

# Undergraduate Research & Arts Celebration

— 2 0 2 5 —

Wednesday,  
April 23rd, 2025



Sponsored by The Drinko Center  
for Undergraduate Research

WESTMINSTER COLLEGE



# WELCOME TO URAC 2025!

Westminster College is proud to host the 2025 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 every Titan should be proud of. 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.

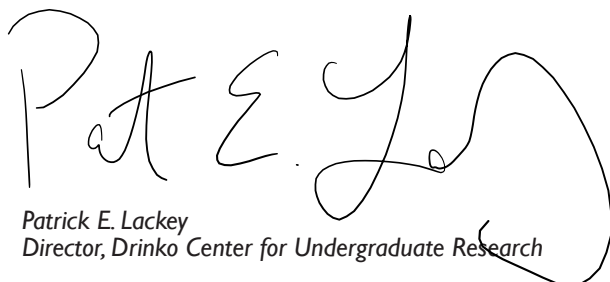
The Westminster College mission statement includes eight essential outcomes: to reason logically and evaluate critically; to communicate effectively; to think creatively and appreciate aesthetic expressions; to demonstrate intellectual curiosity; to acquire knowledge of self, society, human cultures, 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, and displayed today embodies all of these outcomes and is a testament to the value of a Westminster education.

Creating something is difficult, and today's participants will tell you that everything you see today-- each graph, poem, film frame, data figure, and musical note-- is the result of hours of practice, countless drafts, and late nights in the lab to get the experiment just right. Because of this hard work, the 2025 URAC participants are excited to share their work with you. I am proud of these students for this work, and for the courage it takes 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, administration, 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 staging 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 2025

#WCURAC



## EVENT SCHEDULE

9 AM-4 PM

**SCRAWL 2025 RELEASE TABLE** *Cultural Center*

9-10 AM

**WHERE THEY ARE FROM: A POETRY COLLECTION  
BY THE CLASS OF 2028** *Quad*

9:45-10 AM

**POSTER SESSION A**

*Witherspoon Rooms*

10-10:45 AM

**THE TRUMPET TROUPE**

*McKelvey TUB*

10-11 AM

**RESEARCH ROUNDTABLE**

*Patterson 106*

10-11:20 AM

**HOW TO GET STARTED IN RESEARCH**

*Berlin Lounge*

11-11:15 AM

**WESTMINSTER TRAVEL EXPERIENCES**

*Cultural Center*

11-11:45 AM

**CONCURRENT ORAL PRESENTATIONS**

*Patterson 1st/2nd Floor*

11:45 AM-12:00 PM

**THE WESTMINSTER COLLEGE TROMBONE COMPANY**

*McKelvey TUB*

11 AM-12 PM

**VIDEO SCREENINGS**

*Mueller Theater*

**CHAMBER SINGERS PERFORMANCE**

*McKelvey TUB*

11:20 AM-12:20 PM

**POSTER SESSION B**

*Witherspoon Rooms*

**SCRAWL RELEASE PARTY**

*Cultural Center*

12-1 PM

**ART DISPLAY**

*Outside Foster Art Gallery*

12:30-1 PM

**FEATURED PODIUM PRESENTATION SPEAKERS**

*Mueller Theater and Facebook Live*

1-2 PM

**ART GALLERY TALK**

*Foster Art Gallery*

**POSTER SESSION C**

*Witherspoon Rooms*

1:15-2 PM

**ART DISPLAY**

*Third Floor Atrium, McKelvey*

1:30-2:50 PM

**RESEARCH ROUNDTABLE**

*Patterson 106*

2 PM-3 PM

**CONCURRENT ORAL PRESENTATIONS**

*Patterson 1st/2nd Floor*

2:20-2:50 PM

**POETRY SLAM** *Cultural Center*

**PULSE AND PASSION: PERCUSSION ENSEMBLE**

*Orr Auditorium*

2:30-4 PM

**PUBLIC SPEECHES**

*Berlin Lounge*

3-3:45 PM

**RESEARCH ROUNDTABLE**

*Patterson 106*

3-4 PM

**FEATURED PODIUM PRESENTATION SPEAKERS**

*Mueller Theater and Facebook Live*

**POSTER SESSION D**

*Witherspoon Rooms*



# Poetry Slam at WRAU!

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Hosted by SCRAWL & Sigma Tau Delta

April 23<sup>rd</sup> | 2:00pm

Cultural Center

Join us for a friendly poetry competition!



# URAC•2025 RESEARCH EXPERIENCE PANEL

## GETTING STARTED IN RESEARCH

BERLIN LOUNGE 10-11 AM

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

Attendees will have the opportunity to ask the panelists questions!

### PANELISTS:

Haley Bell Sophomore English	Zack LaFrankie Senior Physics and Math	Addison Lenz Senior Early Childhood/Special Education
Luvada Mayle Senior Psychology	Talia Morgenstern Junior Molecular Biology	Rhett Sanderson Senior Materials Science



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 2ND TO BE ENTERED FOR A CHANCE TO WIN A  
\$25 SHEETZ GIFT CARD!

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



**URAC•2025**

POSTER PRESENTATIONS

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**Witherspoon Rooms**

# URAC•2025 POSTER PRESENTATIONS

POSTER NUMBER	TITLE	RESEARCHER(S)	FACULTY SPONSOR	
<b>SESSION A — 9-10 AM</b>				
A1	Creative, Collaborative, Community: Uniting Town and Gown for A Better Tomorrow	Ashlee Douglass, Talia Kosonovich, Katelyn Kerr, Elysia Morris, Macaria Benjamin, Deja Keo, Gianna DiCerbo, Nereida Arzola-Mora, Chloe Brodison-McMinn, Marlowe Frelin, Maura Mahoney, Hannah Plowman, Nicholas Vitale	Helen Boylan	
A2	Feared Possible Selves as a Moderator Between OCD Symptoms and Functional Impairment	Allison Augustine	Jessica Rhodes	
A3	ECO 380 Simulated Stock Portfolio Project	Jacob Auchter, Lainee Puhl, Loren Waldo, Jacob Baumgart	Jennifer Waldo	
A4	Prevalence of Needlestick and Sharps Injuries Among Nurses in a Healthcare Setting	Mackenzie Avery	Joni Darby	
A5	3' exoribonuclease 1's Binding Affinity for Histone mRNA Stem-Loop Degradation Intermediate Sequences	Mason Baldwin	Patrick Lackey	
A6	Stress Levels and Coping Styles in Westminster College Students	Ashlyn Brown	Loreen Huffman	
A7	SkimStones- Website Design & Development	Ethan Burford, Keenan Heeter, Sebastian Dinardo, Jacob Miller	Jennifer Waldo	
A8	The adverse effects of butylparaben and methylparaben exposure on the cardiovascular system of zebrafish embryos	Natalie Calvert	Marosh Furimsky	
A9	Market Watch Investment Simulation	Christopher Davis, Chase Thomas, Alexander Hough, Christian Latone	Jennifer Waldo	
A10	The Effect of Beta-Hydroxy-Beta-Methylbutyrate on mTOR Expression During Limb Regeneration	Lucas Esqueda	Joshua Corrette-Bennett	
A11	Multinational Trade in India	Ryan Feth, Christopher Davis, David Kelly	Jennifer Waldo	








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FIRST-YEAR PRIZE CANDIDATE



HEALTH AND WELL-BEING  
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POSTER NUMBER	TITLE	RESEARCHER(S)	FACULTY SPONSOR	
A12	Aging in the Digital Spotlight: How Social Media Shapes Perceptions of Growing Older	Marlowe Frelin	Loreen Huffman	
A13	Acute Cocaine Withdrawal Effects on Avoidance Learning in Male and Female Rats	Savannah Furlong	Deanne Buffalari	
A14	Financing a Multinational Company	Ryan Gibbons, Quinn Morrow, Gino Piraino	Jennifer Waldo	
A15	Improving Pain Reassessments with Visual Reminders	Elizabeth Grove	Maria Sapienza	
A16	Phosphorescence Quantum Yield of Lanthanide Based Complexes using Highly Conjugated Ligand Systems	Dominic Guiffre	Pete Smith	
A17	Identification of bacterial species in brass instruments using 16s rDNA PCR	Emily Hipolito	Joseph Balczon	
A18	Investigating the spatial repellency effects of two plant-based compounds compared to DEET in the disease vector Aedes albopictus	Aidan Johnston	Diana Ortiz	 
A19	Public Memory: The Suffragist Statue in Central Park	Ethan Kurtz, Cassady Ellsworth, Ethan Schohn, Brady Page	Angela Lahr	
A20	Examining the Effect of Nature Therapy on Emotion Regulation	Emma Little	Jessica Rhodes	
A21	Red, White, & Travel	Dylan Llewellyn, Dante Compagni, Mason Manos	Jennifer Waldo	
A22	A Special Education Experience for Pre-Service Student Teachers	Sydney Lokay, Sarah Eisenhuth	Emily Mazzant	
A23	Public Memory: Pittsburgh Stephen Foster Statue	Maura Mahoney, McKenzie Kessler, Harlan Burtner, Madison Syka, Brady Robison	Angela Lahr	
A24	Sweet as Honey: How Seasonal Factors Affect Antioxidant Content Within Honey	Emily Marchlewski	Jessica Sarver	 
A25	Public Memory: The Valley of The Fallen	Morris, Alexander Dominick, Alexander Rothwell, Kaleb Kuhn	Angela Lahr	

POSTER NUMBER	TITLE	RESEARCHER(S)	FACULTY SPONSOR
A26	Public Memory: Comfort Women Statues	Tyler Parsons, Ian Evans, Cameron Lafayette, Christina Loewe	Shannon Smithey
A27	Outsourcing Service Work to India using a US-Based Multinational Corporation	Ron Whitehouse, Colin Bork, Colin Fabich	Jennifer Waldo

## SESSION B — 11 AM-12 PM

B1	Creative, Collaborative, Community: Uniting Town and Gown for A Better Tomorrow	Ashlee Douglass, Talia Kosonovich, Katelyn Kerr, Elysia Morris, Macaria Benjamin, Deja Keo, Gianna DiCerbo, Nereida Arzola-Mora, Chloe Brodison-McMinn, Marlowe Frelin, Maura Mahoney, Hannah Plowman, Nicholas Vitale	Helen Boylan	
B2	Novel Stripping Methods for Sustainable Lithium Solvent Extraction	Ellian Ascencio	Pete Smith	
B3	The Effects of Nicotine on Painful and Aversive Stimuli	Isabella Barnabei	Deanne Buffalari	
B4	Neurogenesis in Down Syndrome: A Review of Pharmacological Treatments and Ethical Considerations	Vince Belice	Loreen Huffman	
B5	Improving Communication between Nurses During Handoff	Sara Bubb	Joni Darby	
B6	Exploring the Connections between Spillover Effect, Secondary Traumatic Stress, and Post-Traumatic Growth in Mental Health Workers.	Bella Buettner	Loreen Huffman	
B7	Investment Simulation Report	Ethan Burford, William Levak, Angelina Nardone, Xavier McDonald	Jennifer Waldo	
B8	Detecting and Quantifying Beet Syrup in Multifloral Honey Using IR Spectroscopy and Multivariate Analysis	Zach Burghgraef	Erin Wilson	




POSTER NUMBER	TITLE	RESEARCHER(S)	FACULTY SPONSOR
B9	PixelHaven Ecommerce Marketing Platform Research	Jay Corey, Brandon Jennings, DeMere White, William Hess, Jay Corey	Jennifer Waldo
B10	Fall Prevention Education in Older Adults	Taylor Dlugozima	Joni Darby
B11	Market Watch Investing Game	Colin Fabich, Alexander Williams, Bryan Roselli, Ryan Roselli	Jennifer Waldo
B12	Primary Election Types and Their Impacts on Congressional Voting	Erin Fosgreen	Michael Aleprete
B13	Enduro-Ring	Gia Francisco, Amanda Lewis, Natalie Vilchek, Alessandra Zervanos	Jennifer Waldo
B14	Investigating the Impact of the enzyme Monoamine Oxidase on Aggression in Zebrafish	Lily Hefner	Marosh Furimsky
B15	What is the efficacy of Piper nigrum extract as a repellent on the feeding behaviors of female Aedes albopictus?	Matthew Howard	Diana Ortiz
B16	Factors Associated with COPD and CHF Exacerbation and Reducing Readmission Risk.	Marissa Samantha Jimenez	Joni Darby
B17	Public Memory: King Leopold II	Benjamin Kelly, Cheyenne Burgos, Joshua Reed, Kayleigh Stinedurf	Shannon Smithey
B18	Sluggish Cognitive Tempo as a Moderator between Attention Deficit/Hyperactive Disorder and Depression	Amber Krebs	Jessica Rhodes
B19	Family Dynamics: Outcomes of Resilience and Socioemotional Development of Single-Parent and Two-Parent Households	Nayana Lukus	Loreen Huffman
B20	An Examination of the Mediating Role of Emotional Impulsivity in the Relationship Between ADHD Symptoms and Nicotine Consumption in College Students	Mia Meholick	Jessica Rhodes



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POSTER NUMBER	TITLE	RESEARCHER(S)	FACULTY SPONSOR	
B21	ZAPZ Golf (Website design and development)	Zach Meszaros, Brady Page, Zachary Reid, Anthony Trella	Jennifer Waldo	
B22	The New Front Porch	Shea O'Donnell Stephen Antuono, Colin Bork, Braden Bosco, Brice Butler, Dante Compagni, Christopher Davis, Tarell Hefflin, Brooke Horvath, Jackson Lawrence, Amanda Lewis, Evan Lewis, Jady Malizia, Mason Manos, Brody McGuinness, Morgan Murphy, Shea O'Donnell, Andy Oberdick, Tyler Parsons, Eva Semieraro, Alex Shaughnessy, Michael Tokar, Joseph Trudeau, Jalen Washington, Ron Whitehouse, Kevin Wright	Eric Gaber	
B23	Stryv	Chalmer Ritzert, Anna-Katherine Davis, Alyjah McHugh, Justin Wypasek	Jennifer Waldo	
B24	Understanding Artificial Intelligence in Education	Alexis Shiderly, Adison Lenz, Alaina Moore	Emily Mazzant	
B25	Effects of levonorgestrel on zebrafish development	Danielle Teasdale	Marosh Furimsky	
B26	The Effects of Physical and Psychological Stress on Sucrose Consumption in Male and Female Rats	Ryleigh Valone	Deanne Buffalari	
B27	Improving Patient Education on Cardiac Catheterizations	Elizabeth Reed	Joni Darby	



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## SESSION C — 1-2 PM

C1	Creative, Collaborative, Community: Uniting Town and Gown for A Better Tomorrow	Ashlee Douglass, Talia Kosonovich, Katelyn Kerr, Elysia Morris, Macaria Benjamin, Deja Keo, Gianna DiCerbo, Nereida Arzola-Mora, Chloe Brodison-McMinn, Marlowe Frelin, Maura Mahoney, Hannah Plowman, Nicholas Vitale	Helen Boylan	
C2	Exploring the Impact of Adult ADHD with Comorbid Oppositional Defiant Disorder on Functional Impairment and Criminal Justice System Involvement	Lydia Ohm	Jessica Rhodes	
C3	The Effectiveness of Mindfulness on Nurse Burn-Out	Zoe Burkett	Joni Darby	
C4	Effects of caffeine on risk-taking behaviors in decision-making tasks	Hannah Coleman	Eric Fields	
C5	Meningococcal B Vaccine	Abbigail Dickie	Joni Darby	
C6	Identifying the chemical composition of kombucha tea	Gabriela Garza	Jessica Sarver	
C7	Co-abuse of Nicotine and Ethanol: Effects on Working and Long-Term Memory Driven by Appetitive vs Aversive Stimuli	Abigail Guiste	Deanne Buffalari	
C8	New View of School: A Student's Perspective on Student Engagement	Dalton Hamm	Emily Mazzant	
C9	Sex differences in the antidepressant efficacy of 5HT agonist	Ella Hildebrand	Deanne Buffalari	
C10	An Examination of Motivation and Personality in Young and Older Adults	Ava Houy	Loreen Huffman	
C11	Understanding the Role of 3'hExo in mRNA Histone Degradation Using Molecular Dynamic Simulations	Gabriella Hunter	Patrick Lackey	
C12	Multinational Corporations Manufacturing in Foreign Markets	Brandon Jennings, Xavier McDonald, Jalen Washington	Jennifer Waldo	

POSTER NUMBER	TITLE	RESEARCHER(S)	FACULTY SPONSOR
C13	Phytoremediation of Lead and Root Foraging Avoidance of Catnip, <i>Nepeta cataria</i>	Christine Rose Karn	Ann Throckmorton 
C14	Nature Therapy at Westminster College	Emma Little	Jessica Rhodes  
C15	The effect of $\beta$ -hydroxy $\beta$ -methylbutyrate (HMB) on rate of axolotl limb regeneration and digit formation	Sara MacMurdo	Joshua Corrette-Bennett
C16	Memetic Rhetoric in Marketing	Alyjah McHugh	Eric Gaber
C17	Multi-National Company Analysis: Germany Pure Glas Product	Peyton Mele, Stephen Antuono, Angelina Nardone	Jennifer Waldo
C18	The impact of HMB on fgf8 expression levels during <i>Ambystoma mexicanum</i> limb regeneration	Alondra Melendez	Joshua Corrette-Bennett
C19	DIY Auto Titrator	Charlie Moller	Erin Wilson
C20	Ecommerce website poster presentation	Quinn Morrow, Christopher Rotiroti, Jaxon Hendershott, Drew Weir	Jennifer Waldo
C21	Website Development of E-commerce	Peyton Pauline	Jennifer Waldo
C22	Impact of Attending the Pennsylvania Intercollegiate Band Festival	Shelby Rebecca Pocono, Shannon Witkouski, Benjamin Burke, Timothy Mulcahy, Shawn Redmond, Morgan Ross	Aaron Himes
C23	Innovation Meets Finance: Simulation of a Singaporean FinTech Startup Company in Today's Global Market	Mackenzie Powell, Morgan Murphy, Conner Roberts	Jennifer Waldo
C24	Canadian Travel Agency	Ashly Roa, Jonas Clark, Gavin Jones	Jennifer Waldo
C25	Preventing Falls in the Dementia Population	Brooke Terwilliger	Joni Darby  
C26	Bone Deep: A Clean Sweep of an American Alligator Skull	Kevin Walker	John Robertson
C27	Mental Imagery, Emotional Valence, and Item vs. Associative Effects on Memory	Makyla Wheeler	Eric Fields



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## SESSION D — 3 PM-4 PM

D1	Creative, Collaborative, Community: Uniting Town and Gown for A Better Tomorrow	Ashlee Douglass, Talia Kosonovich, Katelyn Kerr, Elysia Morris, Macaria Benjamin, Deja Keo, Gianna DiCerbo, Nereida Arzola-Mora, Chloe Brodison-McMinn, Marlowe Frelin, Maura Mahoney, Hannah Plowman, Nicholas Vitale	Helen Boylan	
D2	Ethanol Exposure Impacts: Cardiac Development and Function in Zebrafish	Lauren Gross	Marosh Furimsky	
D3	The Affect of Cannabis on Working Memory in Relation to Stress	Nydia Johnson	Deanne Buffalari	
D4	Public Memory: The Recent Debate Over the Presentation of History at James Madison's Montpelier	Amanda Lewis, Justin Ranft, Charles Stapleton, Harleigh Bishop, Cade Hancox	Shannon Smithey	
D5	Why Did the Populist Party in Poland Lose?: A Comparative Case Study of Populism in Poland and Hungary	Christina Loewe	Michael Aleprete	
D6	Effect of Nicotine on Chronic Stress Induced Working Memory Deficits	Luvada Mayle	Deanne Buffalari	
D7	Public Memory: Cecil Rhodes	Deshaun Michael Mcbryde, Gabriel Martinez, Sophia Klonowski, Trent Davey, Thomas Rook	Angela Lahr	
D8	American Model United Nations Conference	McKenzie Means, Sarah Anil Cherrian, Olivia Plummer, Ryan Crissman, Sophia Klonowski, Christina Loewe, Hayden Kenny, Lucas Crow, Marayna Sanders, Nathan Barber, Tyler Hager, Victoria Valcarcel Matos, Wesley Yeager, Lily Hefner, Chloe Brodison-McMinn, Joshua Furman	Michael Aleprete	
D9	Evaluating the Inhibitory Potential of Xylitol on Oral Biofilm Formation in Cariogenic Conditions	Anita Panatch	Joseph Balczon	

POSTER NUMBER	TITLE	RESEARCHER(S)	FACULTY SPONSOR
D10	Probing Membrane Binding of Alpha-synuclein Using Double Histidine Cu(II) Labeling And Electron Spin Resonance Spectroscopy	Ethan Moore, Kevin Walker	Jessica Sarver
D11	Entrepreneurship in Action with the Westminster Bee Company	Quinnlyn Reaver, Brody McGuinness, Shea O'Donnell, Abigail Painter, Nicholas Vitale, Tyler Young	Helen Boylan
D12	Analysis of Hexavalent Chromium in Drinking Water at Westminster College	Jamie Robertson	Ann Throckmorton
D13	Language Learning App in Guatemala	Bryan Roselli, Ryan Roselli, Tarell Hefflin	Jennifer Waldo
D14	Effect of siRNA knockdown of the icaA and icaD genes on biofilm formation in Staphylococcus aureus	Lyddia Rougeux	Joshua Corrette-Bennett
D15	Phone Essentials / E-commerce Marketing	Ian Runyan, Dylan Snyder, Jacob Lapinski, Kaydin Brown	Jennifer Waldo
D16	E-Commerce: Grit Gear Apparel Website Design	Tyler Salvatore, Christopher Davis, Connor Schmidt, Chase Thomas	Jennifer Waldo
D17	Alcohol abuse through adulthood	Gwenyth Sernulka	Loreen Huffman
D18	Unraveling the Impacts of Temperature on Zebrafish (Danio rerio) Embryonic Development	Sara Swanson, Harmony Wilson	Marosh Furimsky
D19	Electric Vibes: Gliding Through the Streets	Lucas Toohey, Michael Phillips, Ethan Croushore	Jennifer Waldo
D20	Vivir	Alexa Tovarnak, Anette Aryee, Caleigh Tack, Nathaly Gomez Espinoza	Jennifer Waldo
D21	Nicotine Reduction of Sucrose Consumption in Male and Female Rodents	Mackenzie Wagner, Morgan Juskowich	Deanne BuffalariTennant
D22	Personality Traits and College Majors	Brianna Wetzel	Loreen Huffman



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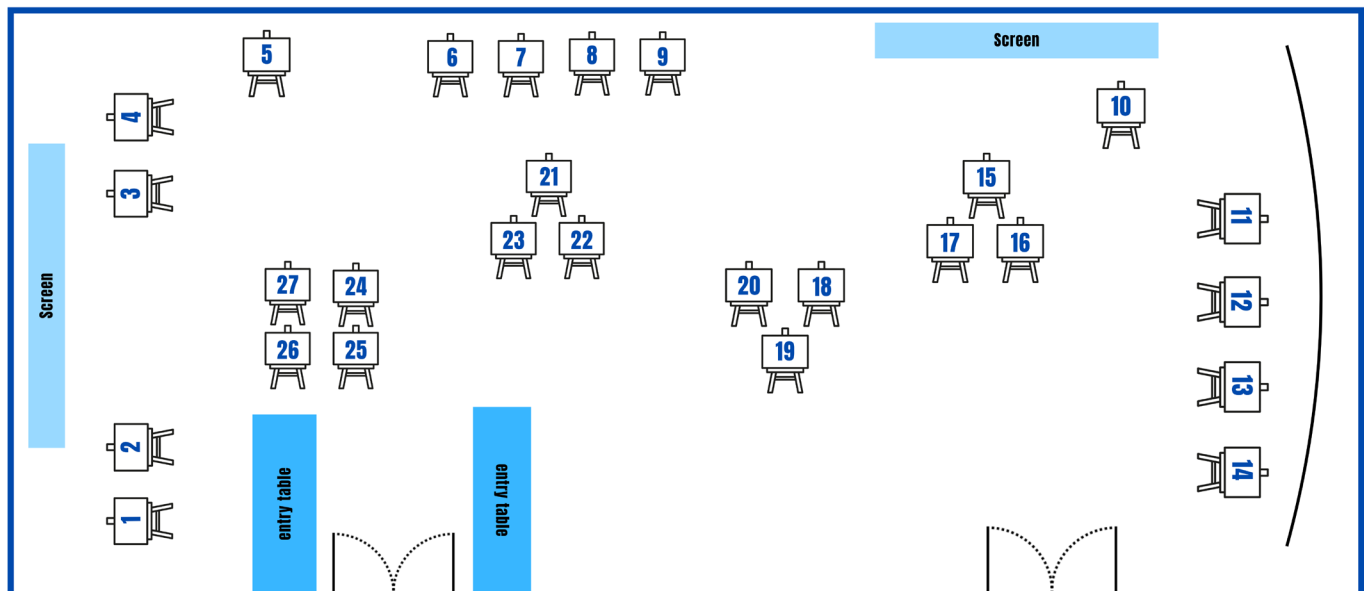
POSTER NUMBER	TITLE	RESEARCHER(S)	FACULTY SPONSOR
D23	MarketWatch Simulation Stock Portfolio	Ron Whitehouse, Nathaniel Philips, Ethan Croushore, Carter Haniford	Jennifer Waldo
D24	The Effects of Patient Education on Adherence to Medication Reconciliation in Dialysis Patients	Mackenzie Wigley	Joni Darby
D25	Effectiveness of Brine in Aluminum-Air Batteries	Joseph Wright	Pete Smith
D26	Reducing Hair Contamination in Surgical Instrument Trays: A Quality Improvement Initiative	Jacob Ratcliff	Joni Darby
D27	Public Memory: J. Marion Sims	Haley Bell, Phoebe Schultz, Gino Pirano, James Lafferty, Josh Furman	Angela Lahr



# URAC

UNDERGRADUATE RESEARCH AND ARTS CELEBRATION

## POSTER SESSION MAP



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Colin Fabich	A27,B11	McKenzie Means	D8	Joseph Trudeau	B22
Ryan Feth	A11	Mia Meholick	B20	Model UN	D8
Erin Fosgreen	B12	Peyton Mele	C17	Ryleigh Valone	B26
Gia Francisco	B13	Alondra Melendez	C18	Natalie Vicheck	B13
Marlowe Frelin	A1,A12,B1,C1,D1	Zach Meszaros	B21	Nicholas Vitale	A1,B1,C1,D1,D11
Savannah Furlong	A13	Jacob Miller	A7	Mackenzie Wagner	D21
Josh Furman	D27	Charlie Moller	C19	Loren Waldo	A3
Gabriela Garza	C6	Ethan Moore	D10	Kevin Walker	C26,D10
Ryan Gibbons	A14	Alaina Moore	B24	Jalen Washington	B22,C12
Nathaly Gomez Espinoza	D20	Gabriella Morris	A25	Drew Weir	C20
Lauren Gross	D2	Elysia Morris	A1,B1,C1,D1	Brianna Wetzel	D22
Elizabeth Grove	A15	Quinn Morrow	A14,C20	Makyla Wheeler	C27
Dominic Guiffre	A16	Timothy Mulcahy	C22	DeMere White	B9
Abigail Guiste	C7	Morgan Murphy	B22,C23	Ron Whitehouse	A27,B22,D23
Dalton Hamm	C8	Angelina Nardone	B7,C17	Mackenzie Wigley	D24
Cade Hancox	D4	Andy Oberdick	B22	Alexander Williams	B11
Carter Haniford	D23	Shea O'Donnell	B22,D11	Shannon Witkowsky	C22
Keenan Heeter	A7	Lydia Ohm	C2	Harmony Wilson	D18
Tarell Hefflin	B22,D13	Brady Page	A19,B21	Joseph Wright	D25
Lily Hefner	B14	Abigail Painter	D11	Kevin Wright	B22
Jaxon Hendershott	C20	Anita Panatch	D9	Justin Wypasek	B23
William Hess	B9	Tyler Parsons	A26,B22	Tyler Young	D11
Ella Hildebrand	C9	Peyton Pauline	C21	Alessandra Zervanos	B13



**URAC•2025**

ORAL PRESENTATIONS &  
RESEARCH ROUNDTABLES

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**Mueller Theater & Patterson Hall**

# URAC•2025 CONCURRENT ORAL PRESENTATIONS

PATTERSON FIRST AND SECOND FLOORS

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






	<b>Yinz Pay How Much?</b>  Ryan Feth	<b>Fast Realtime 3D Graphics Alternatives</b>  Declan Catterall, Lucas D'Angelo 	<b>ASB Conference Case Study Presentation</b>  Gia Francisco, Kimberly Cora	<b>The Tucker Automobile Club of America and Historic Memory</b>  Erin DaRe
	<b>Love and War: Helena's Honor in the Trojan War</b>  Charlie Barefield	<b>Till Debt Do Us Part</b>  Gabrielle DiDolce, Kaya Skinner, Samuel Duda	<b>Data Analytics: A study of New Wilmington Weather and the Generation of Energy from the Tiny House Solar Array</b>  Matthew Kane 	<b>Albert Speer: Defense at Nuremberg and What it Means for Humanity in the Future</b>  Hayne Webster
	<b>Understanding Decision-making: Can Individual Differences Predict Dominant Decision-making Styles?</b>  Ashlee Douglass 	<b>Calculating the Distance of an Indoor Shotput Throw Using Computer Vision</b>  Rachel Brady	<b>S&amp;Peace of Mind: Investing for Retirement</b>  Gavin Jones, Logan Kuntz	

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# URAC•2025 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>	<b>The Effects of Nature Therapy on Stress</b>  Lexi Bender 	<b>Examining differences in memory recapitulation for emotional stimuli</b>  Allison Cline, Luvada Mayle 	<b>Policing Local Communities: Using Q Methodology To Study Policing Perspectives</b>  Dylan Kresak, Tyler Young 	
<b>PATTERSON 206</b>	<b>Investigating Biological Factors Affecting Aggressive Behavior and How These Factors are Viewed by the Public</b>  Lily Hefner	<b>Looking into Rehabilitative Efforts in United States Prisons: What is Needed?</b>  Julia Ravazza	<b>A Variation on the Graph Coloring Game</b>  Asia Morgenstern	
<b>PATTERSON 207</b>	<b>ScoreStash: Sheet Music Library Management System</b>  Ian Herr 	<b>The Miracle of New Life: Understanding the Costs Associated with Raising a Child</b>  Lucas Toohey, Jonas Clark, Amber Cepec	<b>Public Policy and the Human Condition: A Study of Poverty, Crime, and Mental Health in Rural Pennsylvania</b>  Reaghan Wilkerson 	<b>Enhancing Engagement and Early Exposure and Exploring Finance and Accounting Pedagogy in K-12 Education</b>  Jonas Clark



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# URAC•2025 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>The Starry Night and the Taboo of Female Experience</b>  Charlie Barefield	<b>Fanatics</b>  Gia Francisco, Kimberly Cora Kathryn Rankin	<b>Reinforcement Learning in Pokémon Showdown</b>  Joshua Green	<b>Understanding Flight Delays via Machine Learning</b>  Lindsey Johnson
<b>PATTERSON 107</b>	<b>Monstrous Performances: A Queer Interpretation of Frankenstein's Creation</b>  Kamryn Taylor	<b>The Benefits and Applications of Transcriptions</b>  Jack Romocean	<b>Mind the Gap: Exploring Proposed Mediating Factors Between Sleep Quality and Dissociation</b>  Madison McClernan 	<b>Effect of Neuropeptide Y on Staphylococcus aureus biofilm formation</b>  Talia Morgenstern 
<b>PATTERSON 110</b>	<b>The Unseen Casualties of war: How American Anti-War Science Fiction Novels Emulate Modern-Day Conflicts</b>  Sydney Isabelle Rensel	<b>Contrasting Quality in Contemporary Romance Novels: A Study of Tropes, Sex Scenes, and Social Media Influence</b>  Chloe Smith	<b>Detection of Structural Variants in Patients with Recurrent Pregnancy Loss Using Optical Genome Mapping</b>  Addison Sofran 	<b>Roadmap to Financing and Car Ownership</b>  Dylan Llewellyn, Xavier McDonald, Ashly Roa

# URAC•2025 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>	<b>Environmental Analysis of Abandoned Mine Drainage</b>  Avery Keenan, Nathan Barber, Rachel Brady, Bailey Garbowsky, Simon Hauser, Talia Morgenstern, Cheyenne Piper, Jamie Roberson, Alexander Rowland, Aaron Snyder, John Wozniak	<b>The Role of Sleep in Emotional Memory Encoding and Retrieval</b>  Gianna Lepore 	<b>What the Heck is in My Paycheck?</b>  MacKenzie Meyer, Brooke Horvath, Kyle Bruno	<b>From Pixels to People: The Power of UX in Problem-Solving</b>  Rosh Talla Defo 
<b>PATTERSON 207</b>	<b>Prime Juggling Patterns with a Fixed State</b>  Asia Morgenstern	<b>TNFiT: Evolution to Fitness</b>  Manny Fomundam	<b>Effects of Rape Myth Acceptance, Sexual Assault Experience, and Gender on Risk Perception and Constructive Memory</b>  Luvada Mayle 	<b>A Word to the Wise: A Scrabble AI Agent</b>  Asia Morgenstern, Elizabeth Walters, Steel Boyer



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# URAC•2025 FEATURED PODIUM PRESENTATIONS

MUELLER THEATER AND FACEBOOK LIVE

## MORNING SESSION — 12-1 PM

12-12:25 PM	<p><b>RSIs in College Instrumental Music Majors: Causes and Solutions</b></p> <p>Shelby Rebecca Pocono Advisor: Melinda Crawford Perttu</p> 
12:30-12:55 PM	<p><b>A Numerical and Differential Analysis of Smoking Habits in Young Adults Following an SEIS Model of Disease Spread</b></p> <p>Madison McClernan Advisor: Heather Muchowski</p>

## AFTERNOON SESSION — 3-4 PM

3-3:25 PM	<p><b>Extracting Cobalt from Scrap SmCo Magnets using Neat Organic Extractant</b></p> <p>Rhett Sanderson Advisor: Pete Smith</p> 
3:30-3:55 PM	<p><b>Policing Local Communities: A Thematic Analysis of Tonality Trends and Perceptions of Media Coverage (2017-2023)</b></p> <p>Tyler Young Advisor: Andy Bain</p> 



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# URAC•2025 RESEARCH ROUNDTABLES

PATTERSON

## RESEARCH ROUNDTABLES — PATTERSON 106

10-10:45 AM	<b>Gender Biases and Archetypes in Storytelling</b> Faculty Moderator: Kristinanne Kalata Madyson Treharne, Isabella Barnabei, Chloe Smith
1:15-2 PM	<b>Intersectionality in Literature and Society</b>  Faculty Moderator: Kristianna Kalata Leah Baldassare, Samantha Burnett, Alexandria Power, Emily Kirkwood
3-3:45 PM	<b>Performativity in Literature and Culture</b> Faculty Moderator: Kristianne Kalata Kamryn Taylor, Breanna Peck, Emma DeSimone, Charlie Barefield

The Drinko  
Center

## Grad School Application Workshop

**MONDAY, APRIL 28TH**

11:40 AM  
Hoyt 200



Are you a junior thinking about applying to grad school? Join Dr. Fields, Dr. Muchowski, Dr. Luisi and seniors who have already been accepted into PhD programs in the fall to learn about the application process and what to work on over the summer!

WESTMINSTER COLLEGE

# PROFESSIONAL NETWORKING SYMPOSIUM



SAVE THE DATE!

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**FRIDAY, SEPTEMBER 26, 2025**

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

**URAC•2025**

CREATIVE WORKS &  
MUSICAL PERFORMANCES

---

**McKelvey, Patterson, & Orr**

# URAC•2025 CREATIVE WORKS

MCKELVEY, PATTERSON HALL, & THE QUAD

## ART

FOSTER ART GALLERY	DISPLAYED IN GALLERY GALLERY TALK: 12:30-1 PM	DISPLAYED OUTSIDE GALLERY ARTIST PRESENT: 11:20 AM-12:20 PM
	Senior Capstone Exhibition Kylee Shannon	The Art of Makeup Alexa Tovarnak
MCKELVEY 3rd FLOOR ATRIUM	1 PM-2 PM	
	Blocks Joshua Glaser	

## POETRY AND SCRAWL RELEASE

MAIN QUAD	9 AM-4 PM
	Where They Are From: A Poetry Collection by the Class of 2028
CULTURAL CENTER	9 AM-4 PM
	SCRAWL Spring 2025 Release TABLE
	11 AM-12 PM
	Scrawl Release Party
	2-3 PM
	Sigma Tau Delta Poetry Slam

# URAC•2025 MUSICAL PERFORMANCES

## MCKELVEY AND ORR AUDITORIUM

### MUSIC

MCKELVEY TUB	9:45-10AM
	<b>The Trumpet Troupe</b> Laci Marstellar, Michael Everhart, Vinnie Johnstone, Karissa Petruso, and Autumn Stemmler
MCKELVEY TUB	11-11:15 AM
	<b>The Westminster College Trombone Company</b> Benjamin Burke, Timothy Mulcahy, Michael Everhart, D'Artagnan Whalen
MCKELVEY TUB	11:45 AM-12 PM
	<b>Chamber Singers Performance</b> Alexandra Webster, Amber Cepec, Jane Patterson, Elena Macdonald, Amelia Klinar, Anna Hall, Abigail Christy, Nolan Lapikas, Liam Chute, Tyler Wittmann, Gabriel Spinello
ORR AUDITORIUM	2:20-2:50PM
	<b>Pulse and Passion: Unveiling the Power of Percussion Performance</b> Shannon Witkouski, Ryan Bramson, Lauren McTiernan, Ryan Shaw, Tyler Wittmann

# The Holcad

Westminster's  
Official Online  
Student Newspaper

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## Disability Resources

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opportunities to  
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**URAC•2025**

VIDEO SCREENINGS &  
TRAVEL EXPERIENCES

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**Mueller Theater & Cultural Center**

MCKELVEY

## VIDEO SCREENINGS

MUELLER THEATER	11 AM
	<b>Hidden in the Shadows: The Making of The Watchful Eyes</b> Brittany Marburger and Madyson Treharne
	11:30 AM
	<b>Minute Madness</b> Mason Peck

## TRAVEL EXPERIENCES

CULTURAL CENTER	10-10:30 AM
	<b>Eco-Travel, Westminster Away in the National Parks</b> Avery Keenan, Silvio Corso, Brittany Marburger, Shea O'Donnell, Olivia Hodil, Jordan Deems, Amelia Mason, Evelyn Dickinson, Samuel Knapp, Aubrey Suttelle, Christina Loewe 
	10:30-11 AM
	<b>Healthcare in the Dominican Republic</b> Abigail Guiste, Rachel Brady, Lauren Gross, Melanie Porras  



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# PDCE

PROFESSIONAL DEVELOPMENT  
& COMMUNITY ENGAGEMENT

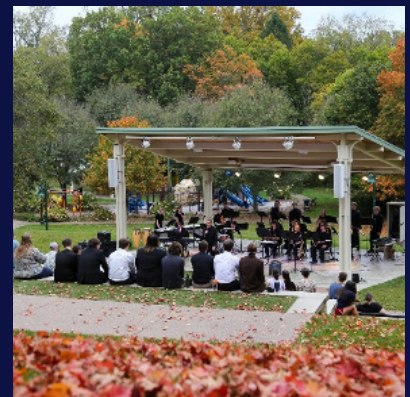


**The PDCE office at Westminster College is dedicated to empowering students with the skills and connections they need to succeed beyond graduation. Through hands-on workshops, personalized coaching, and networking events, PDCE bridges academic learning with real-world experience. Whether students prepare for their first job or explore community engagement opportunities, PDCE supports every step of their professional journey.**

**Our signature events include the Professional Networking Symposium (PNS), where students meet alumni and industry professionals to explore career paths. Beyond the Quad concerts unite students and community members in celebration and connection. PDCE also facilitates hands-on opportunities like alumni-led workshops and student-community collaborative coursework, providing students with unique experiences that bridge academic learning with professional development.**

**Would you also like to connect with the PDCE? Our offices are MCC 266 and 267.**

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



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

- Shelby Pocono
- Gwen Sernulka
- Emily Marchlewski
- Cassie Evans
- Bella Buettner
- Talia Morgenstern
- Ashlee Douglass
- Abby Guiste
- Asia Morgenstern
- Zoe Burkett
- Declan Catterall

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**URAC•2025**

PUBLIC SPEECH & DEBATE

---

**Berlin Lounge**



# URAC•2025 PUBLIC SPEECH & DEBATE

BERLIN LOUNGE

## PUBLIC SPEECHES

2:00 PM	2:15 PM	2:30 PM	2:45 PM
<b>An Honest Portrait of Plastic Recycling</b> Stephan Gibson 	<b>From Horror to Hashtags</b> Chloe Brodison-McMinn	<b>Impromptu</b> Sophia Klonowski	<b>The Half Life of Marie Curie</b> Ava Konton and Ruth Shindledecker
3:00 PM	3:15 PM	3:30 PM	3:45 PM
<b>Demure: Mindful Memeability</b> Alyjah McHugh	<b>Latin History for Morons*</b> Victoria Valcarcel-Matos 	<b>Corralling Rogue Sheriffs: Rise of the Unconstitutional Sheriff</b> Maykla Wheeler	<b>Extemporaneous Speaking</b> Nathan Barber 

\*This speech includes vulgar language that some in the audience may find objectionable.



@wcurac



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WESTMINSTER COLLEGE

ALUMNI ASSOCIATION

Graduating seniors are invited to the:

# NEW ALUMNI SOCIAL

...to welcome you to the WC Alumni Association!

**Friday, May 9  
after Graduation  
Practice**

**HOSTED BY:**

**The WILEY  
ALUMNI HOUSE**

The Alumni Engagement Office, located  
at Wiley House, helps to organize  
events (like this one) connecting alumni  
to other alumni and students.

Check out the full Alumni  
Events Calendar



**BACCALAUREATE &  
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MAY 10, 2025**



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

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# The WILEY ALUMNI HOUSE

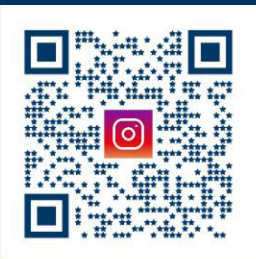
**As a part of the WC Office of Institutional Advancement, the Alumni Engagement Office, located at Wiley House, helps to raise money for scholarships and student-centered projects....**

**....like the upcoming fundraising campaign for Titan Athletics:**



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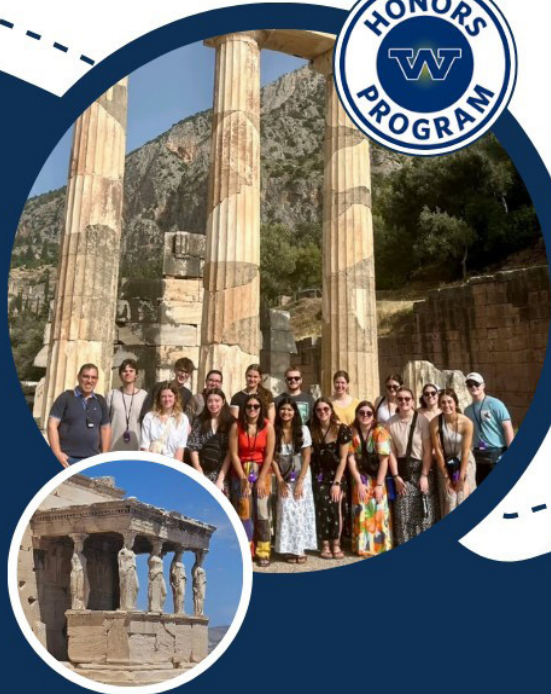


*Mark your calendar now for the Student Symposium  
on the Environment, Thursday, December 4<sup>th</sup>, 2025*

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





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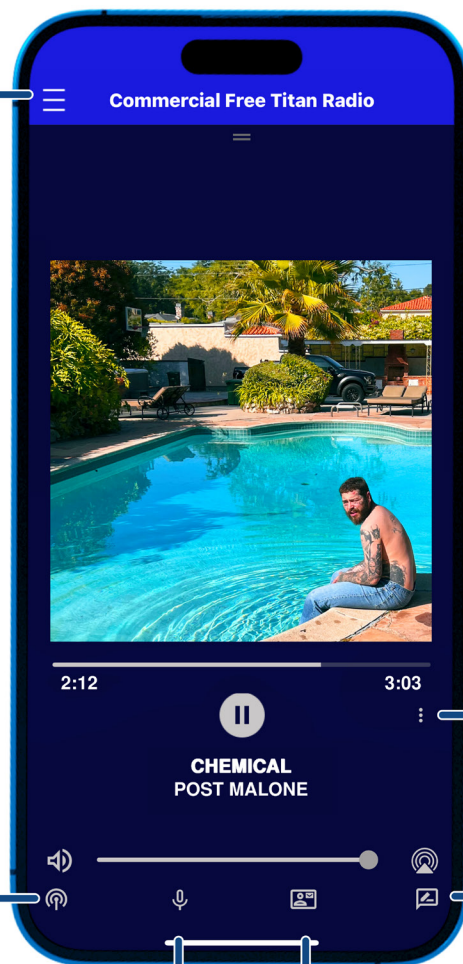
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