At a Glance Program

8:00 – 9:00 AM  
ATRIUM  
Participant Check-In (students, moderators, evaluators)

**ORAL PRESENTATIONS**  
Presenters bring PowerPoint files on a flash drive to the corresponding room. Please test presentation on the computer to make sure it works.

**POSTER PRESENTATIONS**  
Presenters hang posters according to the number assigned in the program at 8:00-8:45. We will have pieces of Velcro® to hang posters. Posters are displayed during the entire forum. Presenters are responsible for taking down posters at 5:00 pm.

**UGRCA Forum Sessions**  
Oral Presentations

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<th>Time</th>
<th>Session</th>
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<tr>
<td>9:00 – 10:40 am</td>
<td>1A</td>
<td>Comanche Suites</td>
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<tr>
<td>9:00 – 10:40 am</td>
<td>1B</td>
<td>Kiowa</td>
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<td>9:00 – 10:40 am</td>
<td>1C</td>
<td>Wichita I &amp; II</td>
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<td>10:40 – 11:00 am</td>
<td>Break</td>
<td>Cheyenne</td>
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<td>Wichita I &amp; II</td>
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<td>Break</td>
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<td>3B</td>
<td>Kiowa</td>
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<td>1:25 – 3:30 pm</td>
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<td>Wichita I &amp; II</td>
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<td>3:30-5:10 pm</td>
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<tr>
<td>7:30 pm</td>
<td>Wind Ensemble Award Ceremony</td>
<td>Akin Auditorium</td>
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Poster Presentations
9:00 AM – 4:00 PM
Clark Student Center Atrium

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<th>Session</th>
<th>Time*</th>
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<td>1</td>
<td>9:00-11:00 AM</td>
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<td>2</td>
<td>10:30 AM-12:00 PM</td>
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<td>3</td>
<td>1:00-3:00 PM</td>
<td>22-28, 37</td>
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<tr>
<td>4</td>
<td>2:00 – 4:00 PM</td>
<td>29-36</td>
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*Students will be at the posters at indicated times for evaluation. Outside those times, students may stay at their poster during the day for dissemination purposes.

Oral Presentations
Comanche Suites

Session 1A
9:00 – 10:40 am
Moderator: Matt Park
Evaluators: Sally Story, Leann Curry, Attapol Kuanliang

9:05-9:25 (O1)  Kerdell Cuffy *Africa and her Contributions to Civilization*
9:30-9:50 (O2)  Kiley Beaver, Ghislaine Bigot, Anni Scholl, Sarah Moore *A Mixed Method Study of Factors Influencing Student Enrollment at MSU Texas*
9:55-10:15 (O3) Tana Riley, Ashely Baird, Austin Snyder, Sarah Moore *Bettering the MSU Texas Experience*

Kiowa

Session 1B
9:00 – 10:40 am
Moderator: Stuart McClintock
Evaluators: Jeong Ok, Mahmoud Esharafi

9:05-9:25 (O5)  Calvert Aaron, Denzel Martin Kinyua, *Running and Braking of Hydraulic Motors with Varying Loads*
9:30-9:50 (O6)  Johann Redhead *The Year 2030: Do Humans Still Interact?*
10:20-10:40 (O8) Tellon Smith, *The Potential & Inherent Risks of The Internet of Things*
Wichita I & II

Session 1C
9:00 – 10:40 am
Moderator: Niyati Kataria
Evaluators: Sandy Shawer, Julie Wood, Catherine Prose

9:05 - 9:25 (O9)  Frida Arredondo, Montserrat Garay, *From Margin to Center: Multicultural Picturebooks in Math, Science and Social Studies*

9:30 - 9:50 (O10)  Margaret Greenhalgh, *Female Voices of the Third Reich*


10:20-10:40 (O12)  Brooke Benson, *The Importance of Understanding Religious Symptom Patterns for Psychological Therapy*

Comanche Suites

Session 2A
11:00 am – 1:00 pm
Moderator: Crystal Boyle
Evaluators: Valencia Tamper, Ann Marie Leimer, Melissa Nivens

11:05 – 11:30 (O13)  Cortney Wood, Brendan Wynne, *Going Behind the Scenes*

11:35 - 11:55 (O14)  Jenna Horn, Sam Sutton, Taylor Warren, *Whatever May Come*

12:00 - 12:25 (O15)  Dayton Chambers, *Mr. Midwestern*

12:30 – 1:00 (O16)  Jenna Horn, Taylor Morrison, *A Visual Rhythm*

Kiowa

Session 2B
11:00 am – 1:05 pm
Moderator: Lynette Watts
Evaluators: Grace Zhang, Jeff Stambaugh, Jamie Grigsby

11:05 – 11:25 (O17)  Veronica Balderas, *Growth of Minorities in the Accounting Profession: The Importance of Accounting Classes in Secondary Education*

11:30 - 11:50 (O18)  Shayne Matambanadzo, *Innovative Ways To Encourage Saving Amongst College Students*

11:55 – 12:15 (O19)  Morgan Barnes, *Leading without Harassing*

12:20 - 12:40 (O20)  Conney Vargas, Rodrigo Mireles, *Oxen, Agricultural Productivity and Farm Income in Nicaragua*

12:45 - 1:05 (O21)  Luka Gebel, Hanna Gebel, *The Effect of Remittances on Sustainable Development*
Wichita I & II  
**Session 2C**  
11:00 am – 12:40 pm  
**Moderator:** Leslie Berryhill  
**Evaluators:** Salim Azzouz, Betty Bowles, Catherine Stringfield

11:05 – 11:25 (O22) **Aroob Bhatti,** *Cultural Influences on Risk Factors for Familial Diseases*  
11:30 – 11:50 (O23) **Kaushik S. Shah,** *Forecasting Regional Output Level: Case of Wichita Falls*  
11:55 – 12:15 (O24) **Camille Khan,** *Detection of Child Abuse in Medical Imaging*  
12:20 – 12:40 (O25) **Dareem Antoine,** *Real Options Meets Game Theory: An Evaluation of Graduate School Timing Decisions*

Kiowa  
**Session 3B**  
1:00 – 2:30 pm  
**Moderator:** Claudia Montoya  
**Evaluators:** Whitney Snow, Elizabeth Lewandowski, Bradley Wilson

1:05 – 1:25 (O31) **Herbert McCullough, Natalia Zamora Garcia,** *Displacement and Gender-Based Violence: Assessing Transit State Security Gaps for Women and Girls in the Northern Triangle and Syrian Refugee Crises*  
1:30 – 1:50 (O32) **Kyle Walsh,** *Ecotourism and the Icelandic Economy: A Case Study*  
1:55 – 2:25 **William Ash,** *TBH, I’m Just Here for the Extra Credit…” Why is Undergraduate Research Important? My experience with EURECA.*

Comanche Suites  
**Session 3A**  
1:25 – 3:30 pm  
**Moderator:** Jansen Lauren  
**Evaluators:** George Liang, Jeff Blacklock, Kimberly Onstott

1:30 – 1:50 (O26) **Bethany Russell,** *Reducing Chromosomal Antibiotic Resistance in Escherichia coli*  
1:55 – 2:15 (O27) **Melissa Rose** *Effect of Growth Medium pH on Cell Surface Hydrophobicity of Candida albicans*  
2:20 – 2:40 (O28) **Paytan Stubb,** *Identification and Antibacterial Activity of Cellulose-Degrading Symbiotic Bacteria from Grass-feeding Termites*  
2:45 – 3:05 (O29) **Jessica Duffy,** *Rapid evolution of Mediterranean House Gecko Morphology and Performance Based upon the Building Materials They Live upon*  
3:10 – 3:30 (O30) **Vongai Nyikayaramba, Kristen Moss,** *Salt Ions Separation Study When Exposed to an Electric Field*
Wichita I & II  
**Session 3C**  
1:25 – 3:30 pm  
**Moderator:** Newman Wong  
**Evaluators:** Terry McDonald, Jim Masuoka, Jeong Ok  

1:30 – 1:50 (O33) **Kentzie Rhodes, Denzel Martin Kinyua, Alan Peregrino, Michael Reynolds, Brady Burross,** *Pneumatic Robot*  
1:55 – 2:15 (O34) **Mpathi Nzima, Joshua Washington,** *Robotic Soccer using Artificial Intelligence*  
2:20 – 2:40 (O35) **Rojitha Goonesekere, Ryan Fidlar, Chiezda Tokonyai, Nicholas Jaramillo,** *Deep Sea Exploration using an Intelligent Unmanned Drone Fleet*  
2:45 – 3:05 (O36) **Eric Savage, Danielle Arrington, Brandon Allen, Daryn Sims**  
   *On Slippage of a Sucker Rod Pump System*  
3:10 – 3:30 (O37) **Corbin Matamoros and Mitchell Henton,** *Flow Loop System with Heat Transfer*  

Comanche Suites  
**Session 4A**  
3:30 - 5:10 pm  
**Moderator:** Christie Maturo  
**Evaluators:** Randal Hallford, Yu Guo, Guy Bernard  

3:35-3:55 (O38) **Aaron Stewart, Jason Hill, Victor Juarez, Colton Kowalick,** *Automated Indexing*  
4:00-4:20 (O39) **Brandy Fields, Caleb Acuna, Okan Lafleur, Will Stratham, Sheldon Walsh,** *Design and Implementation of a Heat Transfer System for the Pyrolysis of Synthetic Polymers*  
4:25-4:45 (O40) **Christian Gregory, Bailey Kaufman,** *Compressible Flow Through a Converging-Diverging Nozzle*  
4:50-5:10 (O41) **Jocelyn Brown, Brett Scheffe, Duli de Alwis,** *Increasing the Pressure Tolerance Limit of a Plate Heat Exchanger*
**Poster Presentations**

CSC Atrium  
**Poster Session 1**  
9:00 – 11:00 am  

**Evaluators:** Satya Ayinagadda, Rodney Fisher, Kimberly Onstott

(P1)  *TSA Implementation of Computed Tomography*  
Patrick Rowland, Sabrina Barnes, Kyle Walsh, Iris Zhang, Jake West

(P2)  *3D Comparison: CT & MR (Stroke)*  
Haley Brock, Haley Hansen, Marisa Gomez, Ashlin Koleth

(P3)  *3-D Printing and Computer Aided Design*  
Victoria Fatheree, Abby Watts, Dalena Pham, Kristen McCanlies

(P4)  *Meagan Sissom, Cassandra Gomez, Katelyn McQuerry*  
*Next Generation MRI Scanning*

(P5)  *CT Perfusion Imaging for Stroke Patients*  
Gwyndalyn Gonzalez, Alyssa Stone, Madison Terry

(P6)  *Using AI and MRI to Evaluate Children with Hearing Loss*  
Elam Lazo, Kenia Rodriguez, Emily Stewart, Mireya Victoria

(P7)  *Thermal Physiology of the giant Hispaniolan galliwasp*  
Ciera Wolinski

(P8)  *Childhood Vaccination: Definitely Worth a Shot*  
Macy Marshall, Jasmine Moore, Lindsey Morris, Beatriz Gonzalez

(P9)  *Primary Causes of Stress in Undergraduate Students Pursuing Health Care Professions*  
Jacob Loeffler, Reavan Thomas, Lindsey Stone

(P10)  *Sleepless in Wichita*  
Bailey Schnirring, Carlos Tara, Melanie Walker, Jacob Sherrill

(P11)  *Battle against Sudden Infant Death Syndrome (SIDS)*  
Ashley Lomeli, Denisha Hill, Shaini Parikh, Daniel Le

(P12)  *Increase Exposure of Sickness and Illness among Healthcare Workers*  
Halil Hicks, Darline Nyabicha, Trisha Taylor, Suzanne Triana
Poster Session 2
10:00 am – 12:00 pm
Evaluators: Tina Johnson, Scott Meddaugh, Magaly Rincón-Zachary

(P13) Using the Fourth-Order Runge-Kutta Method to Determine the Dynamic Response of a Free Vibrating Laminated Composite Shallow Shell Panel
Vongai Nyikayaramba, Gayal Hewakuruppu

(P14) A Distributed Cache Reduction Approach to DNA Sequencing using the Greedy Shortest Common Superstring
Ali Khalid, Anthony Enem

(P15) UAV-based Remote Terrain Search & Rescue missions with Payload Delivery Using Object-Based Image Analysis
Rojitha Goonesekere, Don Wijesinghe

(P16) Puerto Rico Power Restoration using Renewable Energy
Rojitha Goonesekere, Don Wijesinghe

(P17) Development of a Lizard PBT Data Collection Apparatus
Colton Dorion, William Hendrickson, Kennan Marino, Kevin Tracy

(P18) Exploring the Medicinal Effects of Smooth Sumac
Carson Barnard

(P19) Thermodynamics of Regular and Cancer Cells
Jedeshkeran Chandrasegaran

(P20) Identifying Hymenobacter ginsengsoli: An Ongoing Process
Alexandra Babu

(P21) Dynamic Filtration Test to Investigate the Effects of Performed Gels on Unswept/Low Permeable Zones
Crege E La Ronde, Shanley Paul

Poster Session 3
1:00 – 3:00 pm
Evaluators: SuHua Huang, Raj Arumughan, Qian Li, Marcy Brown Marsden

(P22) Rachel Wilson,
Single Parent Struggles – Art Exhibit

(P23) Taylor McCreary, Graciela Ruiz, Rolando Diaz, Natally Chavarria, Joe Hankins
The Tragic End of Your Internet Freedom: Net Neutrality

(P24) Kelsey Laake, Keelie Ralston,
Reimagining the Elementary Classroom: Implementation of the Kinesthetic Classroom

(P25) Garrison Horton,
Decadence Across Cultures: England, France, Russia, and Central Europe
(P26) Katherine Pendergrass
Effects of Music on the Listener's Moods and Emotions

(P27) Yenifher Valenzuela, Does a Relationship between CEO’s and CFO’s Compensation and Firm Performance Exist?

(P28) Lane Riggs, Annotated Translation of Zamyatin’s We with Scholarly Apparatus

(P37) Nahye Byun, Challenges of Piano Technique: An Individuated Analysis

Poster Session 4
2:00 – 4:00 pm
Evaluators: Jesse Carlucci, Preet Sharma, Matthew Capps

P29 Anahi Palacios, Natalie Ragland. Antibiotic Resistance Due to Changes in the Drug Target

P30 Alaska Carrillo-Bell, Mi’Kaila Billinger. Bacterial Endophytes in Seeds with Varying Melatonin Content: Verification and Exploring the Possible Roles for Bacterial Endophytes in Seeds

P31 Melanie Ronoh, Nchetachukwu Anih. Data Collection and Analysis from a Wind Turbine and Photovoltaic Solar Panel

P32 Rumelia E. Thomas, Kelton Andre Vidal. Dynamic Contact Angle Measurements

P33 Chiedza Tokonyai. Energy from Saltwater

P34 Zeltzin Reyes, Abigail Reyes. Experimental Study of the Nonlinear Dynamics in a Duffing Oscillatory Circuit


P36 Brianna Manning. Identifying Impactful Practices in Learning Communities