4th Annual
Student Research and Creative Activity Fair

All events will take place on the 2nd floor of the Milo Bail Student Center.

This event was made possible with support from the Office of Research and Creative Activity and the Office of Academic and Student Affairs.
WELCOME

As a student-centered university, the University of Nebraska at Omaha provides diverse opportunities for students to become engaged scholars through research and creative activity. The 4th annual Student Research and Creative Activity Fair will introduce you to our dynamic undergraduate and graduate students. We hope you will enjoy the day-long showcase of their research and creative activity as oral presentations, performances, poster presentations, and exhibits.

Thank you to the faculty advisors for encouraging their students and sharing their time and expertise. They are numerous and represent all six of UNO’s colleges, as well as UNL’s College of Engineering.

We appreciate the willingness and time of those serving as judges for this event, our community colleagues and friends: Rhonda Ahrens, Physicians Mutual; John Buckley, Omaha Public Power District; John Falconer, University of Nebraska at Kearney; Marian Fey, Omaha Public Schools Board of Education; Julie Griffin, ConAgra Foods; Matt Hammons, University of Nebraska; Brian Henkel, Papio-Missouri River Natural Resources District; Barbara Jessing, Heartland Family Service; Jim Kueffner; Todd Morris, PayPal; Tom Nimps; Danny Pate, CenturyLink; Wendy Patterson, The Salvation Army; John Prouty; John Rogers; Marty Skomal, Nebraska Arts Council; Bill Snyder, Peru State College; and Lisa St. Clair, University of Nebraska Medical Center.

Enjoy your time on campus today. Thank you for your support of student research and creative activity at UNO.

Sincerely,

Scott D. Snyder, Ph.D.
Associate Vice Chancellor for Research and Creative Activity
<table>
<thead>
<tr>
<th>TIME</th>
<th>ACTIVITY</th>
<th>LOCATION</th>
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</thead>
<tbody>
<tr>
<td>8:00 AM - 9:00 AM</td>
<td>Check in for Fair Participants; Continental Breakfast</td>
<td>Ballroom</td>
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<tr>
<td>9:00 AM - 11:30 AM</td>
<td>Poster Presentations/Exhibits</td>
<td>Ballroom</td>
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<tr>
<td></td>
<td>Undergraduate Oral Presentations/Performances</td>
<td>Chancellor's Room</td>
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<td>Graduate Oral Presentations/Performances</td>
<td>Nebraska Room, Aksarben Room</td>
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<tr>
<td>11:30 AM - 12:45 PM</td>
<td>Lunch Provided for All Student Participants, Faculty Advisors, and Judges</td>
<td>Ballroom</td>
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<tr>
<td>1:00 PM - 4:30 PM</td>
<td>Poster Presentations/Exhibits</td>
<td>Ballroom</td>
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<td>Undergraduate Oral Presentations/Performances</td>
<td>Chancellor's Room, Aksarben Room</td>
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<td>Graduate Oral Presentations/Performances</td>
<td>Nebraska Room</td>
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<tr>
<td>4:30 PM - 5:00 PM</td>
<td>Reception and Viewing of Posters</td>
<td>Ballroom</td>
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<tr>
<td>4:30 PM - 5:30 PM</td>
<td>Judges' Forum</td>
<td>Chancellor's Room</td>
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<tr>
<td>4:45 PM</td>
<td>Presentation by Adam Smith, UNO Alum</td>
<td>Nebraska Room</td>
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<td>5:45 PM</td>
<td>Awards Ceremony and Closing Reception</td>
<td>Nebraska Room, Ballroom</td>
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<tr>
<td>Time</td>
<td>Name</td>
<td>Major</td>
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<tr>
<td>9:00 AM</td>
<td>Jacob Anderson</td>
<td>Undergraduate Terrestrial Vertebrate Trackways of the Early Jurassic Nugget Formation at Dinosaur National Monument</td>
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<td></td>
<td></td>
<td>Major: Geology Faculty advisor: George Engelmann Co-Author(s): Keegan M. Melstrom and Joanna M. Panosky</td>
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<tr>
<td>9:10 AM</td>
<td>Laura Espejel</td>
<td>Undergraduate Generating Stably Overexpressing Cells to Evaluate Gene Product Involvement During Toxoplasma gondii Infection and Growth Major: Biology-Unclassified Faculty advisor: Paul Davis</td>
</tr>
<tr>
<td>9:20 AM</td>
<td>Brent Kelderman</td>
<td>Undergraduate Investigation of capstone course curriculum for secondary mathematics education majors Major: Teacher Education Faculty advisor: Michael Matthews</td>
</tr>
<tr>
<td>9:30 AM</td>
<td>Kimberly Morss</td>
<td>Undergraduate The Lead Around our Homes: Distinguishing between sources of anomalous lead concentrations in an urban setting (Omaha, NE) via distribution of lead and lead isotopes Major: Environmental Sciences Faculty advisor: Dana Richter-Egger</td>
</tr>
<tr>
<td>9:40 AM</td>
<td>Deibi Sibrian</td>
<td>Undergraduate Aspiring to Higher Omaha, NE High School Graduation Rates Major: Sociology-Unclassified Faculty advisor: Thomas Sanchez</td>
</tr>
</tbody>
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**BREAK**
10:00 AM  ERIKA CRAWFORD  
Undergraduate  
Purification of Plasmid DNA Containing the Coxsackievirus Genomic 5' Non Translated Region  
Major: Biotechnology  
Faculty advisor: William Tapprich

10:10 AM  BENJAMIN FLOYD  
Undergraduate  
Ground and First Excited States of a Cross Intersection Quantum Dot: Variational Method  
Major: Physics  
Faculty advisor: Wai-Ning Mei

10:20 AM  LINDSEY KNIGHT  
Undergraduate  
Is direct ingestion of contaminated sediment an important route by which fish are exposed to steroidogenic compounds?  
Major: Biotechnology  
Faculty advisor: Alan Kolok

10:30 AM  DAVID VANOSDALL  
Undergraduate  
Design and Develop a GIS database to consolidate field observations of the Lower Jurassic Nugget sandstone  
Major: Geology  
Faculty advisor: George Engelmann

BREAK

10:50 AM  ABBY GARDNER  
Undergraduate  
The Impact of Internal vs. External Locus of Control on Occupational Safety  
Major: Industrial-Organizational Psyc  
Faculty advisor: Lisa Scherer
11:00 AM  JULIA WARNKE  
Undergraduate  
Customized Assembly of Short Read Sequences: Using Dataset Characteristics, Graph Theoretic Properties, and Domain Specific Information to Improve the Assembly Process  
Major: Bioinformatics  
Faculty advisor: Hesham Ali

1:00 PM  MICHELLE BECKER  
Undergraduate  
Role of Chaperones in Type Three Secretion System in Psuedomonas aeruginosa  
Major: Biology-Unclassified  
Faculty advisor: Donald Rowen

1:10 PM  KEVIN KAWA  
Undergraduate  
Measuring the Methanol Concentration in Biodiesel Using Near-Infrared Spectroscopy  
Major: Chemistry-Unclassified  
Faculty advisor: Alan Gift

1:20 PM  BENJAMIN KNUTSON  
Undergraduate  
Relation of Shape Equations (ROSE) Analysis  
Major: Physics  
Faculty advisor: Renat Sabirianov

1:30 PM  MOR SHEINBEIN  
Undergraduate  
Identifying and Analyzing Lesbian and Female Stereotypes in Terry Moore’s Graphic Novel Strangers in Paradise  
Major: English-Unclassified  
Faculty advisor: Frank Bramlett
<table>
<thead>
<tr>
<th>Time</th>
<th>Name</th>
<th>Undergraduate</th>
<th>Title</th>
<th>Major</th>
<th>Faculty advisor</th>
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<tbody>
<tr>
<td>1:40 PM</td>
<td>HOLLY WILSON</td>
<td>Undergraduate</td>
<td>The Linkage Of Black Feminine Agency Through Musical Expression</td>
<td>English/Creative Non-Fiction</td>
<td>Peggy Jones</td>
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<td>2:00 PM</td>
<td>SARA BEHRENS</td>
<td>Undergraduate</td>
<td>Absurdity and Romance</td>
<td>Philosophy</td>
<td>Patrice Proulx</td>
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<tr>
<td>2:10 PM</td>
<td>SCARLET HEIM</td>
<td>Undergraduate</td>
<td>In Vitro Analysis of Tooth Erosion Caused by Soft Drinks and Other Beverages Using Thin Sectioning Techniques to Examine Internal Tooth Anatomy</td>
<td>Biology-Unclassified</td>
<td>Karen Murch-Shafer</td>
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<td>2:20 PM</td>
<td>ROBERT KOPP</td>
<td>Undergraduate</td>
<td>The United States' Increasing Vulnerability to Cyberterrorism and the Necessity of Preparing Immediate Countermeasures</td>
<td>Political Science</td>
<td>Jonathan Benjamin-Alvarado</td>
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<td>2:30 PM</td>
<td>ANDREW PRINE</td>
<td>Undergraduate</td>
<td>How Frustration Correlates with Perceived Reward Value</td>
<td>Psych-Unclassified</td>
<td>Jessiline Anderson</td>
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<td>Faculty advisor</td>
<td>Co-Authors</td>
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<td>3:00 PM</td>
<td><strong>MOLLY BYSTREK</strong></td>
<td>Undergraduate</td>
<td>Here comes trouble -- and he hasn't slept in days</td>
<td>Lisa Scherer</td>
<td>Lisa Scherer</td>
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<tr>
<td>3:10 PM</td>
<td><strong>JUSTIN BARNES</strong></td>
<td>Undergraduate</td>
<td>Effects of Caffeine on Aggression: A Review of the Research and the Future Directions</td>
<td>Lisa Scherer</td>
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<tr>
<td>3:20 PM</td>
<td><strong>CLAY LANE</strong></td>
<td>Undergraduate</td>
<td>The How to on Making an Effective Apology</td>
<td>Lisa Scherer</td>
<td>Lisa Scherer, Eric Faurote</td>
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<tr>
<td>3:40 PM</td>
<td><strong>MATTHEW CHRISTENSON</strong></td>
<td>Undergraduate</td>
<td>Nebraskan's farmland amphibian springs from river bank to GenBank</td>
<td>Paul Davis</td>
<td>Paul H. Davis, Alan S. Kolok, Andrew J. Trease, Steven V. Ready, Lindsey Knight</td>
</tr>
<tr>
<td>3:50 PM</td>
<td><strong>JACOB HETTENBAUGH</strong></td>
<td>Undergraduate</td>
<td>Transformation of Pharmaceutical Drugs in the Presence of Water: Effect of Polymer Additives</td>
<td>Alan Gift</td>
<td></td>
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</tbody>
</table>
4:00 PM  ANKIT AGRAWAL
Undergraduate
Pediatric Visceral Solid Organ Transplant: Is it Possible to Measure Hemoglobin Levels Without Drawing Labs?
Major: Biotechnology
Faculty advisor: Myrna C. Newland

4:20 PM  DAVID GROTHEN
Undergraduate
Bradyzoite Reporter for Toxoplasma gondii
Major: Biology-Unclassified
Faculty advisor: Paul Davis

4:30 PM  JUDGES’ FORUM
<table>
<thead>
<tr>
<th>Time</th>
<th>Name</th>
<th>Study Level</th>
<th>Title</th>
<th>Major</th>
<th>Faculty Advisor</th>
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</thead>
<tbody>
<tr>
<td>9:00 AM</td>
<td>MATTHEW BATTEY</td>
<td>Graduate</td>
<td>Quasi Group Block Ciphers</td>
<td>Computer Science-Unclassified</td>
<td>Abhishek Parakh</td>
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<tr>
<td>9:10 AM</td>
<td>VINOD GODAVARTY</td>
<td>Graduate</td>
<td>Using Quasigroups for Generating Pseudorandom Numbers</td>
<td>Management Info Systems</td>
<td>Abhishek Parakh</td>
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<tr>
<td>9:20 AM</td>
<td>PAMM KILLEEN</td>
<td>Graduate</td>
<td>I Want to Rock your World: Becoming an Authentic College Instructor...</td>
<td>Communication-Unclassified</td>
<td>Chin Chung Chao</td>
</tr>
<tr>
<td>9:30 AM</td>
<td>PRIYANWADA KULKARNI</td>
<td>Graduate</td>
<td>Gene Knockouts Designed to Disrupt the Bradyzoite Stage Formation in Toxoplasma gondii</td>
<td>Biology-Unclassified</td>
<td>Paul Davis</td>
</tr>
<tr>
<td>9:40 AM</td>
<td>MELISSA MOUNT</td>
<td>Graduate</td>
<td>Effects of urbanization on the species richness and abundance of native grassland birds</td>
<td>Biology-Unclassified</td>
<td>LaReesa Wolfenbarger</td>
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<tr>
<th>Time</th>
<th>Name</th>
<th>Degree</th>
<th>Title</th>
<th>Major</th>
<th>Faculty Advisor</th>
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<tbody>
<tr>
<td>10:00 AM</td>
<td>Naresh Kumar Chinni</td>
<td>Masters</td>
<td>Analysis of Very Large Networks Using Graphics Processing Units</td>
<td>Computer Science</td>
<td>Sanjukta Bhowmick</td>
</tr>
<tr>
<td>10:10 AM</td>
<td>Jennifer Goedell</td>
<td>Masters</td>
<td>Guarding the Public Interest in the 21st Century: A Decade of Federal Communications Commission Forfeitures</td>
<td>Communication-Unclassified</td>
<td>Randall Rose</td>
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<td>10:20 AM</td>
<td>John McWilliams</td>
<td>Masters</td>
<td>&quot;She'll Turn into a Maneater&quot;: Language and Power in Axe Shower Gel Packaging</td>
<td>English-Unclassified</td>
<td>Frank Bramlett</td>
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<tr>
<td>10:30 AM</td>
<td>Michael Meduna</td>
<td>Masters</td>
<td>Teacher Salary and Student Achievement: A Study of Nebraska's Metropolitan Areas</td>
<td>Econ-Unclassified</td>
<td>Catherine Co</td>
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<tr>
<td>10:50 AM</td>
<td>Safiatou Diallo</td>
<td>Masters</td>
<td>Food Security in Developing Countries</td>
<td>Economics</td>
<td>Catherine Co</td>
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<tr>
<td>Time</td>
<td>Speaker</td>
<td>Title</td>
<td>Major</td>
<td>Faculty advisor</td>
<td>Co-Author(s)</td>
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<td>11:00 AM</td>
<td>DANIEL HARRIS</td>
<td>The Relationship between Emotional Intelligence and Malevolent Creativity in Response to Different Tasks</td>
<td>Industrial-Organizational Psyc</td>
<td>Roni Reiter-Palmon</td>
<td>Roni Reiter-Palmon</td>
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<td>11:10 AM</td>
<td>ALICIA PHILLIPS BUTTNER</td>
<td>The effect of stress on social cognitive performance in shelter dogs</td>
<td>Psych-Unclassified</td>
<td>Rosemary Strasser</td>
<td>Rosemary Strasser</td>
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<td>LUNCH PROVIDED IN BALLROOM</td>
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<td>1:00 PM</td>
<td>ERIC CLARK</td>
<td>Monte Carlo modeling of nanomaterials for magnetic refrigeration</td>
<td>Physics-Unclassified</td>
<td>Renat Sabirianov</td>
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<tr>
<td>1:10 PM</td>
<td>LAURA HUGHES</td>
<td>The Success of Native American College Students at the University of Nebraska at Omaha</td>
<td>Anthropology</td>
<td>Timi Barone</td>
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<tr>
<td>1:20 PM</td>
<td>JOSHUA LARSON</td>
<td>A Novel Compound is Efficient in Killing Toxoplasma gondii in vitro</td>
<td>Biotechnology</td>
<td>Paul Davis</td>
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</table>
| 1:30 PM| SARA SHINN      | Undergraduate  
Optimal Values for Disrupting x86-64  
Reverse Assemblers  
Major: Computer Engineering  
Faculty advisor: William Mahoney |
| 1:40 PM| PHILLIP SMITH   | Undergraduate  
it may not always be so: A Presentation of New Music  
Major: Music  
Faculty advisor: Kenton Bales |
| 2:00 PM| ALYSHA COLLINS  | Undergraduate  
Displaced Aggression: Victim Characteristics of  
Dysfunctional Work-Family Spillover  
Major: Psych-Unclassified  
Faculty advisor: Lisa Scherer  
Co-Author(s): Lisa Scherer |
| 2:10 PM| ANDREW JEZEWSKI | Undergraduate  
Discovering the Mechanism of Action for the Novel  
Drug Compound, KG2, Against the Parasite  
Toxoplasma gondii  
Major: Biotechnology  
Faculty advisor: Paul Davis |
| 2:20 PM| AMANDA LUDES    | Undergraduate  
Design of insulating nanocrystalline materials with  
enhanced electrostatic affinity to proteins  
Major: Physics  
Faculty advisor: Renat Sabirianov |
<table>
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<tr>
<th>Time</th>
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<th>Author</th>
<th>Major</th>
<th>Faculty advisor</th>
<th>Co-Author(s)</th>
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<tr>
<td>2:30 PM</td>
<td>STEPHANIE WEDDINGTON</td>
<td>Undergraduate</td>
<td>Self-Control Training and Other Antecedents of Impulsive Aggression</td>
<td>Lisa Scherer</td>
<td>Lisa L. Scherer</td>
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<td>Major: Psych-Unclassified</td>
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<td>Faculty advisor: Lisa Scherer</td>
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<td>Co-Author(s): Lisa L. Scherer</td>
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<td>3:00 PM</td>
<td>SUSHRUT KAMERKAR</td>
<td>Undergraduate</td>
<td>Investigation of the putative DNA motif involved in bradyzoite transition initiation in Toxoplasma gondii</td>
<td>Paul Davis</td>
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<td>Major: Biology-Unclassified</td>
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<td>Faculty advisor: Paul Davis</td>
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<td>3:10 PM</td>
<td>NATALIE MCCLELLAN</td>
<td>Undergraduate</td>
<td>Cultural Adaptation through Foodways: South Sudanese in the Omaha Area</td>
<td>Timi Barone</td>
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<td>Faculty advisor: Timi Barone</td>
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<td>3:20 PM</td>
<td>JEROME PRUSA</td>
<td>Undergraduate</td>
<td>Structural Comparison of the Coxsackie Virus B3 Virulence Determining 5' Non-Translated Region</td>
<td>William Tapprich</td>
<td>William E. Tapprich</td>
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<td>Major: Biotechnology</td>
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<td>Co-Author(s): William E. Tapprich</td>
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<td>3:40 PM</td>
<td>CHIA MOUA</td>
<td>Undergraduate</td>
<td>Elastic Properties of Rare Earth Hexaboride Nanostructures</td>
<td>Wai-Ning Mei</td>
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<td>Major: Physics</td>
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<td>Faculty advisor: Wai-Ning Mei</td>
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<td>5:45 PM</td>
<td>AWARDS CEREMONY AND CLOSING RECEPTION</td>
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<td>Faculty advisor</td>
<td>Co-Authors</td>
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<td>9:00 AM</td>
<td>NICHOLAS ARREOLA</td>
<td>The Effect of Emergent Leader Extraversion and Problem Construction on Creative Problem Solving</td>
<td>Industrial-Organizational Psyc</td>
<td>Roni Reiter-Palmon</td>
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<tr>
<td>9:10 AM</td>
<td>CAN CHEN</td>
<td>Educating Citizens about Budgeting: A Qualitative Content Analysis of Web-based Citizens' Guides to the Budget in local Governments in the U.S.</td>
<td>Public Management</td>
<td>John Bartle</td>
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<tr>
<td>9:20 AM</td>
<td>ERIC FAUROTE</td>
<td>I would be healthy...but who has time?</td>
<td>Industrial-Organizational Psyc</td>
<td>Lisa Scherer</td>
<td>Lisa Scherer</td>
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<tr>
<td>9:30 AM</td>
<td>MARIAM RAHMANI</td>
<td>SRN-based Performance Analysis of a Banking Web Service</td>
<td>Information Technology</td>
<td>Azad Azadmanesh</td>
<td>Azad Azadmanesh, Harvey Siy</td>
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<td>9:40 AM</td>
<td>ABHISHEK TRIPATHI</td>
<td>Factors affecting the adoption of technology to lead to participation in Crowdsourcing</td>
<td>Information Technology</td>
<td>Lotfollah Najjar</td>
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| 10:00 AM | OLIVER BONHAM-CARTER  
Graduate: Doctoral  
An analysis of palindromic content in the intergenic and non-intergenic regions of selected bacteria  
Major: Bioinformatics  
Faculty advisor: Dhundy Bastola  
Co-Author(s): Dhundy Bastola, Lotfollah Najjar, and Ishwor Thapa |                                                                          |
| 10:10 AM | KATHRYN DEMPSEY  
Graduate: Doctoral  
Discovering Mechanisms of Aging and Disease using Heterogeneous Integrated Network Models  
Major: Bioinformatics  
Faculty advisor: Hesham Ali  
Co-Author(s): Hesham Ali |                                                                          |
| 10:30 AM | ERICA PLACHTER  
Graduate: Masters  
Effects of Testosterone on Social Learning in Zebra Finch, Taeniopygia guttata  
Major: Psych-Unclassified  
Faculty advisor: Rosemary Strasser |                                                                          |
|          | BREAK                                                           |                                                                          |
| 10:50 AM | ANDREA DRYDEN  
Graduate: Masters  
The Effect of Teacher Wait-time on Student Responses in the Second Language Classroom  
Major: Teaching Languages  
Faculty advisor: Frank Bramlett |                                                                          |
11:00 AM  KATHERINE HECKENBACH
Graduate: Masters
The Effects of Breathing Control on Cardiopulmonary and Subjective Measures on Collegiate Intermediate to Advanced Female Modern Dancers
Major: Athletic Training
Faculty advisor: Melanie McGrath
Co-Author(s): Kris Berg, Neal Grandgenett, and Josie Metal-Corbin

11:10 AM  RHONDA (RJ) REDDEN
Graduate: Masters
Agile Training: An Innovative Educational Process for Information Technology Educators
Major: Management Info Systems
Faculty advisor: Peter Wolcott

LUNCH  PROVIDED IN BALLROOM

1:00 PM  ZACH JACOBS
Graduate: Masters
Gulliver and the Giant King: Swift's 'History of England' and Anglo-Saxon Nostalgia in Brobdingnag
Major: English
Faculty advisor: Kristin Girten

1:10 PM  SRIRAM SRINIVASAN
Graduate: Masters
An Efficient Algorithm To Trace Change in Communities in Evolving Networks
Major: Computer Science-Unclassified
Faculty advisor: Sanjukta Bhowmick
Co-Author(s): Sanjukta Bhowmick

1:20 PM  SCOTT WIKE
Graduate: Masters
Invoking the Past to Justify the Future: The Tea Party Movement and the American Jeremiad
Major: Communication-Unclassified
Faculty advisor: Barbara Pickering
Adam Smith is currently a doctoral student in the Department of Psychology and Program in Neuroscience at Florida State University (FSU), with an anticipated graduation date of May 2013. Adam holds a Master of Arts from the University of Nebraska at Omaha (UNO) in Psychobiology, which he received in 2009. He also graduated Magna Cum Laude with a Bachelor of Science from UNO with a major in Psychology and a minor in Chemistry in 2007.

His interest in research began during his undergraduate studies at UNO when he met Dr. Jeffrey French, Professor of Psychology and Biology. His work involved evaluating different features of adult social bonds in humans and a monogamous primate, the marmoset monkey, including behavioral and physiological mechanisms associated with the maintenance of these relationships. Dr. French provided opportunities for his undergraduate students to work directly with the marmosets, an experience that Adam had not anticipated when he began at UNO as a Goodrich Scholar. Adam received training in behavioral observations and immunoassays while assisting graduate students in the conduct of their experiments.

Eventually, Dr. French gave him the opportunity to conduct his own research projects and offered him a part-time laboratory technician position. He decided to continue working with Dr. French during his master's training, focusing on the neuroendocrine effects of oxytocin, a prosocial hormone, and stress on adult social bonds in marmoset monkeys. Currently, as a doctoral student at FSU, Adam studies the beneficial effects of support from a social partner following stressful events in a monogamous rodent species, the prairie vole. His research goal is to better understand the neuroendocrine mechanisms that regulate the social buffering of the stress response.
Adam has received extensive external funding in his academic career, including the prestigious NIH Predoctoral Ruth L. Kirschstein National Research Service Award (Principal Investigator, 2011-2013), as well as the National Science Foundation’s Graduate Research Fellowship (2008-2011). Adam’s other funding includes grants from the American Psychological Foundation/Council of Graduate Departments of Psychology and American Society of Primatologists, as well as institutional grants from the Congress of Graduate Students at FSU and the University Committee on Research and Creative Activity (UCRCA) at UNO. In addition, he has presented at ten scientific conferences and three university research fairs, including the inaugural Student Research and Creative Activity Fair at UNO in 2009, and published nine research articles, with five additional either in review or in preparation.

In addition to his research, Adam, a husband and father of three, engages in activities to promote science education and neuroscience research throughout his local community and beyond. Adam is a member and the coordinator of the FSU Brain Awareness Program, which promotes education of the brain and neuroscience through outreach events and classroom presentations for K-12 students in Tallahassee, FL (educating 1,500 K-12 students in the 2010-2011 academic year). He is also serving as a member of the American Society of Primatologists Education Committee, which promotes education of the sciences and knowledge of primatology through hosting outreach events for K-12 students throughout the United States.
<table>
<thead>
<tr>
<th>Time</th>
<th>Name</th>
<th>Degree</th>
<th>Title</th>
<th>Major</th>
<th>Faculty Advisor</th>
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<tr>
<td>9–11:30 AM</td>
<td>KAYLETA ADAMS</td>
<td>Graduate: Masters</td>
<td>Helping Early Literacy Practice Strategies (HELPS): Primary vs. Intermediate Grade Level Implementation</td>
<td>School Psychology-Unclassified</td>
<td>Lisa Kelly-Vance</td>
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<td>ANKIT AGRAWAL</td>
<td>Undergraduate</td>
<td>Nasotracheal intubation in a Difficult Airway using the Storz C-MAC laryngoscope, Boedeker Bougie Endotracheal Introducer, and Boedeker curved forceps</td>
<td>Biotechnology</td>
<td>Myrna C. Newland</td>
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<td>ALYCIA AHRENS</td>
<td>Graduate: Masters</td>
<td>I Don't Want to Play: A Longitudinal Examination of Asocial Withdrawal</td>
<td>Psych-Unclassified</td>
<td>Jonathan Santo</td>
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<td></td>
<td>JASJIT BANWAIT</td>
<td>Graduate: Doctoral</td>
<td>Effect of co-localization of miRNAs and target genes on miRNA-mediated post-transcriptional regulation</td>
<td>Information Technology</td>
<td>Dhundy Bastola</td>
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<td>BENJAMIN BOWDER</td>
<td>Undergraduate</td>
<td>Perceived exertion (RPE) and oxygen consumption (VO2) during inclined treadmill walking in healthy young adults</td>
<td>Bioinformatics</td>
<td>Sara Myers</td>
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<td>Ka-Chun Siu</td>
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<td>9–11:30 AM</td>
<td>JULIE CONNER</td>
<td>Graduate</td>
<td>A Fifth Grade Reading Fluency Intervention</td>
<td>Psych-Unclassified</td>
<td>Lisa Kelly-Vance</td>
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<td>ERIC CUTLER</td>
<td>Graduate</td>
<td>Differences in Gait Improvements Following Surgery in Slow and Fast PAD Patients</td>
<td>Exercise Science</td>
<td>Nick Stergiou</td>
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<td>LORA FRECKS</td>
<td>Graduate</td>
<td>Microenterprise Collaboration Communities</td>
<td>Public Admin-Unclassified</td>
<td>Jay White</td>
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<td>EMILIANO GRASSI</td>
<td>Undergraduate</td>
<td>Predictors of Emergent Leadership and Leader Effects on the Team Performance</td>
<td>Psych- Unclassified</td>
<td>Roni Reiter-Palmon</td>
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<td>RYAN HASENKAMP</td>
<td>Undergraduate</td>
<td>Mechanical Efficiency During Gait is Altered by Multiple Sclerosis</td>
<td>Exercise Science</td>
<td>Sara Myers</td>
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</table>
9–11:30 AM  JOSHUA HAWORTH
Graduate: Doctoral
Evaluating concurrent development of cognitive and motor behavior in typical and delayed infants
Major: Exercise Science
Faculty advisor: Nick Stergiou
Co-Author(s): Elena Kokkoni, Regina Harbourne, and Nick Stergiou

9–11:30 AM  MATTHEW HEESCH
Graduate: Masters
Small Differences in Exercise Intensity May Impact Muscle Glycogen Without Concurrent Changes in Metabolic Gene Expression
Major: Exercise Science
Faculty advisor: Dustin Slivka
Co-Author(s): Dustin Slivka, Charles Dumke, John Cuddy, Walter Hailes, and Brent Ruby

9–11:30 AM  BRAD HULLSIEK
Graduate: Doctoral
Career Velocity and Challenging Work Experiences
Major: Psych-Unclassified
Faculty advisor: Roni Reiter-Palmon
Co-Author(s): Jeff Weekley and Roni Reiter-Palmon

9–11:30 AM  ERIKA JACOBSON
Graduate: Masters
A Policy of Vengeance: California's Three Strikes Law
Major: Social Work
Faculty advisor: Kerry Beldin

9–11:30 AM  VICTORIA KENNEL
Graduate: Masters
Teams and Creativity: Accuracy in Idea Evaluation and Selection
Major: Industrial-Organizational Psyc
Faculty advisor: Roni Reiter-Palmon
Co-Author(s): Roni Reiter-Palmon
<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
<th>Title</th>
<th>Major</th>
<th>Faculty advisor</th>
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<tr>
<td>9–11:30 AM</td>
<td>SARAH LEHN</td>
<td>Undergraduate Effects of Toxoplasma gondii growth in host cells over-expressing CYP17</td>
<td>Biotechnology</td>
<td>Paul Davis</td>
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<td>9–11:30 AM</td>
<td>DENISE MCGRATH</td>
<td>Post Doctoral Fellow The Effects of Auditory Stimulation on Gait Variability in Healthy Elderly</td>
<td>Exercise Science</td>
<td>Nick Stergiou</td>
<td>Nick Stergiou</td>
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<td>9–11:30 AM</td>
<td>KRISTIN MICEK</td>
<td>Graduate: Masters Chicken or the Egg, Academics or Behavior? What Comes First?</td>
<td>School Psychology-Unclassified</td>
<td>Lisa Kelly-Vance</td>
<td>Allison Nields and Lisa Kelly-Vance</td>
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9–11:30 AM  JAY NEWSTROM
Undergraduate
Improving the Accuracy of Measuring Microscopic Organisms Using Information Technology
Major: Innovatn&Entrepreneurship
Faculty advisor: Ann Fruhling
Co-Author(s): Greg Hoff and Ann Fruhling

9–11:30 AM  CUONG NGUYEN
Graduate: Doctoral
An Ontology for ActionCenter-oriented Collaboration Platforms
Major: Information Technology
Faculty advisor: GJ de Vreede
Co-Author(s): Azamat Mametjanov, Douglas Kjeldgaard, and Robert Briggs

9–11:30 AM  ALLISON NIELDSD
Graduate: Masters
Behavior Management: Helping Teachers Beyond Pre-Service Training
Major: School Psychology-Unclassified
Faculty advisor: Brian McKevitt
Co-Author(s): Kristin Micek

9–11:30 AM  KATIE NOVICKI
Graduate: Masters
Systematic Observation of Physical Activity in Afterschool Programs: Preliminary Findings from Movin' Afterschool Intervention
Major: Hlth Phys Ed & Rec-Unclassified
Faculty advisor: Jennifer Huberty
Co-Author(s): Michael Beets, Jennifer Huberty, and Aaron Beighle

9–11:30 AM  TAYLOR PIZINGER
Undergraduate
Idea Generation: Does generating multiple ideas lead to increased creativity?
Major: Psych-Unclassified
Faculty advisor: Roni Reiter-Palmon
Co-Author(s): Roni Reiter-Palmon and Nick Arreola
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<tr>
<th>Time</th>
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<tr>
<td>9–11:30 AM</td>
<td>CHRISTINE QUICK</td>
<td>Undergraduate</td>
<td>Affect and Experience of Work-Life Unfairness on Decision Making</td>
<td>Major: Industrial-Organizational Psyc</td>
<td>Lisa Scherer</td>
<td>Stephanie Weddington and Lisa Scherer</td>
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<td>9–11:30 AM</td>
<td>TROY RAND</td>
<td>Graduate: Masters</td>
<td>Frontal Joint Dynamics When Initiating Stair Ascent with and without Gait Speed</td>
<td>Major: Exercise Science</td>
<td>Sara Myers</td>
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<td>9–11:30 AM</td>
<td>CHRISTOPHER SAUTTER</td>
<td>Undergraduate</td>
<td>Fracture Orientation Analysis: The Central US</td>
<td>Major: Geology</td>
<td>Harmon Maher</td>
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<td>9–11:30 AM</td>
<td>ELIZABETH SILKNITTER</td>
<td>Undergraduate</td>
<td>Depression Rates Among Native American Youth at Walthill Public School</td>
<td>Major: Psych-Unclassified</td>
<td>Jessiline Anderson</td>
<td>Jessica Ishmael, Janelle Butler, and Juan Quevedo</td>
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<td>9–11:30 AM</td>
<td>DANIELLE SUPONCHICK</td>
<td>Undergraduate The Effects of Treadmill and Overground Running on Attentional Focus and Performance</td>
<td>Physical Ed-Exercise Science</td>
<td>John Noble</td>
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<td>1–4:30 PM</td>
<td>BRYAN ARNOLD</td>
<td>Undergraduate Non-linear measures are sensitive to the severity of Cerebral Palsy for sitting postural control</td>
<td>Neuroscience</td>
<td>Srikant Vallabhajosula</td>
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<td>ISMAEL BARAJAS</td>
<td>Undergraduate Plasticity in the Developing Taste System (GOLGI)</td>
<td>Neuroscience</td>
<td>Suzanne Sollars</td>
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<td>ADENA BARELA</td>
<td>Undergraduate Changes in Fish Community of Agate Fossil Beds from Introduced Species</td>
<td>Biology-Unclassified</td>
<td>Richard Stasiak</td>
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<td>Scott Flash, George Cunningham, Richard Stasiak, Andrea Wagner</td>
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<td>BEN BATES</td>
<td>Undergraduate Shrinkage Cracks and Subsequent Geometries</td>
<td>Geology</td>
<td>Harmon Maher</td>
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1–4:30 PM  SAMANTHA BAYER  
Graduate: Masters  
The Impact of Reading Interventions with Sudanese Children  
Major: School Psychology-Unclassified  
Faculty advisor: Lisa Kelly-Vance  
Co-Author(s): Madeleine Moody and Kristin Moody

1–4:30 PM  PETER BOKELMAN  
Undergraduate  
Application of X-Band Radar at General Aviation Airports  
Major: Aviation  
Faculty advisor: David Byers  
Co-Author(s): Matthew Pastor and Nghia Cao

1–4:30 PM  JOSEPH BORO  
Undergraduate  
Mineralogical Analysis of pottery shards from the Tall al-Umayri Region, Jordan  
Major: Geology  
Faculty advisor: Robert Shuster

1–4:30 PM  MADELINE BROCKETTE  
Undergraduate  
Suicide and Depression in Native American Culture  
Major: Psych-Unclassified  
Faculty advisor: Jessiline Anderson  
Co-Author(s): Lindsey Wittry, Evie Abts, and Annesha Mitra

1–4:30 PM  EMILY CALLISON  
Graduate: Masters  
Grunting in Tennis: The Effects on Energy Expenditure and Ball Velocity  
Major: Exercise Science  
Faculty advisor: Kris Berg
1–4:30 PM  **JON CAREY**  
Graduate: Masters  
Effectiveness of an Elastic Load-Based Exercise Program in Improving Balance in Healthy Individuals  
Major: Exercise Science  
Faculty advisor: Sara Myers  
Co-Author(s): Sara A. Myers

1–4:30 PM  **JUNG CHIEN**  
Graduate: Doctoral  
Sensory interaction under perturbations during locomotion in health individuals  
Major: Exercise Science  
Faculty advisor: Nick Stergiou  
Co-Author(s): Chun-Kai Huang, Mukul Mukherjee, Ka-Chun Siu, and Nick Stergiou

1–4:30 PM  **AUSTIN DAVIDSON**  
Undergraduate  
External Work is Increased Using Rocker Bottom Shoes  
Major: Biology-Unclassified  
Faculty advisor: Nick Stergiou  
Co-Author(s): Heather L. Henning, Shane R. Wurdeman, Neil B. Huben, and Nick Stergiou

1–4:30 PM  **KATHRYN DEMPSEY**  
Graduate: Doctoral  
Maintenance and discovery of genetic cohorts via chordal graph filtering in large-scale correlation networks  
Major: Bioinformatics  
Faculty advisor: Hesham Ali  
Co-Author(s): Kanimathi Duraisamy, Sanjukta Bhowmick, and Hesham Ali

1–4:30 PM  **BRANDON DENNEY**  
Undergraduate  
Alternative Wind Energy  
Major: Aviation  
Faculty advisor: David Byers
1–4:30 PM  KARI ECHTENKAMP
Undergraduate
Parental Care in Juvenile Gerbils: The Role of Central Stress Systems and Previous Experience
Major: Biology-Unclassified
Faculty advisor: Jeffrey French
Co-Author(s): Caitlynn Gillaspie, Matthew Kirby, and Andrew Castaneda

1–4:30 PM  LORA FRECKS
Graduate: Doctoral
Comparison of Communication Strategies Utilized by Public, Nonprofit and Corporate Entities
Major: Public Administration
Faculty advisor: Jay White

1–4:30 PM  AMANDA HAARBERG
Graduate: Masters
Association of staff behaviors and afterschool program features to physical activity: Findings from Movin' Afterschool
Major: Hlth Phys Ed & Rec-Unclassified
Faculty advisor: Jennifer Huberty
Co-Author(s): Scott Wissing, Jennifer Huberty, Michael Beets, and Aaron Beighle

1–4:30 PM  THERESA HALLIGAN
Undergraduate
The Relationship of Clastic Dikes in Northwestern Nebraska to those in Badlands National Park
Major: Geology
Faculty advisor: Robert Shuster
Co-Author(s): Ryan Korth, Harmon Maher, and Robert Shuster

1–4:30 PM  AMY HESTER
Undergraduate
Time-titration Experiments to Determine Incubation Time for the Production of Full-length RNA
Major: Biotechnology
Faculty advisor: William Tapprich
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<td>1–4:30 PM</td>
<td>NATE HUNT</td>
<td>Graduate: Masters</td>
<td>Evidence of Different Control Processes in the Maintenance of Standing and Sitting Posture</td>
<td>Exercise Science</td>
<td>Nick Stergiou</td>
<td>Fabien Cignetti and Nick Stergiou</td>
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<td>1–4:30 PM</td>
<td>WHITNEY KORGAN</td>
<td>Undergraduate</td>
<td>Reduced Vertical Displacement of Body's Center of Mass Coincides with Increased Metabolic Energy Expenditure</td>
<td>Neuroscience</td>
<td>Nick Stergiou</td>
<td>Shane Wurdeman</td>
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1–4:30 PM  **BETTINA LECHNER**  
Graduate: Masters  
Using IT to Enable Large-Scale Elkhorn Watershed Herbicide Testing  
Major: Management Info Systems  
Faculty advisor: Ann Fruhling  
Co-Author(s): G. Hoff, A. Fruhling, G. Ryskamp, and A. Kolok

1–4:30 PM  **BRITTNEY MEAYS**  
Undergraduate  
Tobacco Use in Methamphetamine Dependent Patients  
Major: Neuroscience  
Faculty advisor: Jamie Simpson  
Co-Author(s): Jamie L. Simpson, Stephanie Sinclair Kelley, James R. Meyer, Sangeeta Agrawal, Debra J. Romberger, and Kathleen M. Grant

1–4:30 PM  **MOLLY MIERAS**  
Graduate: Masters  
The Effects of a Reading Distraction on VO2 While Participating in a Self-Directed Bout of Submaximal Cycling  
Major: Exercise Science  
Faculty advisor: Kris Berg

1–4:30 PM  **CHRISTINE MORRISON**  
Undergraduate  
Dog therapy as a stress buffer in an induced stress event  
Major: Psych-Unclassified  
Faculty advisor: Rosemary Strasser  
Co-Author(s): Natasha Fields
1–4:30 PM  ELIZABETH MULKERRIN  
Graduate: Doctoral  
The Effect of a Zoo-Based Experiential Academic Science Program on High School Students' Math and Science Achievement and Perceptions of School Climate  
Major: Educational Admin  
Faculty advisor: John Hill

1–4:30 PM  ANDREA NAUGHTON  
Graduate: Masters  
How do pregnant women and women up to one year postpartum use the Internet for Health Behavior Information? A Descriptive Study  
Major: Public Health  
Faculty advisor: Jennifer Huberty  
Co-Author(s): Danae Wolcott and Jennifer Huberty

1–4:30 PM  SARAH NIENHUESER  
Graduate: Masters  
The Influence of Rater Expertise on Creativity Ratings  
Major: Psych-Unclassified  
Faculty advisor: Roni Reiter-Palmon  
Co-Author(s): Roni Reiter-Palmon, James Kaufman, John Baer, and David Cropley

1–4:30 PM  LUKE PFEIFFER  
Undergraduate  
Survey on Image Fusion Techniques When Applied to Microbiological Pictures  
Major: Computer Science-Unclassified  
Faculty advisor: Ann Fruhling  
Co-Author(s): Greg Hoff, Ann Fruhling, and Jay Newstrom

1–4:30 PM  PRAPUNJA POKHREL  
Graduate: Masters  
Leveraging IT to deliver telemental health services to rural Nebraskans  
Major: Management Info Systems  
Faculty advisor: Ann Fruhling
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<td>1–4:30 PM</td>
<td>JESSICA RENZ</td>
<td>Undergraduate</td>
<td>Adaptations in Joint Kinetics Over Consecutive Steps in Stair Negotiation</td>
<td>Exercise Science</td>
<td>Nick Stergiou</td>
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<td>1–4:30 PM</td>
<td>NICHOLE RUCKER</td>
<td>Undergraduate</td>
<td>Purification of Poly(rC)-binding protein 2 for Coxsackievirus B</td>
<td>Biotechnology</td>
<td>William Tapprich</td>
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<td>1–4:30 PM</td>
<td>BRIAN SCHUELE</td>
<td>Undergraduate</td>
<td>Evaluation of Biosand Filter Technology in Madagascar</td>
<td>Civil Engineering</td>
<td>Shannon Bartelt-Hunt</td>
</tr>
<tr>
<td>1–4:30 PM</td>
<td>AMY SCHWEID</td>
<td>Undergraduate</td>
<td>Split Decision</td>
<td>Theatre-Unclassified</td>
<td>Douglas Paterson</td>
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<tr>
<td>1–4:30 PM</td>
<td>COLLEEN SNOZA</td>
<td>Graduate: Masters</td>
<td>Comparison of Peak VO2 and Achievement of Peak VO2 Criteria during Three Modes of Exercise in Triathletes</td>
<td>Exercise Science</td>
<td>Kris Berg</td>
</tr>
<tr>
<td>Time</td>
<td>Name</td>
<td>Degree/Program</td>
<td>Title</td>
<td>Major</td>
<td>Faculty Advisor</td>
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<tr>
<td>1–4:30 PM</td>
<td>BROOKE SULLIVAN</td>
<td>Undergraduate</td>
<td>Structural Transitions Induced By Mutations in the 5'NTR of Coxsackievirus B3 Genomic RNA</td>
<td>Biotechnology</td>
<td>William Tapprich</td>
</tr>
<tr>
<td>1–4:30 PM</td>
<td>ALVIN TARRELL</td>
<td>Graduate: Doctoral</td>
<td>Reducing information overload via spatialization</td>
<td>Management Info Systems</td>
<td>Ann Fruhling</td>
</tr>
<tr>
<td>1–4:30 PM</td>
<td>BRIAN TIPTON</td>
<td>Undergraduate</td>
<td>Subterranean vs Subaerial Formation of Flared Slopes on Granite Terrain Vedauwoo State Park, WY</td>
<td>Geology</td>
<td>John F. Shroder, Jr.</td>
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<tr>
<td>1–4:30 PM</td>
<td>LEVI TODD</td>
<td>Undergraduate</td>
<td>Malleability of the Chorda Tympani Nerve Terminal Field in the Nucleus of the Solitary Tract Following Neonatal Nerve Transection</td>
<td>Neuroscience</td>
<td>Suzanne Sollars</td>
</tr>
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<td>1–4:30 PM</td>
<td>ALEXANDRIA TORRES</td>
<td>Graduate: Masters</td>
<td>Effects of a Policy-Level Intervention on Children's Pedometer-Determined Physical Activity</td>
<td>Hlth Phys Ed &amp; Rec-Unclassified</td>
<td>Jennifer Huberty</td>
</tr>
</tbody>
</table>
**BALLROOM**

1–4:30 PM  **SRIKANT VALLABHAJOSULA**  
Post Doctoral Fellow  
Impact of starting position on variability of neuromuscular control during stair negotiation  
Major: Physical Ed-Exercise Science  
Faculty advisor: Nick Stergiou  
Co-Author(s): Jennifer Yentes, Chi Wei Tan, Ka-Chun Siu, and Nick Stergiou

1–4:30 PM  **ABBY WEDDLE**  
Graduate: Masters  
Translating research to the community: A pilot study to determine if a community-based book club can increase physical activity among women  
Major: Hlth Phys Ed & Rec-Unclassified  
Faculty advisor: Jennifer Huberty  
Co-Author(s): Kate Rolfsmeyer, Diane Ehlers, and Jennifer Huberty

1–4:30 PM  **BEN WIGERT**  
Graduate: Doctoral  
You're not as creative as you think you are, but I admire your passion: The Influence of Creative Self-Perception, Self-Efficacy, and Task Realism on Creative Performance  
Major: Industrial-Organizational Psyc  
Faculty advisor: Roni Reiter-Palmon  
Co-Author(s): Diana Dobey, Victoria Kennel, and Roni Reiter-Palmon

1–4:30 PM  **SAMUEL WILKINS**  
Graduate: Masters  
The Relationship Between Sport Specialization in Baseball and Glenohumeral Internal and External Rotation Range of Motion and Functional Movement Screen Scores  
Major: Physical Ed-Exercise Science  
Faculty advisor: Melanie McGrath  
Co-Author(s): Melanie McGrath, Kris Berg, Jeffrey French, and Kody Moffatt
1–4:30 PM  SCOTT WISSING  
Graduate: Masters  
Association of staff behaviors and afterschool  
program features to physical activity: Findings from  
Movin' Afterschool  
Major: Hlth Phys Ed & Rec-Unclassified  
Faculty advisor: Jennifer Huberty

1–4:30 PM  SHANE WURDEMAN  
Graduate: Doctoral  
Direction of Gait Affects Attractor Divergence  
Major: Exercise Science  
Faculty advisor: Nick Stergiou  
Co-Author(s): Sara Myers, Neil Huben,  
and Nick Stergiou

1–4:30 PM  JIE XIONG  
Graduate: Doctoral  
Cross Country and State Level Analysis of  
e-Commerce Adoption Between Small Businesses in  
China and the United States  
Major: Information Technology  
Faculty advisor: Sajda Qureshi

1–4:30 PM  JENNIFER YENTES  
Graduate: Doctoral  
Gait in Patients with COPD is Mainly Affected in  
Proximal Musculature  
Major: Exercise Science  
Faculty advisor: Nick Stergiou

1–4:30 PM  XIAODAN YU  
Graduate: Doctoral  
Adaptive Use of IT Capabilities in Virtual Teams:  
Lessons from Google Site, Blackboard, and Email  
Major: Information Technology  
Faculty advisor: Deepak Khazanchi
1–4:30 PM  MENGYI ZHA
Undergraduate
Comparative Analysis of Phosphorylation in the Protein Data Bank: What have we known?
Major: Mathematics
Faculty advisor: Haizhen Zhong
Co-Author(s): Julia Warnke and Haizhen Zhong

4:30 PM  RECEPTION AND VIEWING OF POSTERS

5:45 PM  AWARDS CEREMONY AND CLOSING RECEPTION
Thank You

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   Paul Davis, Biology
   Griff Elder, Mathematics
   Lisa Scherer, Psychology
   Rosemary Strasser, Psychology

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   Christine Beard, Music

COLLEGE OF EDUCATION
   Neal Topp, Teacher Education

COLLEGE OF INFORMATION SCIENCE AND TECHNOLOGY
   Sanjukta Bhowmick, Computer Science

COLLEGE OF PUBLIC AFFAIRS AND COMMUNITY SERVICE
   Jeanette Harder, Social Work

STUDENTS
   Ryan Tefft, Geology (undergraduate)
   Jenna Yentes, HPER (graduate)

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   Scott Snyder, Associate Vice Chancellor
   Wendi Jensen, Coordinator
   Catie Miller, Graduate Assistant

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   Catherine Co, Economics
   Paul Davis, Biology
   Griff Elder, Mathematics
   Scott Glasser, Theater
   Jeanette Harder, Social Work
   Sara Myers, HPER
   Dana Richter-Egger, Chemistry and MSLC
   Karen Rolf, Social Work
   Mark Schoenbeck, Biology