



## SCHEDULE AT A GLANCE

TUESDAY, APRIL 15

8:00 – 9:00 AM	Welcome: Opening RCWS 2025! Presenter Check-In Volunteer Check-In	Bishops Lounge McCombs Campus Center
8:00 – 9:30 AM	Breakfast Provided	Bishops Lounge McCombs Campus Center
9:00 – 12:00 PM	Oral Presentations	Various Classrooms F.W. Olin Building
10:00 – 11:00 AM	Exhibitions	Walzel Lobby Alma Thomas Fine Arts Center
11:00 – 12:00 PM	Creative & Scientific Process Projects	Lobby Fondren Jones Science
11:00 – 12:00 PM	Honors Concert Performance	Alma Thomas Theatre Alma Thomas Fine Arts Center
12:00 – 1:00 PM	Lunch Break	
1:00 – 2:00 PM	Panel Presentations	Various Classrooms F.W. Olin Building
1:00 – 3:00 PM	Poster Presentations	Bishops Lounge McCombs Campus Center
2:00 – 3:00 PM	Snack Provided	Bishops Lounge McCombs Campus Center
3:15–4:30 PM	Paideia Connections Student Lecture	Lobby Charles & Elizabeth Prothro Center for Lifelong Learning

### **Exploring the Roles of TCF7L2 and Wnt Signaling in Autism Spectrum Disorder**

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**Presenters:** Hallie Martinez '25  
**Sponsor:** Sunny Scobell, Biology  
**Location:** F.W. Olin 322

### **Shaping the Future: Utilizing Art Therapy Practices to Support Child Wellness in the Classroom**

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**Presenters:** Carissa Bartsch '25  
**Sponsor:** Alicia Moore, Education  
**Location:** F.W. Olin 124

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### **Cultural (mis)Conceptions Creating Catholic-Calvinist Conflict**

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**Presenters:** Aaron McDowell '25  
**Sponsor:** Jethro Hernández Berrones, History  
**Location:** F.W. Olin 323

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### **Hashtag ChristianGirl: The White Commodified Self on TikTok**

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**Presenters:** Sarah Ventimiglia '25  
**Sponsor:** Amanda Hernandez, Sociology and Anthropology  
**Location:** F.W. Olin 126

### **Laser Induced Synthesis of Cobalt Oxide Oxygen Evolution Catalysts**

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**Presenters:** Andres Garza '27  
**Sponsor:** Emily Niemeyer, Chemistry and Biochemistry  
**Location:** F.W. Olin 322

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### **Inuit Science and its Western Perception in the 19th century**

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**Presenters:** Sara Shamaly '25  
**Sponsor:** Jethro Hernández Berrones, History  
**Location:** F.W. Olin 323

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## **White Beauty Standards in a Salon**

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**Presenters:** Rose Reed '25  
**Sponsor:** Naomi Reed, Sociology and Anthropology  
**Location:** F.W. Olin 126

9:40am - 10:00am  
**Oral Presentations**

## **Inside the Pink Pony Club: An Analysis of Chappell Roan and the Effects of Queer Expression and Drag within the Music Industry**

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**Presenters:** Ethan Woods '25  
**Sponsor:** Lamiyah Bahrainwala, Communication Studies  
**Location:** F.W. Olin 323

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## **Culturally Sustaining Pedagogies in Spain: A Systematic Review**

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**Presenters:** Hannah Caceres '27  
**Sponsor:** Raquel Sáenz Ortiz, Education  
**Location:** F.W. Olin 124

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## **Examining the Relationship of E-Cigarette Vapor Exposure and Exercise Performance in Aerobically Trained Rats**

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**Presenters:** Miranda Farrar '25, Nancy Morales '25  
**Sponsor:** Jennifer Stokes, Kinesiology  
**Location:** F.W. Olin 322

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## **Gender in the Service Industry**

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**Presenters:** Grace Durdin '25  
**Sponsor:** Naomi Reed, Sociology and Anthropology  
**Location:** F.W. Olin 126

10:00am - 10:20am  
**Oral Presentations**

### **Filling the Gap: What's the State of Seagrass in Laguna Madre, Texas?**

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**Presenters:** Hailey Vickich '25  
**Sponsor:** Stephanie Insalaco, Environmental Studies  
**Location:** F.W. Olin 322

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### **Danzas Aztecas de Mesoamerica**

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**Presenters:** Maricruz Zacharias '25  
**Sponsor:** María de los Ángeles Rodríguez Cadena, Languages, Literature and Cultures - Spanish  
**Location:** F.W. Olin 323

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### **Stalin's Big Mistake: Soviet Misperception and the Korean War**

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**Presenters:** Christopher Hardesty-Crouch '27  
**Sponsor:** Bob Snyder, Political Science  
**Location:** F.W. Olin 124

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### **Racialized Interaction in Finer Dining**

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**Presenters:** Jonny Sanchez '25  
**Sponsor:** Naomi Reed, Sociology and Anthropology  
**Location:** F.W. Olin 126

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10:20am - 10:40am  
**Oral Presentations**

### **Southwestern University Guitar Tutorials**

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**Presenters:** Zachary Logan '25, Maeve McCarthy '26, Raul Najera '27, Liberty Taylor '26

**Sponsor:** David Asbury, Music

**Location:** F.W. Olin 323

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## **Ireland and Nepal: Substantive versus Symbolic Representation.**

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**Presenters:** Andie Abell '26

**Sponsor:** Alisa Gaunder, Political Science

**Location:** F.W. Olin 124

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## **Antimagic Polydominoes**

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**Presenters:** Georgia Micknal '26, Avery Weatherly '27

**Sponsor:** Alison Marr, Mathematics and Computer Science

**Location:** F.W. Olin 322

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## **The Asian American Narrative and Racial Self-identification**

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**Presenters:** Spring Middleton '25

**Sponsor:** Naomi Reed, Sociology and Anthropology

**Location:** F.W. Olin 126

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**10:40am - 11:00am**  
**Oral Presentations**

## **Embodying the Unclassifiable through Hybridity in John William Waterhouse's "A Mermaid"**

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**Presenters:** Kate Medlock '25

**Sponsor:** Kimberly Smith, Art and Art History

**Location:** F.W. Olin 323

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## **Enclosed Pressure Analysis for Diesel-Fuel Combustion**

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**Presenters:** Kade Townsend '25

**Sponsor:** Pooja Shrestha, Physics

**Location:** F.W. Olin 124

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## **A Labor of Love (Mostly): Developing a Self-Perceived Parental Effort Scale**

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**Presenters:** Samantha Gonzalez '25, Gwen Metz '25, Georgia Micknal '25, Griffin Salinas '25  
**Sponsor:** Carin Perilloux, Psychology  
**Location:** F.W. Olin 322

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## **Gender and Skateboarding Culture**

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**Presenters:** Emma French '25  
**Sponsor:** Naomi Reed, Sociology and Anthropology  
**Location:** F.W. Olin 126

**11:00am - 11:20am**  
**Oral Presentations**

## **ROCK: The Mission Statement**

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**Presenters:** Gabriella Guinn '25  
**Sponsor:** Vanessa Mikan, Kinesiology  
**Location:** F.W. Olin 322

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## **Mako Shark Inspired Microflaps as a Means of Laminar Separation Control**

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**Presenters:** Jessie Chiella '25  
**Sponsor:** Pooja Shrestha, Physics  
**Location:** F.W. Olin 124

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## **Roll For Stereotypes: D&D and Gender Performativity**

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**Presenters:** Marley Sensenderfer '25  
**Sponsor:** Naomi Reed, Sociology and Anthropology  
**Location:** F.W. Olin 126

**11:20am - 11:40am**  
**Oral Presentations**

## **My Southwestern Experience**

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**Presenters:** Elyssia Salas '25  
**Sponsor:** Naomi Reed, Sociology and Anthropology

**Location:** F.W. Olin 126

**10:00am - 11:00am**  
**Exhibitions**

### **The Observation of Women vs The Boredom of Being Observed**

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**Presenters:** Evelyn Cassell '25

**Sponsor:** Ariel Wood, Art and Art History

**Location:** Alma Thomas Fine Arts Center - Walzel & Jones Lobbies

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### **Return of the Print**

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**Presenters:** Alison Dunn '27, Carolyn Bray '27, Zoe Hein '26, Augustus Papasan '27, Maglor Williams '27

**Sponsor:** Bob Bednar, Communication Studies

**Location:** Alma Thomas Fine Arts Center - Walzel & Jones Lobbies

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### **Tasty Histories: The Social History of Biltong and Jerky Production**

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**Presenters:** Drake Meier '25, Victor Cousins '28

**Sponsor:** Bryan Kauma, History

**Location:** Alma Thomas Fine Arts Center - Walzel & Jones Lobbies

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### **Las mujeres en la guerra civil española**

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**Presenters:** August Thompson '25

**Sponsor:** Catherine Ross, Languages, Literature and Cultures - Spanish

**Location:** Alma Thomas Fine Arts Center - Walzel & Jones Lobbies

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### **The Spanish Civil War Refugees to Mexico**

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**Presenters:** Alberto Lezama Garcia '27

**Sponsor:** Catherine Ross, Languages, Literature and Cultures - Spanish

**Location:** Alma Thomas Fine Arts Center - Walzel & Jones Lobbies

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### **Art in the Spanish Civil War**

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**Presenters:** Isabel Sainz '26

**Sponsor:** Catherine Ross, Languages, Literature and Cultures - Spanish

**Location:** Alma Thomas Fine Arts Center - Walzel & Jones Lobbies

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## **Children Refugees in the Spanish Civil War**

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**Presenters:** Sydney O'Connell '25

**Sponsor:** Catherine Ross, Languages, Literature and Cultures - Spanish

**Location:** Alma Thomas Fine Arts Center - Walzel & Jones Lobbies

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## **Guernica**

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**Presenters:** Raúl Nájera '27

**Sponsor:** Catherine Ross, Languages, Literature and Cultures - Spanish

**Location:** Alma Thomas Fine Arts Center - Walzel & Jones Lobbies

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## **Nonsense Design**

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**Presenters:** Connor Bustos '25

**Sponsor:** Desiderio Roybal, Theatre

**Location:** Alma Thomas Fine Arts Center - Walzel & Jones Lobbies

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## **Graphic Novel Text-to-Speech Program**

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**Presenters:** Camille James '26

**Sponsor:** Barbara Anthony, Mathematics and Computer Science

**Location:** Alma Thomas Fine Arts Center - Walzel & Jones Lobbies

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## **Abstract Robotic Art**

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**Presenters:** Collin Cook '26, Sara Dessens '27

**Sponsor:** Steve Alexander, Mathematics and Computer Science

**Location:** Alma Thomas Fine Arts Center - Walzel & Jones Lobbies

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## **Let's Make A Robot!**

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**Presenters:** Collin Cook '27, Benjamin McKallip '26

**Sponsor:** Steve Alexander, Jacob Schrum, Mathematics and Computer Science

**Location:** Alma Thomas Fine Arts Center - Walzel & Jones Lobbies



11:00am - 12:00pm

## Creative and Scientific Process Projects

### **The Art Within: A Mindful Approach to Creative Practice**

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**Presenters:** Lila Milam-Kast '25

**Sponsor:** Alicia Moore, Education

**Location:** Fondren Jones Science - Lobby

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### **Mathematically Correct Coloring**

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**Presenters:** Ashlyn Cadena '27, Tristan Sipes '26, Dashiell Puentes '27, Isabella Robinson '25

**Sponsor:** Alison Marr, Mathematics and Computer Science

**Location:** Fondren Jones Science - Lobby

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### **Women in Graph Theory and Combinatorics Through the Years**

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**Presenters:** Brian Armijo '25, Jodi Glenn-Millhouse '25, Sebastian Loder '26, Leo Schoch-Spana '25

**Sponsor:** Alison Marr, Mathematics and Computer Science

**Location:** Fondren Jones Science - Lobby

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### **Parking Perfection: Exploring Math with Parking Functions!**

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**Presenters:** Kacy Miller '26, Casandra Nunez '26, Vanessa Villarreal '25, Avery Weatherly '25

**Sponsor:** Alison Marr, Mathematics and Computer Science

**Location:** Fondren Jones Science - Lobby

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### **Tasty Histories: The Social History of Biltong and Jerky Production**

---

**Presenters:** Victor Cousins '28, Drake Meier '25

**Sponsor:** Bryan Kauma, History

**Location:** Fondren Jones Science - Lobby

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### **Open Source 3D Bioprinting- How Chocolate Can Expand our Capabilities.**

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**Presenters:** Joseph Dorsey '26, Amanda Mejia '27

**Sponsor:** Cody Crosby, Physics

**Location:** Fondren Jones Science - Lobby

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## **"A Night At Chekhov" Scenic Design**

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**Presenters:** Piper Swisher '26

**Sponsor:** Desiderio Roybal, Theatre

**Location:** Fondren Jones Science - Lobby

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## **A Raisin in the Sun**

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**Presenters:** Ella Lewis '27

**Sponsor:** Desiderio Roybal, Theatre

**Location:** Fondren Jones Science - Lobby

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## **Inhaling the Arts: Experiential Learning Curriculum for Dallas Museum of Art Summer Camp**

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**Presenters:** Lainie Siegel '27

**Sponsor:** Fay Guarraci, Internship Office

**Location:** Fondren Jones Science - Lobby

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## **Polly: Pushing the Frontier of Prosthetics**

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**Presenters:** Ryan Andrade '25

**Sponsor:** Melanie Hoag, Office for Academic Affairs

**Location:** Fondren Jones Science - Lobby

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**11:00am - 12:00pm  
Performances**

## **Honors Concert (Music)**

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**Presenters:** Anna Martens '26, Thomas Lawrence '26, Seth Sagen '26, Julian Felix '28, Peyton Lowe '27, Isadora Pirkey '28, Madeline Bridges '26

**Sponsor:** Jason Hoogerhyde, Music

**Location:** Alma Thomas Theatre - Alma Thomas Fine Arts Center

### **Climate - Cancer - Canines: Cross-Cultural Examinations of Sustainable Developments**

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**Presenters:** Janette Weidemann '25, Caytie Brown '27, Isabella Moore '25,  
**Sponsor:** Erika Berroth, Languages, Literature and Cultures - German  
**Location:** F.W. Olin 126

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### **Climate - Cancer - Canines: Cross-Cultural Examinations of Sustainable Developments**

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**Presenters:** Isabella Moore '25, Caytie Brown 27, Janette Weidemann '25  
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### **Climate - Cancer - Canines: Cross-Cultural Examinations of Sustainable Developments**

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**Presenters:** Caytie Brown '27, Isabella Moore '25, Janette Weidemann '25  
**Sponsor:** Erika Berroth, Languages, Literature and Cultures - German  
**Location:** F.W. Olin 126

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### **Capstone Compass: Navigating the Research Journey**

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**Presenters:** Allie Anderson '25, Emily Dimiceli '25, Adrian Gonzalez '25, Joshua Marquez '26, Marley Sensenderfer '25, Mara Strohl '25  
**Sponsor:** Katherine Hooker, Jennifer Frias, Emily Thorpe, Laurel Mulkey, Debby Ellis Writing Center  
**Location:** F.W. Olin 322

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### **Engaging Students in Mathematics Through Stories: Original Mathematics-focussed Children's Books**

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**Presenters:** Sydney Aschmann '26, Makenzi Ducharme '26, Annika Flora '26, Emily Marks '26, Annika Romeo '27, Madelyne Ziegler '26  
**Sponsor:** Michael Kamen, Education  
**Location:** F.W. Olin 124

### **"Honor the hands that harvest your crops": The Exploitation of Mexican Labor and Its Legacy in Ramón Esquivel's Luna**

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**Presenters:** Bethani Pedraza '25

**Sponsor:** Sergio Costola, Theatre

**Location:** McCombs Campus Center - Bishops Lounge

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### **An Exploration into the Intoxicating Effects of Dismissing Sophrosyne**

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**Presenters:** Marley Sensenderfer '25

**Sponsor:** Jeffrey Easton, Classics

**Location:** McCombs Campus Center - Bishops Lounge

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### **College Year in Athens**

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**Presenters:** Kylie Ouellette '26

**Sponsor:** Monya Lemery, Classics

**Location:** McCombs Campus Center - Bishops Lounge

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### **Health and Lifestyle Factors Associated with Bone Mineral Density Fracture Risk Assessment Index (FRAX) Scores in Individuals 55 Years and Older**

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**Presenters:** Kacely Goforth '25, Erica Otto '25

**Sponsor:** Edward Merritt, Kinesiology

**Location:** McCombs Campus Center - Bishops Lounge

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### **Concurrent Exercise Training Adaptations Over 4-Months in Sedentary, Middle-Aged Adults With and Without Post-Exercise Peanut Consumption**

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**Presenters:** Iliana Hernandez '26

**Sponsor:** Edward Merritt, Kinesiology

**Location:** McCombs Campus Center - Bishops Lounge

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## **Comparison of Overground, Motorized Treadmill and Non-motorized Treadmill Gait in Younger and Older Adults**

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**Presenters:** Emily Chaires '26, Meghan McCarthy '25, Breanna Steele '26

**Sponsor:** Scott McLean, Kinesiology

**Location:** McCombs Campus Center - Bishops Lounge

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## **Influence of Back Foot Positioning on Tennis Serve Performance**

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**Presenters:** Erika Synoski '25

**Sponsor:** Scott McLean, Kinesiology

**Location:** McCombs Campus Center - Bishops Lounge

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## **The Effect of Attentional Focus on Rowing Performance Among Experienced Individuals**

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**Presenters:** Caylin Damron '26, Ana Morales Elizondo '27, Lily McWhorter '26, Raghav Sharma '26

**Sponsor:** Tatiana Zhuravleva, Kinesiology

**Location:** McCombs Campus Center - Bishops Lounge

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## **The Effect of Attentional Focus Cues on Vertical Jump Performance**

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**Presenters:** Caylin Damron '26, Lily McWhorter '26, Raghav Sharma '26

**Sponsor:** Tatiana Zhuravleva, Kinesiology

**Location:** McCombs Campus Center - Bishops Lounge

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## **Automated Inventory Projection in a Small-Scale Vineyard**

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**Presenters:** Arden Neff '25, Jace Salinas '26, Erik Thompson '26, Zoe Van der Vlugt '26,

**Sponsor:** Barbara Anthony, Mathematics and Computer Science

**Location:** McCombs Campus Center - Bishops Lounge

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## **Data Science Video Game for Children**

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**Presenters:** Bess Hagan '25, Reeha Rauf '25, Seraphina Crayton '25, Jacob Valle '26

**Sponsor:** Barbara Anthony, Mathematics and Computer Science

**Location:** McCombs Campus Center - Bishops Lounge

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## **Developing An All Encompassing Web-Based Lifestyle and Fitness Tracker**

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**Presenters:** Gabriel Morgan '25, Justin Sandstedt '25, Matthew Swandal '26

**Sponsor:** Barbara Anthony, Mathematics and Computer Science

**Location:** McCombs Campus Center - Bishops Lounge

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## **Better Picks: Machine Learning Sports Analysis for Smarter Sports Betting Decisions**

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**Presenters:** Timothy Berlanga '25, Rudy Guerra Jr '25, Kyle Keleher '25, Kade Townsend '25

**Sponsor:** Barbara Anthony, Mathematics and Computer Science

**Location:** McCombs Campus Center - Bishops Lounge

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## **Distortion of Single Transferable Vote on a Line**

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**Presenters:** Camille James '26

**Sponsor:** Barbara Anthony, Mathematics and Computer Science

**Location:** McCombs Campus Center - Bishops Lounge

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## **Perimeter- Minimizing Rectangles in $R^2$ with Density $M|x| + N|y|$**

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**Presenters:** Caytie Brown '27, Ashlyn Cadena '27, Kacy Miller '26, Isabella Robinson '25, Yasmine Soto '25

**Sponsor:** John Ross, Mathematics and Computer Science

**Location:** McCombs Campus Center - Bishops Lounge

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## **Developing a Thermal Energy Battery**

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**Presenters:** Manuel Cepeda '26, Clay Elliott '27

**Sponsor:** Steve Alexander, Physics

**Location:** McCombs Campus Center - Bishops Lounge

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## **Computing the Minimal Crew Needed for a 1000 Year Space Voyage**

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**Presenters:** Dominic Mashak '27

**Sponsor:** Steve Alexander, Physics

**Location:** McCombs Campus Center - Bishops Lounge

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## **Preclinical Efficacy of CXCR3 CAR T Cells Against Malignant Childhood Brain Tumors**

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**Presenters:** Scott Johnson '26  
**Sponsor:** Kimberly McArthur, Biology  
**Location:** McCombs Campus Center - Bishops Lounge

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### **Overexpression of JAM-4 protein in Caov-3 and PA-1 ovarian cancer cell lines**

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**Presenters:** Kate Dennnis '26  
**Sponsor:** Maria Todd, Biology  
**Location:** McCombs Campus Center - Bishops Lounge

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### **Posttranslational Regulation of rumAB polymerase by protease Lon391 on ICE391**

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**Presenters:** Caleb Hammons '26  
**Sponsor:** Martín Gonzalez, Biology  
**Location:** McCombs Campus Center - Bishops Lounge

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### **You Better Belize They're Different: Phylogenetic analysis and species identification of native apple snails in Belize**

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**Presenters:** Gage Mallo '26, Johun Reyes '26  
**Sponsor:** Romi Burks, Biology  
**Location:** McCombs Campus Center - Bishops Lounge

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### **Extraordinary Extraction Efforts: Experiments to Enhance DNA Extraction for Tissues of Apple Snails of Conservation Interest**

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**Presenters:** Kylie Allemeier '25, Sarah Berver '27, Katelin Pilarski '26  
**Sponsor:** Romi Burks, Biology  
**Location:** McCombs Campus Center - Bishops Lounge

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### **Bioluminescent Band-Aid: A Study on the Attraction of Zooxanthellae to Bioluminescent Aliivibrio fischeri**

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**Presenters:** Murphy Jacobie '27  
**Sponsor:** Stacie Brown, Biology  
**Location:** McCombs Campus Center - Bishops Lounge

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### **A Morphological Analysis of the Dopaminergic Pathway in the Brain of Male-Pregnant Pipefish**

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**Presenters:** Madeleine Thomas '26  
**Sponsor:** Sunny Scobell, Biology  
**Location:** McCombs Campus Center - Bishops Lounge

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## **Efficacy of an ISE Probe to Determine Nitrate Ion Concentrations Within Various Water Sources**

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**Presenters:** Afam Umezurike '25  
**Sponsor:** Dilani Koswatta, Chemistry and Biochemistry  
**Location:** McCombs Campus Center - Bishops Lounge

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## **Exploring the Phenolic Composition of Monarda Herbs: Influence of Seed Source and Cultivar**

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**Presenters:** Alexis Flores '25  
**Sponsor:** Emily Niemeyer, Chemistry and Biochemistry  
**Location:** McCombs Campus Center - Bishops Lounge

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## **Analysis of Antioxidant Capacities and Flavonoid Concentration in Hot Water Extracts of Gunpowder Green Teas**

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**Presenters:** Alexander Badal '25  
**Sponsor:** Emily Niemeyer, Chemistry and Biochemistry  
**Location:** McCombs Campus Center - Bishops Lounge

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## **Comparison of Phenolic Composition, Flavonoid Content, and Antioxidant Properties Among Cacao Nibs Sourced from Different Origins**

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**Presenters:** Samantha Hazen '25  
**Sponsor:** Emily Niemeyer, Chemistry and Biochemistry  
**Location:** McCombs Campus Center - Bishops Lounge

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## **Determination of Total Phenolic Content and Antioxidant Capacity in Various Red Lettuce Cultivars (*L. sativa*).**

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**Presenters:** Ian Becher '25  
**Sponsor:** Emily Niemeyer, Chemistry and Biochemistry  
**Location:** McCombs Campus Center - Bishops Lounge

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## **Gold(I)-Catalyzed Synthesis of Naphthoquinones**

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**Presenters:** Luca Cipleu '25

**Sponsor:** Emily Niemeyer, Chemistry and Biochemistry

**Location:** McCombs Campus Center - Bishops Lounge

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## **Influence of Plant Maturity and Cultivar on Antioxidant Capacity in Green Basil (*Ocimum basilicum* L.)**

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**Presenters:** Kendall Terrando '25

**Sponsor:** Emily Niemeyer, Chemistry and Biochemistry

**Location:** McCombs Campus Center - Bishops Lounge

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## **Investigation of the Connection between Antioxidant Capacity and Total Phenolic Content in Monarda Herb Cultivars**

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**Presenters:** Mattigan Aga '25

**Sponsor:** Emily Niemeyer, Chemistry and Biochemistry

**Location:** McCombs Campus Center - Bishops Lounge

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## **Ozempic Can Modulate Protein Arginine Methyltransferase 4**

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**Presenters:** Christian Melillo '25

**Sponsor:** Emily Niemeyer, Chemistry and Biochemistry

**Location:** McCombs Campus Center - Bishops Lounge

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## **Quantification of Individual Flavonoids and Methylxanthines in Cacao Nibs Sourced from Different Origins**

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**Presenters:** Alex Dow '25

**Sponsor:** Emily Niemeyer, Chemistry and Biochemistry

**Location:** McCombs Campus Center - Bishops Lounge

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## **Understanding the Selectivity of Hydrogenation on $\alpha,\beta$ -Unsaturated Ketones using DFT**

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**Presenters:** Gary M. Sunderland '26

**Sponsor:** Emily Niemeyer, Chemistry and Biochemistry

**Location:** McCombs Campus Center - Bishops Lounge

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## **The Role of Pseudomonas Bacteria and Drought Stress on Phenolic Compounds and Antioxidant Capacity of Green and Purple Basil**

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**Presenters:** Myla Benally '25

**Sponsor:** Emily Niemeyer, Chemistry and Biochemistry

**Location:** McCombs Campus Center - Bishops Lounge

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## **Quantifying ROS-Mediated DNA Damage in Alternative DNA Structures**

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**Presenters:** Brian Armijo '25

**Sponsor:** Maha Zewail-Foote, Chemistry and Biochemistry

**Location:** McCombs Campus Center - Bishops Lounge

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## **Stress Response of Phaeodactylum Tricornutum Due to Red Light and Orolonged Red Light Exposure**

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**Presenters:** Annalina Slover '26, Carolyn Waldie '26

**Sponsor:** Sara Massey, Chemistry and Biochemistry

**Location:** McCombs Campus Center - Bishops Lounge

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## **Effect of Red Light Stress on Chaetoceros Diatoms**

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**Presenters:** Kaiden Salaz '25

**Sponsor:** Sara Massey, Chemistry and Biochemistry

**Location:** McCombs Campus Center - Bishops Lounge

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## **Exploring the Effects of Decreased Magnesium Concentrations on Phaeodactylum tricornutum F710 Fluorescence**

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**Presenters:** Jodi Glenn-Millhouse '25

**Sponsor:** Sara Massey, Chemistry and Biochemistry

**Location:** McCombs Campus Center - Bishops Lounge

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## **Synthesis of Nintedanib Derivative for the Inhibition of the JAK/STAT Pathway**

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**Presenters:** Kayla Moody '25

**Sponsor:** Chelsea Massaro, Chemistry and Biochemistry

**Location:** McCombs Campus Center - Bishops Lounge

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## **Synthesis of tert-Butyl Ester Nintedanib Derivative for Irreversible JAK3 Inhibition**

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**Presenters:** Hannah Laurence '25

**Sponsor:** Chelsea Massaro, Chemistry and Biochemistry

**Location:** McCombs Campus Center - Bishops Lounge

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## **Connecting Minds Connecting Bonds**

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**Presenters:** Karim Clarke '26, Rachael Ng '26

**Sponsor:** Chelsea Massaro, Chemistry and Biochemistry

**Location:** McCombs Campus Center - Bishops Lounge

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## **Transcribing Edward Despard, A Significant Figure in Early Belizean History**

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**Presenters:** Aidan Boswell '26, Karim Clarke '26, Raven Waugh '26

**Sponsor:** Melissa Johnson, Sociology and Anthropology

**Location:** McCombs Campus Center - Bishops Lounge

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## **Stepparents in America: Unearthing Distinct Practices and Processes**

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**Presenters:** Isabella Bahamon '26, Chelsey Rocha '25

**Sponsor:** Adriana Ponce, Sociology and Anthropology

**Location:** McCombs Campus Center - Bishops Lounge

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## **Unmaking Unjust Systems**

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**Presenters:** Campbell Timmons '27

**Sponsor:** Amanda Hernandez, Sociology and Anthropology

**Location:** McCombs Campus Center - Bishops Lounge

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## **Southwestern University's Financial Analyst Program**

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**Presenters:** Ryan Corbett '25, Keegan Hardy '25

**Sponsor:** Hazel Nguyen, Economics and Business

**Location:** McCombs Campus Center - Bishops Lounge

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## **The Rules of Quotas Matter: Why There Are More Women In Italy's Legislature Than Japan's**

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**Presenters:** David Gomez '25, Scott Hampton '25  
**Sponsor:** Alisa Gaunder, Political Science  
**Location:** McCombs Campus Center - Bishops Lounge

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## **Are We All Damsels in Distress? The Secret Anti-Feminism of "Wellness"**

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**Presenters:** Clea Hansen '26  
**Sponsor:** Zoe Moss, Political Science  
**Location:** McCombs Campus Center - Bishops Lounge

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## **Self-Expansion in Virtual Reality**

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**Presenters:** Clayton Crusius '25, Sarah Doroshow '25  
**Sponsor:** Erin Crockett, Psychology  
**Location:** McCombs Campus Center - Bishops Lounge

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## **Building Expectations: Children's and Adults' Reasoning About What They Should Expect**

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**Presenters:** Cecilia Cantu '26, Daryl Locke '26, Eliana Sanger '25, Davis Warms '25, Jinx Wiener '25  
**Sponsor:** Karen Lara, Psychology  
**Location:** McCombs Campus Center - Bishops Lounge

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## **Don't "hit me up": The Effects of Initiator Gender and Setting on Perceptions of Date Initiations**

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**Presenters:** Samantha Gonzalez '25, Lauren Levee '27, Georgia Micknal '25  
**Sponsor:** Traci Giuliano, Psychology  
**Location:** McCombs Campus Center - Bishops Lounge

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## **Kiss Flirtatious Emojis Goodbye: The Effects of Emoji Use and Professor Gender on Email Appropriateness**

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**Presenters:** Mia Figueroa '26  
**Sponsor:** Traci Guiliano, Psychology  
**Location:** McCombs Campus Center - Bishops Lounge

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## **An Animal Model of Gender-Affirming Hormone Therapy: The Effects of Testosterone or Estrogen on Sexual Behavior in Long-Evans Rats**

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**Presenters:** Chance Bauer '27, Mia Figueroa '26, Iva Irabor-Ighedosa '26

**Sponsor:** Fay Guarraci, Psychology

**Location:** McCombs Campus Center - Bishops Lounge

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## **An Animal Model of Gender-Affirming Hormone Therapy: The Effects of Testosterone or Estrogen on Sexual Behavior in Long-Evans Rats**

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**Presenters:** Chance Bauer '27, Mia Figueroa '26, Iva Irabor-Ighedosa '26

**Sponsor:** Fay Guarraci, Psychology

**Location:** McCombs Campus Center - Bishops Lounge

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## **Learning Commons Mural**

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**Presenters:** Kendyl Feuerbacher '27, Mia Figueroa '26, Eliana Solis '26, Leah Ashten Wheeler '25

**Sponsor:** Maurice Wilson, Laurel Mulkey, Debby Ellis Writing Center

**Location:** McCombs Campus Center - Bishops Lounge

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## **La Malinche: Navigating Between Cultures**

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**Presenters:** Sofia Rangel-Medina '25, Eliana Solis '26

**Sponsor:** María de los Ángeles Rodríguez Cadena, Languages, Literature and Cultures - Spanish

**Location:** McCombs Campus Center - Bishops Lounge

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## **Intergenerational Communication: Treasured Heirlooms and Cultural Practices**

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**Presenters:** Kal Abraham '28, Emily Arriaga '28, Lauren Baek '28, Taya Davis '28, Stephen Fuqua '28, Rylee Gaona '28, Kristine Garcia '28, Reagan Halstead '28, Robert Hoenig '28, Alec House '28, Kendall Jurgens '28, Raven Matthews '28, Peyton McLaughlin '28, Shekinah Mukadi '28, Jessica Oritz '28, Theodoros Phocas '28, Matteo Quattrin '28, Walker Shaw '28, Jude Shields '28, Ethan Sledge '28, Candace Smith '28, Jacob Smith '28, Samuel Stillwell '28, Chad Trottier '28, Landry Wagoner '28, Isabella Warren '28

**Sponsor:** Erika Berroth, Languages, Literature and Cultures - German

**Location:** McCombs Campus Center - Bishops Lounge

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## **TikTok and the Algorithm: How Surveillance, Neutrality, and Transparency Threaten User Identity**

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**Presenters:** Alexa Delenela '25  
**Sponsor:** Lamiyah Bahrainwala, Communication Studies  
**Location:** McCombs Campus Center - Bishops Lounge

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## **Twisties, Trauma, and Twitter: Examining the Complex Reactions to Simone Biles' Withdrawal from the Tokyo 2020 Olympics**

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**Presenters:** Abby Ryan '25  
**Sponsor:** Lamiyah Bahrainwala, Communication Studies  
**Location:** McCombs Campus Center - Bishops Lounge

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## **The Importance of Cultural Intelligence in Foreign Espionage: A Latin America Case Study**

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**Presenters:** Kamryn Shaffer '26  
**Sponsor:** Melissa Byrnes, International Studies  
**Location:** McCombs Campus Center - Bishops Lounge

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## **St. Davids Rotational Shadowing Internship**

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**Presenters:** Charles Fournier '25  
**Sponsor:** Mary Claire Angle, Internship Office  
**Location:** McCombs Campus Center - Bishops Lounge

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## **Faculty- Led Study Abroad Opportunities through SU**

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**Presenters:** Marisol Mendoza Valverde '27, Kessa Thurman '27  
**Sponsor:** Monya Lemery, Study Abroad & International Student Services  
**Location:** McCombs Campus Center - Bishops Lounge

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## **My Experiences Interning at a Wheelchair Accessible Gym in Ireland**

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**Presenters:** Miranda Farrar '25  
**Sponsor:** Monya Lemery, Study Abroad & International Student Services  
**Location:** McCombs Campus Center - Bishops Lounge

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## **Study Abroad in Buenos Aires, Argentina**

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**Presenters:** Sophia Trifilio '25

**Sponsor:** Monya Lemery, Study Abroad & International Student Services

**Location:** McCombs Campus Center - Bishops Lounge

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## **SU Paris Olympics 2024**

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**Presenters:** Claire Romo '25

**Sponsor:** Monya Lemery, Study Abroad & International Student Services

**Location:** McCombs Campus Center - Bishops Lounge

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## **Synthesis of Nintedanib Derivative for the Inhibition of the JAK/STAT Pathway**

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**Presenters:** Zachary Logan '25

**Sponsor:** Chelsea Massaro, Chemistry and Biochemistry

**Location:** McCombs Campus Center - Bishops Lounge

**3:15pm - 4:30pm**

**Paideia Event**

## **Paideia Connections Student Lecture**

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**Presenters:** Vanessa Villarreal '25, Ryan Andrade '25

**Sponsor:** Alison Marr, Mathematics and Computer Science

**Location:** Prothro Center - Lobby 1st Fl