



PRESBYTERIAN COLLEGE

college of arts and sciences | school of pharmacy | school of health professions

HONORS DAY SYMPOSIUM

2026



Honors Day Program on April 9, 2026

**Panel numbers are not indicative of chronological order*

Panel 1: Data Analytics

8:30am-9:45am Chapman Center

Moderator: Dr. Rachel Childers

Short-Term Electricity Demand Forecasting at the Substation Level

15-minute Capstone Presentation

Presenter: Cade Lewis (starts at 8:30 am)

Do consumers in developed and developing countries exhibit different spending adjustment patterns during periods of inflation?

15-minute Capstone Presentation

Presenter: Eaint Kyal Syn Lynn (starts at 8:45 am)

Turnover Margin and Offensive Performance: An Analysis of the Cincinnati Bengals (2021–2024)

15-minute Capstone Presentation

Presenter: Alexis Morgan Fornshell (starts at 9:00 am)

Forecasting Financial Markets: A Comparative Study of Machine Learning and Statistical Models

15-minute Capstone Presentation

Presenter: Denim Yadav (starts at 9:15 am)

The Power of Home Turf: A Data-Driven Study of Home Advantage in the Premier League

15-minute Capstone Presentation

Presenter: Lina Mueller (starts at 9:30 am)

Panel 2: Biology - Molecular and Multi-Omics Insights into Breast Cancer

8:30am-10:00am in Richardson 116

Moderator: Dr. Austin Shull

Comparing Breast Cancer Subtypes in African American and European American Patients Using TCGA

30-minute Departmental Honors Presentation

Presenter: Natalie Anne Paxton (starts at 8:30am)

Multiomics of Triple Negative Breast Cancer

30-minute Departmental Honors Presentation

Presenter: Margaret Victoria Leonard (starts at 9:00am)

Histone H3K14 Acetylation in EMT-Driven Breast Cancer Progression

30-minute Departmental Honors Presentation

Presenter: Ella Grace Williams (starts at 9:30am)

Panel 3: Physics - Engineering Design and Sustainable Infrastructure

9:00am-10:55pm in Neville 122

Moderators: Dr. Frances Cashman and Dr. Eli Owens

Clinton Hall: A Comprehensive Interior Renovation

15-minute Presentation

Presenter: Keith Phillip Elmore (starts at 9:00am)

Renovation and Modernization of One Presbyterian College's Oldest Residence Hall

15-minute Presentation

Presenter: Lawton Anthony Cox (starts at 9:15am)

Powering Bailey Memorial Stadium and Practice Fields Using Dual-Axis Solar Tracking Photovoltaic Systems

15-minute Presentation

Presenter: Mackenzie Aaron Mikko (starts at 9:30am)

10-min break

Nuclearization of Indiana's Electric Grid

15-minute Presentation

Presenter: Joshua James Martin Henderson (starts at 9:55am)

Reducing Nuclear Waste Through Advanced Fuel Cycles

15-minute Presentation

Presenter: Ryan Patrick-Edward Sullivan (starts at 10:10am)

Characterizing Complex M: A High-Velocity Cloud in the Milky Way Halo

30-minute Departmental Honors Presentation

Presenter: Constantine Alexander Gandis (starts at 10:25am)

Panel 4: Computer Science - Technology-Enhanced Learning with HBot

9:00am-11:15am HP 209

Moderator: Dr. Olivia Nche

Using Wildlife Wonder to Teach About Lesser-Known Animals

15-minute Presentation

Presenter: Harryson Jacob Rogers Lott (starts at 9am)

Using HBot to Teach French Cuisine

15-minute Presentation

Presenter: Morvens Saint Jean (starts at 9:15am)

Using HBot to Teach the Alphabet

15-minute Presentation

Presenter: Marcel Jamari Wood (starts at 9:30am)

15-minute break

Using HBot to Teach Types and Operators
15-minute Presentation
Presenter: Eaint Kyal Syn Lynn (starts at 10am)

Using HBot to Teach Loops
15-minute Presentation
Presenter: Carlos Gabriel Mercado Jimenez (starts at 10:15am)

15-minute break

Using HBot to Teach Security Concepts
15-minute Presentation
Presenters: Denim Yadav and Chale Yvette Mccalpin (starts at 10:45am)

How AI Affects Education
15-minute Presentation
Presenter: Liliana Weathers (starts at 11am)

Panel 5: Political Science

9:00am-9:30am HP Amphitheater

Moderator: Dr. Ben Bailey

How Do Pro-Israel Lobbying Organizations Influence U.S. Electoral Outcomes and Policy Decisions through Campaign Contributions and Lobbying Expenditures?
30-minute Departmental Honors Presentation
Presenter: George Robert Hopkins (starts at 9am)

Panel 6: English

9:00am-11:40am in Neville 121

Moderator: Dr. Lynne Simpson

The Art of the Female Gothic
30-minute Honors Presentation
Presenter: Rebekah Archer (starts at 9am)

Austen's Emma: Practically Perfect - Mr. Knightley and the Misters Wrong
20-minute Capstone Presentation
Presenter: Isabel Lasota, (starts at 9:30am)

The Cage of Filial Love
15-minute Presentation
Presenter: Madelyn Wilkie (starts at 10am)

A Forbidden, Forgotten Courtship
15-minute Presentation
Presenter: Lauren Hobson (starts at 10:20am)

20-minute break

Emma Woodhouse: Early Feminist Icon?

15-minute Presentation

Presenter: Cree Augustine (starts at 11:00am)

Marriage in Emma

15-minute Presentation

Presenter: Maggie Shavo (starts at 11:20am)

Panel 7: History

9:30am-3:00pm in Neville 102 Kuhne Auditorium

Moderator: Dr. Rick Heiser

The Role of Propaganda in Shaping Public Perception of the Crusades

30-minute Departmental Capstone Presentation

Presenter: Cree Augustine (starts at 9:30am)

Religion's Role in the Crusader's Life

30-minute Departmental Capstone Presentation

Presenter: Brian William Coyle (starts at 10:00am)

The Effects on Public Perception toward the Sixth Crusade Due to Frederick II's Status as an Excommunicant

30-minute Departmental Capstone Presentation

Presenter: Grace Elizabeth Culbreath (starts at 10:30am)

The Effects of the Crusades on the Political Middle East from 1095 to the Career of Saladin

30-minute Departmental Capstone Presentation

Presenter: Hannah Lee Hamilton (starts at 11:00am)

PAT Lunch (11:30-1:30pm)

Seeing Saladin through Arabic and Latin Eyes

30-minute Departmental Capstone Presentation

Presenter: Austin Skoog (starts at 1:30pm)

Crusader Motivations

30-minute Departmental Capstone Presentation

Presenter: Carter Szydowski (starts at 2pm)

Building an Empire: United Fruit Company's Habitual Influence Over Politics, Infrastructure, and Labor in Panama and Costa Rica, 1910s-1950s

30-minute Departmental Honors Presentation

Presenter: Madelyn Lauren Wilkie (starts at 2:30pm)

Supervisor: Dr. Jackie Sumner

Panel 8: Education Capstone Presentations

9:30-10:00am HP Amphitheater

Moderator: Dr. Julia Wilkins

Teacher Perceptions of the Influence of High-Stakes Testing in 3rd Grade

15-minute Capstone Presentation

Presenter: Emily Rhea Brown (starts at 9:30 am)

Parental Involvement in Children's Early Learning

15-minute Capstone Presentation

Presenter: Victoria Elizabeth Smith (starts at 9:45 am)

Panel 9: Economics and Business Administration

10:00am-11:45am Chapman Center

Moderator: Dr. Rachel Childers

Revenue Sharing: Mid-major Schools

15-minute Capstone Presentation

Presenter: Emma Claire Mills (starts at 10:00 am)

An Analysis of Life Expectancy Trends in Developed and Developing Countries

15-minute Capstone Presentation

Presenter: Yadav Denim (starts at 10:15 am)

ROI between Universities and Libraries Colleges

15-minute Capstone Presentation

Presenter: Ryan W. Luna (starts at 10:30 am)

Patient-Centered Ethics in the Pharmaceutical Industry

30-minute Honors Presentation

Presenter: Blair Elizabeth Darby (starts at 10:45 am)

Fraud Analysis of The Holy See

30-minute Honors Presentation

Presenter: Peter Edmond Lipscombe (starts at 11:15 am)

Panel 10: Education, Business, Public Health, Occupational Therapy Posters

10:00-11:00am HP Lobby

Academic Benefits of Game-Based Apps for Elementary Students

Education Poster Presenter: Alexandra Polinario

Teachers' Perspectives of Assistive Technology Use for Students with Dyslexia

Education Poster Presenter: Caroline Emily Murphy

Revenue, Debt, and Wins: An Analysis of Financial Impact on MLB Team Success

Business Poster Presenter: Ashley Elizabeth McAtee

Examining Health Equity in the World Health Organization's Global Influenza Surveillance System

Public Health Program Poster Presenters: Yasmeen Rasasi, Niy'Asha Myers, Andrew Hayes

A Preventative Approach for Geriatric Healthcare in Occupational Therapy

Occupational Therapy Doctoral Program Poster Presenter: Grace Danielle Durham

Occupational Deprivation in the Correctional System: How Occupational Therapists Can Support Through Rehabilitation

Occupational Therapy Doctoral Program Poster Presenter: Ivy Brooke Veneziano

Panel 11: Biology - Microbial Genomics and Computational Biology

10:10am-12:10pm in Richardson 116

Moderator: Dr. Stuart Gordon

*The Effects of Salinity on the Gut Microbiome of Mummichog (*Fundulus heteroclitus*)*

30-minute Departmental Honors Presentation

Presenter: Reece Maclain Bradberry (starts at 10:10am)

Comparative Metagenomic Profiling of Killifish Gut Microbiome Using Illumina and Oxford Nanopore Sequencing Across Salinity Gradients

30-minute Departmental Honors Presentation

Presenter: Elyse Isabella Hutchinson (starts at 10:40am)

*Characterization of Mutation in *Acidovorax avenae**

30-minute Departmental Honors Presentation

Presenter: Maggie Elizabeth Jones (starts at 11:10am)

A Study of the Effect of the N185D Mutation in NPC1 on Cholesterol Transport, and the Development of a New Algorithm (OrthoNet): a Self-Correcting Graph Algorithm to Select Orthologous Sequences from a List of Homologs to Improve the Prediction of Mutation Pathogenicity

30-minute Departmental Honors Presentation

Presenter: Bethany Elaine McManus (starts at 11:40am)

Panel 12: Psychology Departmental Honors Presentation

10:30-11:00am HP Amphitheater

Moderator: Dr. Sarah Burns

Measuring Stress Due to Recently Changing Reproductive Policies in the United States

30-Minute Departmental Honors Presentation

Presenter: Hallie Ann Cohen (starts at 10:30am)

Panel 13: Physics - Advanced Materials and Engineering Innovation

11:05am-11:35am in Neville 122

Moderator: Dr. Clay Wright

Development of an Electrochemical Cell for Studying the Nucleation and Growth of Metals on 2D Materials using In Situ Optical Microscopy

15-minute Presentation

Presenter: Jaden Johani Garrett Holder (starts at 11:05am)

A Soft Robotic, Prosthetic Gripper Utilizing Magneto-Granular Materials

15-minute Presentation

Presenter: Hunter Drake Satterfield (starts at 11:20am)

Panel 14: Biology, Chemistry, Biochemistry, Physics Poster Presentation

11:35am-1:00pm in front of Richardson 116

Transforming Smartphones into High Resolution Microscopic Tools

Presenter: Phillip Rankin Byrd

A Biomechanical Analysis of the Human Punch

Presenters: Ayden Wayne Rudder, Gage Eugene Hatcher

Physiological Effects of Depressants and Stimulants on the Developing Chick Heart

Presenters: Oayton Brook Duncan, Gracie Elizabeth DeCuir

The Effect of Estrogen on Tendons and Ligaments

Presenter: Lindsey Marie Malyszek

The Effects of Testosterone on Tendon and Ligament Histology

Presenter: Jasper Alonzo Powell

Structure-CO release rate relationship of ROS-activated carbon monoxide donors for targeted delivery

Presenter: Antonio Alexander Davis

Molecular Dynamics Simulation of a Putative Transmembrane Anti-Sigma Factor from Paracidovorax Avenae ATCC 19860

Presenter: Jennifer Godinez Perez

Crystallographic Control of Au Nanoparticles Electrodeposited on 2D Materials for Detection of Ascorbic Acid and Dopamine

Presenter: Christopher Gallegos

Tardigrades or "Water Bears" as Potential Environmental pH Indicators

Presenter: Morgan Isabella Perez

Panel 15: Outstanding Internships

12:00pm-1:00pm in Neville Rotunda

Moderator: Ms. Lynn Downie

IEP Development Intern

Presenter: Taylor (Reesie) Beckner

Tax Accounting Intern

Presenter: Emma Erwin

Clinical Therapy Intern

Presenter: Shymia Hardy

Customer Service Process Improvement Intern

Presenter: Eaint Kyal Syn Lynn

Organizational History Research Intern

Presenter: Stacy Puckett

Marketing Intern

Presenter: Isis Trapp

Panel 16: Biology - Structural and Regenerative Biology

1:00-pm-2:15pm in Richardson 116

Moderator: Dr. Jim Wetzel

Glenohumeral Joint Biomechanics

15-minute Departmental Presentation

Presenter: Anna Corena Ruiz (starts at 1:00pm)

Osteogenesis of Horn and Antler

30-minute Honors Departmental Presentation

Presenter: Annabeth Katherine Adams (starts at 1:15pm)

Nerve-Induced Regeneration in Lumbriculus variegatus and Dugesia dorotocephala

30-minute Departmental Honors Presentation

Presenter: Shelley Christine Ricks (starts at 1:45pm)

Panel 17: Chemistry - Chemical and Biophysical Characterization of Materials

1:00pm-3:05pm in Neville 122

Moderators: Dr. Kimberly De La Cruz, Dr. Latha Gearheart

Model System for Phase Changes

30-minute Departmental Honors Presentation

Presenter: Veby Nagi Youssef (starts at 1:00pm)

Surfaced-Enhanced Raman Spectroscopy (SERS) of Rhodamine B on Gold Nanoparticles

30-minute Departmental Honors Presentation

Presenter: Autumn Devadney Channer (starts at 1:30pm)

Displacement-Based and De Novo Construction Approaches for Fluorescent Carbon Monoxide Detection and Monitoring

30-minute Departmental Honors Presentation

Presenter: Lasha A Facey (starts at 2:05pm)

Residue-Level Contribution of Elastin and Collagen in the Vocal Folds

30-minute Departmental Honors Presentation

Presenter: Riley McKenna Deadwyler (starts at 2:35pm)

Panel 18: Economics and Business Administration Honors Presentations

1:30pm-2:30pm Chapman Center

Moderator: Dr. Rachel Childers

Economic Impact of Presbyterian College on Laurens County

30-minute Departmental Honors Presentation

Presenter: Emma Lewis Erwin (starts at 1:30pm)

The Contract Effect: Why NHL Players Perform Differently When Money Is on the Line

30-minute Departmental Honors Presentation

Presenter: Vanessa Palisin (starts at 2:00pm)

Panel 19: Spanish and Religion

2:00pm-3:00pm in Neville 322

Moderator: Dr. Sharon Knight

Cultural and Linguistic Fusion in al-Andalus: An Interdisciplinary Study of the Muwashshah and Jarcha

30-minute Departmental Honors Presentation

Presenter: Lydia Usama Awadalla (starts at 2pm)

Heridas que Enseñan: Cómo el Pok-a-tok Moldeó la Medicina Maya

15-minute Presentation

Presenter: Brooklyn Shepard-Wheelon (starts at 2:30pm)

The Spoke in the Wheel: Lessons from Bonhoeffer

15-minute Presentation

Presenter: Jonathan Warner Bush (starts at 2:45pm)

Panel 20: English/Creative Writing

2:00pm-3:00pm in Neville 121

Moderator: Professor Robert Stutts

Creative Writing: Senior Portfolio

15-minute Presentation

Presenter: Lauren Hobson (starts at 2:00pm)

Creative Writing: Senior Portfolio

15-minute Presentation

Presenter: Matthew Thomas Nelson (starts at 2:15pm)

Creative Writing: Senior Portfolio

15-minute Presentation

Presenter: Eris Wilson (starts at 2:30pm)

Creative Writing: Senior Portfolio

15-minute Presentation

Presenter: Annabeth Katherine Adams (starts at 2:45pm)

Panel 21: Biology - Ecosystems Past and Present

2:30pm-3:15pm in Richardson 116

Moderator: Dr. Sabrina Moore

Microhabitat Effects on Biodiversity in the Clinch River

15-minute Departmental Presentation

Presenter: Gigi Marton Kannenberg (starts at 2:30pm)

A Study of the Paleopalynology of the Atokan-Desmoinesian Boundary at the Roaring Creek Locality, Parke County, Indiana

30-minute Honors Departmental Presentation

Presenter: Hallie Ann Cohen (starts at 2:45pm)

Honors Day Convocation

5:00pm in Belk Auditorium

Thank You!

A FINAL THANK YOU TO:

Organizer

Dr. Stefan Wiecki

Divisional Coordinators

Dr. Kirk Nolan (Humanities)

Dr. Sarah Burns (Social Sciences)

Dr. Margo Petukh (Natural Sciences)

Dr. Katherine Hanlon (Pharmacy)

Abstract Book Editor

Dr. Katherine Hanlon

Honors Day Website, Graphic Design, and Video

Ms. Emily Owens

Ms. Katie Perkins

Ms. Dana Simmons

Mr. Hal Milam

Mr. Doug Wallace

Mr. Alex Windsor