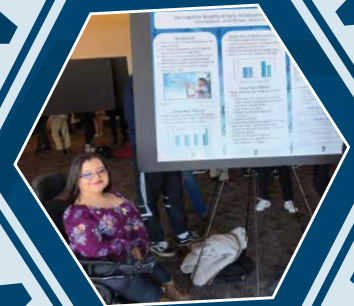


THIRD ANNUAL
WINTER

CREATIVE ACTIVITIES
& RESEARCH DAYS


December 1-2, 2021



RADFORD UNIVERSITY

Undergraduate Research and Scholarship

radford.edu/wintercard



Welcome: It is my pleasure to welcome you to the 3rd Winter Creative Arts & Research Days at Radford University. As we reach the end of another unique semester I could not be prouder of the Radford University research and creative inquiry community. All week, there will be displays of students presenting the new knowledge they created while working closely with faculty and other students to solve wicked problems we face in society and on our planet. Monday the Artis College of Science and Technology will take center stage, then Tuesday Psychology and Gender Studies will have the spotlight, before shifting to campus wide sessions all day Wednesday and Thursday. We know the experience students get in tackling ambiguous processes and solutions transforms them well beyond learning skills in their disciplines, Radford University researchers are twice as likely to have leadership roles on campus, spend more time volunteering and in service activities, and learn Career Readiness Competencies. And it is with excitement we can share that the Center for Career and Talent Development is joining us Thursday to help presenters learn how to articulate those career competencies to future employers and receive a professional headshot.

As much as research is transformative, the contributions the last two years from Dr. Maggie Pate has transformed OURS. I need to take a moment here and recognize her countless contributions, leadership abilities, and enjoyment everyone in the office has taken from working with her. We will miss you Maggie and know you'll be successful on your path ahead!

-With Highlander Pride, Dr. Joe Wirgau, Director of the Office of Undergraduate Research & Scholarship

Winter CARD Coordinators in OURS

Joe Wirgau, Director

Maggie Pate, Associate Director

Keishaun Williams, Administrative Assistant

Abby Hardbower, Graduate Assistant

Yasmine Tyler, Graduate Assistant

Leah Ellis, Executive Student Assistant

Maia Grove, Executive Student Assistant

Skylar Roberson, Executive Student Assistant

The Following Individuals are Acknowledged for Their Contributions:

Jeff Aspelmeier, Chair, Department of Psychology

Jason Clayton, Director, Center for Career and Talent Development

Ann Elliot, Director, Center for Gender Studies

David Horton, Assistant to the Dean, Artis College of Science and Technology

Mary Beth Kegley, Graphic Design Manager, University Relations

Traci Nelson, Administrative Assistant, Faculty and Staff Development

Norma Riggins, Event Planning Manager, University Services

Josh Wimmer, Graphic Production Tech Printing Services

Makayla Woodford, Graduate Assistant, Department of Psychology

In Person Schedule at a Glance

Monday November 29th

Artis College of Science and Technology Poster Session 1

Main Street Lobby Center for the Sciences 3:00 pm – 5:00 pm

Art History Session 1

Walker Hall 2nd Floor Hallway and Lobbies 5:00 pm – 7:00 pm

Tuesday November 30th

Artis College of Science and Technology Poster Session 2

Main Street Lobby Center for the Sciences 11:00 am – 11:50 am

9th Annual Psychology and Gender Studies Research Symposium

Oral Presentations Heth 022 3:30 pm – 5:30 pm

Poster Presentations Heth 014 5:00 pm – 7:00 pm

Wednesday December 1st

Art History Session 2

McConnell 270 & Zoom 11:00 am – 11:50 am

Winter CARD Poster Session 1

Kyle Hall 340 12:00 pm – 12:50 pm

Winter CARD Poster Session 2

Kyle Hall 340 2:00 pm – 2:50 pm

Thursday December 2nd

Winter CARD Poster Session 3

Kyle Hall 340 9:30 am – 10:45 am

Art History Session 3

Ross Gallery in McConnell Library 9:30 am – 10:45 am

Winter CARD Poster Session 4

Kyle Hall 340 11:00 am – 12:15 pm

Winter CARD Poster Session 5

Kyle Hall 340 2:00 pm – 3:15 pm

Art History Session 4

McConnell Library 2:00 pm – 3:15 pm

Winter CARD Poster Session 6

Kyle Hall 340 3:30 pm – 4:45 pm

Lightning Research Competition

Center for the Sciences M073 6:30 pm – 7:30 pm

Virtual Schedule at a Glance

All virtual sessions held via Zoom Password to all Winter CARD Zoom links is: WinterCARD

Wednesday December 1st

Sociology Session 1

Meeting ID 971 5948 6618 10:00 am – 10:50 am

Biology Session 1

Meeting ID 917 7483 9753 11:00 am – 11:50 am

School of Communication Session 1

Meeting ID 983 1904 6499 12:00 pm – 12:50 pm

School of Communication Session 2

Meeting ID 983 1904 6499 1:00 pm – 1:50 pm

School of Communication Session 3

Meeting ID 983 1904 6499 2:00 pm – 2:50 pm

Sociology Session 2

Meeting ID 971 5948 6618 4:00 pm – 4:50 pm

Thursday December 2nd

Multidisciplinary Session 1

Meeting ID 921 0916 1490 9:30 am – 10:45 am

Citizen Leader Session

Meeting ID 987 1044 4432 4:00 pm – 4:50 pm

Friday December 3rd

Sociology Session 3

Meeting ID 971 5948 6618 10:00 am – 10:50 am

Sociology Session 4

Meeting ID 971 5948 6618 4:00 pm – 4:50 pm

Winter CARD Events

Equipping The Professional You

The Center for Career and Talent Development is committed to helping you discover your uniqueness and gain valuable experience to thrive in your professional and personal life.

On **December 2nd from 12 - 2P.M.** in **340 Kyle Hall**, get your **professional photo** taken by the **Office of Alumni Relations** and meet some of the **Career and Talent Development team**. You can learn about how you can **market your undergraduate research experience** as an in-demand skill set with today's employers, **free professional clothing** available to you through our **Career Closet**, and about a multitude of other helpful career resources.



Find us at:
Office - 331 Russell Hall
Phone - 540-831-5373
Email – csc@Radford.edu
Handshake - @radfordcareer

RADFORD UNIVERSITY

Center for Career and Talent Development

9th Annual Psychology & Gender Research Symposium

Tuesday, November 29th from 3:30 – 7:00 pm

Psychology & Gender
Research Symposium
Department of Psychology
**9th Annual
Fall 2021**

Co-sponsors
Office of Undergraduate
Research and Scholarship
The Center for Gender Studies

Tuesday
November 30th

Heth 022 & 014
3:30 - 7:00 pm



Art History Session 1: Contemporary Women in Art

Monday November 29th 5:00-7:00 pm in Walker Hall 2nd Floor Hallway and Lobbies

Grace Atallah	Zach Blevins-Goad	Jacy Brown	Jennifer Burns
Molly Dunford	Sofia Growchowski	Mina Hatami	Sydne Moseley
Tonita Parks	Erica Sallee	Lauren Santa	Matthew Stoecker
Courtney Stultz	Dan Tyler	Luc White	

Faculty Mentor(s): Roann Barris

Students in this class, while trying to answer the question of whether or how feminism or gender influenced art, chose an artist they admired and one work made by that artist for a close study. Part of their study included making a reproduction of the masterwork they chose in order to understand the techniques used by the artist. Some of the students may also include a work made by themselves in the style of the artist they were studying.

Art History Session 2: Social Justice Issues and the Empathetic Museum

Wednesday December 1st 11:00-11:50 am in McConnell 270 and Zoom

Zoom Meeting ID: 992 5976 9998 Password: WinterCARD

Mbaida Nying	Josh Barber	Jacy Brown	Heather Dawson
Dan Tyler	Maichal Valentine		

Faculty Mentor(s): Roann Barris

This presentation will be a roundtable discussion. Each student has been analyzing a particular museum of interest with a goal of identifying how that museum has responded to contemporary social justice issues and what factors affected that response. In addition to analyzing the “maturity” of the museum when it comes to social empathy, students will present their suggestions for improving the museum they studied in the area of responsiveness to issues of social justice. Find out about the empathy scale, what museums are doing today (besides displaying their collections) and how museums can progress from a lack of empathy to a high level of empathy.





Art History Session 3: Breakfast with Graphic Design at the Movies

Thursday December 2nd 9:30-10:45 am in Andrew Ross Student Gallery McConnell Library

Emily Woods
Desi Parks

Ashley Dickerson
Lauren Santa

Gina Godwin
Katlyn Walters

Oliver Huffman
Abel Jacob

Kenny Nguyen
Westin Yates

Faculty Mentor(s): Roann Barris

In this year's project, the students in the history of graphic design class were asked to choose a movie poster they admired but at the same time thought could be better. The works you will see in this year's exhibition on display in the Andrew Ross Student Art Gallery in McConnell Library will demonstrate the students' recognition of strong graphic design work and their ability to make it better. If you come for the opening reception, the students will be there to explain their design decisions.

Art History Session 4: Native American Arts

Thursday December 2nd 2:00-3:15 pm in McConnell Library Lobby

Maichal Valentine
Heather Dawson

Makayla Brooks
James Spaulding

Jennifer Burns
Luc White

John Campbell

Faculty Mentor(s): Roann Barris

Everyone in this class was amazed by the range of media, techniques, and abilities of indigenous American artists who rarely get studied and whose names and works are rarely seen. We hope to correct that with this exhibition: everyone has chosen a particular type of native artwork to study. Their works for this show will not be copies but they will be made using the same techniques and materials used by the original indigenous artists. Some of the students have been weaving with porcupine quills! Whether quills or water colors, we hope to expand your knowledge of indigenous styles and art works.





Artis College of Science and Technology Poster Session 1
Monday November 29th, 3:00 – 5:00 pm in Main Street Lobby Center for the Sciences

Updates from Selu Observatory

Jonathon Halferty Sarah Kellogg Joe Peton Jacob Sneider Colton Whittaker

Faculty Mentor(s): Sandra Liss

Human Influenced Landscapes at Selu, Virginia

Josh Barber Jacob Ritter

Faculty Mentor(s): David Anderson

An Infrared Sensor for Detecting Air Particulates

Anith Muthalaly

Faculty Mentor(s): Rhett Herman

A Multi-Wavelength Light Sensor for Detecting Air Particulates

Sam Williams

Faculty Mentor(s): Rhett Herman

A Red Laser Based Sensor for Detecting Air Particulates and Atmospheric Light Extinction

Sami Reitz

Faculty Mentor(s): Rhett Herman

An Ultrasonic Wind Speed Sensor Hack

Jenna Petty

Faculty Mentor(s): Rhett Herman

Artis College of Science and Technology Poster Session 2

Tuesday November 30th, 11:00 – 11:50 pm in Main Street Lobby Center for the Sciences

Me-oh, My-oh: The Cajun Predicament

Charles Branner

Faculty Mentor(s): Megan Elder-Taylor

Traditional Chicago Dialect

Jalyn Reed

Faculty Mentor(s): Megan Elder-Taylor

A battle for belonging: The Link Between Language and Ethnicity

Wesley Jarvis

Faculty Mentor(s): Megan Elder-Taylor

An Overview of the Phonology and Syntax of Sanskrit

John McKenney

Faculty Mentor(s): Megan Elder-Taylor

America's Buried Sociolect: The Patterns, Uses, and Social Context of the Trans-Atlantic Dialect

Andra Tomlin

Faculty Mentor(s): Megan Elder-Taylor



Winter CARD Poster Session 1
Wednesday December 1st, 12:00 – 12:50 pm in Kyle Hall 340

The Effects of Anthropogenic Impacts on Soil Quality

Sierra Dean Jahsmine Fowler Christina Beane
Gabrielle Fields Helena Willson

Faculty Mentor(s): Jamie Lau

The Synthesis of Gallium Containing Organometallic Compounds

Mary Elizabeth Demmin

Faculty Mentor(s): George Harakas

Competitive High School Athletes and the Pre-Participation Physical Exam (PPE): Do State High School Associations Need to Adopt a Higher Standard of Care?

Brie Flanagan

Faculty Mentor(s): Pamela Frasier Angela Mickle

Comparing Neck Mobility and Muscle Activation

Evan Somervell

Faculty Mentor(s): David Sallee

Getting To The Bottom Of It : How Pesticides Affect Groundwater in the Ecosystem

Genesis Carter Jennah Dimaggio Ashton Ennis Makayla Newman

Faculty Mentor(s): Joseph Wirgau

Impact of Gender Identity on Developing Adolescence

Lauren Craddock Victoria Dean Gaberiel Tieskotter

Faculty Mentor(s): Joseph Wirgau

College Freshmen's Strive for Success: How Mental Health is Affected by First-Year Nutrition and Sleep Patterns

Leah Ellis Lexie Cobb Dani Haines Chloe Dowell

Faculty Mentor(s): Joseph Wirgau

Artificial Intelligence Sustainability For The Future

Ryan Coleman Jaevan Boone James Wallace Christopher Oliver

Faculty Mentor(s): Joseph Wirgau

Nature Rx: Using Outdoor Recreation to Improve Student Mental Health

Abbi Green Dom Del Grosso Hansy Velazquez

Faculty Mentor(s): Joseph Wirgau



Winter CARD Poster Session 1
Wednesday December 1st, 12:00 – 12:50 pm in Kyle Hall 340

Climate and Ecological Disturbance Analysis of White Oak Species at Selu Conservancy Radford, VA

Gabriella Richards Madigan Bright Jadelyn Smith

Faculty Mentor(s): Stockton Maxwell

Dendrochronology Climate Relations

Rand Bohnert Avery Blood Ben Ramsey

Faculty Mentor(s): Stockton Maxwell

Dendrochronology of White Oak Growing at Selu Conservancy

Sheldon Dobbins Patrick Shrader Jonathan Antin

Faculty Mentor(s): Stockton Maxwell

Climate Response of White Oak at Selu Conservancy

Amber Stovall Luc White Breonna Cox

Faculty Mentor(s): Stockton Maxwell

Disturbance and Climate Response Analysis of White Oak Tree Growth at Selu Conservancy

Nick Francis Keasia Clark Savannah Trail

Faculty Mentor(s): Stockton Maxwell

Recent Tragic Events Costume Design

Harvey Perkins

Faculty Mentor(s): Jennie Ruhland

The Impacts Of Landing While Using An Ankle Brace

Austin Witcher

Faculty Mentor(s): David Sallee

phylogatR: Phylogeographic Data Aggregation and Repurposing

Stephanie Crouch

Faculty Mentor(s): Tara Pelletier

No Wi-Fly List: An Introduction to Drone Security

Sam Williams Martin Noffsinger

Faculty Mentor(s): Hwajung Lee

Winter CARD Poster Session 2

Wednesday December 1st, 2:00 – 2:50 pm in Kyle Hall 340

Evaluation of Reminiscence Therapy as an Effective Non-pharmacological Evidence-based Intervention for Alzheimer's Disease

Haley Conley

Faculty Mentor(s): Darlene Hoffert

Hide & Seek: The Search for the Elusive Praying Mantis

Nii Abraham

Nicholas Webster

Ashley Austin

Nathan Null

Faculty Mentor(s): Jamie Lau

Comparative Collection Methodology for the Eastern Hercules Beetle in Radford, Virginia

Mark Passeretti

Lyla Chittum

Elise Simmons

Haley Howerin

Faculty Mentor(s): Jamie Lau

Mapping The Distribution Of Cheumatopsyche Morphotype D In Three Local Streams

Maya Banks

Gabriella Richards

Hunter Villanueva

Katarina McCann

Faculty Mentor(s): Jamie Lau

The Search for the Handsome Fungus Beetle

William Cecil

Melissa Ifidzhen

Morgan Mullens

Britani Albert

Faculty Mentor(s): Jamie Lau

The Search for Red-Legged Grasshopper (*Melanoplus femurrubrum*) on Radford University's Campus

Sierra Felty

Mandi Gills

Trey Harris

Chris Wozniak

Faculty Mentor(s): Jamie Lau

Distribution of Small Milkweed Bugs (*Lygaeus kalmii*) In Radford, VA

Hannah Stuart

Breonna Cox

Kayla Wines

Alayna Carter

Faculty Mentor(s): Jamie Lau

Situating Assemblages of Grasshoppers in Sustainability

Mandi Gills

Faculty Mentor(s): Jamie Lau Stockton Maxwell

Synthesis and Characterization of Xenophilic Transition Metal Clusters

Jake Morris

Faculty Mentor(s): George Harakas

Engineering Safety And Stability Analyses Of Rock Cuts For Federal Infrastructure Improvements, Rt 48 / Corridor H, West Virginia

Matthew White

Jasmine Rollins

Kendra Bolen

Faculty Mentor(s): Chester Watts Elizabeth McClellan James Young

Aerial 3D Modeling & Monitoring of Campus Construction Sites at Radford University Using Unmanned Aircraft

Sarah Jackson

Matthew White

Jasmine Rollins

Faculty Mentor(s): Chester Watts Elizabeth McClellan James Young

Winter CARD Poster Session 3
Thursday December 2nd, 9:30 – 10:45 am in Kyle Hall 340

Testing The Intermediate Disturbance Hypothesis at Selu Conservancy Using an Insect Assemblage'

Gabriel Tieskotter Salvador Simpson Arvid Rutledge Kayla Scott
Anthony Esquivel-Tellez

Faculty Mentor(s): Jamie Lau

Tortell-Gene-I

Ryan Dippel Andrew Daniels
Faculty Mentor(s): Tara Pelletier Amanda Raimer

The Toxicity In Our Tortellini

Damaris Forkey Melissa Ifidzhen Maya Anderson
Faculty Mentor(s): Tara Pelletier Amanda Raimer

Baked Tortellini & Genes Icing

Chris koszeghy Nii Abraham
Faculty Mentor(s): Tara Pelletier Amanda Raimer

Tortellini Obsessed

Justin McLaughlin Karl Katlaps
Faculty Mentor(s): Tara Pelletier Amanda Raimer

Tortellini Gene Survey: the Virus, Not the Pasta

Drew Reavis Emily Cardoso
Faculty Mentor(s): Tara Pelletier Amanda Raimer

Tortellini, Pasta or Genes?

Jacey Estep Derrick Sutton
Faculty Mentor(s): Tara Pelletier Amanda Raimer

Using DNA Barcoding to Identify Museum Specimens

Brianna Bray Brittany Mason Courtney Whitt Zach Christman
Faculty Mentor(s): Robert Sheehy

Species Identification using DNA Barcoding

Brian Currin Jaris Hernandez Brittany Rakes Brielle Smith
Corey Whited

Faculty Mentor(s): Robert Sheehy

Identification of Museum Specimens Using DNA Barcoding

Mel Lively Jenna Blanchette Keyvanta Watson Alex Wheatley

Faculty Mentor(s): Robert Sheehy

Winter CARD Poster Session 3
Thursday December 2nd, 9:30 – 10:45 am in Kyle Hall 340

Confirmation of Species Identification Using DNA Barcoding

Sondrea Perry Megan Vineyard Ashanti White Triston Perry
Faculty Mentor(s): Robert Sheehy

DNA Isolating and Sequencing of Different Organisms

Hailee Shifflett Laken Robinson Elena Hall Destiny Thaler Conan Busic
Faculty Mentor(s): Robert Sheehy

ESPN Advertising Strategy

Ramiro Banuelos-Haro
Faculty Mentor(s): Jane Machin

Titleist Advertising Strategy

Jarrold Burnette
Faculty Mentor(s): Jane Machin

Fenty Beauty Advertising Strategy

Shawnda Dennis
Faculty Mentor(s): Jane Machin

Yonex Advertising Strategy

Malin Falk
Faculty Mentor(s): Jane Machin

7-11 Advertising Strategy

Liam Fitzgerald
Faculty Mentor(s): Jane Machin

Air Jordan Advertising Strategy

Terran Hubbard
Faculty Mentor(s): Jane Machin

State Farm Advertising Strategy

Lamar Jones
Faculty Mentor(s): Jane Machin

Old Spice Advertising Strategy

Hunter Lee
Faculty Mentor(s): Jane Machin

Peanut M&Ms Advertising Strategy

Caton Owens
Faculty Mentor(s): Jane Machin

Dove Advertising Strategy

Kayla Brown
Faculty Mentor(s): Jane Machin

Taylormade Advertising Strategy

Matthew Davidson
Faculty Mentor(s): Jane Machin

Disney Parks Advertising Strategy

Emily Duralia
Faculty Mentor(s): Jane Machin

Budweiser Advertising Strategy

Ryan Finn
Faculty Mentor(s): Jane Machin

Natural Light Advertising Strategy

Christian Grzejka
Faculty Mentor(s): Jane Machin

Nike Advertising Strategy

Geoffrey Hudson
Faculty Mentor(s): Jane Machin

Longchamp Advertising Strategy

Chloe Kopoin
Faculty Mentor(s): Jane Machin

Jack Links Advertising Strategy

Austin Nicholas
Faculty Mentor(s): Jane Machin

Michelin Tires Advertising Strategy

Mathilde Patillot
Faculty Mentor(s): Jane Machin

Winter CARD Poster Session 3
Thursday December 2nd, 9:30 – 10:45 am in Kyle Hall 340

Barbie Advertising Strategy

Macie Rice
Faculty Mentor(s): Jane Machin

Oreo Advertising Strategy

Dylan Smith
Faculty Mentor(s): Jane Machin

Converse Advertising Strategy

Erica Tickle
Faculty Mentor(s): Jane Machin

Spotify Advertising Strategy

Natalie Welsh
Faculty Mentor(s): Jane Machin

Staples Advertising Strategy

Logan Woodle
Faculty Mentor(s): Jane Machin

Coke Zero Advertising Strategy

Carla Risser
Faculty Mentor(s): Jane Machin

Free People Advertising Strategy

Cameron Sowers
Faculty Mentor(s): Jane Machin

Shein Advertising Strategy

Eleni Tufa
Faculty Mentor(s): Jane Machin

Sabra Advertising Strategy

Sara Werthmann
Faculty Mentor(s): Jane Machin

CSI Radford: Conducting a Criminal Investigation

Corey Jones
Jack Rice
Noah Pye
Faculty Mentor(s): Eric Snow

Devan Rowe
James Denfeld
Rachel Silverman

Gladys Addo
John Margraf
Tori Pate

Hailey Kirk
Matthew Powell

Following the Evidence

Audae Dudley
Finley Miers
Michelle Gonzalez
Faculty Mentor(s): Eric Snow

Cailin Johnson
Jaida Rose
Mohamed Elroumy

Caroline Thompson
Kiara Harrison
Myka Reed

Emilee Hasenbeck
Kiersten Dodson
Preston Martin



Winter CARD Poster Session 4
Thursday December 2nd, 11:00 – 12:15 pm in Kyle Hall 340

The Color Behind Bars: Racial Analysis of Federal Sentencing

Myka Reed Nicole Odvina Ethan Reynolds Noah Scherer
 Faculty Mentor(s): Maggie Pate

How Does the Use of Illicit Drugs Affect Crime in Rural and Urban Areas?

Desirae Booth Will Wilkinson Madi Cummins Michael Weir
 Faculty Mentor(s): Maggie Pate

Every Serial Killer Has a Past: The Impact of Trauma and Abuse

Cade Fisher Tori Roggenbuch Debbie Scott
 Faculty Mentor(s): Maggie Pate

Disparities in Opinions on Gun Control

Ethan Humphrey Nathan Howell
 Faculty Mentor(s): Maggie Pate

Effectiveness of Juvenile Rehabilitation

Rachel Silverman Vladimir Perez Shalease Snead Beekengsa Ngu
 Faculty Mentor(s): Maggie Pate

The Impacts of Age, Race, and Gender on Criminality

Liam Kerley Matthew Nasatka Samantha Huffman Tatiyanna Harper
 Faculty Mentor(s): Maggie Pate

The Effect Of Rehabilitation Programs On Recidivism In U.S Prisons.

Brandon Saunders Nick Townsend Carter Noell Karson Hawkins
 Faculty Mentor(s): Maggie Pate

Mass Shootings and Locations

Kyle Cardenas
 Faculty Mentor(s): Maggie Pate

Dangerous Neighborhoods

Alexandrea Herrera
 Faculty Mentor(s): Maggie Pate

What Was Left in Grandma’s Will

Ian O'Donoghue
 Faculty Mentor(s): Rebecca Dias

Bright Life

Marlet Castillo
 Faculty Mentor(s): Rebecca Dias

Searching for Answers: Completing a Mock Investigation

Anderson Deleon Vasquez	Bryce Owens	Caleb Randall	Erika Meadows
Evan Masson	Jessica Geppert	Kate May	Matt Domin
Meg Stephens	Morgan Blank	Noah Dempsey	Spencer Hyland
Tanner Oakley			

Faculty Mentor(s): Eric Snow





Winter CARD Poster Session 4
Thursday December 2nd, 11:00 – 12:15 pm in Kyle Hall 340

It's Not Like TV: Criminal Investigations

Aurora Carle

Ayden Kyle

Christopher Deshazo

Cole Lambert

Daniel Graves

Darcy Caba

Emily Westhausen

Jacob Cornelius

Pasha Findley

Reed Boschen

Taylor Jamison

Vanessa Garcia

Faculty Mentor(s): Eric Snow

Scientific Literature Search: Health

Ayeyi Annan

Arvid Rutledge Josiah Gooding

Faculty Mentor(s): Tara Pelletier

Gene Annotation of the Insulin Signaling Pathway in *Drosophila biarmipes*

Maya Banks

Faculty Mentor(s): Tara Pelletier

Police Misconduct and The Likelihood of Fellow Officers to Report Misconduct

Valente Perez III

Faculty Mentor(s): Maggie Pate

Coping Through Mass Shooting: The Effects Of Strain On Mass Shootings.

Taylor Hover

Faculty Mentor(s): Maggie Pate

Evaluation of Police Officer Demographics Regarding The Use of Physical Force

Trey Bussey

Faculty Mentor(s): Maggie Pate

The Impact of Education on the Likelihood to Report Elder Abuse

Kathleen Stiltner

Faculty Mentor(s): Maggie Pate

The Effect of Household Instability on the Onset of Criminal Offending

Megan Graybill

Faculty Mentor(s): Maggie Pate

The Effects of Community Policing on Police Officers

Allen Minnick

Faculty Mentor(s): Maggie Pate

Ask John: The Effect of Johns' Aggression Levels and Opinion of Woman on their Want for Prostitution to be Legalized or Decriminalized

Jessica Wileman

Faculty Mentor(s): Maggie Pate

Winter CARD Poster Session 5
Thursday December 2nd, 2:00 – 3:15 pm in Kyle Hall 340

Using Design Thinking to Increase Enrollment in AMHI

Libby Bowman Destynie Davis Ally Flege Tyler Hull Linley Tirrell
Faculty Mentor(s): Jane Machin

Using Design Thinking to Improve CPS Effectiveness

Jackson Hunter Jake Miller
Faculty Mentor(s): Jane Machin

Using Design Thinking to Solve Climate Change

Kamajh Crockett Kyle Galloway Nicholas Ortiz Mike Reda Carter Tyler
Jordan Watkins Davo Young
Faculty Mentor(s): Jane Machin

Using Design Thinking to Reduce Consumption Waste

Christian Allen Carter Campbell Kendall Dollarton Joe Kuppich
Faculty Mentor(s): Jane Machin

Using Design Thinking to Help Eating Disorders

Rachel Garrison Addison Howard Kimani Smith
Faculty Mentor(s): Jane Machin

Using Design Thinking to Student Retention

Roger Basham Evan Blakey Devan Templeton Kyle Williams
Faculty Mentor(s): Jane Machin

Using Design Thinking to Improve Parenting Effectiveness

Niki Burkhart Sammie Judis Kayla Mosby Te'ana Schmitt
Faculty Mentor(s): Jane Machin

Using Design Thinking to Improve Foster Care System

Elizabeth Fontana Scarlet Sage
Faculty Mentor(s): Jane Machin

Using Design Thinking to Reduce Gender and Race Equality

Najah Goodson Dee Lewis
Faculty Mentor(s): Jane Machin

Using Design Thinking to Design A Greener Environment

William Atkinson Connor Houston Sarah Jarrell Alejandro Ruvalcaba
Faculty Mentor(s): Jane Machin

Using Design Thinking to Change Perceptions about Marijuana

Anthony Dildy Jasmine Drummond Xavier Zay Prescott Caleb Salmon
Faculty Mentor(s): Jane Machin

Winter CARD Poster Session 5
Thursday December 2nd, 2:00 – 3:15 pm in Kyle Hall 340

Using Design Thinking to Improve Mental and Physical Health in Sports

Thomas Allen Joey Barron Patrick Burns
Faculty Mentor(s): Jane Machin

Using Design Thinking to Improve Mental Health in College Students

Dylan Deavers Nate Hayes Emily Hirshorn Nathan Loving
Faculty Mentor(s): Jane Machin

Using Design Thinking to Improve Mental Health in College Students

Hallie Garrison Jillian Maas Karis Malik Kylie Thomas
Faculty Mentor(s): Jane Machin

Using Design Thinking to Innovate with Music for Mental Health

Daniel Gahafer Meghan Kozak Thomas York
Faculty Mentor(s): Jane Machin

Using Design Thinking to Reduce Pollution

Travis Battle Sydney Braham Brandon Buchanan Will Jones Ben Vess
Faculty Mentor(s): Jane Machin

Using Design Thinking to Reduce Pollution

Carter Branch Clay Guilliams Tyler Haynes
Faculty Mentor(s): Jane Machin

Using Design Thinking to Reduce Racial Inequalities

Kayla Brown Amber Ross Gianni Tingle
Faculty Mentor(s): Jane Machin

Using Design Thinking to Reduce River Pollution

Madison Durham Kat Owens Astrid Uriostegui
Faculty Mentor(s): Jane Machin

Using Design Thinking to Develop Healthier Drinking Habits

Brooke Dedekind Colin Farrell Abby Hawkins Kaysee Mennell
Faculty Mentor(s): Jane Machin

Using Design Thinking to Develop Healthier Drinking Habits

Coleman Morgan Haylee Porras
Faculty Mentor(s): Jane Machin

Using Design Thinking to Develop Healthier Drinking Habits

Reid Londeree Tyler Tinder
Faculty Mentor(s): Jane Machin



Winter CARD Poster Session 5
Thursday December 2nd, 2:00 – 3:15 pm in Kyle Hall 340

Using Design Thinking to Reduce Social Media Toxicity

Lizzie Chiesa Bryson Dansberry Tytianna Roberts

Faculty Mentor(s): Jane Machin

Using Design Thinking to Reduce Violence on Campus

George Bahi Courdae Gravely Max Henry Emily Pavey

Faculty Mentor(s): Jane Machin

Using Design Thinking to Develop Healthier Drinking Habits

George Rucker Dylan Soles

Faculty Mentor(s): Jane Machin

Using Design Thinking to Develop Healthier Drinking Habits

Alex Alderton Spencer Brinkley Jack Burch Mason Childress

Ray Smith

Faculty Mentor(s): Jane Machin

Using Design Thinking to Reduce Student Homelessness

Isaiah Joyner Connor Knights

Faculty Mentor(s): Jane Machin

Using Design Thinking to Reduce Social Media Toxicity

Rachel Doyle Arie Goard Rachel Musser Eleni Tufa

Faculty Mentor(s): Jane Machin

Using Design Thinking to Improve Mental Health in College Students

Emrick Emrick Gracie Morse Reese Myers Justin Snyder

Faculty Mentor(s): Jane Machin

Using Design Thinking to Develop Healthier Drinking Habits

Nathaniel Feagans Ayden Franco Morgan Kleene Nick Pearson George Rebh

Faculty Mentor(s): Jane Machin

Using Design Thinking to Reduce Violence on Campus

Lydia Burke Hunter Lee Vaniece Smith

Faculty Mentor(s): Jane Machin



Winter CARD Poster Session 6
Thursday December 2nd, 3:30 – 4:45 pm in Kyle Hall 340

Comparing Sugar Maple (*Acer saccharum*) Leaf and Stem Biomass Among Three Locations, Radford City

Ray Pryor Ayeyi Annan

Faculty Mentor(s): Jamie Lau

Metabarcoding for Assessment of Biodiversity Before a Severe Human Impact

Steven Busser

Faculty Mentor(s): Tara Pelletier

Identifying *Plethodon wehrlei* Species Using dCAPS Technique

Cassandra Hash

Faculty Mentor(s): Robert Sheehy

Conservation of an At-Risk Medicinal Forest Herb: Sustainable Harvest and Propagation of Goldenseal in Appalachian Forests

Elise Simmons Mark Passeretti Luc White Patrick McKenney

Faculty Mentor(s): Christine Small

Effects of the Invasive Emerald Ash Borer on Forest Health in Southwest Virginia

Elise Simmons Mark Passeretti Luc White Patrick McKenney

Faculty Mentor(s): Christine Small

Is the Neutral Zone Really Neutral? Gang Activity in Schools

Kevin Bruce

Faculty Mentor(s): Eric Snow

Family Violence Victims

Alexis Ganser

Faculty Mentor(s): Eric Snow

Incarceration and Race

Nevada Ghiringhelli

Faculty Mentor(s): Eric Snow

State Policy on Abortion

Celeste Herring

Faculty Mentor(s): Eric Snow

Police CIT and Medical Training

Connor Knights

Faculty Mentor(s): Eric Snow

History and Rise of Motor Vehicle Theft

Cole Lambert

Faculty Mentor(s): Eric Snow

Medical Care in Prison During COVID-19

Debbie Scott

Faculty Mentor(s): Eric Snow



Winter CARD Poster Session 6

Thursday December 2nd, 3:30 – 4:45 pm in Kyle Hall 340

Illegal Search and Seizures

Shantiyanna Simmons
Faculty Mentor(s): Eric Snow

Mentally Ill within the Prison System

Michael Wolfe
Faculty Mentor(s): Eric Snow

Drug Courts

Ashley Campos
Faculty Mentor(s): Eric Snow

Protection of Correctional Officers

Arizona Sullivan
Faculty Mentor(s): Eric Snow

SWAT Policy on Training and Field Procedure

Rex Diaz
Faculty Mentor(s): Eric Snow

Scientific Literature Search: Organisms

Kayla Scott Gabriel Tieskotter Maddie Martin
Faculty Mentor(s): Tara Pelletier

Creative Research: The Journey of a Choreographic Piece

Mailey Paupore
Faculty Mentor(s): James Robey

Research and Inquiry in Movement: A Choreographic Study

Sarah Kadel
Faculty Mentor(s): James Robey

Prosecutorial Discretion: The Abuse of Power

Noah Simmons
Faculty Mentor(s): Eric Snow

Implementing A New K9 Policy For Virginia Police

Rachel Bell
Faculty Mentor(s): Eric Snow

Disaster Response: E.R.I.S. (Emergency Response Information System)

Angie Giuffre
Faculty Mentor(s): Eric Snow


Mental Health in the Criminal Justice System

Jordan Dameron
Faculty Mentor(s): Eric Snow

Human Trafficking

Pavel Findley
Faculty Mentor(s): Eric Snow





Winter CARD Lightning Research Competition
Thursday December 2nd, 6:30 – 7:30 pm in Center for the Sciences M073

What Is Code Switching and Why Do People Do It?

Michael Alford

Faculty Mentor(s): Megan Elder-Taylor

Bee Taxonomy Utilizing Family and Genus Level Keys

Lily Bishop

Faculty Mentor(s): Chett Bahatta

Sex and Gender Estimation in Forensic Anthropology and the Identification of Transgender Individuals

Dakota Taylor

Faculty Mentor(s): Donna Boyd

A Mixed Methods Multidisciplinary Examination of Diversity in Education

Montasia Braxton

Faculty Mentor(s): Twange Kasoma

Antibiotics: Can We Make Them Less Of A Threat?

Benjamin Dearborn

Faculty Mentor(s): Sarah Kennedy

Conservation of an At-Risk Medicinal Forest Herb: Sustainable Harvest and Propagation of Goldenseal in Appalachian Forests

Luc White

Faculty Mentor(s): Christine Small

Dendrochronology in Southwest Virginia

Nicholas Francis

Faculty Mentor(s): Stockton Maxwell



Virtual Sociology Session 1

Wednesday December 1st, 10:00 – 10:50 am

Zoom Meeting ID: 971 5948 6618

Password: WinterCARD

Taste the Rainbow: A Look into the Not So Pretty Parts of the LGBTQ+ Community

Sheridan Dean Ruth Payne

Faculty Mentor(s): Aysha Bodenhamer

Marijuana And Mass Incarceration

Ursula Turner Oak Bradshaw Alexis Johnson

Faculty Mentor(s): Aysha Bodenhamer

Virtual Biology Session 1

Wednesday December 1st, 11:00 – 11:50 am

Zoom Meeting ID: 917 7483 9753

Password: WinterCARD

Public Perceptions on Bees and Their Conservation

Savannah Allison Jordan Bowden Madeline Guerra Peyton Rader
Sydney Vinson Glenda Zavala

Faculty Mentor(s): Chet Bhatta

Diversity of Pollen Yields Between Native *Apis Cerana* and Exotic *Apis Mellifera*

Troy Stallard Sofia Stallard Trerese Roberts Brandy Thacker
Lauren French

Faculty Mentor(s): Chet Bhatta

Fundamentals and Matrilineage of Honeybees From Nepal

Christopher Blankenship James Stevens Kaung Lin Hunter Rogers
Graham Grasty

Faculty Mentor(s): Chet Bhatta

Exploring Bee Taxonomy Utilizing Family and Genus Level Keys

Lily Bishop Lauren Croiser Serenity Coggins Aminata Yarmah

Faculty Mentor(s): Chet Bhatta





Virtual School of Communication Session 1

Wednesday December 1st, 12:00 – 12:50 pm

Zoom Meeting ID: 983 1904 6499

Password: WinterCARD

Representation of Asian Americans and Pacific Islanders in Media: A Content Analysis

Noelle Agcaoili

Faculty Mentor(s): Leigh Anne Kelley John Brummette

How Gender Roles are Displayed in the TV Show "New Girl"

Emily Brandt

Faculty Mentor(s): Leigh Anne Kelley

Harassment in the Workplace: Reality vs. Media Representation

Isaac Buruca

Faculty Mentor(s): Leigh Anne Kelley

ESPN College Football Broadcasts: A Content Analysis

Mason Collins

Faculty Mentor(s): Leigh Anne Kelley

Is Rap Music Actually Violent?

Najee Simons

Faculty Mentor(s): Leigh Anne Kelley

Content Analysis of Video Game Violence and Its Increase in Popularity of All Ages

Bradley Grainer

Faculty Mentor(s): Leigh Anne Kelley

Virtual School of Communication Session 2

Wednesday December 1st, 1:00 – 1:50 pm

Zoom Meeting ID: 983 1904 6499

Password: WinterCARD

Violence in "Peaky Blinders": A Content Analysis

James Arnold

Faculty Mentor(s): Leigh Anne Kelley

Money Mentioned in 'Squid Games': A Content Analysis

Shawn Banks

Faculty Mentor(s): Leigh Anne Kelley

Leadership Styles in "Band Of Brothers": A Content Analysis

Jesse Kimrey

Faculty Mentor(s): Leigh Anne Kelley

Visual Content Analysis Of Bestselling Hip-Hop Album Covers

Cameron McClaine

Faculty Mentor(s): Leigh Anne Kelley

Violence In David Dobrik Videos: A Content Analysis

Dabney Ward

Faculty Mentor(s): Leigh Anne Kelley

Virtual School of Communication Session 3

Wednesday December 1st, 2:00 – 2:50 pm

Zoom Meeting ID: 983 1904 6499

Password: WinterCARD

Sexism In The Rick And Morty Television Series: A Content Analysis

Montana Blum

Faculty Mentor(s): Leigh Anne Kelley

TikTok's on the Clock: An Analysis of TikTok's Impact on the Music Industry

Christian Millsaps

Faculty Mentor(s): Leigh Anne Kelley

The Rise and Fall of Justin Bieber: A Content Analysis

Carolyn Palmer

Faculty Mentor(s): Leigh Anne Kelley

Lyrical and Stylistic Crossover: An Empirical Comparison of Rap and Hip Hop Music

Alana Peyton

Faculty Mentor(s): John Brummette Leigh Anne Kelley

News Coverage on ABC World News

Maevyn Jones

Faculty Mentor(s): Leigh Anne Kelley

Swear Words in Animated Sitcoms

Lydia Michaud

Faculty Mentor(s): Leigh Anne Kelley

Virtual Sociology Session 2

Wednesday December 1st, 4:00 – 4:50 pm

Zoom Meeting ID: 971 5948 6618

Password: WinterCARD

Black Lives Matter

Michaela Dalton

Kelcie Lemons

Campbell Howard

Takiyah Campbell

Kamron Goldsmith

Faculty Mentor(s): Aysha Bodenhamer

How Does Raising the Minimum Wage Affect Employment?

Noah Kennedy

Alejo Cobos

Mya Thomas-Ordonez

Cael Laylock

Faculty Mentor(s): Aysha Bodenhamer

The Misfortune of United States Healthcare

Molly O'Brien

Naomi Banya

Jamia Pegues

Kaitlyn Morris

Faculty Mentor(s): Aysha Bodenhamer

Asian Hate Crimes in America

Mitchel Hamm

Jade White

JC Callahan

Addison Hillyard

Faculty Mentor(s): Aysha Bodenhamer

The Effects Of Religion On Politics

Brice Sallade

Chris Ammerman

Delgado Hicks

Hannah Craft

Faculty Mentor(s): Aysha Bodenhamer



Virtual Multidisciplinary Session 1

Thursday December 2nd, 9:30 am – 10:45 am

Zoom Meeting ID: 921 0916 1490 Password: WinterCARD

The Effect of Growth Medium Sulfate Concentration on the Health and Nutritional Value of Kale Plants

Binuk Samarasinghe Sydney Eubank Karol Falu-Ramos Rosette Nsoumbi Peyton Rader
Trerese Roberts Brandy Yarmah

Faculty Mentor(s): Mark Frazier

Managing Made Easier

Michaela Jarrett

Faculty Mentor(s): Hwajung Lee

A Mixed Methods Multidisciplinary Examination of Diversity in Education

Montasia Braxton

Faculty Mentor(s): Twange Kasoma

The Vitality and Necessity of Local Museums

Grace Atallah

Faculty Mentor(s): Carlee Bradbury

Virtual Citizen Leader Session

Thursday December 2nd, 4:00 – 4:50 pm

Zoom Meeting ID: 987 1044 4432 Password: WinterCARD

Citizen Leader students learn to Connect – Engage – Lead by completing coursework, attend events on campus, participate in community activities, and dive deeper with an immersive experience. In this forum you will hear from our student, Brie Flanagan, as she shares her personal journey to become an effective Radford University Citizen Leader.

The Pillars of Brie: Supporting Her Community

Brie Flanagan

Faculty Mentor(s): Jean Mistele Pam Frasier





Virtual Sociology Session 3

Friday December 3rd, 10:00 – 10:50 am

Zoom Meeting ID: 971 5948 6618

Password: WinterCARD

Mental Health And The Black Community

Dylan Thompson

Davonte Mosley

Javonte Walker

Jessica Rose

Faculty Mentor(s): Aysha Bodenhamer

Abortion Through God's Eyes

Peyton Hurd

Cali Jacobs

Logan Sheeran

Faculty Mentor(s): Aysha Bodenhamer

Virtual Sociology Session 4

Friday December 3rd, 4:00 – 4:50 pm

Zoom Meeting ID: 971 5948 6618

Password: WinterCARD

Gun Control in the United States

Gardner Branscom

Diana McDavis

Courdae Gravely

Faculty Mentor(s): Aysha Bodenhamer

Cults and Their Impact on the Community

Caroline Frink

Alexandra Moreno

Caitlin Smith

Justin Barnard

Faculty Mentor(s): Aysha Bodenhamer

Abortion Access

Brett Surface

Destynee Spruill

Nakari Terry

Pauline Bonner

Faculty Mentor(s): Aysha Bodenhamer

Stereotypes With the LGBTQ+ Community

Manae Gray

Shaniyah Boothe

Chase Underwood

Eden Marquis

Emma Varnier

Faculty Mentor(s): Aysha Bodenhamer





Notes:



See you next year!

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