
- **Time:** 4:20
- **Student:** Quang Tran
- **Title:** Investigation of Durability of High Performance Concretes: A Baseline Study for Arcata, California

### Session 18
- **Time:** 11:20
- **Student:** Kevin Valencia
- **Title:** Effect of Foot Rotation during Running on Knee Moments and Lateral-medial Shear Force

### Session 21
- **Time:** 11:00
- **Student:** Holly Leopardi
- **Title:** Tests of Gravity Below Fifty Microns

### Session 16
- **Time:** 10:00
- **Student:** Marc Dunch
- **Title:** Marriage Family Therapists’ Attitudes toward Evidence Based Treatments and Readiness for Change: What are the Training Needs?

### Session 7
- **Time:** 3:20
- **Student:** Rodolfo Flores
- **Title:** Functional Consequences of Early Methylphenidate Exposure in Adolescent Rats

### Session 3
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<td>2</td>
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<td>Chance Anderson</td>
<td>Liposomes Formulated with Heat-Derived Lipids: Induce Bacterial Aggregation and Inhibit Bacterial Formation of Pseudomonas aeruginosa</td>
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<td>Melanie Baghlasarian</td>
<td>Mixing in Thermally Stratiﬁed Nonlinear Spin-Up with Sources and Sinks</td>
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<td>John Berneman</td>
<td>Describing New Species and Quantifying Diversity in the Sangwalungia genus; Oxyena, a Proposed Bicentric Vector, using Molecular and Morphological Data</td>
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<td>Darin Brown</td>
<td>Multimodal Emotion Enhanced Memory: Congruent vs. Incongruent Cross Processing Effects on Memory</td>
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<td>Jeannette Cobian-Iniguez</td>
<td>Panometric Analysis of a Compact Pin and Tube Heat Exchanger</td>
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<td>Daniel Collister</td>
<td>The Lovely Runner and His Colorful Friends</td>
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<td>Sarah Censkin</td>
<td>Pyramidal Parent Training Using Behavioral Skills Training: Training Caregivers in the Use of a Differential Reinforcement Procedure</td>
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<td>Justin D’Agostino</td>
<td>Symbolizing Colors and Directions to Hidden Food Items</td>
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<td>Carolyn Kan</td>
<td>Synthesis and Characterization of Kinase Inhibitors Encapsulated in mgPEG-PLA Nanoparticles for Anticancer Drug Delivery</td>
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<td>Jimmy Solis</td>
<td>Establishing The Nation’s First Chicano Studies Department</td>
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<td>Kyle Feirke</td>
<td>Teen Whose Families Use Friendly Sarcasm and Teasing Have Nice Friends</td>
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<td>Alexis Ingram</td>
<td>Counting the Shippers: Community and the Changing Media Landscape</td>
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<td>Gwen Miller</td>
<td>Do Temperature and Disulfur Organic Carbon Play a Role in Nitrate Removal within a Treatment Wetland</td>
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<td>Daniel Muratore</td>
<td>Impact of Management Type on Emissions of Nitrous Oxide within a Sprinkler Irrigated L休闲 Crop</td>
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<td>Breanna Orozco</td>
<td>Evaluation of a Walksite Based Walking Competition on Perceived Stress and Physical Activity Participation Among Female University Employees</td>
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<td>Lilyana Staight Gross</td>
<td>Modeling the Spread of Methamphetamine Use: A Compartmental Approach</td>
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<td>Yecia Adamey</td>
<td>Analysis of the Cytokinesis-Associated Protein RAIH as a New Molecular Target in Pancreatic Cancer</td>
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<td>Jasmine Areal</td>
<td>Text is Less than Purple: A Study on Bidirectionality in Synesthesia</td>
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<td>Elizabeth Bogumil</td>
<td>Community Walkability &amp; Effects on Quality of Life</td>
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**CAL POLY POMONA**

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<td>2</td>
<td>12:40</td>
<td>Heather Aucoiff</td>
<td>Effects of Adding a Dried Food Waste Product to the Diet of Finishing Pig on Growth, Feed Intake, and Nutrient Digestibility</td>
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<td>Brian Bulaya</td>
<td>Exploring the Regenerative Student Community Fellowship at Western Elementary (Pomona, CA)</td>
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<td>17</td>
<td>9:00</td>
<td>Matthew CoRry</td>
<td>Corrosion of Nickel Chromium Alloys in Melted Sodium Sulfate Salt at 900°C C</td>
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<td>17</td>
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<td>John Dayton</td>
<td>Obstacle Avoidance System for UAVs Using Computer Vision</td>
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<td>4</td>
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<td>Raﬁ Dremensdjak</td>
<td>The Removal of Nitrate from Reverse Osmosis Concentrate Stream</td>
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<td>Miguel Enriquez</td>
<td>Obstacle Avoidance System for UAVs Using Computer</td>
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<td>Cole Frazier</td>
<td>Establishing an Ascending Urinary Tract Candidiasis in Swine Webster Mice</td>
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<td>Erin Mancho</td>
<td>An Investigation of Management Compensation in the Restaurant Industry</td>
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<td>Maria Servin</td>
<td>Framing Spaces of Illegal: Undocumented College Graduates and Deferred Action</td>
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<td>13</td>
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<td>Patrick Shusherehs</td>
<td>The Swing Vote and the Attitudinal Model of the Supreme Court: Explaining Ideological Shift in the Court Over Time</td>
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**CALIFORNIA STATE UNIVERSITY STUDENT RESEARCH COMPETITION**

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<td>Andres Chavez</td>
<td>Multiferrous Motor Design, Fabrication, and Characterization</td>
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<td>Stephanie Colman</td>
<td>Connected: A Public Relations Effort to Support the Deaf Education And Families Project</td>
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<td>Niki Cox</td>
<td>Tangible Communities: A Feldkirk Investigation at the Los Angeles Wisdom Tree</td>
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<td>Yolanda Lopez</td>
<td>Swabmarketers in Shiva: Female Gang’s Utilization of Power in YF “Seclusion Tale”</td>
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<td>18</td>
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<td>Jamie Phillips</td>
<td>Community Based Diabetes Prevention Program: An Extension of 100 Citizens</td>
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<td>Davey Ramos</td>
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<td>Michael Schram</td>
<td>Effects of Simulated State-Selective Harvesting on a Pronghorn Tepee Reef Fish, Bloaugekko stibobibis</td>
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<td>Michael Wong</td>
<td>Community Based Diabetes Prevention Program: An Extension of 100 Citizens</td>
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**CALIFORNIA STATE UNIVERSITY STUDENT RESEARCH COMPETITION**

**Framing Spaces of Illegality: Undocumented College Graduates and Deferred Action**

**Corrosion of Nickel Chromium Alloys in Melted Sodium Sulfate Salt at 900°C C**

**Effects of Adding a Dried Food Waste Product to the Diet of Finishing Pig on Growth, Feed Intake, and Nutrient Digestibility**

**The Swing Vote and the Attitudinal Model of the Supreme Court: Explaining Ideological Shift in the Court Over Time**

**Effects of Simulated State-Selective Harvesting on a Pronghorn Tepee Reef Fish, Bloaugekko stibobibis**

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<td>Samantha Willford</td>
<td>Thermodynamic Measurements May Reveal a New Ion Transport Mechanism for the γ-Aminobutyric Acid</td>
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<td>Samayyah Williams</td>
<td>The Removal of Nitrate from Reverse Osmosis Concentrate Stream</td>
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<td>Han Yang</td>
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<td>Theo Barrera</td>
<td>Exploration and Verification Analysis of a Linear Reluctance Accelerometer</td>
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<td>Bobby Bead</td>
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<td>Lance Tes Courtoy</td>
<td>Parental Care Investment Confer Resistance to Saprolegniasis in Convict Cichlid Eggs</td>
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<td>Adriel Cruz</td>
<td>A Comparative Study of Assessing Format in an Undergraduate Anatomy and Physiology Course</td>
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<td>Tatiana Daniels</td>
<td>What Influences Some Black Males to Sell Drugs during Their Adolescence?</td>
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<td>Alex Davis</td>
<td>Using Parasitology for Energy Harvesting and Sensing Applications</td>
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<td>Jasmine Hamilton</td>
<td>The Effect of Long-Term Metal Exposure and Mammalian Parasitism on Behavior and Procreation of</td>
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<td>Nymphal Manifolds by Scatufy Larvae</td>
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<td>Jodi Lewis</td>
<td>Examining the Influence of First Year Experience on Graduation at Sac State</td>
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<td>John Ramos</td>
<td>Man Enough: Somatofrom and Eating Disorder Symptomology Among African American, Caucasian, and</td>
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<td>Hispanic/Latinx Varsity/NCAA Division 1 Male Athletes</td>
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<td>Shannon Waters</td>
<td>Does Exposure to High Salinity Result in Reduced Reproduction in Salton Sea Tilapia?</td>
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<td>Jose Zacarias</td>
<td>U.S. FDI and Mexican Immigration</td>
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**CALIFORNIA STATE UNIVERSITY, SAN BERNARDINO**

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<td>14</td>
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<td>Peter Klempers</td>
<td>The Paper Trail: Digital Archiving</td>
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<td>Alexander Berleko</td>
<td>Seasonal Variations in Microclimate, Plant Pathology, and Leaf Physiology for Carpobrotus Adams and</td>
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<td>Dendrocal Edwards in the San Clemente Coast Bluff Vegetation</td>
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<td>Yanesza Carlos</td>
<td>The Combined Effects of Manipulating Multiple Word Characteristics during Reading</td>
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<td>Juan Franquez</td>
<td>Conflict Cessation and the Emergence of Weapons Supermarkets</td>
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**SAN DIEGO STATE UNIVERSITY**

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<td>Emily Schmied</td>
<td>Factors Predicting Intervention Fidelity of a Family-Based Dietary Intervention</td>
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<td>17</td>
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<td>Daniel Carver</td>
<td>Ultra Rapid Manufacturing of Nano-Scaled Components</td>
<td>Ultra Rapid Manufacturing of Nano-Scaled Components</td>
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<tr>
<td>15</td>
<td>9:20</td>
<td>David Done</td>
<td>Technology Commercialization: Example of an Inventor’s Pitch Created by a Student MBA Team</td>
<td>Technology Commercialization: Example of an Inventor’s Pitch Created by a Student MBA Team</td>
</tr>
<tr>
<td>2</td>
<td>3:00</td>
<td>Lauryn Keeler</td>
<td>Genomic Analysis and Characterization of Colonizing and Invading Group B Streptococcal Clinical Isolates</td>
<td>Genomic Analysis and Characterization of Colonizing and Invading Group B Streptococcal Clinical Isolates</td>
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<tr>
<td>10</td>
<td>1:40</td>
<td>Theresa Morrison</td>
<td>A Quantitative Method for Analyzing the Movement of Muscles in a CF Lung</td>
<td>A Quantitative Method for Analyzing the Movement of Muscles in a CF Lung</td>
</tr>
<tr>
<td>11</td>
<td>9:40</td>
<td>Irina Potapova</td>
<td>Cognate Effects in Child and Adult Spanish-English Bilinguals during Receptive Vocabulary Assessment</td>
<td>Cognate Effects in Child and Adult Spanish-English Bilinguals during Receptive Vocabulary Assessment</td>
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<tr>
<td>12</td>
<td>10:00</td>
<td>Beretine Rusler</td>
<td>Adaptive Immunity Related to Manifestation of Group B Streptococcal Vaginal Colonization</td>
<td>Adaptive Immunity Related to Manifestation of Group B Streptococcal Vaginal Colonization</td>
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<tr>
<td>10</td>
<td>2:20</td>
<td>Gerardo Soriano</td>
<td>An In Situ Study on the Immunization of the Cytocactaceae Radical</td>
<td>An In Situ Study on the Immunization of the Cytocactaceae Radical</td>
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<tr>
<td>9</td>
<td>3:20</td>
<td>Damin Sutton</td>
<td>The Throne is Burning: The Rise and Fall of the Gendered Urdu in Watch The Throne</td>
<td>The Throne is Burning: The Rise and Fall of the Gendered Urdu in Watch The Throne</td>
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<tr>
<td>17</td>
<td>11:20</td>
<td>Sumedha Weersasuriya</td>
<td>Ultra Rapid Manufacturing of Nano-Scaled Components</td>
<td>Ultra Rapid Manufacturing of Nano-Scaled Components</td>
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**SAN FRANCISCO STATE UNIVERSITY**

<table>
<thead>
<tr>
<th>Session</th>
<th>Time</th>
<th>Student</th>
<th>Title</th>
<th>Title</th>
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<tbody>
<tr>
<td>16</td>
<td>9:20</td>
<td>Hibba Ashraf</td>
<td>Determining the Proportion of Students that Switch Out of Biology Majors at SFPU and the Reasons Why They Choose This Major</td>
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</tr>
<tr>
<td>2</td>
<td>12:00</td>
<td>Jennifer Gilbert</td>
<td>Punitive Prosthetics, SPCH-320/3 May Play a Role in Fertility in C. elegans</td>
<td>Punitive Prosthetics, SPCH-320/3 May Play a Role in Fertility in C. elegans</td>
</tr>
<tr>
<td>1</td>
<td>12:20</td>
<td>Luis Gutierrez-Mack</td>
<td>Multicore Tissue Peoples and Bullying: Findings from the National Transgender Discrimination Survey</td>
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</tr>
<tr>
<td>7</td>
<td>1:00</td>
<td>Eryk Hakman</td>
<td>Are there Misconceptions about the Coronary System’s Role in Heart Attack? A Novel and Reproducible Approach to Demonstrate the Anatomy of a Heart Attack</td>
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</tr>
</tbody>
</table>
SAN JOSÉ STATE UNIVERSITY

10 1:00 Kirandeep Deal Chiral Sensing and Recognition using Europium(III)-Tetraethylammonium Luminescence
20 9:40 AnSun Jurek The Vulnerability of Groundwater to Perchloroethylene Contamination from Dry Cleaners in the Niles Cone Groundwater Basin, Southern Alameda County, California
5 3:00 Samantha Lewis Responsive Building Surfaces
21 11:40 Charles Petersen Winning Strategies for the Combinatorial Game "One-Downer"
17 1:20 Mark Panto The Veteran’s Voice In Art

CAL POLY SAN LUIS OBISPO

4 3:40 Kenneth Guerin Vasculization in Mature Anerized Collateral Capillaries Increase Flow in Ischemic Arterial Trees
6 1:00 Timothy Adam Proceedurally Generated, Adaptive Music for Rapid Game Development
10 3:40 Connor Campbell Path-Winding Paper-Based Fluidic Channels
6 3:20 Jason Cox Effects of Water Placement Practices on the Engineering Response of Municipal Solid Waste
21 10:20 Guismih DeHart Synthetic Design of Block Copolymer Amphiphiles for Nonmaterial Dispersion
20 10:00 Haydn Thomas Mitchell Paper-Based Standard Addition Assays: Quantifying Analytes via Digital Image Colorimetry under Various Lighting Conditions
20 11:20 Grant Olson Zno Oxide Nanowire Carbonylated Polyphosphazine Nanocomposites with Applications to Hybrid Solar Cells
18 11:00 Toni Pipes Characterizing the Reproducibility of Electrospun Poly(D,L-lactide-co-glycolide) Biomaterial Scaffolds

Sonoma State University

19 12:00 Olga Alfaro Linguistic Analysis of Code Switching, Translation and Interpretations in the Film Instructions Not Included
7 3:40 Sabrina Hrade Effects of a Single Bout of Intermittent and Continuous Exercise on Postprandial Glycemia and Lipidemia
12 12:20 Brian Levin Molecular Dating in the Anguidae: What Glass Lizards and Alligator Lizards can tell us about Past Climate Change
13 11:40 Paul Martinez I See Black People Everywhere: The Effect of Perceived Race on Callosum and Alligator Lizards can tell us about Past Climate Change
16 11:40 Beni Merlin Dreams Unfulfilled: An Analysis of Underdocumented Students as SSU and SRJC
13 12:20 Kristal Rahiem The Experience: An Analysis of the Retention and Graduation Rate of Black Students at Sonoma State University
### Session Time Student Title

<table>
<thead>
<tr>
<th>Session</th>
<th>Time</th>
<th>Student</th>
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</tr>
</thead>
<tbody>
<tr>
<td>12</td>
<td>12:00</td>
<td>Kelly Baker</td>
<td>Temporal Variation in Coyote (Canis latrans) Diet at the San Joaquin River, San Luis, and Merced Wildlife Refuge</td>
</tr>
<tr>
<td>10</td>
<td>4:00</td>
<td>Stephanie Becerra</td>
<td>Phytophysical Characterization and Solvent Effect on the Transversion of Free Base Corroles</td>
</tr>
<tr>
<td>14</td>
<td>11:20</td>
<td>Jacob Brown</td>
<td>Genetic Separation of Catalytic Activity and Feedback Inhibition in ThrB (homoserine kinase) Enhances the L-threonine Biosynthesis in Corynebacterium glutamicum</td>
</tr>
<tr>
<td>4</td>
<td>4:00</td>
<td>Alejandra Guillen</td>
<td>Long Term Effects of First-Hand Cigarette Smoke Exposure on the Levels of Plasma Glucose, Insulin, and Cortisol Using Swiss Webster Mice</td>
</tr>
<tr>
<td>19</td>
<td>12:20</td>
<td>Johnny Luna</td>
<td>Cultivating a Community: CSAs in the Central Valley</td>
</tr>
<tr>
<td>10</td>
<td>4:20</td>
<td>Nathalie Perez</td>
<td>Fluorescence Properties of DNA Base Analogs to Study Base Flipping at the Single Molecule Level</td>
</tr>
<tr>
<td>19</td>
<td>11:40</td>
<td>Kyle Tanaka</td>
<td>Nietzsche, Hegelgger, and Conscience as Amoral</td>
</tr>
<tr>
<td>4</td>
<td>4:00</td>
<td>Gabriela Vranco</td>
<td>Long Term Effects of First-Hand Cigarette Smoke Exposure on the Levels of Plasma Glucose, Insulin, and Cortisol Using Swiss Webster Mice</td>
</tr>
</tbody>
</table>

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The California State University is a leader in high-quality, accessible, student-focused higher education. With 23 campuses, almost 433,000 students, and 44,000 faculty and staff, we are the largest, the most diverse, and one of the most affordable university systems in the country. We offer unlimited opportunities to help students achieve their goals. We prepare graduates who go on to make a difference in the workforce. We engage in research and creative activities leading to scientific, technical, artistic and social advances. And we play a vital role in the growth and development of California’s communities and economy.

CALIFORNIA STATE UNIVERSITY, BAKERSFIELD (1965)

Centrally located on a 375-acre site in the southern San Joaquin Valley, California State University, Bakersfield is a continuously growing comprehensive regional university that is committed to transforming the lives of its students and community through its established excellence in academia, diversity, service, and community engagement since its founding in 1965. The faculty across the Western Association of Schools and Colleges (WASC) fully accredited University is world-class, with nearly 75% holding terminal degrees in their respective fields. A NCAA Division I school, CSUB has competed successfully in the Western Athletic Conference (WAC) since 2012 and is but one important aspect of a growing and vibrant student-life experience.

The University serves more than 9,000 students at either the main campus in Bakersfield or CSUB Antelope Valley and counts over 40,000 alumni from its four schools: Arts and...
as a conduit between the reality of today's America and a vision put forth by the CSU. In 1960
More than half a century after its founding, California State University, Dominguez Hills serves
the community by offering additional professional development, certificate, and degree programs.
With over 70 percent of its alumni remaining and working within the central valley, CSU
Bakersfield supports ongoing social, cultural and economic development in the region.
9001 Stockdale Highway, Bakersfield, CA 93311-1099
Dr. Horace Mitchell, President
(661) 654-2783 • www.csusb.edu
Colleen Dillaway, Director of Public Affairs and Communications
(661) 654-2456
This campus is on the quarter system.

CALIFORNIA STATE UNIVERSITY, CHANNEL ISLANDS (2002)
Nestled in a picturesque setting five miles from the Pacific Ocean, Channel Islands is the
newest CSU campus. Offering a student-centered education CI is known for its
interdisciplinary, multicultural, and international emphases. Undergraduate, credential
programs, and graduate programs create a close-knit atmosphere in which students receive
individual attention from dedicated faculty.

Opportunities for student research allow students to participate in faculty mentored
and independent research projects. Community-based research and community service
opportunities allow students to develop their personal, professional, and leadership skills.
One University Drive, Camarillo, CA 93012
Dr. Richard R. Rush, President
(805) 437-8400 • www.csuci.edu
This campus is on the semester system.

CALIFORNIA STATE UNIVERSITY, CHICO (1887)
CSU Chico, the second oldest campus in the CSU, is one of the highest rated public universities
in the West. It has excellent graduation and job placement rates and boasts a beautiful residential
campus located in a college-town setting. Ninety percent of the students live within a one-
mile radius. Many programs, including teacher education, nursing, social work, and recreation
administration are known for their innovation and outreach to the university’s primary service
area and beyond. A distance education trailblazer, CSU Chico was the first university in the
world to offer a graduate degree via satellite. Students have won national awards in business,
engineering, construction management, journalism, political science, and speech.

400 West First Street, Chico, CA 95929
Dr. Paul J. Zingg, President
(530) 898-4630 • www.csuchico.edu
This campus is on the semester system.

CALIFORNIA STATE UNIVERSITY, DOMINGUEZ HILLS (1960)
More than half a century after its founding, California State University, Dominguez Hills serves
as a conduit between the reality of today’s America and a vision put forth by the CSU. In 1960
CSU Dominguez Hills was deliberately placed in Carson to serve as the intersection of promise
and hope for a community in crisis. The university offers more than forty undergraduate
majors, twenty master’s degrees, and numerous certificate and credential programs. At CSU
Dominguez Hills student success is our highest priority – we offer a strong selection of
academic programs reflecting today’s high-demand fields. We create opportunities in and
out of the classroom for students, faculty and staff to work and learn together, promoting
a student-centered atmosphere. We are a university where pride and purpose meet; where
upward mobility begins; where public policy is created; where diversity is celebrated and
where our students gain knowledge and skills that prepare them to live and work in a
multicultural, global world. As a public state university, we are continually committed to
transforming the lives of our students.
1000 East Victoria Street, Carson, CA 90747-0005
Dr. Willie J. Hagan, President
(310) 243-3696 • www.csudh.edu
This campus is on the semester system.

CALIFORNIA STATE UNIVERSITY, EAST BAY (1957)
Cal State East Bay serves the east side of San Francisco Bay with two scenic campuses,
one in the Hayward Hills and the other in the Concord foothills, as well as a professional
development center in downtown Oakland. With an enrollment of more than 13,000, the
university attracts students from throughout the region and from more than 80 countries.
Named a “Best in the West” college by The Princeton Review, Cal State East Bay offers more
than 100 fields of study, award-winning curricula, small classes, expert faculty, and a fast,
flexible quarter system. It confers bachelor’s and master’s degrees, as well as an Ed.D., in
educational leadership.
25800 Carlos Bee Boulevard, Hayward, CA 94542
Dr. Leroy M. Morishita, President
(510) 885-3000 • www.csueastbay.edu
This campus is on the quarter system.

CALIFORNIA STATE UNIVERSITY, FRESNO (1911)
Fresno State is the premier university serving Central California's diverse, growing population.
Faculty and students work with community partners on research focused on key regional
challenges: water development and conservation, air quality, crop development and child-
books, and obesity prevention. The campus is home to the nation’s first university commercial winery, the
Dowling Planetarium, the ultra-modern Henry Madden Library and the Smittcamp Family
Honors College, which admits 50 top high school graduates each year with full scholarships.
Fresno State’s beautifully landscaped academic campus (officially an arboretum since 1978) is
near the Sierra Nevada mountains, just two hours’ drive from Yosemite, Kings Canyon and
Sequoia national parks.
5241 North Maple Avenue, Fresno, CA 93740
Dr. Joseph I. Castro, President
(559) 278-4240 • www.fresnostate.edu
This campus is on the quarter system.
CSU Fullerton offers the advantages of a dynamic, metropolitan university and a comfortable small-college atmosphere. Students flourish in mentoring relationships with outstanding professors who take pride in shaping a successful learning experience, including numerous opportunities for undergraduate research, hundreds of professional internships and prestigious competitions in the performing arts. With a vibrant, multicultural student population, CSUF ranks ninth in the nation in awarding baccalaureate degrees to minority students; and No. 3 in California and fifth in the nation in awarding baccalaureate degrees to Hispanics. The university is a top choice for future scientists, animation artists, educators, musicians, engineers, and also for studies in the humanities and behavioral and health sciences. Fifty-five undergraduate and 50 graduate degrees — including a doctorate degree — provide students the best of current practice, theory, and research and integrate professional studies with preparation in the arts and sciences.

This campus is on the semester system.

CSU Fullerton

CALIFORNIA STATE UNIVERSITY, LONG BEACH (1949)

California State University, Long Beach (CSULB) is a diverse, student-centered, globally engaged university that provides highly valued degrees through superior teaching, research, scholarly and creative activity, and a commitment to service. With nearly 35,000 students, it is one of the largest campuses among the CSU system’s 23 campuses and one of the largest in the state of California. Students can choose from 85 baccalaureate degrees, 18 credentials, 65 master’s degrees and four doctoral degrees in engineering, physical therapy, nursing and educational leadership. CSULB has consistently been ranked:

- Among the top five best public universities in the West by U.S. News and World Report in recognition of its high-quality education at an affordable cost.
- Top ‘Best Value’ and ‘Best in the West’ (Princeton Review)

This campus is on the semester system.

CALIFORNIA MARITIME ACADEMY (1929)

The California Maritime Academy, which joined the CSU in 1995, is one of only seven degree-granting maritime academies in the U.S. and the only one on the West Coast. Its 4,200 graduated cadets include the first woman to captain a commercial vessel. Cal Maritime graduates enjoy a very high job placement rate, thanks to a unique experiential learning curriculum that includes at least one international training cruise. Located in Vallejo, on the shore of San Pablo Bay, Cal Maritime offers accredited degrees in business administration, marine transportation, facilities engineering technology, maritime policy and management, marine engineering technology, and mechanical engineering. A program of intellectual learning, applied technology, global awareness, and leadership development prepares graduates for positions of responsibility in the areas of maritime, business, logistics, intermodal transportation, and engineering.

200 Maritime Academy Drive, Vallejo, CA 94590
Dr. William B. Eisenhardt, President
(707) 654-1000 • www.csum.edu
This campus is on the quarter system.

CALIFORNIA MARITIME ACADEMY

Top ‘Best Value’ and ‘Best in the West’ (Princeton Review)

Thirteenth in the nation in conferring bachelor's degrees to minority students
(Diverse Issues in Higher Education)

Among the top Universities Nationally in Freshman Applications
1250 Bellflower Boulevard, Long Beach, CA 90840
Dr. Donald J. Para, Interim President
(562) 985-4111 • www.csulb.edu
This campus is on the semester system.

CALIFORNIA STATE UNIVERSITY, LOS ANGELES (1947)

Working for California since 1947. The 175-acre hilltop campus of California State University, Los Angeles is at the heart of a major metropolitan city, just five miles from Los Angeles’ civic and cultural center. More than 20,000 students and 220,000 alumni—with a wide variety of interests, ages and backgrounds—reflect the city’s dynamic mix of populations. Six Colleges offer nationally recognized science, arts, business, criminal justice, engineering, nursing, education, and humanities programs, among others, led by an award-winning faculty. Cal State L.A. is home to the critically acclaimed Luckman Jazz Orchestra and to the Honors College for high-achieving students. Programs that provide exciting enrichment opportunities to students and community include an NEH-supported humanities center; a NASA-funded center for space research; and a growing forensic science program, housed in the Hertzberg-Davis Forensic Science Center. www.calstatela.edu.

5151 State University Drive, Los Angeles, CA 90032
Dr. James M. Rosser, President
(323) 343-3000 • www.calstatela.edu
This campus is on the quarter system.

HUMBOLDT STATE UNIVERSITY (1913)

Humboldt State University is a liberal arts and sciences university located on California’s pristine north coast. HSU is distinguished by its emphasis on real-world learning. Opportunities abound for undergraduate fieldwork in both the natural and social sciences. The university is also well known for its small class sizes and its commitment to faculty-student mentoring. HSU is home to one of the strongest natural resource and environmental studies departments in the nation and is consistently ranked by national publications as among the top regional colleges.

One Harpst Street, Arcata, CA 95521-8299
Dr. Rollin C. Richmond, President
(707) 826-3011 • www.humboldt.edu
This campus is on the semester system.

HUMBOLDT STATE UNIVERSITY

Top ‘Best Value’ and ‘Best in the West’ (Princeton Review)

• Among the Best Values in Public Colleges (Kiplinger’s Personal Finance)
• Thirteenth in the nation in conferring bachelor’s degrees to minority students
(Diverse Issues in Higher Education)
• Among the top Universities Nationally in Freshman Applications

CALIFORNIA STATE UNIVERSITY STUDENT RESEARCH COMPETITION
CALIFORNIA STATE UNIVERSITY, MONTEREY BAY (1994)

Cal State Monterey Bay provides more than 5,700 students an extraordinary opportunity to learn on a residential campus on the beautiful Monterey Peninsula. Our diverse student body receives personal attention in small classes while pursuing degrees in 23 undergraduate and eight graduate majors. Founded in 1995 on the former site of Fort Ord by educators and community leaders, Cal State Monterey Bay faculty and staff build on that legacy as we explore innovative ways to meet the needs of a new generation of students while simultaneously powering the Monterey County economy.

100 Campus Center, Seaside, CA 93955-8001
Dr. Eduardo Ochoa, President
(831) 582-3330 • www.csuom.edu
This campus is on the semester system.

CALIFORNIA STATE UNIVERSITY, NORTHROP (1958)

Serving more than 38,000 students each year, CSUN is one of the largest universities in the United States. CSUN ranks 10th in the country in awarding bachelor’s degrees to underrepresented minority students, fifth nationally in awarding master’s degrees to Hispanic students and enrolls the largest number of deaf and hard-of-hearing students of any U.S. state university. CSUN’s 171 academic programs and engaged centers enjoy international recognition for excellence. CSUN currently partners with more than 55 institutions of higher education in 19 countries around the globe and attracts the largest international student population of any other U.S. master’s level institution. Situated on a 356-acre park-like setting in the heart of Los Angeles’ San Fernando Valley, the campus features modern educational buildings and world-class LEED Gold-certified performing arts and recreational facilities recognized as among the best in the country. CSUN is a welcoming university that champions accessibility, academic excellence and student success.

18111 Nordhoff St., Northridge, CA 91330
Dr. Dianne F. Harrison, President
(818) 677-1200 • www.csun.edu
This campus is on the semester system.

CALIFORNIA STATE POLYTECHNIC UNIVERSITY, POMONA (1938)

Cal Poly Pomona is internationally recognized for its outstanding academic programs, including offerings in hospitality management, architecture, and engineering. One of only six polytechnic universities in the United States, Cal Poly Pomona champions an approach that places learning by-doing at the center of every program, course, and activity. Millions of dollars in grants are helping the university make a difference in its surrounding and academic communities, from advancing agricultural practice to improving teacher training. Additionally, U.S. News & World Report ranks Cal Poly Pomona as the fourth most ethnically diverse master’s level university in the West.

5801 W. Temple Avenue, Pomona, CA 91768
Dr. J. Michael Ortiz, President
(909) 869-7659 • www.cpp.edu
This campus is on the quarter system.

CALIFORNIA STATE UNIVERSITY, SACRAMENTO (1947)

Sacramento State offers a life-changing opportunity for students, preparing them to be leaders in their fields and communities. Students benefit from strong academic programs, as well as unique opportunities to study public policy and pursue careers in public service in California’s capital city. High-quality teaching in small classes is a top priority. In addition, Sacramento State students can enhance their career preparation through extensive cooperative education, internship, and service-learning programs.

6001 J Street, Sacramento, CA 95819
Dr. Alexander Gonzalez, President
(916) 278-6011 • www.csus.edu
This campus is on the semester system.

CALIFORNIA STATE UNIVERSITY, SAN BERNARDINO (1960)

Cal State San Bernardino, at the foot of the San Bernardino Mountains, was named by students as the most beautiful campus in the CSU system. Serving the Inland Empire region, its nationally accredited College of Business and Public Administration offers an M.B.A., tailored for executives. In addition, the university has a nationally acclaimed writing program and highly respected offerings in computer science, geographic information and decision sciences, psychology, public health administration, and accounting and finance. The university has a leading state-accredited teacher preparation program that is one of the nation’s largest. Courses are also offered at off-campus locations, including a permanent satellite campus in Palm Desert.

5500 University Parkway, San Bernardino, CA 92407-2397
Dr. Tomás D. Morales, President
(909) 537-5000 • www.csusb.edu
This campus is on the quarter system.

SAN DIEGO STATE UNIVERSITY (1897)

San Diego State University is the oldest and largest higher education institution in the San Diego region. Since it was founded in 1897, the university has grown to offer bachelor’s degrees in 80 areas, master’s degrees in 76, and doctorates in 21 disciplines. SDSU’s 31,800 students participate in an academic curriculum distinguished by direct contact with faculty and an increasing international emphasis that prepares them for a global future. SDSU is designated by the Carnegie Foundation as a research university with high research activity and is ranked among the top 150 public universities in research support, with $145 million in 2010-11. For more information, visit www.sdsu.edu.

5500 Campanile Drive, San Diego, CA 92182
Dr. Elliot Hirshman President
(619) 594-5200 • www.sdsu.edu
This campus is on the semester system.
SAN FRANCISCO STATE UNIVERSITY (1899)
San Francisco State University, located in one of the world’s most vibrant and beautiful cities, is a recognized leader in addressing issues both global and regional. With a diverse range of students from almost every state and nearly 100 countries, the University community is a perfect setting for learning to succeed in a pluralistic society and global economy. The programs of study at SF State also address regional needs for advanced-level professionals in fields such as business, cinema, science, health sciences, social services and education. In addition to its 115 undergraduate programs, 65 master’s degree programs, and 11 credential programs, SF State offers three joint doctoral programs with the University of California and an independent Ed.D., in Educational Leadership. SF State’s pioneering commitment to community and civic engagement is prevalent throughout the curriculum. The University has been named by Princeton Review as one of 81 “Colleges with a Conscience,” and is classified as one of the Carnegie Foundation’s “Community Engagement” institutions.

1600 Holloway Avenue, San Francisco, CA 94132
Dr. Leslie E. Wong, President
(415) 358-1111 • www.sfsu.edu

This campus is on the semester system.

SAN JOSE STATE UNIVERSITY (1857)
San José State University (SJSU) is a metropolitan university offering more than 134 bachelor’s and master’s degrees with 110 concentrations. Quality teaching and small classes are a priority at SJSU, where tenured professors teach introductory as well as advanced courses. One of the 200 top research universities in the nation, SJSU offers rigorous course work and research opportunities to more than 30,000 undergraduate and graduate students in seven colleges. SJSU is in a fabulous location—in the heart of a dynamic city and in the world marketplace of Silicon Valley. Area firms and agencies regularly seek SJSU students for internships, summer work programs, and assistance with research projects. SJSU sends 6,000 well prepared graduates into this region every year, more than any other Bay Area school.

One Washington Square, San José, CA 95192-0001
Dr. Mohammed Qayoumi, President
(408) 924-1000 • www.sjsu.edu

This campus is on the semester system.

CALIFORNIA POLYTECHNIC STATE UNIVERSITY, SAN LUIS OBISPO (1901)
Cal Poly San Luis Obispo is recognized by peer institutions and by U.S. News & World Report as one of the nation’s finest public, primarily undergraduate institutions. The university is particularly well known for its outstanding programs in engineering, architecture, and agriculture. With over 6,000 acres, the campus is one of the largest in the nation and accommodates a working vineyard among other agricultural operations. With the recent completion of Poly Canyon Village, a spectacular sustainable living environment with a host of amenities, the primarily residential campus houses more than 5,500 students. Cal Poly’s “learn-by-doing” philosophy permeates teaching, learning, and living as a campus community. Over 100,000 alumni and students have benefited from the Cal Poly advantage and have contributed to the state’s and the nation’s intellectual and economic engines. Among its prominent alumni are Robert “Hoot” Gibson, five-time NASA astronaut, and Al Smith, founder of the Orchard Supply Hardware chains.

One Grand Avenue, San Luis Obispo, CA 93407
Dr. Jeffrey D. Armstrong, President
(805) 756-1111 • www.calpoly.edu

This campus is on the quarter system.

CALIFORNIA STATE UNIVERSITY, SAN MARCOS (1989)
Celebrating two decades of service, CSUSM is a pioneer in providing broad access to quality instruction and a trail-blazer in hands-on education relevant to today’s global and technology-rich society. The University is nationally recognized as a model of public accountability, institutional innovation and community engagement. CSUSM builds regional alliances that foster economic, social, and cultural development while inspiring student excellence and supporting faculty engagement in cutting-edge research and creative activities. At CSUSM, students graduate prepared to be tomorrow’s leaders and equipped to solve critical 21st century problems.

335 S. Twin Oaks Valley Road, San Marcos, CA 92096-0001
Dr. Karen Haynes, President
(760) 759-4000 • www.csusm.edu

This campus is on the semester system.

SONOMA STATE UNIVERSITY (1960)
Sonoma State University, founded as a teacher education center for the North Bay, is now a liberal arts and sciences university that provides high-quality undergraduate education and selected professional graduate programs. Dedicated to the liberal arts and sciences and known for its active use of technology, the Sonoma State educational experience fosters intellectual, cognitive, social, and personal growth. The university’s faculty and staff provide close mentoring relationships and an education that fosters ethical exploration, civic engagement, social responsibility, and global awareness combined with a solid foundation in an academic discipline.

1801 East Cotati Avenue, Rohnert Park, CA 94928-3609
Dr. Ruben Armitaiana, President
(707) 664-2880 • www.sonoma.edu

This campus is on the semester system.

CALIFORNIA STATE UNIVERSITY, STANISLAUS (1957)
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