

## Capstone College of Nursing Winners:

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### First Place (Tie)

#### **Rachel Hunnicutt, Capstone College of Nursing**

Faculty Mentor: Michele Montgomery, Capstone College of Nursing  
Prenatal Smoking Cessation for Professional Nursing Practice

### First Place (Tie)

#### **Elizabeth Fromhold, Capstone College of Nursing**

Faculty Mentor: Becky Owings, Capstone College of Nursing  
The Effect of Lighting Cues on Patients' Reported Hunger Levels

### Second Place

#### **Paula Radcliff, Capstone College of Nursing**

Faculty Mentor: Becky Owings, Capstone College of Nursing  
How Clean is Your Cuff?

### First Place – Small Group Presentation

#### **Hannah Townsend & Mary Talbot Skinner, Capstone College of Nursing**

Faculty Mentor: Olivia May, Capstone College of Nursing  
To Aspirate or to Not Aspirate?

### First Place – Large Group Presentation

#### **Lauren Longobardo, Haley Sayers, Courtney Gage, Mary Carolyn Garcia, Kearston Wells, Caroline Bottcher, Lucas Urbi & Alex Sawicki, Capstone College of Nursing**

Faculty Mentor: Johnny Tice, Capstone College of Nursing  
Do You Hear What I Hear? Battling Ubiquitous Alarm Fatigue

## Arts & Sciences Oral Presentation Winners:

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### Social Sciences

#### First Place (Dr. Laura Busenlehner Award)

##### **Towanda Pettway, Criminal Justice**

Faculty Mentor: Bronwen Lichtenstein, Criminal Justice  
TB on the Hill: Tuberculosis Testing and the Legacy of Tuskegee in Perry County, Alabama

#### Second Place

##### **Sierra Lawson, Anthropology**

Faculty Mentors: Ian W. Brown (Anthropology), Theodore Trost (Religious Studies), Merinda Simmons (Religious Studies)  
Floral Engravings on Gravestones: Interpreting Cultural Values in Tuscaloosa County Burial Grounds

#### Third Place (Tie)

##### **Frances Kyle, Criminal Justice**

Faculty Mentor: Bronwen Lichtenstein, Criminal Justice  
The day that Led to Foreclosure

### **Third Place (Tie)**

**Allison Mollenkamp, English**

Faculty Mentor: Amber Buck, English

Bridging Personal and Professional Identities Online Through Social Media

## **Fine Arts and Humanities**

### **First Place (Dr. Laura Busenlehner Award)**

**Brianna Milner, Theatre and Dance**

Faculty Mentor: Sarah Barry, Theatre and Dance

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### **Second Place**

**Jessica Hauger, History**

Faculty Mentors: Lisa Lindquist-Dorr (History), Erik Peterson (History)

“The Common Lot”: The Philosophical Problem of Labor Pain in the Late Nineteenth Century

### **Third Place**

**Sarah Griswold, Religious Studies**

Faculty Mentor: Michael Altman, Religious Studies

There Is a Well at Cawnpore: The Politics of Commemoration in Colonial India

### **Fourth Place**

**Carissa Schreiber, English**

Faculty Mentor: Lauren Cardon, English

Collective Trauma and Community Healing in Post-war American Literature

## **Natural Science and Mathematics**

### **First Place (Dr. Laura Busenlehner Award)**

**Genevieve Miller, Biological Sciences**

Faculty Mentors: Ryan Earley (Biological Sciences), Kristy Marson (Biological Sciences), Joe Styga (Biological Sciences)

From water to land: jettisoning out of water in response to predator-associated cues in wild mangrove rivulus

### **Second Place**

**Shuwen Yue, Chemical and Biological Engineering**

Faculty Mentor: David Dixon, Chemistry

Computational Studies of the Conversion of Biomass to Biofuels: Acid-Base Chemistry

### **Third Place**

**Abigail Paulson, Chemical & Biological Engineering**

Faculty Mentor: Dave Nikles, Chemistry

Synthesis and optimization of single crystal iron oxide nanoparticles

### **Fourth Place**

**Lacey Kennedy, Biological Sciences**

Faculty Mentor: Stevan Marcus, Biological Sciences

The Role of Stress Responders Pka1 and Pmk1 in Avicin G, a Potent Antitumor Compound

## Honorable Mentions

### **Sean Miller, Chemical & Biological Engineering**

Faculty Mentor: David Dixon, Chemistry

Reliable Predictions of the Bond Dissociation Energy of Mono-, Bi-, and Tri-alanine and Glycine Peptides and the Corresponding Amides

### **Shea Barger & Clint Hydrick, Biological Sciences**

Faculty Mentor: Stephen Secor, Biological Sciences

Not-so-picky eaters; The Cost of Choosing for the Kingsnake

### **Daryll Spangler, Biological Sciences**

Faculty Mentor: Laura Reed, Biological Sciences

Sex Ratios and Response to Dietary Restriction in *Drosophila Melanogaster*

## Arts & Sciences Poster Presentation Winners:

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### Social Sciences

#### **First Place (Dr. Laura Busenlehner Award)**

##### **Molly Cory, Psychology**

Faculty Mentor: Beverly Roskos, Psychology

Technology Use and Driver Mental Resources

#### **Second Place**

##### **Joo Young Yang, Psychology**

Faculty Mentor: Giyeon Kim, Psychology

Limited English Proficiency and Psychological Distress among Elderly Asian Americans: Mental Health Disparities within Asian Population

#### **Third Place**

##### **Samuel Ostrow, Political Science**

Faculty Mentor: Stephen Borrelli, Political Science

The Relative Impact of Party, Money, and Experience in Open Seats

#### **Fourth Place**

##### **Megan Craig, Political Science**

Faculty Mentor: Nichole Bauer, Political Science

Combined Effects of Candidate Race and Class on Voter Opinion

## Honorable Mentions

### **Bethany Herndon, Psychology**

Faculty Mentor: Jennifer Cox, Psychology

The Construct and Application of Aversive Racism in the Criminal Justice System

**Elizabeth Schlichting, Mathematics**

Faculty Mentor: Anneliese Bolland, Institute for Social Science Research  
Sexual Outcome Expectancy Trajectories among Impoverished Black Adolescent

**Maury Holliman, Psychology**

Faculty Mentor: Ariane Prohaska, Criminal Justice  
Non-Natives as a Vulnerable Population Following a Natural Disaster

**Jordana Baraad, Psychology**

Faculty Mentors: Matthew Jarrett, Psychology, Dane Hilton, Psychology  
Attention-Deficit/Hyperactivity Disorder (ADHD) and Mindfulness

**Fine Arts and Humanities****First Place (Dr. Laura Busenlehner Award)****Lauren Deutsch, Information Systems, Statistics and Management Science**

Faculty Mentor: James Mixson, History  
Travels in Late Medieval Religion Case Studies from Visitation and Crusade

**Second Place****Leah Nicoll, Theatre and Dance**

Faculty Mentor: Stacy Alley, Theatre and Dance  
Success in “The Digital Age” of Musical Theatre

**Third Place****Allison Miller, Music**

Faculty Mentor: Ellary Draper, Music  
Effects of Musical Accents, Rhythm, and Melody on Serial Recall of Monosyllabic Digit

**Fourth Place****Chandler Sawyers, Music**

Faculty Mentor: Andrea Cevalasco-Trotter, Music  
Effects of High Versus Low Pitches of Songs on Premature Infants’ Physiological Parameters Across Time

**Natural Science and Mathematics****First Place (Dr. Laura Busenlehner Award)****Alison Farrar, Mathematics**

Faculty Mentor: Claudia Mewes, Physics and Astronomy  
Theoretical Investigation of Damping in Exchange Bias Systems

**Second Place****James Parkes, Physics & Astronomy**

Faculty Mentor: Dawn Williams, Physics & Astronomy  
Double Pulse Plus: An Extended Search for Tau Neutrino Double Pulse Events

### **Third Place**

#### **John Lundeen, Chemistry**

Faculty Mentor: Elizabeth Papish, Chemistry  
Synthesis of Ruthenium-Based Anticancer Prodrugs

### **Fourth Place**

#### **Jessica Fults, Biological Sciences**

Faculty Mentors: Martha Powell, Biological Sciences and William Davis, Biological Sciences  
Spatial and Seasonal Diversity of Chytrids in Two Temporary Forest Ponds

## **Honorable Mentions**

#### **Rachael Kress, Chemistry**

Faculty Mentor: Dave Nikles, Chemistry  
Building a Nano-Thermometer for Localized Magnetic Induction Heating

#### **Zavier Mason, Biological Sciences**

Faculty Mentor: Laura Reed, Biological Sciences  
Effects of High Fat Diet

#### **Siera Jann, Geological Sciences**

Faculty Mentors: Yuehan Lu, Geological Sciences and Takehito Ikejiri, Geological Sciences  
Fossil Reptile or Plant Remains? Mysterious Organic Matters from the Jurassic Morrison Formation of Western Colorado- Investigation Under the Microscope

## **College of Human Environmental Sciences Winners:**

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### **First Place (Tie)**

#### **Jordan Scorzelli, Health Science**

Faculty Mentor: Jen Nickelson, Health Sciences  
Beautiful Health

### **First Place (Tie)**

#### **Hunter Winslett, Health Science**

Faculty Mentor: Jen Nickelson, Health Sciences  
Life Long Fitness

### **Second Place (Tie)**

#### **Taylor Burns, Human Nutrition & Hospitality Management**

Faculty Mentor: Amy Ellis, Human Nutrition & Hospitality Management  
The Relationship between Visceral at, CRP, & Indexes of Insulin Resistance Among Obese Older Adults

### **Second Place (Tie)**

#### **Maranda Burns, Health Science**

Faculty Mentor: Lori Turner, Health Science  
National AHEC Organization HPV Immunization Project

### **Third Place**

#### **Natalie Smith, Human Development & Family Studies**

Faculty Mentor: Casey Totenhagen, Human Development & Family Studies

Depression & Dyadic Coping within Same-Sex Relationships

### **Fourth Place**

#### **Brianne Cronenwett and Jennifer Schopp, Consumer Sciences**

Faculty Mentor: Shinaie Choi, Consumer Sciences

Financial Planning & Health Care Decisions for People with Alzheimer's Disease Diagnosis

## **College of Communication and Information Sciences Winners:**

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### **Poster Presentation Winners**

#### **First Place**

##### **Briana Bettison, Advertising and Public Relations**

Faculty Mentor: Caryl Cooper, Advertising and Public Relations

Caroline Jones: African American Advertising in 1973-1983

#### **Second Place**

##### **Chloe Hill, Culverhouse School of Accountancy**

Faculty Mentors: Chip Brantley and Andrew Grace, Advertising and Public Relations

In Fact: The Story of a Cuban Detainee Uprising in Talladega

#### **Third Place**

##### **Megan Zartman, Communication Studies**

Faculty Mentor: Carol Mills, Communication Studies

The Effect of Significant Others on Sister Relational Closeness in College, and What Can Be Done About It

### **Oral Presentation Winners**

#### **First Place:**

##### **Bryneth Buckner, Communication Studies**

Faculty Mentor: Meredith Bagley, Communication Studies

Exploring the Visual Rhetoric of a Non-Profit Organization

#### **Second Place:**

##### **Ashley Robbins, Ashley Paulmeno, & Turner Waddell, Advertising and Public Relations**

Faculty Mentors: Teri Henley and Gerald Waters, Advertising and Public Relations

Developing a Consumer Segmentation Strategy to Identify Snapple's Target Audience

#### **Third Place:**

##### **Kacey Smit, Eric Mayo, & Hunter Bethea, Communication Studies**

Faculty Mentor: Darrin Griffin, Communication Studies

Faith and Resiliency

### **Internationally Focused Award**

#### **Chloe Hill, Culverhouse School of Accountancy**

Faculty Mentors: Chip Brantley, Andrew Grace, Advertising and Public Relations

In Fact: The Story of a Cuban Detainee Uprising in Talladega

# Emerging Scholars Winners 2016:

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## Division of Science, Mathematics & Engineering

### Poster Presentations

#### First Place

##### **Brenna Barber and Rachel Ostrow, Mechanical Engineering**

Faculty Mentors: Keith Williams, Beth Todd, Mechanical Engineering  
Instrumentation of an Orthotic Boot

#### Second Place (Tie)

##### **Pierce McLawhorn, Mathematics**

Faculty Mentor: Burcu Keskin, Information Systems, Statistics & Management Science  
Online Optimization: Applications in Healthcare, Public Safety, & Supply Chain Management

#### Second Place (Tie)

##### **Elizabeth Rowe, Chemical & Biological Engineering**

Faculty Mentors: Paul Rupar, Louis Reisman, Chemistry  
PEI 3D Printing

## Internationally Focused Awardee

#### **Keaton Drees, Capstone College of Nursing**

Faculty Mentor: Safiya George, Capstone College of Nursing  
Finding the Correlation Between Drug Use & Sexual Risk Behavior in the U.S. Virgin Islands

## Division of Fine Arts

### Poster Presentations

#### First Place

##### **Liza Rogers and Peirson Rogers, Human Environmental Sciences**

Faculty Mentor: Marcy Koontz, Human Environmental Sciences  
(re)Fashioning Vintage: Visual Branding for a New Local Small Business with a Smart Phone Camera & Social Media Platforms

#### Second Place

##### **William McCrary, History**

Faculty Mentor: George Rable, History  
Civil War Values: What the War is Doing to the Country

#### Third Place

##### **Sarai Russell, English**

Faculty Mentor: Barbara Brickman, New College  
Greased Lightning

## Oral Presentations

### First Place

#### **Molly Buffington, History**

Faculty Mentor: Charles Clark

American Views of the North Russian Expedition 1918-1928

### Second Place

#### **Rebecca Murdoch, Telecommunication & Film**

Faculty Mentor: Kristen Warner, Telecommunication & Film

The Matriarch-Tree: Motherhood and Intergenerational Feminism in Gilmore Girls and Jane the Virgin

## Division of Social Sciences, Business & Education

## Poster Presentations

### First Place

#### **Kynnedi Fye, Criminal Justice**

Faculty Mentor: Darrin Griffin, Communication Studies

Cyber Terrorism & Educational Institutions: Examining Resiliency Against Threats

### Second Place

#### **Kathryn Fritz, Chemistry**

Faculty Mentor: JoAnn Oliver, Capstone College of Nursing

Lymphedema in Breast Cancer Patients: Identifying the Gap from the Literature

### Third Place

#### **Elizabeth Di Valerio, Biological Sciences**

Faculty Mentor: Safiya George, Capstone College of Nursing

Exploring HIV Stigma in the U.S. Virgin Islands

## Oral Presentations

### First Place

#### **Manoj Sunny, Economics, Finance & Legal Studies**

Faculty Mentors: Paul Drnevich, Management & Marketing; Collin Gilstrap, Economics, Finance & Legal Studies

Premiums Comparison: Same Industry vs. Cross Industry Analysis

### Second Place

#### **Lauren Crawford, Economics, Finance & Legal Studies**

Faculty Mentor: Robert Reed, Economics, Finance & Legal Studies

The Causes and Consequences of Bank Failures in Canada

### Third Place

#### **Caroline Prichard, School of Social Work**

Faculty Mentor: Brenda Smith, School of Social Work

How realistic are “realistic job previews” in child welfare? Implications for employee retention and turnover



## Internationally Focused Awardees

### First Place

**Elizabeth Di Valerio, Biological Sciences**

Faculty Mentor: Safiya George, Capstone College of Nursing  
Exploring HIV Stigma in the U.S. Virgin Islands

### Second Place

**Lauren Crawford, Economics, Finance & Legal Studies**

Faculty Mentor: Robert Reed, Economics, Finance & Legal Studies  
The Causes and Consequences of Bank Failures in Canada

### Third Place

**Isabelle Beauregard, Gender & Race Studies**

Faculty Mentor: Dana Patton, Political Science  
Paid Parental Leave Policies & Their Effects on Infant Mortality Rates

## College of Engineering Winners:

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### First Place

**Katelyn Isbell and Gatlin LaRochelle, Electrical & Computer Engineering**

Faculty Mentor: Yang-Ki Hong, Electrical & Computer Engineering  
Reconfigurable Ferrite Antenna for Mobile Devices

### Second Place

**Rachel Gentry, Electrical & Computer Engineering**

Faculty Mentor: Jaber Abu Qahouq, Electrical & Computer Engineering  
Zhiyong Xia, Electrical & Computer Engineering  
State-Of-Health Estimation of Batteries using Offline and Online AC Impedance Measurements

### Third Place

**Paaras Agrawal, Chemical & Biological Engineering**

Faculty Mentor: Jason Bara, Chemical & Biological Engineering  
Development of Structured Distillation Packing through Additive Manufacturing

## School of Social Work Winners:

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### First Place

**Elie Allen, Molly Moran, Bailey Reese, Shelby Smithson and Rachel Thompson, School of Social Work**

Faculty Mentor: Kevin Corcoran, School of Social Work  
“Living Memories” An App for Family Matters

### Second Place

**Miranda Casey, Madison Darling, Molly Fitch, Rachael Hartley, Cho Rong Won, School of Social Work**

Faculty Mentor: Kevin Corcoran, School of Social Work  
HealthU: An App for Collegiate Health Promotion

### Third Place

**Elie Allen, Molly Moran, Bailey Reese, Shelby Smithson, Rachel Thompson, Miranda Casey, Madison Darling, Molly Finch, Rachael Hartley, Cho Rong Won, School of Social Work**

Faculty Mentor: Kevin Corcoran, School of Social Work  
USDA Nutrition Guidelines: Do They Make A Difference

## College of Education Winners:

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### Poster Presentations

#### First Place

##### **Allyson Pitzel, Special Education & Multiple Abilities**

Faculty Mentor: Carol Donovan, Special Education & Multiple Abilities

Helping to Create the Ideal Kindergarten Classroom by Gaining Insight into Early Childhood Personality Types

#### Second Place

##### **Emily Lewis, Curriculum and Instruction**

Faculty Mentor: Liza Wilson, Curriculum and Instruction

Theatrical Techniques in the ELA Classroom

### Oral Presentations

#### First Place

##### **Emily Pickle, Psychology**

Faculty Mentor: Liza Wilson, Curriculum and Instruction

Experiences of Perceived Discrimination among Arab Students and Arab Non-Students

#### Second Place

##### **Anna Forrister, Anthropology**

Faculty Mentor: Philo Hutchison, Educational Leadership, Policy and Technology Studies

Resegregation in Macon County Public Schools

## Culverhouse College of Commerce Winners:

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### Poster Presentations

#### First Place

##### **Logan Tarbox, Information Systems, Statistics and Management Science**

Faculty Mentor: Phillip Burns, Student Affairs

Improving Technical Literacy in Non-Profits

#### Second Place

##### **Cameron Harvey, Patrick Mitchell, Information Systems, Statistics and Management Science**

Faculty Mentor: Burcu Keskin, Information Systems, Statistics and Management Science

Patrol Routing with Alternative Fuel Vehicles

#### Third Place

##### **John Deeble, Economics, Finance and Legal Studies**

Faculty Mentor: Robert Brooks, Economics, Finance and Legal Studies

Trial by Fire: A Performance Comparison of Several Option Valuation Models Using Historical Asset Price Data

### Oral Presentations

#### First Place

##### **Kanitta Kulprathipanja, Economics, Finance and Legal Studies**

Faculty Mentor: Robert Reed, Economics, Finance and Legal Studies

The Impact of Banking Concentration in the United States

## **Internationally Focused Awardees**

### **First Place**

**Derek Carter, Economics, Finance and Legal Studies**

Faculty Mentor: Stephanie Brewer, Student Affairs

Economic Freedom and Corruption

### **Second Place**

**Alexa Gardner, Economics, Finance and Legal Studies**

Faculty Mentor: Paan Jindapon, Economics, Finance and Legal Studies

Analysis of the Cost-Effectiveness of Cancer Spending on Survival Gains

### **Third Place**

**Ashley Brown, Culverhouse School of Accountancy**

Faculty Mentor: Lisa McKinney, Culverhouse School of Accountancy

Business Education to Assist Economic Restoration in Haiti