Honors Ambassadors are the face of the Elliott T. Bowers Honors College. They often meet with visiting regents, political representatives, or other dignitaries. During special Honors events, the Ambassadors play important roles as hosts and greeters, table leaders, or panel participants.

Being an Ambassador involves taking on certain responsibilities--the willingness to give up time, often in the evenings or weekends--in the interest of supporting Honors College events. Ambassadors need to be able to represent the college and the university well, both in deed and word. There are 20 ambassadors representing every class and every academic college at the University.
Sponsor Recognition 5
A Message from Our Faculty Advisor 7
A Message from Our Co-Chairs 8
About URS and the Elliott T. Bowers Honors College 9
Maps 10
Sessions:
   A - Oral-Media-Panel Presentations 16
   B - Oral-Media-Panel Presentations 18
   C - Poster Presentations 20
   D - Oral-Media-Panel Presentations 27

ALL ORAL-MEDIA SESSIONS WILL BE HELD IN THE CHSS BUILDING.
THE POSTER SESSION WILL BE HELD IN THE LSC EXPANSION, SECOND FLOOR.
8:00-8:45  Registration & Breakfast
          CHSS, First Floor

8:45-8:55  Welcome and Opening Remarks
          CHSS, Room C070

9:00-10:20 Session A, Oral-Media Presentations

10:30-11:50 Session B, Oral-Media Presentations

12:00-1:15 Lunch
           LSC Orange Ballroom

1:30-2:50  Session C, Poster Session
           LSC Expansion, Second Floor

3:00-4:20  Session D, Oral-Media Presentations

4:30-5:00  Closing Ceremony
          CHSS, Room C070

ALL ORAL-MEDIA SESSIONS WILL BE HELD IN THE CHSS BUILDING.
THE POSTER SESSION WILL BE HELD IN THE LSC EXPANSION, SECOND FLOOR.
The Undergraduate Research Symposium is Sponsored By:

Elliott T. Bowers Honors College
The E.U.R.E.C.A. Center

The URS especially thanks Dr. Hiranya Nath for his generous Assam Scholarship.
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Rick Bello. . . . . . . . . . . . . . . . . . . Communication Studies
Maria Botero Jaramillo. . . . . . . . . . Philosophy
Tamara Cook. . . . . . . . . . . . . . . . . . . . . . . . . Biology
Hannah Gerber. . . . . . . . . . . . . . . . . . . . . . . . Education
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Victoria Lantz. . . . . . . . . . . . . . . . . . . . . . . . Theatre
Brian Loft. . . . . . . . . . . . . . . . . . . . . . . Mathematics
Joyce McCauley. . . . . . . . . . . . . . . . . . . . . . Education
Kenneth McIntyre. . . . . . . . . . . . . . . . . . Political Science
Valerie Muehsam. . . . . . . . . . . . . . . . . . Economics
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Pamela Zelbst. . . . . . . . . . . . . . . . . . . Management
Welcome to the Twelfth Annual Undergraduate Research Symposium, hosted by the Ambassadors of the Elliott T. Bowers Honors College!

This conference provides a professional environment for all undergraduates at SHSU to share their past, current, and ongoing research. Because national studies have shown that undergraduates who participate in research are better communicators and more effective leaders, the URS acts as a springboard for post graduate success. Several of our past participants have gone on to experience inspiring professional endeavors which have had their foundation at this conference. For those faculty who have worked closely with their students during preparation for the URS, this accomplishment is a source of enormous gratification.

The Honors Ambassador co-chairs Kayla McCarns, Lucero Nava, Lindsey Burcham, and Shani Gomez have worked extraordinarily hard over the past year to make this conference an ongoing success. This wonderful team worked over the summer to overhaul the URS website and registration module to ensure ease of navigation during the registration process. To encourage student success, they provided information links that covered the varied etiquettes of conference presentation, from dress to poster design. Additionally, they have organized several information sessions, sent out information packets to every faculty member on campus and they have chosen new merchandise, planned meals, and made decisions about next year’s event. Ambassador Lucero Nava has also worked single-handedly on the design and organization of this year’s program, providing invaluable advice and guidance. Again, this conference would not possible without the combined effort of these highly motivated and professional corps of Ambassadors.

But these students are not the only ones who have dedicated themselves to furthering what is now a nation-wide effort to promote undergraduate research. Others have been just as vigorous in their support, including faculty advisors who have helped students with their research, family and friends who have come to show their support, faculty and graduate student volunteers who have devoted their Saturday to giving presenters feedback, staff members who have been working overtime to ensure that everyone is fed, given gift bags, directed to the right rooms, and checked in properly. The Honors College, the Center for Enhancing Excellence in Research Experiences and Creative Activities (E.U.R.E.C.A), and a kind contribution from Academic Affairs have helped to fund this event because they believe in promoting undergraduate research and in supporting the URS. We recognize and deeply appreciate their active support of this endeavor. Finally, we would like to thank Dr. Hiranya Nath, Professor of Economics, for his very generous Annual Assam Scholarship Award.

Today’s conference celebrates what is best about Sam Houston State University: our students, our commitment to excellence in active learning, and our dedication to undergraduate research.

A Message from Our Faculty Advisor

Dr. Tracy Bilsing
Faculty Advisor, Co-Chairs and URS Faculty Committee Chair
Assistant Dean, Elliott T. Bowers Honors College
In 2008, the Honors College Student Ambassadors began the Undergraduate Research Symposium (URS). The goal was two-fold: to share research with fellow students and to gain experience in preparation for future conferences. Today, the URS continues to provide a forum where all SHSU undergraduate students can present their research to others in a professional environment while giving students the opportunity to gain expertise in their field and to receive feedback from other scholars and members of the academic community. Additionally, the URS offers three $500 awards: The Assam Scholarship for Honors Research Award, The Honors College Award for Best Overall Oral-Media Presentation, and the Honors College Award for Best Overall Poster. Other awards include honorable mention awards, the E.U.R.E.C.A. Award for Best FAST Oral Media Presentation, and the E.U.R.E.C.A. Award for Best FAST Poster. The URS is supported by the faculty and staff of the Elliott T. Bowers Honors College.

A Message from Our Co-Chairs

Welcome to the 12th year of the Undergraduate Research Symposium! We and the Honors Ambassadors are excited to have a role in bringing this incredible experience to life for each and every one of you. Twelve years ago, this conference began with a grand total of 6 presenters and 15 attendees (including the six presenters)! With all of you here today, we have almost 215 presenters and over 400 attendees! To put it simply, we would like to thank you for helping us craft a growing experience into something even larger.

And why does this matter? Sure, the Undergraduate Research Symposium is a great way to get the feel for a professional conference — students find an attentive audience, receive professional feedback, and acquire experience in presenting their work. Of course, the Undergraduate Research Symposium also serves as a great method for building your resume or CV. Add free food and goodies to that equation, and you already have plenty of reason to enjoy the event.

However, the co-chairs feel that the greatest benefit of the Undergraduate Research Symposium stems from students’ pride. There is nothing quite like sitting in a room with fellow SHSU students and seeing them showcase the amazing things happening within our university through the impressive and novel ideas taking flight within this conference. Each and every one of you is a part of this organic, incredible experience, and that is something to take immense pride in. Whether it be as a first time or veteran presenter, an ambassador or volunteer, an advisor or faculty moderator, an administrator or supportive audience member, we all have an integral part to play in making this one-of-a-kind event a success. Thank you for your unique contribution to the 12th year of a program that we hope to see continue for a long time to come.

Enjoy your day!

Lindsey Burcham
URS Co-Chair

Shani Gomez
URS Co-Chair

Kayla McCarns
URS Co-Chair

Lucero Nava
URS Co-Chair
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Kayla McCarns
Lucero Nava
Michael Villanueva
Bethany Leander

The Undergraduate Research Symposium
Faculty Committee

Dr. Tracy Bilsing
Dr. Lydia Fox
Dr. Maria Holmes
Mr. John Jordan
Dr. Patrick Lewis
Dr. Pamela Zelbst

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Lindsey Burcham- Vice President
Shani Gomez- Secretary
Brittiany Minor- Co-Historian
Reneisha Gilder- Co-Historian
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Elisha Daniels
Stephen Griego
Maria Hendrickson
Brianna Hickman
Logan Kennemer
Bethany Leander
Peiting Liu
Lucero Nava
Sneha Srikanth
Gabriella Stunz
Julio Valdez
Noah Zavala
Session A
9:00-10:20

ROOM 220 Criminal Justice & Criminology: Evaluation & Solutions

One and the Same? Evaluating the Unique Influence of Impulsivity and Sensation Seeking on Violent Offending and Violent Victimization from Adolescence to Young Adulthood
Lisa McBride, Amber Slover
Faculty Advisor: Dr. Eric Connolly

Child Support and the Effects of Punishment
Gabrielle Adams
Faculty Advisor: Dr. Benjamin Mitchell-Yellin

Solitary Confinement is Crippling: How to Fix a Broken System
Fizza Gilani
Faculty Advisor: Thomas Warren

The Nature of the Relationship between Crime and Geography
Kayla McCarns
Faculty Advisor: Dr. Michael Vaughn

ROOM 226 Human Actions & Reactions

Acquiring Perception from the InSide: An Interpretation of Side by Side with Motivic Analysis
Lia Claus
Faculty Advisor: Dr. John Lane

Religious Participation and Happiness: Data from Two Texas Studies
Kristen Gustafson
Faculty Advisor: Dr. Gene Theodori

NotMyPresident: Congressional Candidates’ Tweets about Trump in 2016 and 2018
Mikki Woodard
Faculty Advisor: Dr. Heather Evans

The Importance of Soft Skills for College Graduates
Cassee Prince
Faculty Advisor: Dr. Danica Schieber
Session A  
9:00-10:20

**ROOM 232  Race & Culture**

**Civil War: The 54th Massachusetts Regiment**
_Bram Sebio-Brundage_
Faculty Advisor: Dr. Wesley Phelps

**Neither Here Nor There: Migrant Aspirations and Behavior En-Route to the American Dream**
_Jesus Ayala Candia_
Faculty Advisor: Dr. Karen Douglas

**The Dawn of Mexican Americans**
_Jocelyn Tobias_
Faculty Advisor: Katherine Gaskamp

**Affectionate Communication: Exploring Cross-Cultural Differences**
_Taylor Butler_
Faculty Advisor: Dr. Lisa van Raalte


**ROOM 242A  Images of Women in Film & Literature**

**Women of Action: A Qualitative Study of the Motivational Reasons for Women to be Violent in Entertainment Media in the United States and Japan**
_Julia Gernhart_
Faculty Advisor: Dr. Eryn O’Neal

**The Representation of Justice in Desert Blood and other Crime Shows**
_Samantha Galvez_
Faculty Advisor: Dr. Montserrat Feu Lopez

**William Blake: Misogyny and Mythology**
_Rebekah Primrose_
Faculty Advisor: Dr. Kandi Tayebi

**Stolen Innocence: The Over-Sexualization of Latinas in Sandra Cisneros’ The House on Mango Street**
_Ruby Rodriguez_
Faculty Advisor: Dr. Kandi Tayebi
Session B  
10:30-11:50

**ROOM 206**  
**Criminal Justice in China**

**An Examination of Chinese Police Cadet’s Knowledge of Domestic Violence**  
*Makayla Mason*  
Faculty Advisor: Dr. Brittany Hayes

**The Effects of Intergenerational Transmission of Violence on the Attitudes and Perpetration of Domestic Violence in Chinese Police Cadets**  
*Camille Ingham*  
Faculty Advisor: Dr. Brittany Hayes

**ROOM 210**  
**M. I. S.: An ACE Showcase**

**The Impact of Cloud Computing on Business**  
*Soo Jong Cho, Cameron Evans, Santos Karki, Saad Tabba*  
Faculty Advisor: Dr. Kamphol Wipawayangkool

**On-premise Versus Cloud Software and Infrastructure**  
*Joshua Abshire, Travis Dixon, Nathan Hillger, Logan Huff*  
Faculty Advisor: Dr. Kamphol Wipawayangkool

**Cloud Computing Security Issues**  
*Kenneth Malone, Cameron Monnat, John Moreno, Torian Williams*  
Faculty Advisor: Dr. Kamphol Wipawayangkool

**Big Data and Cloud Computing**  
*Peyton Clark, Franklin Junay Lemus, Urja KC, Eduardo Martinez*  
Faculty Advisor: Dr. Kamphol Wipawayangkool

**ROOM 220**  
**Biological & Chemical Innovation**

**Understanding the Network of Interactions in Microbial Communities**  
*Jeffrey Belanger, Lindsey Burcham, Madison Cowdrey*  
Faculty Advisor: Dr. Todd Primm

**Observing Chemical Phenomena With New Eyes**  
*Diana Chavelas, Ashlyn Everhart, Shannon Miller*  
Faculty Advisor: Dr. Darren Williams

**The Effects of DMSO in Dark-Anaerobic Conditions on the Growth of Rhodobacter sphaeroides**  
*Lorenzo Baeza*  
Faculty Advisor: Dr. Madhusudan Choudhary

**The Effects of Cortisol on Nightmares and Sleep Quality in PTSD**  
*Kaitlynn Dawson*  
Faculty Advisor: Dr. Courtney Banks
Session B
10:30-11:50

ROOM 232 Critical Issues in Race & Disability

The Epistemology of Racial Ignorance & Cognitive Dissonance
Rayya Gordon
Faculty Advisor: Dr. Leamon Bazil

Dr. Tommy Curry, Race, and Forgiveness
Jackson Bittick
Faculty Advisor: Dr. Leamon Bazil

Mental Illness Across Defendants of Different Races: Competency to Stand Trial or Be Restored
Brittany Minor
Faculty Advisor: Dr. Jorge Varela

To Protect and Serve All
Sarah Ramirez
Faculty Advisor: Dr. Nancy Stockhall

ROOM 242A Plants & Animals

Olive Pomace as an Alternative Feed Source in Growing Chickens
Ethan Carter
Faculty Advisor: Dr. Mark Anderson

Evanilidae Antenna Sensilla
Jeffrey Belanger
Faculty Advisor: Dr. Jerry Cook

The Relationship of Monoterpene Gas Emission and Leaf Bud Break
Andrew Martinez
Faculty Advisor: Dr. Chris Randle

ROOM 252 Alternate Views

The Art of Code Switching
Lucero Nava, Michael Villanueva
Faculty Advisor: Dr. Carlos Hernandez

The Indivisibility of Emotions
Dalanie Aufill
Faculty Advisor: Dr. Maria Botero

Perception of Sports and Mental Health
David Tuel
Faculty Advisor: Dr. Courtney Banks

Charlie: A Look Into the Making of an Original Musical
Damien Drake, Alstrael Evans, Chelsea MacElvaine, Michelle Sosa
Faculty Advisor: Kyle Craig-Bogard
Session C: Posters
1:30-2:50

**Agriculture**

**Association of Adult Obesity Rates and Access to Restaurants**
Wyatt Denson, Meranda Mull, Ixel Romero, Samuel Runge, Hunter Tupa, Collin Wenze
Faculty Advisor: Dr. Shyam Nair

**Comparison of Physiological Responses to Exercise in Horses on a Conditioning Regimen Versus Inactive Horses Receiving a Yucca and Fenugreek (Digesta Well NRG) Dietary Supplement**
Rachel Miller
Faculty Advisor: Dr. Jessica Bedore

**Do Food Assistance Programs (SNAP) Benefit Availability Influence the Perceived Adult Food Insecurity?**
Annie Bailey, Christopher Boring, Tyler Minx, Caitlin Wesneski
Faculty Advisor: Dr. Shyam Nair

**How Does Access to School Food Assistance Programs Impact Food Insecurity Among Children?**
Matthew Anderson, Charles Cavanaugh, Maddie Costlow, Kalla Gaertner
Faculty Advisor: Dr. Shyam Nair

**Evaluation of an All-Natural Fermentation-based Feed Additive on Growth and Health of White-tailed Deer Fawns**
Pui Chan
Faculty Advisor: Dr. Kyle Stutts

**Evaluation of an All-Natural Fermentation-based Feed Additive on Immune Response to Vaccination in Mature White-tailed Deer**
Alyssa Barta
Faculty Advisor: Dr. Kyle Stutts

**Influence of Food Store Proximity on Obesity Rate of Adults**
Alyssa Doucet, Kaylee Enloe, Kyle Jahn, Evan Powell, Jonathan Soza
Faculty Advisor: Dr. Shyam Nair

**Relationship between Adult Food Insecurity and Distance to Stores Accepting SNAP Food Assistance**
Andrew Fleming, Katelyn Morgenroth, Travis Morgan, Brandon Slovak
Faculty Advisor: Dr. Shyam Nair

**Relationship between Adult Obesity Rates and Access to Recreation and Fitness Facilities**
Hunter Curry, Shelby Coogler, Rachael Hargarves, Max Joiner, Tyler Newsome, Wyatt Williams
Faculty Advisor: Dr. Shyam Nair

**Biological Sciences & Chemistry**

**Assessing Historical Fish Community Structure using Taxonomic, Functional, and Historical-contemporary Data**
Edan Morag
Faculty Advisor: Dr. Carmen G. Montana-Schalk

**Comparison of Human Decomposition in Climate Controlled Settings**
Megan Skinner
Faculty Advisor: Dr. Sibyl Bucheli

**Control Experiments for Studying DMTS Degradation**
Christian McMurray
Faculty Advisor: Dr. David Thompson

**Design of Significant Learning Experiences in the Chemistry Laboratory: Understanding the Physical Properties of Aqueous Solutions**
Ivette Rodriguez Espinoza
Faculty Advisor: Adrian Villalta-Cerdas
Does Urbanization Influence the Life History Parameters of the Western Mosquitofish (Gambusia affinis)?
  Janessa Estrada
  Faculty Advisor: Dr. Carmen G. Montana-Schalk

Dynamic Covalent Exchange and Relative Stabilities of Benzodioxaboroles, Benzodiazaboroles, and Benz
  Olivia Villanueva
  Faculty Advisor: Dr. Dustin Gross

Ecology of Cretaceous Dallas
  Jakob Unruh
  Faculty Advisor: Dr. Patrick Lewis

Effects of Different Carbon Sources on the Growth of Rhodobacter sphaeroides
  Noah Zavala
  Faculty Advisor: Dr. Madhusudan Choudhary

Extraction of Natural Products as an Introduction to Commonly used Laboratory Techniques, Polymer Materials, and Fluorescence in the Organic Chemistry Laboratory
  Andrea Bui, My Phan
  Faculty Advisor: Dr. Adrian Villalta-Cerdas

Isolation and Partial Characterization of Novel Antibiotic Producing Soil Isolates
  Luis Grado
  Faculty Advisor: Dr. Jeremy Bechelli

Niche Segregation Among Sunfishes (Lepomis spp.) in an East Texas Urban Stream
  Chelsea Veloso
  Faculty Advisor: Dr. Carmen G. Montana-Schalk

Photocaging Technique for the Targeted, Spatiotemporally Controlled Release of Substances that Alter Hormone Metabolism
  Kendra Ireland
  Faculty Advisor: Dr. Donovan Haines

Preparation and Identification of P450 Metabolites of Dextromethorphan
  Ruby Lilredahl
  Faculty Advisor: Dr. Donovan Haines

Virtual Dissection
  Amber Saleem
  Faculty Advisor: Dr. Patrick Lewis

Behavioral Economics in the 21st Century: The Effectiveness of Governmental Behavioral Economic Units
  Michael McCarney
  Faculty Advisor: Dr. Hiranya Nath

Going “GREEN” in the Petrochemical Industry
  Neisha Pander
  Faculty Advisor: Dr. Tamara Cook

Exploring the Graph Reconstruction Conjecture
  David Schmitt
  Faculty Advisor: Dr. Ken Smith

Rectangular Ramsey Numbers
  Julian Marquez
  Faculty Advisor: Dr. Timothy Trujillo

Smart Grid Infrastructure Development
  Kali Johnson, Gerardo Rodriguez
  Faculty Advisor: Dr. Reg Pecen
An Examination of Correctional Officer Work-Life Balance
Valeria Garza
Faculty Advisor: Dr. Harry Butler

Department of Corrections: Only One Mission?
Lorena Mena
Faculty Advisor: Kate Anguisky

Examining Relationships between Criminogenic Thinking Patterns and Psychopathology
Aysiah Garza
Faculty Advisor: Dr. Jorge Varela

Intimate Partner Abuse Abroad and the Victim’s Rights
Delaney Elrod
Faculty Advisor: Dr. Nicole Niebuhr

Juvenile Competency to Stand Trial Standards
Taryn Meyer
Faculty Advisor: Dr. Steven Cuvelier

Psychopathy: The Good and the Bad
Cassandra Allen, Olivia Heide
Faculty Advisor: Stephanie Haugh

Sex Offender Registry: The Need For Reform
Anna Nix
Faculty Advisor: Dr. Elisa Toman

A is for Apple - Animation for Developing Language Skills
Linda Gee, Shelby Switzer
Faculty Advisor: Dr. Edward Morin

A Prisoner’s World
Jasmine Silva
Faculty Advisor: Dr. Tracy Bilsing

Addressing the Cultural Process of Stereotyping among TESOL Preservice Teachers
Emma Berthelsen
Faculty Advisor: Dr. Abdelilah Salim Sehlaoui

Becoming a World of Acceptance
Valentina Rombado
Faculty Advisor: Dr. Ching-in Chen

David Koresh is Vernon Wayne Howell
Cecilia Monreal
Faculty Advisor: Dr. Michael Demson

Emotional Broadcasting in High - Functioning Autism
Gwendolyn Squires
Faculty Advisor: Dr. Ramona Noland

Identity, Power, Promise: Factors leading to the Fall of the Branch Davidians in Waco, Texas
Sarah Shackelford
Faculty Advisor: Dr. Michael Demson

Illegal Children
Gabrielle Hernandez
Faculty Advisor: Dr. Jeffrey Littlejohn
Lynchings in Montgomery County
Joseph Fairless
Faculty Advisor: Dr. Jeffrey Littlejohn

Nation Building in Mexico
Heather Howsmon
Faculty Advisor: Dr. Jeffrey Littlejohn

The Carefree Black Girl Movement
Joy Njagi
Faculty Advisor: Dr. Ching-in Chen

The Effective Learning Strategies of Teaching Two-Digit Addition and Subtraction To Elementary Students
Jillian Choquette, Amy Koncaba
Faculty Advisor: Dr. Emma Bullock

The Koresh Trance
Jada Morgan
Faculty Advisor: Dr. Michael Demson

The Underestimated Power of Charisma
Erin Griffin
Faculty Advisor: Dr. Michael Demson

When Memes Become Weapons
Grace Iler
Faculty Advisor: Dr. Olena Leipnik

Avoiding Perioperative Hypothermia
Tamara Peirce
Faculty Advisor: Dr. Mona Cockerham

Blood Culture Contamination
Alyssa Kruse
Faculty Advisor: Dr. Mona Cockerham

Clostridium Difficile Screening
Shelby Prewitt
Faculty Advisor: Dr. Mona Cockerham

Clostridium Difficile Test Criteria
Ariana Porfidia
Faculty Advisor: Dr. Mona Cockerham

Comparing Pain Scales
Melissa O’Larey
Faculty Advisor: Deborah Duncan

Compliance of Whiteboard Use in ED
Breann Emshoff
Faculty Advisor: Dr. Mona Cockerham, Samantha McBroom

Compliance with Sepsis Bundle
Mikaela Johnson
Faculty Advisor: Dr. Mona Cockerham, Deborah Duncan

Crucial Conversations in Nursing
Eliver Tumbaga
Faculty Advisor: Dr. Mona Cockerham

Decreasing CAUTI rates in the ICU
Anthony Hernandez
Faculty Advisor: Carlie Sharp, Deborah Duncan
Discharge Checklist Effectiveness  
**Elijah Bautista**  
Faculty Advisor: Dr. Mona Cockerham

Effects of Fall Bundles With Visual Cues  
**Keisha Wiley**  
Faculty Advisor: Dr. Mona Cockerham

Fall Bundle with Patient Contract  
**Haley Shankster**  
Faculty Advisor: Dr. Mona Cockerham

Fall Prevention Education  
**LaTrenda Thompson**  
Faculty Advisor: Dr. Mona Cockerham

Hospital Acquired Pressure Ulcers  
**Janecia Ford**  
Faculty Advisor: Dr. Mona Cockerham

Implementation of Fall Mats and Fall Contracts  
**Nicole Toth**  
Faculty Advisor: Dr. Mona Cockerham

Improved Handoff Communication  
**Cassondra Koski**  
Faculty Advisor: Dr. Mona Cockerham

Improving Anthropometrics  
**Rosie Diaz**  
Faculty Advisor: Dr. Mona Cockerham

Improving Antibiotic Administration  
**Jeffrey Cadwallader**  
Faculty Advisor: Dr. Mona Cockerham

Improving Call Light Responsiveness  
**Maria Harbaugh**  
Faculty Advisor: Dr. Mona Cockerham

Improving Discharge Times and Identifying Barriers  
**Toni Scantlin**  
Faculty Advisor: Deborah Duncan

Increased Sepsis Screening Compliance  
**Galen Deleon**  
Faculty Advisor: Deborah Duncan, Julie Ruocco

Increasing Exclusive Breastfeeding  
**Hanna Peterson**  
Faculty Advisor: Dr. Mona Cockerham

Indications for Indwelling Urinary Catheters  
**Bobby Bates**  
Faculty Advisor: Dr. Mona Cockerham

Interruption in the Postpartum Unit  
**Kris Cam**  
Faculty Advisor: Deborah Duncan

Labeling Tube Feedings  
**Turner DeVaney**  
Faculty Advisor: Dr. Mona Cockerham

Measurement of Blood Loss  
**Elisabeth Shell**  
Faculty Advisor: Dr. Mona Cockerham
Measuring Obstetric Blood Loss
Nohema Carrillo
Faculty Advisor: Dr. Mona Cockerham

Medication Teach-Back
Hannah Wheeler
Faculty Advisor: Dr. Mona Cockerham

Music Impact on Premature Infants
Ashley Egner
Faculty Advisor: Elizabeth Kutchback

Music Therapy in Premature Infants
Kara Deem
Faculty Advisor: Dr. Mona Cockerham

Neonatal Hypoglycemic Control
Mallorie Madden
Faculty Advisor: Dr. Mona Cockerham

Nutritional Risk and the NRS-2002
Veronica Garza
Faculty Advisor: Dr. Mona Cockerham

Oral Care in Ventilated Patients
Ashton Guillory
Faculty Advisor: Dr. Mona Cockerham

Oral Colostrum Priming
Jessica Clayton
Faculty Advisor: Dr. Mona Cockerham

Overcoming Compassion Fatigue
Devyn Fitzpatrick
Faculty Advisor: Dr. Mona Cockerham

Pain Control and Blood Pressure
Natalie Newton
Faculty Advisor: Deborah Duncan, Darrell Jones

Pain Reassessment Compliance
Alicia Hudgens
Faculty Advisor: Dr. Mona Cockerham

Patient Communicated Fall Risk
Cindy Huynh
Faculty Advisor: Dr. Mona Cockerham

Patient Engagement and Perceptions on Fall Risks
Keegan Smith
Faculty Advisor: Dr. Mona Cockerham

Patient Focused Fall Prevention
Emily Smith
Faculty Advisor: Dr. Mona Cockerham

Patient Identification Compliance
Tristyn Duffy
Faculty Advisor: Dr. Mona Cockerham

Patient Identification via Wristband Validation and Compliancy
Jordan Driskell
Faculty Advisor: Dr. Mona Cockerham

Patient Inclusion Causing Less Falls
Crystal Powers
Faculty Advisor: Deborah Duncan
Patient Perceived Fall Risks
Morgan Dietz
Faculty Advisor: Deborah Duncan

Patient Sitter Criteria
Charday Williams
Faculty Advisor: Dr. Mona Cockerham

Patient Understanding of Fall Risks
Luz Garcia
Faculty Advisor: Dr. Mona Cockerham

Personal Protective Equipment
Vy Chau
Faculty Advisor: Dr. Mona Cockerham

Postpartum Depression Assessment
Victoria Mendoza
Faculty Advisor: Dr. Mona Cockerham

Post-partum hemorrhage (PPH) risk assessment compliance
Caley Walkoviak
Faculty Advisor: Dr. Mona Cockerham

Reducing Central Line Infections
Kayla Arrendell
Faculty Advisor: Dr. Mona Cockerham

Reducing Restraints
Jennifer Holton
Faculty Advisor: Dr. Mona Cockerham

Reducing Signs with Door Signage
Courtney Roan
Faculty Advisor: Dr. Mona Cockerham

Reviewing Presurgical Documents
Victoria Webb
Faculty Advisor: Dr. Mona Cockerham

Surgical Checklist Compliance
Quinlyn Rasmussen
Faculty Advisor: Dr. Mona Cockerham

The Consent Form Dilemma
Makayla Broadbent
Faculty Advisor: Dr. Mona Cockerham

Triage Throughout Time
Ashley Sowell
Faculty Advisor: Dr. Mona Cockerham

Venous Thromboembolism Prophylaxis
Marion Zuniga
Faculty Advisor: Dr. Mona Cockerham

Verbal+Written Medication Education
Taylor Munguia
Faculty Advisor: Dr. Mona Cockerham

Video-Monitoring To Prevent Falls
Frank Breckon
Faculty Advisor: Dr. Mona Cockerham

Visual Cues and Early Sepsis Identification
Marlen Salinas
Faculty Advisor: Dr. Mona Cockerham
Session D
3:00-4:20

ROOM 206  Making the Student Experience a Better One

Bibliotherapy: Supporting the Emotional Needs of Students through Literature
  Jamey Peersmann
  Faculty Advisor: Dr. Lory Hass

The Relation Between Pets, Emotional Intelligence, and GPA in College Students
  Rayne Horton
  Faculty Advisor: Dr. Amanda Venta

ELL Stuggles and Strategies
  Camree Ulbricht
  Faculty Advisor: Dr. Mary Petron

The Benefits of Humor Usage in Our Everyday Lives
  Sarah Wagner
  Faculty Advisor: Dr. Frances Brandau

ROOM 220  People and Politics

Dr. Seuss: A Political Activist
  Melanie Hoover
  Faculty Advisor: Dr. Wesley Phelps

#MeToo? Exploring Inadequate Representation within Mainstream Feminist Social Justice Movements and Eradicating the “All Lives Matter” Approach to Solidarity
  Destiny Caldwell
  Faculty Advisor: Dr. Katie Stockdale

Out of the Kitchen and into Congress: An Analysis of How Female Candidates Tweeted in 2016
  Miranda Estrada
  Faculty Advisor: Dr. Heather K. Evans

The Miseducation of Little Black Girls
  Dajone Durham
  Faculty Advisor: Dr. M. Jade Zimpfer

ROOM 226  Dystopia, Class, & Creativity

The Difference Between Ignoring & Ignorance: The Foundation of Gilead
  Alex Cook
  Faculty Advisor: Dr. Kandi Tayebi

The Hierarchal Frameworks of Chaucer
  Cassandra Allen
  Faculty Advisor: Dr. Darci Hill

“Cause of Gilead:” The Handmaid’s Tale, Dystopian Society and Fairytales
  Madison Lindquist
  Faculty Advisor: Dr. Kandi Tayebi

Shaping Herstory: Ruth Page and An American Pattern
  Carlee Sachs-Krook
  Faculty Advisor: Dr. Jessica Ray Herzogenrath
Session D
3:00-4:20

ROOM 232  Body of Evidence

Degradation of Human Cadaver Phalanges Using Household Chemicals
Margaret Spell
Faculty Advisor: Dr. Joan Bytheway

Does Hydrocephalus Interfere with the Estimation of Ancestry Derived from the Skull?
Jasmine Garcia
Faculty Advisor: Dr. Joan Bytheway

The Post Mortem Intervals of Hair Banding Prevalent in Differentiating Period Rates within European Ancestry
Teria Godwin-Pierce
Faculty Advisor: Jennifer Keily

The Morphology of Ballistic Trauma
Stephanie Baker
Faculty Advisor: Jennifer Keily

ROOM 242A  Nature & The Machine

Effects of Hurricane Harvey on the Contamination of Water Supplies in Galveston, TX
Neisha Pander
Faculty Advisor: Dr. Mahdi Safa

People’s Perception of Leading Firms in Artificial Intelligence
Brianna Hickman, Julio Valdez
Faculty Advisor: Dr. Karen Sherrill

Integrating State-of-the-art Technologies in Construction Management: Blockchain
Sylvia Baeza
Faculty Advisor: Dr. Mahdi Safa

ROOM 252  EURECA FAST Panel

The purpose of the FAST Awards program is to encourage the participation of undergraduate students in discipline-specific scholarly or creative work. Each funded undergraduate team supports 1-3 students working together on a single scholarly or creative project under the mentoring of either one Sam Houston State University faculty member or an interdisciplinary team of 2 or more SHSU faculty members. The student teams in this panel will engage in a discussion, sharing their experiences provided through the grant.

Camille Ingham, Makayla Mason
Faculty Advisor: Dr. Brittany Hayes

Kali Johnson, Gerardo Rodriguez
Faculty Advisor: Dr. Reg Pecen

Jeffrey Belanger, Lindsey Burcham, Madison Cowdrey
Faculty Advisor: Dr. Todd Primm

Stacey Lagrone
Faculty Advisor: Dr. Chase Young

Linda Gee, Shelby Switzer
Faculty Advisor: Dr. Edward Morin
The Honors College Ambassadors would like to thank our faculty moderators for taking the time to share their expertise with our student scholars.

Paulina Banas
Kimberly Bell
Tracy Bilsing
Brian Blackburne
Maria Botero
Mack Campbell
Madhusudan Choudhary
Mona Cockerham
Lee Courtney
Deborah Duncan
William Fleming
Lory Haas
Doug Haines
Brittany Hayes
Elisa Herrmann

Maria Holmes
Barbara Kaminska
Jennifer Kiely
Nick Lantz
Jeffrey Littlejohn
Zijun Luo
Barbara Miles
Shyam Nair
Carroll Nardone
Hiranya Nath
Reg Pecen
Todd Primm
Mahdi Safa
Linda Webster
Kamphol Wipawayangkool
Reseaching Today...Changing the World Tomorrow