

Ouachita Baptist University

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Scholars Day

Carl Goodson Honors Program

4-23-2025

Scholars Day 2025 Program of Events

Carl Goodson Honors Program

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SCHOLARS DAY

2025

SCHOLARS DAY

April 23, 2025



PROGRAM OF EVENTS

THE CARL GOODSON HONORS PROGRAM
WELCOMES YOU TO SCHOLARS DAY

THANK YOU FOR SUPPORTING THE HARD WORK
OF OUACHITA'S SCHOLARS

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Alpha Chi Inductions

Come to the purple tent on the lawn in the middle of campus to celebrate the initiation of our students into one of the nation's top honor societies for all academic disciplines. Alpha Chi inducts juniors and seniors whose GPAs rank in the top ten percent of their respective classes.

The entire campus community and Scholars' Day guests are welcome to this brief ceremony. In the event of inclement weather, we will meet in Berry Chapel.

12:30 P.M.

Poster Presentations

Group 1

Walker Conference Center B

Paige Spicer, Host

1:45 P.M. - 3:00 P.M.

- 1. Halley Daniel**
Education Distinctions between the U.S and Other Countries
- 2. Danielle Murray**
Educational Burnout
- 3. Tamia Haney**
The Link between Mental Health and Christianity
- 4. Naturi Harris**
The Effects of Attending a Christian University on Spiritual Beliefs
- 5. Josh Mumphrey**
Quality of Life of Former Athletes after Sport
- 6. Cody Pallen**
VA Location Correlation to Satisfaction Rates
- 7. Anna-Kate Sartin**
Evaluating the Impact of Alternative Sanctions in Reducing Recidivism Rates

- 8. Eliza Parker, Ellie Davis & Dawson Brown**
The Effect of Energy Drink Consumption on the Academic Performance of College Students with Anxiety
- 9. Zac Baker, Blythe Hutchison & Stephen Brown**
The Impact of Music Therapy on Cognitive Inhibition in College Students
- 10. Kate Barrera, Sydnee Knight, Madison Trigg & Alex Brown**
The Association between Codependency and Relationship Satisfaction in College-Aged Couples
- 11. Isabella Lewallen, Hannah Smith & Abbygail Fowler**
The Effects of Social Media on Depression in College Students
- 12. Levi Compton, Sam Gregg, Sara Faddis & Autumn McDaniel**
The Impact of High School Coaches on Athletes Who Were Raised without an Apparent Father Figure Present
- 13. Nathan Price**
The History of the Electoral College and Proposed Changes to the Same
- 14. Blaise Batson**
Factors Affecting the Fertility Rate in States

- 15. Emma Ballantyne & Cali Mendonca**
Six-Week Neuromuscular Training Program for Female High School Athletes
- 16. Angel Medina**
Comparing Four-Week Shoulder Intervention using Oscillating Bars and Resistance Bands in Collegiate Swimmers
- 17. Matthew Lloyd & Eli Stuart**
Bodyweight Neuromuscular Training and Performance on the Y-Balance Test in Division II Male Soccer Athletes
- 18. DeAnna Brown, Campbell Fisher & Erika Ortiz**
Analysis of ACL Stability in College-Aged Females
- 19. Natalie Thomas & Trevor Jones**
Kinesiotherapy Tape and its Effects on Ankle Stability and Balance in Collegiate Athletes
- 20. Emma Love, Audri Winfrey & Kyndall Fomby-Bell**
The Effects on College Students' Mental Health and Wellbeing while Fasting from Social Media and Filling in that Gap with Faith, Exercise, and Social Habits
- 21. Connor Gamboa, Haley Swann & Silvi Cardona**
Difference in Moods between Former Athletes and Current Athletes when Exposed to Sports Content
- 22. Madi Vana, Reyna Rogers & Addrienna Gray**
The Effects of Music on Athletic Performance

- 23. AJ Jones, Parker Henry, William Martin**
College Athletes' Perceptions of the Impact CTE and
Head Injuries Can Have on Them

- 24. Ashlynn Hecht**
Teaching with Purpose

Group 2
Walker Conference Center B
Faith Savage, Host
3:15 P.M. - 4:30 P.M.

1. **Heidi Mathes**
Using PCR to Explain the Behavior of Bacteriophage Ruthy with *Gordonia terrae* CAG3
2. **Hunter Reck**
The Kombucha Project as a Beneficial Course-Based Research Experience
3. **Luke Wood**
Molecular Diagnostics to Uncover the Prevalence of Pertussis Infections in Central Arkansas
4. **Cooper O'Briant**
The Effect of Gravity on *Physarum polycephalum*'s Ability to Solve 3D-Printed Mazes
5. **Isaac Devine**
Determining Viable Cells after Freezing of *Arthrospira platensis* followed by Thawing
6. **Kelcie Watson**
Defying Death: The Resilience of *Spirulina* Algae after Cryogenic Conditions
7. **Luke Garrison, Zander May & Rachel Del Angel**
Gene Knockdown Experiments in *Planeria*

- 8. Mackenzie Davis & Alyssa Rye**
Examination of ZnTPP-4AB and ZnTPP-5AP
as Potential Photodynamic Therapy Agents
- 9. Ashley Dillman**
Synthesizing ZnTPP-CA as a Potential
Photodynamic Therapy Agent
- 10. Madison Goff**
Treating Lung Cancer with ZnTPP-6AH as a
Photodynamic Therapy Agent
- 11. Raegan Swindle**
Preparation of Biomimetic Alginate Beads
towards an Injectable Gel Wound Dressing
- 12. Georgie Crain, Zhara Thomas & Katie Westfall-
Gallegos**
Knowledge Level and Value of Monitoring
Added Sugar Intake Among College Students
- 13. Reece Gray, Maggie Gregory & Sarah Grace
Wisener**
Assessment of Nutrition Status of Preschool
and School-Age Children
- 14. Sarah Grace Wisener, Reece Gray & Maggie
Gregory**
Assessment of Nutrition Status of Older Adults

- 15. Maggie Gregory, Reece Gray & Sarah Grace Wisener**
Influences on Ouachita Baptist University
Students' Nutrition Knowledge
- 16. Maggie Gregory, Sarah Grace Wisener & Reece Gray**
Assessment of Nutrition Education Classes
Presented to Children Attending an Outpatient
Pediatric Specialty Care Program
- 17. Abby McMahon & Emma Ballantyne**
Hydration Intake and Education among
Student Athletes at Ouachita Baptist
University
- 18. Marleigh Bonsall, Laynie White & Ian Vance**
Assessing Supplement Intake of Collegiate
Athletes
- 19. Ashleigh Estes, Jocelyne Leon & Hannah Claire Humphries**
Effect of Non-Verbal Interventions in Children and
Adolescents with Autism
- 20. Cason Barnett, Lyndsey Gardner, Samuel Goins, Julia Lance**
Medication Adherence and its Impact on
Suicide Rates in Schizophrenic Clients

- 21. Eloise Dilda, Kennedy McGuire, Hannah Gonzalez, Aksa Matthews**
The Effects of Strength and Balance Exercises on Fall-Related Injury in the Elderly Population
- 22. Prin'ncerlie K. Celicourt, Abigail E. Dahl, Kimber C. Mitcham & Julia Tuttle**
The Effects of Social Support on Postpartum Depression
- 23. Elle Riendeau, Joely Thomas, Hayden Hardman & Landi Williamson**
Diabetes Management in Nursing Homes: The Implementation of Hydration Programs and Diabetic Diets on Hospital DKA Admissions
- 24. Kaylee Stika, Hannah Newcomb, Maddy Geller & Riley Gillis**
Folic Acid Supplementation with Hispanic Pregnant Women in the United States and the Effect of Neural Tube Defects

Music Recital

W. Francis McBeth Recital Hall

Mabee Fine Arts Center

2:00 P.M.

Program

A Horse with Wings.

Ricky Ian Gordon
(b.1956)

Mac Ricks, Tenor
Kristen La Madrid, Piano

Clarinet Sonata, Op. 120, No. 2
II. Allegro appassionato

Johannes Brahms
(1833-1897)

Baylee Burson, Clarinet
Kristen La Madrid, Piano

Quiet from *Thirteen Stories Down*

Jonathan Reid Gealt

Amaya Hardin, Soprano
Kristen La Madrid

Chacun le sait from *La fille du Regiment*

Gaetano Donizetti
(1797-1848)

Karlie Johnson, soprano
Susan Monroe, Piano

The Lord's Prayer

Albert Hay Malotte
(1895-1964)

David Granger, Baritone
Susan Monroe, Piano

My Jesus, I love Thee with Sleepers
Wake by J.S. Bach

Adoniram J. Gordan
Arr. Linda McKechnie

Aaron Reed and Dr. Mary Chung, Piano

Sérénade, Op.96

Cornelius Gurlitt

Owen Dodd, Carly Hall, Andrew Pierce,
and Dr. Mary Chung, Piano

For Good from *Wicked*

Stephen Schwartz
(b. 1948)

Halle Jones and Kaylie May, Mezzo-Sopranos
Mac Ricks, Piano

I Wanna Be Holy

Brandon Holloway
(b. 2003)

Brandon Holloway, Tenor

Art Exhibitions

**Hammons Gallery
Mabee Fine Arts Center
1:00 P.M.**

**2025 Juried Student Art and Design Show
Presented by Art Club**

“Breakfast at Al’s” by Hannah Schulze
Medium: Watercolor

“Guiding Light” by Hannah Schulze
Medium: Watercolor

“Petals” by Bryce Benson
Medium: Digital design

“Why is Texas Hold ‘em so Popular?” by Bryce Benson
Medium: digital design

“Jack in the Box Series” by Chau Tran
Medium: Procreate

“Get Out There” by Reece Kailey
Medium: Adobe Illustrator and Fresco

“Dayglow Series” by Reece Kailey
Medium: Micron and Felt Tip Pen

“Sölden” by Madeline King
Medium: Ink

“Holy Smokes” by Madeline King
Medium: Ink

“An Unsatisfied Hunger” by Cade Knoernschild
Medium: Spray Paint and Thread

“Before They Wither” by Cade Knoernschild
Medium: Oil

“A Great Divide” by Cade Knoernschild
Medium: Spray Paint, Thread and Screws

“BOUNDLESS – Music Festival Campaign” by Natalia Zamora
Medium: Digital Design

“Spire” by Isabel King
Medium: Etching

“12 O’Clock Rush” by Isabel King
Medium: Multicolor Relief Linocut

“The Scale of Man” by Isabel King
Medium: Photo

“Vienna Travel Magazine Layout” by Isabel King
Medium: Digital Design

“Stained Glass Delphinium” by Kate Cheshier
Medium: Ink Pen

“Untitled” by Emily Yokem
Medium: Digital Collage

“Untitled” by Emily Yokem
Medium: Digital Collage

“The Mind” by Malia Gattis
Medium: Charcoal

“Just As Special” by Parker Raines
Medium: Clay, Acrylic, and Plastic

“Flower Field” by Victoria Duran
Medium: Oil on Canvas

“Blurred Thoughts” by Taylor Youtsey
Medium: Ceramic

Organized by:

Hannah Schulze- Juried Show Chair

Bryce Benson- Juried Show Co-Chair

What Were You Wearing?

**Verser Theatre
Jones Performing Arts Center
1:00-5:30 P.M.**

The Ouachita Community "What Were You Wearing?" Exhibit displays representations of the clothing worn by anonymous survivors at the time of their sexual assault. In an effort to empower survivors and inform others of the reality of sexual abuse, this impactful exhibit shares lifetime experiences of campus community members.

This exhibit has been led by the Title IX Student Advisory team and organized by Zoë Graham (Chair) and Skylar Webb. The student team is comprised of Baley Clark, Tiffani Chew, Mayci Gilbert, Blythe Hutchison, Qara Johnson, Michael Lee and MK Staley

Honors Theses

Walker Conference Center A

Samuel Esho and Jackson Edds, Co-Moderators

1:30 P.M. – 3:50 P.M.

1:30 Emily Lawrence

The Development of a New Water-Soluble Zinc Porphyrin, ZnTPP-2MP, as a Photodynamic Therapy Agent

1:50 Whit Lawrence

Analyzing a Degradable Natural Polymer-Based Novel Wound Dressing for Use in Biomedical Applications

2:10 Maryann Rettig

Analyzing the Leaching of Bisphenol-A From Feminine Hygiene Products using Fluorescence Spectrophotometry

2:30 Alex Browning

Preparation and Analysis of Imine-Conjugate Amoxicillin-Chitosan Hydrogels for Wound Care Applications

2:50 Reece Gray

Can Food Cure? A Comparative Analysis of Two Diets and their Trials in Treating Autoimmune Diseases

3:10 Bree Steinfeldt

Analysis of BPA Leaching in Various Types
of Athletic Wear using Fluorescence
Spectrophotometry

3:30 Rachel New

Predicting Watermelon Sweetness from
Induced Vibrations

Walker Conference Center C
Maci McJunkins and Madilyn Davis, Co-Moderators
1:30 P.M. - 4:50 P.M.

1:30 Michael Lee

From Necropsy to H&E: Optimizing Protocols for Zebrafish Histology

1:50 Jenna Malone

The Quantification and Standardization of Viral Particle Detection

2:10 Carly Orr

Genomic Insight into Cardiac Adaptations: Analyzing Mouse Heart Tissue under Low Radiation and Low Gravity Conditions

2:30 Emma Mackey

Mice in Microgravity: The Significance of Gene Regulation in Heart Tissue

2:50 Qara Johnson

The Effect of Cortisol on Sexual Differentiation in Zebrafish

3:10 Jackson Lipscomb

The Process and Results of Publishing Course-Based Undergraduate Research at Ouachita Baptist University

3:30 John Hunter Crum

Using a Novel Apoptosis Assay to Elucidate the Role of MiRNA-127 in Cell Stress

3:50 Tuesday Melton

Epigenetic Regulation of the SPARC Gene in
Bladder Cancer

4:10 Wyatt House

The Role of the PTH1r in Osteocytes in a Type-2
Diabetes Preclinical Mice Model

4:30 Andrew Pierce

Gordoniaphage Ruthy Infection Confers Increased
Growth Rate in *G. terrae* CAG3

Berry-Peebles Bible Building 126

Blake Myers, Moderator

1:30 P.M. - 2:50 P.M.

1:30 Delaney Beehn

Karl Gutzlaff: The Life and Legacy of my 7th Great-Grandfather as the First Lutheran Missionary to China

1:50 Malea Boreland

Father's Sins, Son's Consequences: Using the Study of Generational Curses within Demonology to Explore the Soiritual and Ritualistic Factors of Suffering

2:10 Cade Swindle

John Gill and the Covenant of Grace

2:30 Georgia Richards

Here Comes the Bride: A Theological Exploration of a Christ-Honoring Wedding

Young Auditorium
Laney Bower, Moderator
1:30 P.M. – 2:50 P.M.

1:30 Parker Nelson

Beyond The Road: An Overlanding
Documentary

2:30 Julianne Fletcher

The Influence of Economics in Accounting:
Historical Macroeconomics on Tax Law

Hickingbotham 200

Landon Proctor and Amelia Rogers, Co-Moderators

1:30 P.M. - 4:50 P.M.

1:30 Ethan Smith

Bacteriophage: Host Range, Genomic, Annotation and Evaluation

1:50 Allie Jane Wilson

Endangered Plants and Our Role in Their Protection

2:10 Kassidy Stone

Developing Patterns of Phage Infection by Investigating Superinfection Immunity

2:30 Will Ross

Effect of Darkness and Microgravity on the Development and Movement of *Dictyostelium discoideum*.

2:50 Zayne Ashley

Does Vegetation Density affect Insect Populations? An Analysis of Insect Biodiversity on the Ouachita Baptist University Campus *with essays: The Musings of a Wildlife Enthusiast*

3:10 Camryn Stroupe

Sleep Tight, Little Learners - A Parental Awareness Project on The Importance of Sleep in Language Development and Helping Children Rest Well

3:30 Mary O’Sullivan

Evaluating Interventions for Infant Vehicular Hyperthermia

3:50 Katelyn Hartsell

This Class was Made for You and Me: A Children’s Book

4:10 Ruthie Fox

The Reading Brain: Brain Research behind the Science of Reading

4:30 Kalel Langford

From Concept to Tabletop: Designing and Developing an Interactive Board Game Experience

McClellan 100

David Pannell and Ella Marie Davis, Co-Moderators

1:30 P.M. - 4:30 P.M.

1:30 Olivia Nethercutt

Emigration to Immigration: How Muslim
Immigration to Ireland Helps Signal Historical
and Political Shifts

1:50 Sierra Douglas

Sacred Sovereignty Lost: The Georgian
Orthodox Church, the Treaty of Georgievsk,
and Russian Annexation

2:10 Cody Pallen

Speech Anxiety: Rhetoric, On-Campus
Research, and Assessment

2:30 Shelby Cheek

Uniquely Unique: Helping Arkansas Parents Cater
to the Unique Needs of Their Children with Autism

2:50 Isabel Breaux

Screenagers: Screen Time and Mental
Health in College Students

3:10 Kendall Wilson

Reevaluating Social Determinants of Health
Tools: Addressing Limitations and Proposing
a New Measure for Improved Assessment

3:30 Didi Christenson

Unmasking Vulnerabilities: Understanding Influences in Sex Trafficking Susceptibility

3:50 Erin Key

Grandparent Custody and Visitation Rights in the West South Central States: A Comparative Legal Analysis

4:10 James McIntyre

The Chicxulubiad Crater

Presentations

Walker Conference Center A

Nathan Price, Moderator

3:50 P.M. - 4:50 P.M.

3:50 Anika Dresser

SAPRC Impact on Patient Care

4:10 Tuesday Melton

Addressing Health Disparities in Hispanic
Communities

4:30 Emma Mackey

Beyond Studying Abroad: What Korea
Taught Me About Intercultural Engagement

Berry-Peebles Bible Building 126

Blake Myers and Zoë Graham, Co-Moderators

2:50 P.M. - 4:30 P.M.

2:50 Michael Lee

Spreading Awareness on Childhood Trauma Using
the ACES Survey

3:10 Cade Swindle

God Without Parts: The Doctrine of Divine
Simplicity

3:30 Brooke Wright

And the Son? The Historical Controversy and
Theological Implications of the Filioque Clause

3:50 Noah Embrey

Bioethics and Abortion

4:10 Leila Langdon

Grief, Trauma and Identity

Young Auditorium
Cara Cannon, Moderator
2:50 P.M. - 4:20 P.M.

- 2:50** **Eddie and Phyllis Ary Student Investment Fund**
Brooks Bell, Adrienne Brown, Will Green,
Elise Henderson, Logan Langley
- 3:20** **OBU at Sundance Symposium: A Collection of
Essays and Creative Projects**
Zayne Ashley, Leila Langdon, Sarah Kate
McAnelly, Callie Moore, Jacie Sellars
- 3:50** **Buffaloes to Badgers: Creating a Digital Exhibit
Documenting the Process of Arkaelphia
Integration**
Jimmy Anderson, Delaney Beehn, Didi
Christenson, Nathan Clark, Whit Clark,
Dakotah Haltom, Kaleb Metz, Olivia
Nethercutt, Harmony Toth, Daniel Voyles
(Faculty Sponsor: Dr. Myra Houser)

McClellan 100
Ella Marie Davis, Moderator
4:30 P.M. - 4:50 P.M.

4:30 Addie Robertson
Walkability and Spatial Inequalities

Acknowledgements

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The Faculty Honors Council

The Alpha Tau Honors Society Leadership and
Volunteers

Notes

