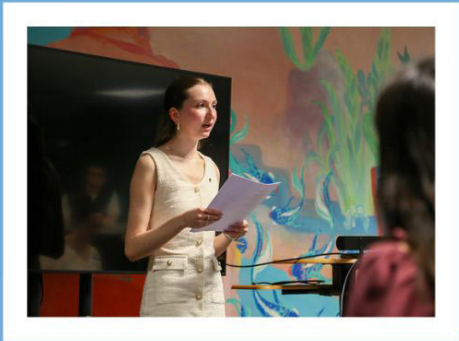
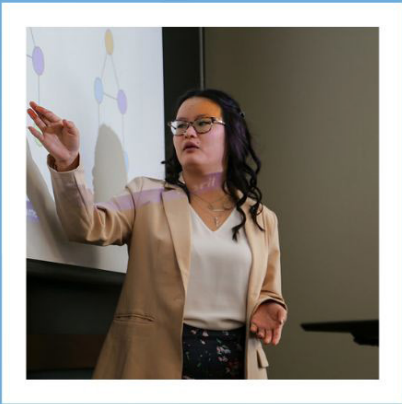


# Undergraduate Research & Arts Celebration

2026



Wednesday,  
April 22nd, 2026

Sponsored by The Drinko Center  
for Undergraduate Research

WESTMINSTER COLLEGE



# WELCOME TO URAC 2026!

Westminster College is proud to host the 2026 Undergraduate Research and Arts Celebration! There are hundreds of scholars, scientists, artists, performers, and directors that call Westminster College home and today, we celebrate all of their work. This year's celebration features the work of more than 300 Westminster students from all over campus. This is an incredible achievement, and it's one of which every Titan should be proud. When you're standing in a group with four Westminster students, at least one is probably presenting at URAC! Their work represents every walk of academic life, from poems written by students in their first semester on campus, to seniors presenting the capstone work that they've worked on for multiple years and countless hours.

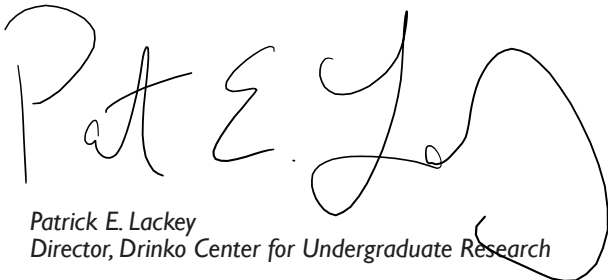
The Westminster College mission statement includes eight essential outcomes: to reason logically and evaluate critically; to communicate effectively; to think creatively and appreciate aesthetic expressions; to demonstrate intellectual curiosity; to acquire knowledge of self, society, human cultures, the natural world, and human relationships to God; to apply knowledge to contemporary issues; to demonstrate moral and ethical commitments to neighbor, society, and the natural world; and to demonstrate commitment to lifelong learning and the acquisition of skills for careers and responsible service as world citizens. The student work being presented, performed, displayed, and discussed at URAC embodies all of these outcomes. Everything you see today is a testament to the value of a Westminster education.

Creating something that's new and real in 2026 is difficult, and today's participants will tell you that everything you see or hear today-- each graph, poem, film frame, data figure, and musical note-- is the result of hours of practice, countless drafts, or late nights in the lab to get the experiment just right. Because of this effort, the 2026 URAC participants are excited to share their work with you. I am immensely proud of these students for this, and proud of the courage required to share this work with the community.


These artists, performers, and scholars could not have carried out these projects by themselves; behind each project there are Westminster College faculty, staff, administrators, and campus offices that helped the students each step of the way. Back home and in dorm rooms there are friends, siblings, and parents who supported these researchers. I want to thank everyone for providing this support and giving our students the opportunity to shine today.

Just as the work of our students is not an individual effort, URAC would not be possible without the effort of a group of people from across campus that includes student workers, Academic Administrative Assistants, and the Undergraduate Research Advisory Council, a group of dedicated faculty involved in every aspect of planning, coordinating, and making URAC. Today's celebration could not happen without their efforts and I am deeply grateful for their help.

I hope you enjoy today's events! Thank you for attending the Undergraduate Research and Arts Celebration.



Patrick E. Lackey  
Director, Drinko Center for Undergraduate Research



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# URAC 2026

#WCURAC



# EVENT SCHEDULE

9 AM-4 PM	<b>SCRAWL 2025 RELEASE TABLE</b> <i>Cultural Center</i>
	<b>WHERE THEY ARE FROM: A POETRY COLLECTION BY THE CLASS OF 2029</b> <i>Quad</i>
	<b>POP-UP ART EXHIBITS</b> <i>McKelvey, 2nd Floor</i>
	<b>TITAN TEACHER CLOSET</b> <i>McKelvey, 2nd Floor</i>
	<b>POSTER SESSION A</b> <i>Witherspoon Rooms</i>
	<b>PROFESSIONAL HEADSHOTS</b> <i>McKelvey 274</i>
	<b>CHAMBER SINGERS</b> <i>McKelvey TUB</i>
	<b>RESEARCH ROUNDTABLE</b> <i>Patterson 208</i>
	<b>HOW TO GET STARTED IN RESEARCH</b> <i>Cultural Center</i>
	<b>CONCURRENT ORAL PRESENTATIONS</b> <i>Patterson 1st/2nd Floor</i>
	<b>WEC ROUNDTABLE DISCUSSIONS</b> <i>Berlin Lounge</i>
	<b>VIDEO SCREENINGS</b> <i>Mueller Theater</i>
	<b>SCOTTISH STRING MUSIC</b> <i>McKelvey TUB</i>
	<b>WESTMINSTER TRAVEL EXPERIENCES</b> <i>Cultural Center</i>
	<b>POSTER SESSION B</b> <i>Witherspoon Rooms</i>
	<b>ART DISPLAYS</b> <i>In and around Foster Art Gallery</i>
	<b>FEATURED PODIUM PRESENTATION SPEAKERS</b> <i>Mueller Theater</i>
	<b>SCRAWL RELEASE PARTY</b> <i>Cultural Center</i>
	<b>THE WESTMINSTER COLLEGE TROMBONE COMPANY</b> <i>McKelvey TUB</i>
	<b>POSTER SESSION C</b> <i>Witherspoon Rooms</i>
	<b>POETRY SLAM</b> <i>Cultural Center</i>
	<b>PROFESSIONAL HEADSHOTS</b> <i>McKelvey 274</i>
	<b>CONCURRENT ORAL PRESENTATIONS</b> <i>Patterson 1st/2nd Floor</i>
	<b>PUBLIC SPEECHES</b> <i>Berlin Lounge</i>
	<b>RESEARCH ROUNDTABLE</b> <i>Patterson 208</i>
	<b>FEATURED PODIUM PRESENTATION SPEAKERS</b> <i>Mueller Theater</i>
	<b>POSTER SESSION D</b> <i>Witherspoon Rooms</i>
	<b>READERS THEATER</b> <i>Berlin Lounge</i>
9 AM-3 PM	
9-10 AM	
9 AM-11 AM	
9:45-10 AM	
10-10:45 AM	
10-11 AM	
10-11:20 AM	
10-1:00 PM	
10:30-12:00 PM	
11-11:15 PM	
11-12:00 PM	
11:30 AM-12:30 PM	
12-1 PM	
1-1:15 PM	
1-2 PM	
1 PM-3 PM	
1:30-2:50 PM	
2:20-3:20 PM	
3-3:45 PM	
3-4 PM	
3:30-4 PM	

# Poetry Slam

Sigma Tau Delta & SCRAWL  
present the annual Poetry Slam  
competition at URAC!

April 22nd | 1:00 PM



Cultural Center



# URAC•2026 RESEARCH EXPERIENCE PANEL

## GETTING STARTED IN RESEARCH

CULTURAL CENTER 10-11 AM

Come hear students from a variety of majors and class standings talk about how they got started in research and their experiences in a variety of research projects!!

Attendees will have the opportunity to ask the panelists questions! First and second year students in attendance will qualify for a drawing for a gift card!

### PANELISTS:

Talia Morgenstern Molecular Biology	Emma Maloberti Political Science	Alex Rowland Biochemistry
Chloe Smith English	Madyson Treharne English and Creative Media	Shannon Witkouski Music



UNDERGRADUATE RESEARCH AND ARTS CELEBRATION

# CALLING ALL STUDENTS AND ATTENDEES!!

WE WANT TO HEAR FROM YOU!!

SCAN HERE TO TAKE



THE SURVEY!!

COMPLETE THE URAC EXPERIENCE SURVEY BY FRIDAY,  
MAY 1ST TO BE ENTERED FOR A CHANCE TO WIN A  
\$25 SHEETZ GIFT CARD!

DO YOU WANT TO WIN A \$25  
SHEETZ GIFT CARD?

**URAC•2026**

POSTER PRESENTATIONS

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**Witherspoon Rooms**

# URAC•2026 POSTER PRESENTATIONS

POSTER NUMBER	TITLE	RESEARCHER(S)	FACULTY SPONSOR
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## SESSION A — 9-10 AM

A1	The Westminster Bee Company	Angelina Nardone, Hector Moyano Molina, Jordan Deems, Jaxon Hendershott, Emily Shaffer, Valen Henry, Sarah Flores, John Hall, Kevin Wright	Helen Boylan
A2	Interactions of Nicotine and Ethanol: Effects on Working and Long-Term Memory Driven by Appetitive versus Aversive Stimuli in Male and Female Rats	Abigail Guiste	Deanne Buffalari
A3	Generation of Lithium Extraction Isotherms	Alex Rowland	Pete Smith
A4	The Effects of Oxybenzone on Aquatic Life	Alexandria Bender	Marosh Furimsky  
A5	EEG Evidence that Negative Images Generate Increased Neural Recapitulation Early During Memory Retrieval	Allison Cline	Deanne Buffalari
A6	Sleep Survey on Westminster College Student Population	Anthony Cicchino, Nolan Martin	John Robertson 
A7	Awareness of the Effects of Caffeine Consumption Among Westminster College Students	Ava Houy, Emma Durr, Madison Mamula, Lyndie Peters	John Robertson 
A8	Barriers that Prevent College Students from Receiving Mental Health Treatment on Rural College Campuses	Ashley Horvath	Melissa Baron
A9	MarketWatch Stock Portfolio Simulation	Bryce Eberhart, Ian Temple, Myles Henneghan, Jaden Sullivan, Nathan Covey	Jennifer Waldo
A10	Investigation into the role of lignin nanoparticles in disrupting oxidative balance in developing bacterial biofilm by removal of extracellular glutathione	David Roberts, Ethan Moore	Erin Wilson
A11	Sun Smart or Sunburned: Assessing Sun Exposure Knowledge Among College Students	Camberlee Perkowski, Dunil Karunaratne	John Robertson

**POSTER NUMBER TITLE RESEARCHER(S) FACULTY SPONSOR**

A12	Biodegradable microbeads as a novel method for administering treatments for studying their effects on axolotl wound healing and limb regeneration	Evelyn Mong	Joshua Corrette-Bennett
A13	How Do Levels of Democracy Change the Lives of Women? - An Analysis of African Countries	Haylee Morrison	Shannon Smithey   
A14	Discovering the Moderation of Novelty Seeking in the Relationship Between ADHD Symptoms and Relational Impairment	Kayleigh Stinedurf	Jessica Rhodes
A15	A Comparative Study Between Males and Females Collegiate Student Athletes on Their Knowledge of Nutrition.	Kelly Troup, Reagan Courter, Alexander Garcia	John Robertson
A16	Crosscultural research looking at the relation ship between body dissatisfaction and gender differences in the United States and Egypt	Luke Mattox, Steven Morrison	Sherri Pataki
A17	Sex Differences in Sucrose Intake Among Sprague-Dawley's	Morgan Juskowich	Deanne Buffalari
A18	Investigating Technology-Driven Shifts in Financial Advising Through the Lens of Bounded Rationality	Morgan Murphy	Jennifer Waldo
A19	Beneath the Surface: College Students' Knowledge of the Anatomy of Tattoos and Potential Risks	Natalie Davis, Isabella Cespedes, Riley Salazar, Emma Baldwin	John Robertson
A20	Leadership in Action: Westminster's Community Collaborative Course	Talia Kreider Helman, Avery Keenan, Elijah Grayer, Joshua Furman	Helen Boylan
A21, A22	Sports/Event Planning and Management	Tyler McGowan, Michaela Neelin, Jonathan Mollo, Zachary Meszaros, Jacob Lapinski, Kaynen Brown, Craig Sonson, Brock Covell	Martha McGrath-Brown



ENVIRONMENTAL PRIZE CANDIDATE



HEALTH AND WELL-BEING AWARD CANDIDATE



SOCIAL ACTION RESEARCH AWARD CANDIDATE



JUSTICE PRIZECANDIDATE

POSTER

NUMBER TITLE

RESEARCHER(S)

FACULTY SPONSOR

**SESSION B — 11 AM-12 PM**

B1	The Westminster Bee Company	Angelina Nardone, Hector Moyano Molina, Jordan Deems, Jaxon Hendershott, Emily Shaffer, Valen Henry, Sarah Flores, John Hall, Kevin Wright	Helen Boylan
B2	The effect of propylparaben on hsp70 expression during axolotl limb regeneration	Addison Sofran	Joshua Corrette-Bennett
B3	From Parenting to Patterns: Adult Attachment and Emotional Regulation	Alyssa Rapp	Loreen Huffman 
B4	Comparing the Effects of Oral Care Treatments in Inhibiting the Cariogenic Properties of Streptococcus mutans	Anthony Cicchino	Joseph Balczon
B5	Buzzing at Westminster College: Innovations through the Westminster Bee Company	Avery Keenan	Helen Boylan 
B6	Examining Stress Responses to Working Memory in Individuals with ADHD-Like Symptoms	Ava Houy	Loreen Huffman
B7	The Impact of Early-Onset Alzheimer's Disease on Creativity and Style in the Fiction of Terry Pratchett	Bianca Vazquez	Kristianne Kalata
B8	Team Portfolio Project	Braeden D'Angelo, Conner Roberts, Morgan Murphy, Thomas Vo	Jennifer Waldo
B9	Cheap Clothes, Expensive Consequences	Brianna Reinhart, Ava Commons, Madison Alessio	Keith Bittel 
B10	Attitudes Toward Child Discipline Through Generations and Cultures	Bryant Oliva Sanchez	Kristin Park
B11	Exploring Ethanol's Impact on Zebrafish Embryonic Development as a Model for Fetal Alcohol Syndrome	Camberlee Perkowski	Marosh Furimsky



ENVIRONMENTAL PRIZE CANDIDATE



HEALTH AND WELL-BEING AWARD CANDIDATE



FIRST YEAR PRIZE CANDIDATE



SOCIAL ACTION RESEARCH AWARD CANDIDATE



JUSTICE PRIZE CANDIDATE

POSTER NUMBER	TITLE	RESEARCHER(S)	FACULTY SPONSOR	
B12	Effect of Virtual Learning on Sluggish Cognitive Tempo	Caitey Wozniak	Jessica Rhodes	
B13	Where Physics Meets Design: Surface Reflectance and Interior Illuminance	Christine Rossi	Matteo Luisi	
B14	MarketWatch Investment Simulation	Colin Bork, Quinn Schwartz, Jack Katigbak, Reed Yost	Jennifer Waldo	
B15	Caffeine Consumption Patterns and Perceived Effects Among Westminster College Students	Deshaun Mcbryde, Jack Crider, Samuel Spicer	John Robertson	
B16	Dose-Dependent Effects of Lead Exposure on Zebrafish: Implications for Survival, Development and Behavior	Dunil Karunaratne	Marosh Furimsky	
B17	The addition of a surface-coating of associated metal-containing lignin nanoparticles with Ag <sup>+</sup> , Cu <sub>2</sub> O, and ZnO will decrease the mass of Pseudomonas aeruginosa biofilm.	Ethan Moore	Erin Wilson	
B18	FAST Conference Trip	Faith Giannamore, Valen Henry, Marco Smallwood	Patrick Krantz	  
B19	After Empire and Before Communism: Studying the Warlord Period of Chinese History through three Members of the Ma Clique, 1912-1957	Jacob Gaffron	David Lehman	
B20	The effects of delta-9-tetrahydrocannabinol on a methicillin resistant strain of Staphylococcus aureus	Jenna Zendron	Joseph Balczon	
B21	Perspectives of Westminster College Students on Social Theories of Justice and Crime	Julia Ravazza	Shannon Smithey	 
B22	Mindfulness Through the Ages	Olivia Kana	Loreen Huffman	
B23	Evaluating the Performance of a Passive Treatment System for Acid Mine Drainage at the Jennings Environmental Education Center	Shelby Rambo	Helen Boylan	

## SESSION C — 1-2 PM

C1	The Westminster Bee Company	Angelina Nardone, Hector Moyano Molina, Jordan Deems, Jaxon Hendershott, Emily Shaffer, Valen Henry, Sarah Flores, John Hall, Kevin Wright	Helen Boylan	
C2	Like Mother, Like Child: Intergenerational Patterns of Anxiety and Parenting Style	Alyssa Jeffcoat	Loreen Huffman	
C3	The Golden Hour Goal: Enhancing Sepsis Care in an Emergency Department	Darianne Meacham	Joni Darby	
C4	Barriers and Organizational Strategies for Implementing Mandatory Meal Breaks to Reduce Burnout and Improve Job Satisfaction Among Hospital Nurses	Elliana Hsieh	Joni Darby	
C5	Overexposure to Amoxicillin and Counter Effects of Melatonin on Oxidative Stress and Hatching in Zebrafish Embryos	Elliott Wentzel	Marosh Furimsky	
C6	Do Adverse Childhood Experiences Mediate the Relationship Between Borderline Personality Disorder and Adverse Childhood Experiences?	Emily Kirkwood	Loreen Huffman	
C7	Measuring rare earth content in industrial solid waste	Emily Marchlewski	Pete Smith	 
C8	Can Conscientiousness Lead to More Anxiety in Undergraduate Students?	Emma DeSimone	Loreen Huffman	
C9	A Multivariate Analysis of Childhood Maltreatment and Adversity on Adult Functioning and Well-Being	Emma Maloberti	Shannon Smithey	
C10	The Knowledge Deficit Among New Nurses Regarding Evidence Based Wound Care	Erin Vanetta	Joni Darby	

POSTER NUMBER	TITLE	RESEARCHER(S)	FACULTY SPONSOR
C11	The Industrial Environment of South Africa	Morris	Patricia Clark  
C12	More Than Grades: Examining the Social Determinants of Health Among College Students	Hannah Bittel	Joni Darby 
C13	Examining the interrelationship between Attention-Deficit/Hyperactivity Disorder symptoms, sleep, and emotion dysregulation	Heidi Douglass	Jessica Rhodes
C14	Water Quality Analysis Informs Integrated Study of Acid Mine Drainage on PA State Game Lands 095	Jamie Robertson, Hallie Hughes, Avery Keenan, Talia Kreider Helman, Shelby Rambo, Nicholas Vitale, Rachel Summers	Helen Boylan
C15	Conical Tips on Frozen Water Droplets	Justin Ranft	Matteo Luisi
C16	From Sandplay to Self-Belief: A Look Into Art Therapy and Self-Efficacy in Children	Landree Noviello	Loreen Huffman
C17	The Magnus Effect	Layne Howe	Craig Caylor
C18	Moderating role of self-esteem on ADHD and functional impairment	Luke Mattox	Jessica Rhodes
C19	Sublethal effects of carveol to Aedes albopictus larvae development and adult feeding efficiency	Mairin Turek	Diana Ortiz
C20	Market Watch Simulation	Mason Paljich, Mason Manos, Dante Compagni, Braden Mika	Jennifer Waldo
C21	Assessment of Oxidative Stress Biomarkers and Liver Histology in Channel Catfish	McKenna Spotts	Joseph Balczon
C22	Investment Portfolio	Stephen Antuono, Drew Weir, Skevos Kouros, Carter Anderson, Steven Evanhec	Jennifer Waldo

## SESSION D — 3-4 PM

D1	The Westminster Bee Company	Angelina Nardone, Hector Moyano Molina, Jordan Deems, Jaxon Hendershott, Emily Shaffer, Valen Henry, Sarah Flores, John Hall, Kevin Wright	Helen Boylan
D2	Sexually Transmitted Infections: An exploration of the history and effectiveness of STI prevention programs	Catherine Clark	Jessica Rhodes  
D3	Antibiotic resistance across environments	Joseph Martin	Joseph Balczon 
D4	Mia	Landree Noviello	Trisha Cowen
D5	How Estrogen and Progesterone Replacement Impacts the Memory of Ovariectomized and Scopolamine-Treated Rats	Lanna Dellick	Deanne Buffalari
D6	Magnetic Music: Driving Guitar Harmonics with the Lorentz Force	Lucas Crow	Craig Caylor
D7	Psychological Resilience: A Mediating Effect on Emotional Dysregulation and ADHD Symptoms	Luke Nutter	Jessica Rhodes
D8	Effects of Opioid Withdrawal on Behavioral Responses in Male and Female Rodents	Mackenzie Wagner	Deanne Buffalari 
D9	Examining caffeine consumption and its perceived dependence	Madelyn McClain, Julia Takla, Jenna Zendron	John Robertson 
D10	Investigating Nutritional Knowledge Among Westminster College Students	Maggie Shadle, Jocelyn Gratchic, Emma McCosby, Abbigale Whaley	John Robertson 
D11	The Examination of Coaching Behaviors Effect on Athletes with Attention Deficit/ Hyperactivity Disorder	Maura Mahoney	Jessica Rhodes
D12	Investigating the Microbial Diversity and Alcohol Tolerance of College Hand Sanitizer Dispenser Organisms	Michael Hvizdak	Joseph Balczon

POSTER NUMBER	TITLE	RESEARCHER(S)	FACULTY SPONSOR
D13	The Moderating Role of Aphantasia in the Relationship Between ADHD and Functional Impairments	Morgan Juskowich	Jessica Rhodes
D14	The Effects of Propylparaben on Limb Regeneration and Digit Formation in <i>Ambystoma mexicanum</i>	Natalie Doty	Joshua Corrette-Bennett
D15	Aquatic Vertebrate Model Exposure to Methiocarb Insecticide at Varied Temperatures	Nolan Martin	Marosh Furimsky
D16	Situational or Socialization: Westminster Undergraduate Students' Perceptions of Precursors to Crime	Paige Hepke	Kristin Park
D17	Relationship Between Knowledge of the Respiratory System and Smoking Behaviors	Rachel LaSalvia, Brooke Gecina	John Robertson 
D18	Bird's-Eye View: An Internship Inside the National Aviary	Rachel Summers	Helen Boylan
D19	The Economic Influence, Sustainability, and Longevity of Urban AI Data Centers	Sophia Klonowski, Avry Bontz, Chantale Elakano, Aiden Burick	Keith Bittel 
D20	Market Watch Group Portfolio	Tory McKinney, Lauren Burks, Abigail Powell, Alexa Tovarnak	Jennifer Waldo
D21	A 3D Model of Spiral Defect Chaos	Zachary LaFrankie	Craig Caylor
D22	DIY EEG Instrument	Zachary Burghgraef	Craig Caylor

# The Holcad

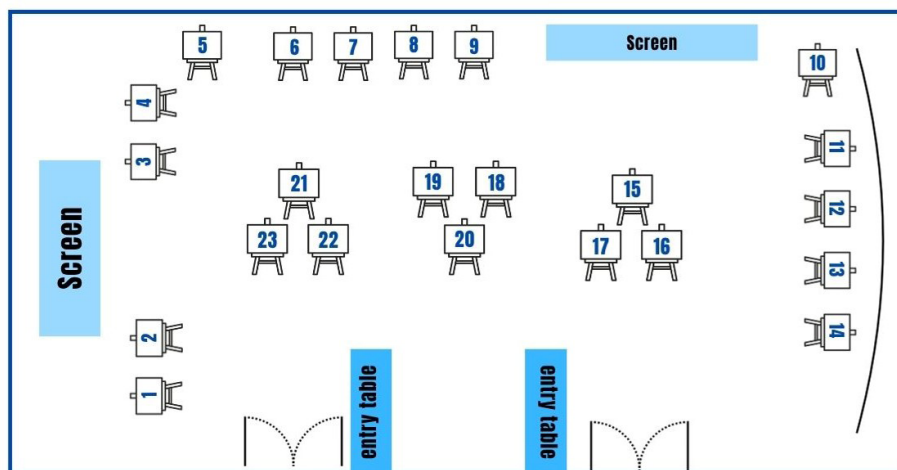
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Student Newspaper

[wcn247.com](http://wcn247.com)



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# TITAN Teacher Closet

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*Advancing Professional Equity*

## Find Your Professional Edge

FREE Attire for Student Teaching,  
Field Work, and Interviews



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PROFESSIONAL  
HEADSHOT!**  
BY PDCE

## EVENT LOGISTICS



### LOCATION

URAC: 2nd Floor, McKelvey  
Campus Center (Top of Steps)



### DATE & TIMES

April 22<sup>nd</sup>, 9:00 AM - 3:00 PM

## HOSTED BY:

- Abigail Theriaque, Westminster College - School of Education
- Dr. Patty Kardambikis
- Kappa Delta Pi (KDP)

IN COLLABORATION WITH

**PDCE**  
PROFESSIONAL DEVELOPMENT  
& COMMUNITY ENGAGEMENT



WESTMINSTER COLLEGE

# HISTORY

**R**EAD CRITICALLY

**W**ORK COLLABORATIVELY

**A**NALYZE SYSTEMATICALLY



Preparing Students for the Future  
while Learning from the Past

**C**OMMUNICATE EFFECTIVELY

**T**HINK GLOBALLY

**W**RITE CONVINCINGLY

[westminster.edu/history](http://westminster.edu/history)

WESTMINSTER COLLEGE

# Congratulations Harms Center for the Environment

## Harms Center Honored with 2025 Governor's Environmental Excellence Award

Westminster College's Clarence and Mary Ann Harms Center for the Environment (HCfE) received Pennsylvania's highest environmental honor, the 2025 Governor's Award for Environmental Excellence, for its project, "Apiary as a Catalyst for Innovation." This initiative reimagines the role of bees in sustainability and education and was one of 19 projects recognized statewide by the Departments of Environmental Protection and Conservation and Natural Resources.



Launched in 2020 by Dr. Patrick Krantz with just six hives, Westminster's apiary has grown to more than 70 hives and now serves as a hands-on learning hub for sustainable beekeeping, pollinator conservation, and ecological awareness. The apiary also anchors new academic offerings, including the course *Environmental Entrepreneurship*, which integrates sustainability with the Westminster Bee Company. Through student and community programs, the apiary has engaged over 800 participants and supported charitable efforts by donating honey, including to the Bags & Blessings program for cancer patients.



Dr. Patrick Krantz, DEP Acting Secretary Jessica Shirley, & Dr. Kerri Duerr



Students tending to and learning about the bees at the Westminster College Field Station's Apiary



Dr. Helen Boylan, Clarence Harms, State Rep. Marla Brown, & Pres. Kathy Richardson





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724-946-7751

**URAC•2026**

ORAL PRESENTATIONS &  
RESEARCH ROUNDTABLES

---

**Mueller Theater & Patterson Hall**

# URAC•2026 CONCURRENT ORAL PRESENTATIONS

PATTERSON FIRST AND SECOND FLOORS

## CONCURRENT MORNING SESSIONS — 10-11:20 AM

	10:00 AM	10:20 AM	10:40 AM	11:00 AM
<b>PATTERSON 105</b>	<p><b>(t,r) Broadcast Domination of Caterpillar Graphs</b></p> <p>Alexander Williams</p>	<p><b>Comparison of Inhibition of Staphylococcus aureus Biofilm by Thyme Essential Oil and its Constituents</b></p> <p>Rachel LaSalvia</p>	<p><b>The Quiet Mobilizer: How Poetry Shapes Collective Identity and Fuels Political Movements</b></p> <p>Haley Bell</p>  	<p><b>The Legend of the Seven</b></p> <p>Mady Goodrich</p>
<b>PATTERSON 107</b>	<p><b>De Luca Family</b></p> <p>Cassie Evans</p> 	<p><b>Edge Modifications and Broadcast Coverage In Path Networks</b></p> <p>Christine Rossi</p>	<p><b>Rehabilitative Efforts in Prisons: What Is Offered versus What is Needed?</b></p> <p>Julia Ravazza</p> 	<p><b>John F. Kennedy's Catholicism and Cuban Policy</b></p> <p>Chloe Smith</p>
<b>PATTERSON 110</b>	<p><b>Westminster College Analyst Program Analysis of DraftKings</b></p> <p>Alexandria Power, Samantha Levac</p>	<p><b>Cleveland Cavaliers Sports Business and Analytics Night</b></p> <p>Camdyn Cole, Emily Codere, Alexander Williams, Gabriel Nanney, Giulia Fenner, Grace Askey</p>	<p><b>I created a Music Therapy Program!</b></p> <p>Minnie Dischert</p>  	



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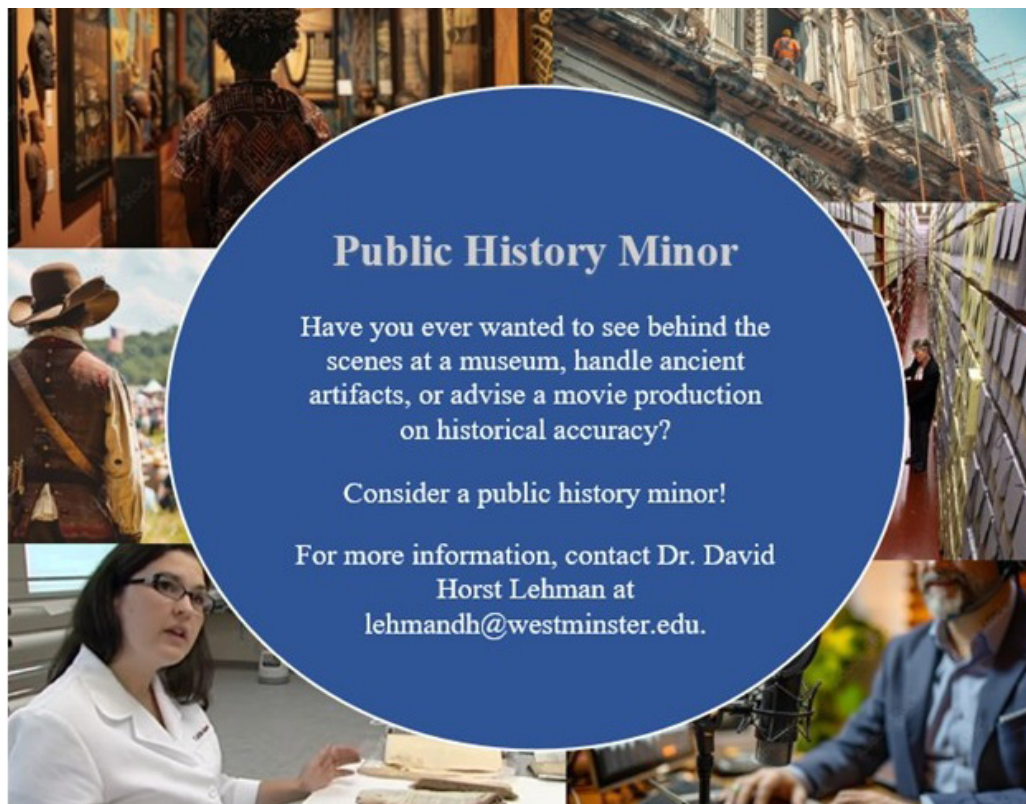
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# URAC•2026 CONCURRENT ORAL PRESENTATIONS

PATTERSON FIRST AND SECOND FLOORS

## CONCURRENT MORNING SESSIONS — 10-11:20 AM

	10:00 AM	10:20 AM	10:40 AM	11:00 AM
<b>PATTERSON 205</b>	<p><b>The Most Advertised Addiction</b></p> <p>Clifford Beck, Mason Paljich, Tyler Parsons</p>	<p><b>Originality of Literature and the Relation to Fanfiction</b></p> <p>Ava Karpa</p>	<p><b>The Cost of Competition</b></p> <p>Colin Bork, Ethan Croushore, Ryan Crissman</p>	<p><b>Performing Gender in <i>Fantomina</i> and <i>Paul's Case</i></b></p> <p>Kamryn Taylor</p> 
<b>PATTERSON 207</b>	<p><b>Cost of the Madness</b></p> <p>Kaleb Kuhn, Tyler Davis, Mick Hergenrother</p>	<p><b>Gender in the Dystopia: How Women are Retelling the Story</b></p> <p>Olivia Plummer</p>	<p><b>What Is The Smarter Move After College, Rent or Buy?</b></p> <p>Ryann Essey, Stacey Hockenberry, Peyton Moore</p>	<p><b>(t, r, R) Broadcast Domination on a Non-Uniform Reception Field</b></p> <p>Shawn Wooles</p>



### Public History Minor

Have you ever wanted to see behind the scenes at a museum, handle ancient artifacts, or advise a movie production on historical accuracy?

Consider a public history minor!

For more information, contact Dr. David Horst Lehman at [lehmandh@westminster.edu](mailto:lehmandh@westminster.edu).

# URAC•2026 CONCURRENT ORAL PRESENTATIONS

PATTERSON FIRST AND SECOND FLOORS

## CONCURRENT AFTERNOON SESSIONS — 1:30-2:50 PM

	1:30 PM	1:50 PM	2:10 PM	2:30 PM
<b>PATTERSON 105</b>	<b>Domination in Chessboards</b>  Grace Askey	<b>Unwinding the tail: The fate of histone mRNA</b>  Kevin Walker	<b>A Sociological Ethnography of an Amish-hosted Meal and its Surrounding Settlement</b>  Lanna Dellick, Alexandria Bender, Emma Christensen, Stephan Gibson, Gabriella Jackson, Ava Konton, Madelyn McClain, Ruth Shindledecker, Jacob Wagner  	
<b>PATTERSON 107</b>	<b>Your Financial Future: 401K vs. Roth IRA</b>  Camri Andrews, Amanda Lewis	<b>Strategies for Intelligent Agents to Play Blokus</b>  Jeffery Hinderliter, Solomon Davis	<b>Who Killed JonBenét Ramsey?</b>  Makayla Francis	<b>Insight into antibiotic resistance: An investigation of biofilm-producing bacteria</b>  Talía Morgenstern  
<b>PATTERSON 110</b>	<b>Let's Talk: Health and Wellbeing</b>  Becky Whitman	<b>Voting Post-Shelby County v. Holder: Restrictive Voting Legislation &amp; Minority Voter Participation</b>  Sarah Anil Cherian   		<b>Such That I Could Slip Away</b>  Olivia Plummer



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RESEARCH AWARD CANDIDATE

# URAC•2026 CONCURRENT ORAL PRESENTATIONS

PATTERSON FIRST AND SECOND FLOORS

## CONCURRENT AFTERNOON SESSIONS — 1:30-2:50 PM

	1:30 PM	1:50 PM	2:10 PM	2:30 PM
<b>PATTERSON 205</b>	<p><b>Substituent Effects on the Phosphorescence Quantum Yield of Europium(III) Complexes with Saltren Ligands</b></p> <p>Dominic Guiffre</p>	<p><b>Silenced No More: Spanish Female Writers Reclaiming History</b></p> <p>Haley Bittel</p>	<p><b>Hardwired for Apathy: The Influence of Callous-Unemotional Traits on Punishment Processing</b></p> <p>Kole Alcorn</p> 	
<b>PATTERSON 207</b>	<p><b>Cell Towers and Forest Fires: the Math of Propagation</b></p> <p>Zachary LaFrankie</p>	<p><b>Frankenstein and the Fear of Female Agency</b></p> <p>Mady Goodrich</p>	<p><b>Debt for Degree: What You Need to Know About Student Loans</b></p> <p>Morgan Kaylor, Haley Bittel, Tory Hinchberger</p>	<p><b>“War was always here”: A Study of Brutality and Dispossession in <i>Blood Meridian</i></b></p> <p>Kamryn Taylor</p> 

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# BUZZFEED

**WESTMINSTER COLLEGE  
STUDENTS, BEEKEEPING, & SOCIAL MEDIA**



# IMPACT of YOUR SUPPORT

From community building to creating new academic learning spaces, support from students, staff, and the alumni community helps us build a better tomorrow at Westminster. Here's what donor dollars have recently helped bring to existence on campus!



**CAMPUS SPIRIT:**  
Giving Day helped raise money to purchase a new Titan mascot costume!



## INNOVATIVE SPACES:

Donor dollars helped create a new crime lab and learning room for expanding academic programs.



## WHEREVER NEEDED MOST:

100% of students receive financial aid. Donor dollars to Wherever Needed Most and the Westminster Fund help to support students with important supplemental funding to make their WC dream a reality.

## COMMUNITY BUILDING:

Friends of the college pitched in to help fund the warm and inviting gas fire pit space overlooking the UPMC Sports Complex.





Office of Institutional Advancement



# URAC•2026 FEATURED PODIUM PRESENTATIONS

MUELLER THEATER

## MORNING SESSION — 12-1 PM

<b>12-12:25 PM</b>	<b>AI-Assisted Composition for Bands and Orchestra: Enhancing or Replacing Creativity?</b>  Shannon Witkouski Advisor: Dan Perttu
<b>12:30-12:55 PM</b>	<b>Nicotine and GLP-1s effects on learned anxiety in a rodent model</b>  Catherine Clark Advisor: Deanne Buffalari  

## AFTERNOON SESSION — 3-4 PM

<b>3-3:25 PM</b>	<b>The Laws of Romance: Analyzing Contemporary Romance Quality</b>  Chloe Smith Advisor: Bob Craven 
<b>3:30-3:55 PM</b>	<b>Star Trail: The Modern App That Turns Moments Into Momentum</b>  Rosh Talla Defo Advisor: Bob Badowski 

# URAC•2026 ROUNDTABLES

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## PATTERSON AND BERLIN LOUNGE

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### RESEARCH ROUNDTABLES — PATTERSON 208

<b>10-10:45 AM</b>	<p><b>Beaver County Industrial Museum Project</b></p> <p>Jacob Wagner, Andrew Kladitis, Jack Poller, Morris, Christian Pascarella, Jackson Hauser, Jackson Humes, Christopher Maloberti</p> <p>Moderated by Patricia Clark</p>
<b>3-3:45 PM</b>	<p><b>The Model UN AMUN Conference</b></p> <p>Sarah Anil Cherian, Ryan Crissman, Abigail Perrine, Marayna Sanders</p>

### WEC ROUNDTABLES — BERLIN LOUNGE

<b>10-10:30 AM</b>	<p><b>PTSD and Support for Veterans</b></p> <p>Alexa Young, Sarah Jones</p>
<b>10:30-11 AM</b>	<p><b>Restaurant Improvement</b></p> <p>Berniece Swan, Stephan Gibson, Ian Temple, Jady Malizia</p>
<b>11-11:30 AM</b>	<p><b>Creating Start-up/Improving Quality of Business</b></p> <p>Breanna Becker</p>
<b>11:30-12 PM</b>	<p><b>JCL of Sharon PA</b></p> <p>Morgan Reidy, Katelyn Kerr</p>
<b>12-12:30 PM</b>	<p><b>Redi Mix</b></p> <p>Rosh Talla Defo, Andy Oberdick, Bennett Shaw</p>
<b>12:30-1 PM</b>	<p><b>AI and the Impact on Developing Regions in PA from an Entrepreneurial Perspective</b></p> <p>Giulianna Russell</p>

SAVE  
THE  
DATE

25  
SEPT.



# Professional Network Symposium

PDCE  
PROFESSIONAL DEVELOPMENT  
& COMMUNITY ENGAGEMENT

W  
ALUMNI

Opportunities for students,  
alumni, and friends of  
Westminster College to meet  
and network with others in  
their field

[pdce@westminster.edu](mailto:pdce@westminster.edu)

For last year's agenda:  
<https://bit.ly/PNS25schedule>

**URAC•2026**

CREATIVE WORKS &  
MUSICAL PERFORMANCES


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**The Quad, McKelvey, & Patterson**

# URAC•2026 CREATIVE WORKS

MCKELVEY, PATTERSON, AND THOMPSON-CLARKE

## ART DISPLAYS

<b>IN AND AROUND FOSTER ART GALLERY</b>	<b>ARTISTS PRESENT AT 11:20 AM</b>
	<b>Twisted Chandelier</b> —Cecelia Doyle
	<b>Wire Spider Lily</b> —Morris
	<b>Blooms</b> —Jamie Robertson
	<b>Suspended Light</b> —Jamie Robertson
	<b>Chapped Lips</b> —Phoebe Shultz
	<b>The Imprint</b> —Kirsten Hicks 
	<b>Art in Makeup</b> —Alexa Tovarnak

## POP-UP ART EXHIBITS

<b>2nd FLOOR MCKELVEY</b>	<b>EXHIBITS AVAILABLE ALL DAY</b>
	<b>Cardboard Protest Prosthetics</b>  ART 103-Basic 3D Studio Art
	<b>Images + Material</b>  ART 217-Creative Photography, From Sun to Pixel
<b>THOMPSON CLARKE/ MCKELVEY 2nd FLOOR HALLWAY</b>	<b>Work on display from students in the following courses:</b>  CMP 110-Graphic Design; CMP 114-Photography; CMP 247-Advanced Design and Advertising; and CMP 260-Typography

# URAC•2026 MUSICAL PERFORMANCES

## MCKELVEY AND THE QUAD

### MUSIC

<b>MCKELVEY TUB</b>	<b>9:45-10 AM</b>
	<b>Chamber Singers Performance</b> Sophia Smith, Isabella Capocci, Kristalyn Merat, Brenton Rahman, Braydan Springer, Maysen Stewart, Abigail Christy, Minnie Dischert, Anna Hall, Amelia Klinar, Nolan Lapikas, Elena Macdonald, Bennett Shaw, Gabriel Spinello, Clay Torr, Tyler Wittmann, Jane Patterson
	<b>11:00-11:15</b>
	<b>Ceòl na Teud: Scottish String Music</b> Ryan Lucas, Liam (William) Pry, Zachary LaFrankie, Jacob Weber, Charlotte Grubbs, Blaise Steele, Kai Douglass, Maysen Stewart, Carter Liang
	<b>1:00-1:15</b>
	<b>The Westminster Trombone Company</b> Benjamin Burke, Ryan Lucas, Michael Lyle-Yucha, Laci Marstellar, Evelyn Mong, Timothy Mulcahy, Sophia Smith, Mitchell Tokar, D'Artagnan Whalen

### POETRY AND SCRAWL RELEASE

<b>MAIN QUAD</b>	<b>9 AM-4 PM</b>
	<b>Where They Are From: A Poetry Collection from the Class of 2029</b>
<b>CULTURAL CENTER</b>	<b>9 AM-4 PM</b>
	<b>SCRAWL Spring 2026 Release Table</b>
	<b>12-1 PM</b>
	<b>SCRAWL Release Party</b>
	<b>1-2 PM</b>
	<b>Sigma Tau Delta Poetry Slam</b>

# IT'S ME, HI. I'M THE LIBRARIAN IT'S ME

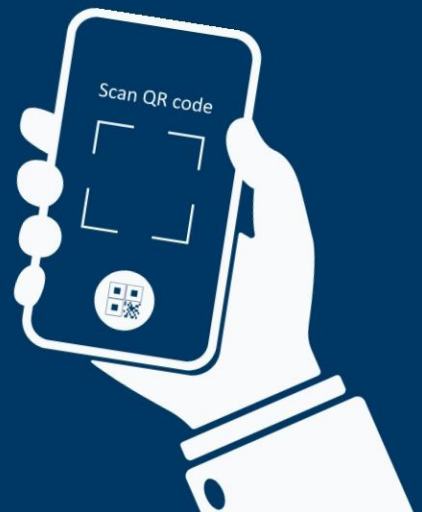
## Looking for a librarian?

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*Schedule time to meet with a librarian in the HUB or head on down to their offices!*



*Book time with  
**Jamie Kohler***



**URAC•2026**

VIDEO SCREENINGS &  
TRAVEL EXPERIENCES

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**Mueller Theater & Cultural Center**

Westminster College



The Titan Network

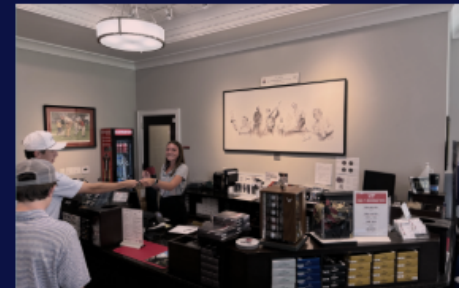


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**PDCE**  
PROFESSIONAL DEVELOPMENT  
& COMMUNITY ENGAGEMENT



## Signature Events

- Professional Networking Symposium connecting students with alumni and professionals to explore career paths
- Beyond the Quad series bringing students and the community together
- Alumni-led workshops and collaborative projects providing hands-on experiences beyond the classroom

The PDCE office at Westminster College helps students build the skills and connections needed for success after graduation. Through workshops, one-on-one coaching, and networking opportunities, PDCE connects classroom learning with real-world experience while supporting students as they explore careers, prepare for jobs, and engage with the community.

Would you also like to connect with the PDCE?  
Our offices are MCC 266 and 267. Email: [pdce@westminster.edu](mailto:pdce@westminster.edu)

## MUELLER THEATER AND THE CULTURAL CENTER

### VIDEO SCREENINGS

<b>MUELLER THEATER</b>	<b>10:30 AM</b>
	<b>Westminster College Titan Marching Band</b> Benjamin Burke
	<b>10:45 AM</b>
	<b>Room 152 - 48 Hour Film Project, Fall 2025</b> Braylon Juszak, Brock Covell, Jacob Reutzel, Stephan Gibson, Ethan Kurtz, Szanna Seymour, Savannah Telshaw, Cailyn Crawford
	<b>11:00 AM</b>
	<b>The Belltower Chronicles</b> Jacob Reutzel
	<b>11:10 AM</b>
	<b>The House That Sang</b> Jacob Spiritoso, Ethan Schohn, Reese Risavi, Seth Carroll, Thomas Rook, Zoie Reid, Jayden Jackson, Jack Steimle
	<b>11:30 AM</b>
<b>"Bad Habits": A Comedy Television Pilot</b> Madyson Treharne	

### TRAVEL EXPERIENCES

<b>CULTURAL CENTER</b>	<b>11-11:30 AM</b>
	<b>Shining a Light on Mental Health in the Latino Population- Dominican Republic</b> Rachel LaSalvia, Alexandria Bender, Madelyn McClain, Melanie Porras 
	<b>11:30-12 PM</b>
<b>Where Care Meets Culture: Nursing in the Dominican Republic</b> Hannah Bittel, Darianne Meachem  	



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HEALTH AND WELL-BEING  
AWARD CANDIDATE

# Congratulations to our **TRIO** Scholars Presenting or Performing at URAC!

- Abigail Guiste
- Minnie Dischert
- Kirsten Hicks
- Talia Kreider Helman
- Darianne Meacham
- Gabriella Morris
- McKenna Spotts
- Bianca Vazquez
- Iris Sprungl
- Emma DeSimone
- Cassie Evans
- Sophia Klonowski
- Emily Marchlewski
- Peyton Moore
- Talia Morgenstern
- Jane Patterson
- Jamie Robertson
- Bernice Swan

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**URAC•2026**

PUBLIC SPEECH & DEBATE

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**Berlin Lounge**

# BACCALAUREATE & COMMENCEMENT MAY 9, 2026



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[PLANETARIUM@WESTMINSTER.EDU](mailto:PLANETARIUM@WESTMINSTER.EDU)

# URAC•2026 PUBLIC SPEECH & READER'S THEATER

BERLIN LOUNGE

## PUBLIC SPEECHES

2:20 PM	2:30 PM	2:40 PM
<b>Dear Eavan Boland</b> Chloe Porter	<b>Graveyard</b> Ellie Toma 	<b>Roe</b> Emaline Litwiler, Ellie Toma 
2:50 PM	3:00 PM	3:10 PM
<b>Extemporaneous Speaking</b> Nathan Barber	<b>Truxic Masculinity</b> Ruth Shindledecker	<b>Stay Woke</b> Stephan Gibson 

## READER'S THEATER

3:30-4 PM
<b>America at 250, Adams Family Values'</b> Jacob Gaffron, Nathan Barber, Stephan Gibson, Chloe Porter, Emaline Litwiler, Ellie Toma, Ruth Shindledecker



# WESTMINSTER BEE COMPANY

## Our Mission

We provide sustainable, natural, and local honey and bee products from Westminster College's Apiary. This venture and your purchase supports students, a hands-on education, and the environment.

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Congratulations to all undergraduate researchers, performers, and artists presenting today!

What a great day to BEE a Titan!

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# Religion and Philosophy @ Westminster College

**36 Credit Major // 24 Credit Minor**

How should we develop ourselves in an era of rapid social and technological change? What kind of education will help us remain adaptable, resilient, and thoughtful in an increasingly unpredictable world?

The world's religious and philosophical traditions are answers to timeless, fundamental questions: why do we exist? How do we live a good life? Why is the world the way that it is? Religious studies and Philosophy are critical and humanistic disciplines in which we work collaboratively to understand how human beings have engaged these basic questions, throughout history and today.

Majors and minors will:

- Learn to understand, appreciate, and critique the history and teachings of the world's wisdom traditions,
- Set themselves apart as capable navigators of cultural diversity and understanding,
- Hone their critical, creative, and communication abilities in a variety of methods and media,
- Learn to read challenging texts and negotiate complex ideas.

<https://www.westminster.edu/academics/schools/arts-humanities/philosophy-religion/majors.cfm>

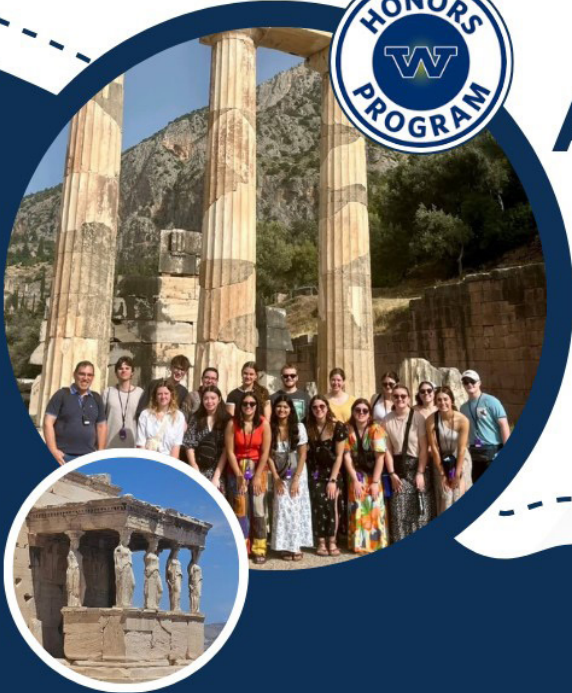
For more information, contact Assistant Professor Timothy Grieve-Carlson: [grievetr@westminster.edu](mailto:grievetr@westminster.edu)



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# PROFESSIONAL HEADSHOTS

APRIL 22ND  
9-11AM AND 1-3PM  
MCKELVEY 274



## Titan Endowment Investment Practicum

*Invest in Your Future — While Managing Ours*

Interested in learning how real investment portfolios are managed? The Titan Endowment Investment Practicum allows students to work with actual Westminster College endowment funds while gaining hands-on experience in investment management.

### What You'll Do:

- Research and evaluate investment opportunities
- Analyze financial markets and portfolio performance
- Develop investment recommendations
- Participate in real portfolio management discussions
- Contribute to the long-term growth of Westminster College's endowment

### Who Can Participate?

This practicum is open to students from ALL majors who are interested in investing, financial markets, and how endowments support institutions. No prior investing experience is required —just curiosity and a willingness to learn.

**Build real-world investing skills while helping grow Westminster's future.**  
For more information, contact: Dr. Jennifer Waldo @ [waldoj@westminster.edu](mailto:waldoj@westminster.edu)

SAVE THE DATE



Sponsored by the Harms Center for the Environment at Westminster College  
and the Slippery Rock Watershed Coalition

The Student Symposium on the Environment is hosted each December by Westminster College to highlight environmental study, research, artistic expression, internships, and service work being done by students in the region. Individual, group, and class projects are welcome. Students from all disciplines, ranging from high school through graduate school, are encouraged to participate. Research posters, art work, oral presentations, video shorts and even performances are welcome.

Thursday, December 3, 2026

McKelvey Campus Center

Westminster College

There's a place for you  
in

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*Choirs*

**THREE  
EXCELLENT  
ENSEMBLES**

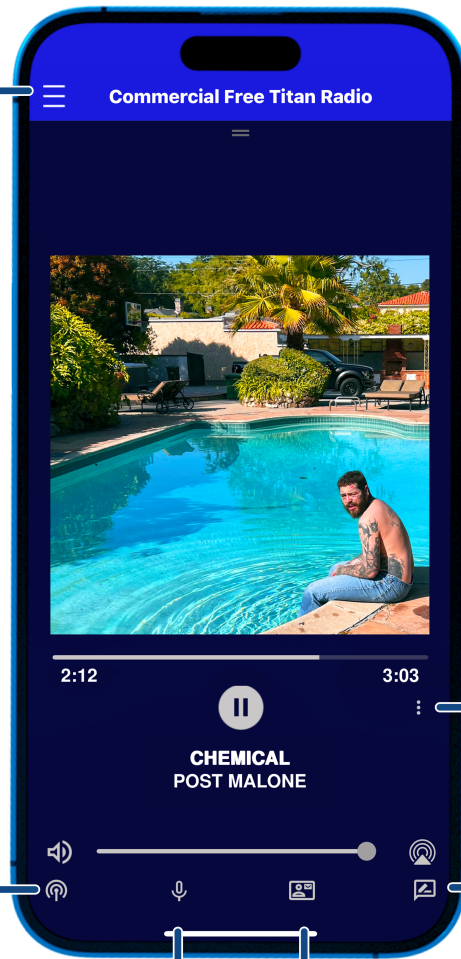
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Director of Choral Activities  
[keelinra@westminster.edu](mailto:keelinra@westminster.edu)**

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Drinko Center for Undergraduate Research

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