



19TH ANNUAL

Scholarship and   
Creative Arts Days  
ELIZABETHTOWN COLLEGE



#ETOWNSCAD26

APRIL 20 & 21

# Scholarship and Creative Arts Day

**CELEBRATE SCHOLARSHIP  
AND CREATIVITY!**

**ETOWN**  
ELIZABETHTOWN COLLEGE

Elizabethtown College students reach success through our 21st century curricula combining high-quality professional programs, real-world experiences involving hands-on opportunities to conduct academics and research, and a 125 year learning tradition of thinking critically, analyzing deeply, and communicating effectively.

Our annual Scholarship and Creative Arts Day (SCAD) is a forum for our students to present their academic research in their respective disciplines, while others showcase talents through recitals and a juried art

exhibit. The scholarly work and presentations would not be possible without our faculty mentors who dedicate their time and expertise to helping our students succeed.

With the excellent education and training, our students go out into the world and make an impact. Our annual SCAD demonstrates our College's commitment to fostering those impacts being made and to the importance of scholarly research.

Betty Rider, President and Professor of Psychology

Matthew Telleen, Interim Provost and Vice President for Academic Affairs and Professor of Communications and Legal Studies

# Scholarship and Creative Arts Day at a Glance

## Monday, April 20, 2026

### School of Sciences and Health

- 5:00-5:50 pm      Occupational Therapy Graduate Research Symposium  
Welcome and Keynote Speaker  
Virtual & in person
- 6:00-8:30 pm      Presentations and poster sessions  
Virtual & in person

### School of Arts and Humanities

- 5:00 pm              39th Annual Juried Art Student Show  
Leffler Chapel-Lyet Gallery
- 7:30 pm              Scholarship and Creative Arts Day Recital  
Leffler Chapel-Musser Auditorium

## 39th Annual Juried Student Art Show

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Lyet Gallery at Leffler Chapel and Performance Center

**Awards Reception for the 39th Annual Student Art Show will be held in the Lyet Gallery on April 20 from 5-7 pm.**

Dorothy Frey, Associate Professor of Painting and Drawing at Millersville University chose works from the student entries for our 39th Annual Juried Student Show. This show exemplifies the student commitment and talent that we have in the Department of Art and Design at Elizabethtown College. Thanks to all the students who entered our show and to our dedicated faculty. Congratulations to those in the show and to our prize winners. We are pleased to present our 39th show as part of the SCAD program. Artwork will be displayed through April 21, 2026.

### Presenters:

Ariel Abbott, Kenzie Amrhein, Farnaz (Teddy) Bazzyar, Eli Boyle, Blake Carmosin, Alexandra Collins, Zane Cooper, Isabella Cowger, Whitney Davis, Jessica Dunn, Lilly Ecenrode, Jess Falconer, Ella Fasnacht, Gavin Hawley, Juliana Guzzo, Riley Hoffman, Destiny Jones, Paul Kvech, Emujin Lkhagvasuren, Cecelia Legaspi, Arianna Lepratto, Ernest Lloyd, Martin Sawyer, Ella Monthei, Kelsey Shires, Samantha Small, Kaylee Solomon, Ash Queen, Taylor Strader, Jake Vottero, Loren Woodruff, Teagan Zumbano

### Mentors:

Kristi Arnold  
Dan Burns  
Jeff Bye  
Milt Friedly  
Katherine Hughes  
Andy Williams  
Lisa Erdman

Exhibit Organizer:

Milt Friedly

# Scholarship and Creative Arts Day Recital

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Musser Auditorium at Leffler Chapel and Performance Center

April 20, 2026 at 7:30 pm

Program

- Fantaisie-Impromptu in C-sharp minor, Op. posth. 66  
Camdyn Buohl, piano  
Frédéric Chopin (1810–1849)
- Sonata III.  
Maximus Marshall, saxophone  
Alec Wilder (1907–1980)
- “Hamburger” Sonata in G Major, H. 564  
I. Allegretto  
Emily Harrell, flute  
Carl Philipp Emanuel Bach (1714–1788)
- Monica’s Waltz from The Medium  
Ryley Douglass, soprano  
Gian Carlo Menotti (1911–2007)
- Etude no. 6 (1996)  
Audrey Bower, piano  
Philip Glass (b. 1937)
- “Printemps qui commence” from Samson et Dalila  
Laney Humble, soprano  
Camille Saint-Saëns (1835–1921)
- Butterfly, op. 43, no. 1  
Marina Tague, piano  
Edvard Grieg (1843–1907)

Fantasia

Phillip Gaubert (1879–1941)

Gia Solito, flute

La cathédrale engloutie

Claude Debussy (1862–1918)

Jibrail Hattar, piano

Sonata (1940)

Paul Creston (1906–1985)

III. With gaiety

Noah Walter, saxophone

Collaborative pianist: Dr. Justin Badgerow

Faculty mentors: Justin Badgerow, Paula Nelson, Sarah Shafer, Cheryl Braun



SCAD Recital 2025

# Scholarship and Creative Arts Day at a Glance

## Tuesday, April 21, 2026

### Welcome Refreshments

8:00-8:30 AM, Masters Lobby

### Opening Remarks, Faculty Awards and Keynote Event

8:30-9:15 AM, Gibble Auditorium

## Showcase of Scholarship Presentations

Presentations, panel discussions, posters, portfolios, exhibits: Hoover lecture rooms, Nicarry lecture rooms, Gibble Auditorium in Masters Center, Bowers Fitness Center, High Library, and College Track.

### Session I Presentations 9:30 AM to 10:50 AM

- Biochemistry & Molecular Biology
- Political Science
- English
- Music
- Medical Humanities
- Modern Languages-Japanese
- Psychology and Neuroscience
- Biology

### Session II-Presentations 11:00 AM to 12:20 PM

- Political Science
- Asian Studies
- Social Work
- Education
- Computer Science
- Psychology and Neuroscience
- Biology

# Scholarship and Creative Arts Day at a Glance

## Lunch Break

12:20 PM to 1:15 PM, Electric Car Race, College Track

## Session III-Presentations 1:15 PM to 3:15 PM

- Political Science
- Asian Studies
- Education
- Occupational Therapy
- Economics
- Biology

## Session IV-Posters 3:20 PM to 4:40 PM

- Public Heritage Studies/Honors Program
- Biology
- Chemistry
- Biochemistry & Molecular Biology
- Occupational Therapy
- Computer Science
- Engineering
- Psychology
- Information Systems
- Environmental Science
- Music
- Neuroscience
- Business
- Economics
- Communications
- Political Science
- Education

## SCAD Closing Remarks

4:40 PM-5:00 PM Bowers Fitness Center

Closing Remarks

## Master of Music Education Research Presentations

### 7 PM Virtual Presentation

Members from the Masters of Music Education program will be sharing their research presentations over Zoom.

<https://etown.zoom.us/j/97577287453>



**Dr. Kirsten Johnson, 2025 -2026 Ranck Award Prize recipient for Research Excellence will deliver the keynote remarks during the opening plenary of the 19th Annual Scholarship and Creative Arts Day.**

April 21, 2026, 8:30 am in Gible Auditorium

This presentation traces a 30-year journey from Dr. Johnson's early years working in broadcast news to her recent research studies focused on perceived media credibility and trust. Drawing on experiences as a newsroom producer, her presentation examines journalism's most essential, yet increasingly vulnerable, asset. It highlights her experimental research on credibility cues, from early studies of citizen journalism to more recent work on social media, transparency, and personalized news. It concludes with practical insights into navigating today's fragmented media landscape and evaluating credible news sources.

Ranck Prize Background:

*Robert O. Kerr '64 and Mary Ann Kerr '64 established the Ranck Prize for Research Excellence as a permanent endowment to award a full-time faculty member of Elizabethtown College and to commend and celebrate excellence in research and commitment to his or her field of study. The prize honors John P. Ranck '58, faculty member emeritus and former chair of the Department of Chemistry and Biochemistry, for "his inspirational service to countless students at Elizabethtown College."*

# Celebrating Faculty Excellence

The 2024-25 Polanowski Prize for Excellence in Faculty-Student Advising and Mentorship recipient is Dr. Oya Dursun-Ozkanca Elizabethtown College Professor of Political Science and International Studies. The award is presented to an Elizabethtown College faculty member to commend and celebrate excellence in advising and mentoring students toward successful graduate school placement and/or careers.

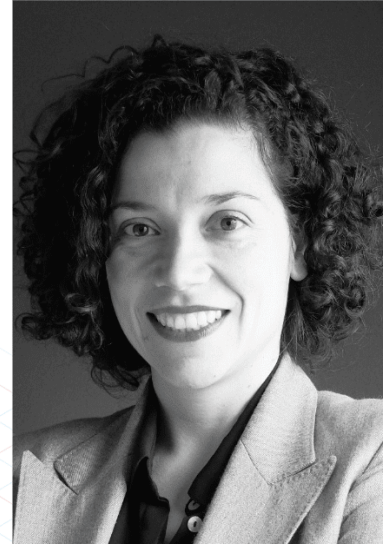
*The Polanowski Prize for Excellence, which has been made possible through the generosity of Dr. Mary E. Schmidt '79 and Dr. Russell Libby, honors Dr. Frank P. Polanowski, Associate Professor of Biology Emeritus, for his inspirational service to countless students at Elizabethtown College.*



**2025-26 RECIPIENT:**

**Dr. Oya Dursun-Özkanca**

Professor of Political Science and  
College Professor of International  
Studies (Endowed Chair)



The 2025-26 Schmidt Prize for Excellence in Student-Faculty Service recipient is Professor Wendy Bellew, Education Program Chair and Assistant Teaching Professor in Education. The award is presented to an Elizabethtown College faculty member to celebrate the development of meaningful and purposeful student experiences through service that creates pathways and preparation for the real world.

*The Schmidt Prize for Excellence in Student-Faculty Service is an annual award made possible through the generosity of alumna Dr. Mary E. Schmidt '79 and will celebrate a faculty member creating meaningful and purposeful student experiences through service (i.e. community-based learning, research-intensive courses, field/internship oversight, etc.) that create pathways and preparation for the real world.*



**2025-26 RECIPIENT:**

**Wendy Bellew**

Education Program Chair &  
Assistant Teaching  
Professor in Education



# Elizabethtown College Scholarship and Creative Arts Day

## Schedule for Tuesday, April 21, 2026

### NICARRY HALL

	Nicarry 202	Nicarry 210	Nicarry 228	Nicarry 232
Session I	<b>9:30 AM</b>	Biochemistry & Molecular Biology	Political Science	Arts & Humanities: English Medical Humanities Music Modern Languages- Japanese
	<b>9:50 AM</b>			
	<b>10:10 AM</b>			
	<b>10:30 AM</b>			
Session II	<b>11:00 AM</b>	Political Science	Asian Studies	Social Work Education
	<b>11:20 AM</b>			
	<b>11:40 AM</b>			
	<b>12:00 PM</b>			
Session III	<b>1:15 PM</b>	Criminal Justice	Asian Studies	Sociology
	<b>1:35 PM</b>			
	<b>1:55 PM</b>			
	<b>2:15 PM</b>			
	<b>2:35 PM</b>			
	<b>2:55 PM</b>			

First-Year Engineering Electric Car Competition at the Outdoor track at noon

Elizabethtown College Scholarship and Creative Arts Day  
 Schedule for Tuesday, April 21, 2026  
**HOOVER CENTER**

	HOOVER 211	HOOVER 212	HOOVER 213	HOOVER 214	
Session I	9:30 AM	Psychology and Neuroscience		Biology	
	9:50 AM				
	10:10 AM				
	10:30 AM				
Session I	11:00 AM	Computer Science	Psychology and Neuroscience	Biology	
	11:20 AM				
	11:40 AM				
	12:00 PM				
Session III	1:15 PM	Computer Science	Psychology and Neuroscience	Business- Economics	Biology
	1:35 PM				
	1:55 PM				
	2:15 PM	Occupational Therapy			
	2:35 PM				
	2:55 PM				

Session IV- Poster Session in Bowers Fitness Center  
 Masters of Music Education Presentations (virtual)



# 19th Annual Scholarship and Creative Arts Day

Session I

9:30 AM-10:50 AM

## Biochemistry & Molecular Honors in the Discipline Presentation N-202

**9:30 AM** **Effects Of Kinase Inhibitors On Cell Viability & Protein Expression On Lung Cancer Cell Lines Of Different Ethnic Origins** # 40  
 Presenter: Samantha Small Mentor: Dr. Amy Defnet

## Political Science Terrorism and Counterterrorism Panel Paper Presentations N-210

Panel Moderator: **Dr. Oya Ozkanca**

**9:30 AM** **The Boston Marathon Bombing And Its Effect On America** # 45  
 Presenters: Hannah Kugle, Erin Ford, Adam Brockett, Marwa Kadary, Donya Salman Mentors: Dr. Oya Ozkanca, Ambassador John Craig

**9:50 AM** **500 Years Of Conflict: The Internal Struggle For Chechnya** # 46  
 Presenters: Cadence Cunningham, Dion Davenport, Will Denniston, Rebecca Green, Cayden Stephens Mentors: Dr. Oya Ozkanca, Ambassador John Craig

**10:10 AM** **Insurgency To Integration?: The PKK And The Dynamics Of Effective Counterterrorism** # 47  
 Presenters: Jordyn Dutko, Larissa Halber, Emily Krey, Patrick Snyder, Kai Trautenbach Mentors: Dr. Oya Ozkanca, Ambassador John Craig

**10:30 AM** **Digital Radicalization: How Social Media Fuels Lone-Actor Terrorism** # 48  
 Presenters: Malini Sakrudkar, Lauren Micheletti, Alex Williams, Skye Zolomij, Reid Maas Mentors: Dr. Oya Ozkanca, Ambassador John Craig

## School of Arts and Humanities Session Paper Presentations

### English, Medical Humanities, Music & Modern Languages N-228

**9:30 AM** **The Strength Of British Women Poets In The Victorian Era** # 50  
 Presenter: Hanna Weller Mentors: Dr. Suzanne Webster Roberson, Mrs. Wendy Bellew, Dr. Patrick Allen

**9:50 AM** **An Autoethnography Of Narrative Medicine** # 51  
 Presenter: Shannon Gingrich Mentor: Dr. Kevin Shorner-Johnson

**10:10 AM** **A Fragile Peace** # 52  
 Presenter: Deah Zachary Mentor: Dr. James Haines

**10:30 AM** **A Timeless Tradition: The Influence Of Shōjin Ryōri In Modern Day Japan** # 53  
 Presenter: Luke Hatzell Mentor: Dr. Nobuaki Takahashi

<b>Engineering</b>		<b>Paper Presentation</b>		<b>N-232</b>
<b>9:30 AM</b>	<b>Analysis Of Photonic Waveguides Using FDTD</b>			<b># 55</b>
Presenter:	Grant Seville		Mentors: Dr. Mark Brinton, Dr. Kurt DeGoede	
<b>Computer Science</b>		<b>Computer Science Capstone Projects Paper Presentations</b>		<b>H-211</b>
<b>9:30 AM</b>	<b>Design And Implementation Of A Web-Based Color Preference Analytics System</b>			<b># 60</b>
Presenter:	Owen Wertzberger		Mentor: Dr. Jessica Wang	
<b>9:50 AM</b>	<b>Document Intelligence: A Web-Based Document Management System With Version Control And Role-Based Access</b>			<b># 61</b>
Presenters:	Joey Wagner, Mildred Nwachukwu-Innocent, Owen Yang		Mentor: Dr. Jessica Wang	
<b>10:10 AM</b>	<b>Jaywiki: A Cloud-Based Gallery Platform For Etown Computer Science Projects</b>			<b># 62</b>
Presenter:	Matthew Smith		Mentor: Dr. Jessica Wang	
<b>10:30 AM</b>	<b>Nest Planner: A Department-Level Automated Course Scheduling System</b>			<b># 63</b>
Presenters:	Laney Humble, Parker Engle, Aya Zourgani		Mentor: Dr. Jessica Wang	
<b>Psychology</b>		<b>Psychology and Neuroscience Honors Presentations</b>		<b>H-212</b>
			Panel Moderators: Dr. Jean Pretz and Dr. Elizabeth Dalton	
<b>9:30 AM</b>	<b>Social Media And Anxiety: A Mindfulness Intervention</b>			<b># 70</b>
Presenter:	Conor O'Brien		Mentor: Dr. Jean Pretz	
<b>9:50 AM</b>	<b>Art Mindfulness: An Examination Of Impacts And Mediators</b>			<b># 71</b>
Presenter:	Emily Byrne		Mentor: Dr. Jean Pretz	
<b>10:10 AM</b>	<b>Chronic And Acute Academic Stress As Predictors Of Anxiety And Depression: The Mediating Role Of Academic Rumination</b>			<b># 72</b>
Presenter:	Cassandra Drumheiser		Mentors: Dr. Elizabeth Dalton, Dr. Jean Pretz	
<b>10:30 AM</b>	<b>The Effects Of Proximal Acute Stressors On False Memory Creation</b>			<b># 73</b>
Presenter:	Madison Cannon		Mentor: Dr. Elizabeth Dalton	
<b>Biology</b>		<b>Honors in the Discipline- Biology and Environmental Sciences Paper Presentations</b>		<b>H-214</b>
			Panel Moderator: Dr. Robert Northington	
<b>9:30 AM</b>	<b>Does The <i>Hydra vulgaris</i> Microbiome Affect Susceptibility To Cell Death Through Ferroptosis?</b>			<b># 80</b>
Presenter:	Callie Asper		Mentor: Dr. Diane Bridge	
<b>9:50 AM</b>	<b>CD44 Isoform Selection In Virally Transformed Cells</b>			<b># 81</b>
Presenter:	Caitlyn Jensen		Mentor: Dr. Jane .F Cavender	
<b>10:10 AM</b>	<b>Impact Of Nutrient Content And Gram-Negative Bacteria On Lemna Minor Growth In Different Water Types</b>			<b># 82</b>
Presenter:	Anika Hodgdon		Mentor: Dr. Robert Northington	
<b>Biology</b>		<b>Paper Presentation</b>		<b>H-214</b>
<b>10:30 AM</b>	<b>Effect Of Microbial Diversity On Glucose Metabolism In <i>C. elegans</i></b>			<b># 83</b>
Presenter:	Maegan Wingert		Mentor: Dr. Debra Wohl	



## Session II

### 11:00 AM-12:20 PM

Political Science		Political Science Panel Paper Presentations	N-210
Panel Moderator: <b>Dr. Oya Dursun-Ozkanca</b>			
11:00 AM Presenter:	<b>From Kyiv To The DMZ: The Russia-Ukraine War And The Future Of The Korean Peninsula</b> Erina Fortune	Mentors: Dr. Oya Ozkanca, Dr. E. Fletcher McClellan	# 90
11:20 AM Presenter:	<b>Leveling The Field: Evaluating The Impact Of The Student Athlete Level Playing Field Act And Other Legislation On NCAA Governance And Athlete Rights In College Sports</b> Justin Marraccini	Mentors: Dr. Oya Ozkanca, Dr. E. Fletcher McClellan	# 91
11:40 AM Presenter:	<b>Rights On Paper, Power In Practice: Poland And The Limits Of The European Union And The European Court Of Human Rights</b> Ella Fulk	Mentors: Dr. Oya Ozkanca, Dr. E. Fletcher McClellan	# 92
Asian Studies and Religious Studies		Religion, Culture, and Society Paper Presentations	N-228
Panel Moderator: <b>Dr. Jeffery D. Long</b>			
11:00 AM Presenter:	<b>Spirituality And Medicine: The Osteopathic Philosophy</b> Thatcher Baney	Mentor: Dr. Jeffery Long	# 95
11:20 AM Presenter:	<b>The Christianization Of Early Medicine</b> Desiree Tirado	Mentor: Dr. Jeffery Long	# 96
11:40 AM Presenter:	<b>Ancient Egyptian Death Rituals</b> Madelyn Nicholas	Mentor: Dr. Jeffery Long	# 97
12:00 PM Presenter:	<b>Commercial Whaling In Japan: Sustainability, Culture, And Global Controversy</b> Kaci Gohn	Mentor: Dr. Jeffery Long	# 98
Education		Paper Presentation	N-232
11:00 AM Presenter:	<b>The Benefit And Disadvantages Of Dialogic Teaching In A Highschool History Classroom</b> Nicholas Jacobs	Mentor: Professor Wendy Bellew	# 102
Social Work		Paper Presentation	N-232
11:20 AM Presenter:	<b>Does Every Student Succeed? The Impact Of The Every Student Succeeds Act On High School Students Placed In Foster Care</b> Rachael Johnson	Mentor: Professor James Corbin	# 103

## Computer Science Capstone Project Presentations

Computer Science	Paper Presentation	H-211
<b>11:00 AM</b>	<b>Design And Implementation Of A Conversational Escalation Pipeline In Microsoft Teams</b>	<b># 110</b>
Presenters:	Alexander Roop, Hunter Rohrbaugh	Mentor: Dr. Jessica Wang
<b>11:20 AM</b>	<b>Silverslayer: An Integrated Cybersecurity Training Game And Home Lab Environment</b>	<b># 111</b>
Presenters:	Asher Wayde, John McGovern, Martin Ratchford	Mentor: Dr. Jessica Wang
<b>11:40 AM</b>	<b>Storyforge: An AI-Powered Platform For Interactive, Branching Storytelling</b>	<b># 112</b>
Presenters:	Matthew Smith, James Buck	Mentor: Dr. Jessica Wang

## Psychology and Neuroscience Honors Presentations

Psychology & Neuroscience	Paper Presentation	H-212
<b>11:00 AM</b>	<b>How Family Functioning Influences The Coming Out Process Among LGBTQ+ Young Adults</b>	<b># 115</b>
Presenter:	Leandra McMahon	Mentors: Dr. Michael Roy, Dr. Jean Pretz
<b>11:20 AM</b>	<b>Linking Brain Structure With Epilepsy And Behavioral Measures In Chromosome 8p Rearrangements</b>	<b># 117</b>
Presenter:	Makenna Snyder	Mentor: Dr. Jennifer Wittmeyer
<b>11:40 AM</b>	<b>Gray Matter Correlates Of Childhood And Adult Trauma Exposure</b>	<b># 118</b>
Presenter:	Chloe Haldeman	Mentor: Dr. Jennifer Wittmeyer

## Occupational Therapy Paper Presentations H-213

<b>11:40 AM</b>	<b>Function In Focus: Occupational Therapy's Role In The Management Of Juvenile Arthritis</b>	<b># 120</b>
Presenter:	Gabrielle Oliphant	Mentor: Dr. Laura Cunningham
<b>12:00 PM</b>	<b>Meeting An Unspoken Need: Developing Occupational Therapy Based Educational Materials For New Mothers At Risk For Postpartum Depression</b>	<b># 121</b>
Presenter:	Mackenzie Watts	Mentor: Dr. Gina Fox

## Honors in the Discipline- Biology and Environmental Sciences

Biology and Environmental Science	Paper Presentations	H-214
Panel Moderator: <b>Dr. Robert Northington</b>		
<b>11:00 AM</b>	<b>Establishing Reliable DNA Extraction Methods For Microbial Analysis Of Embalmed Cadaveric Tissues</b>	<b># 125</b>
Presenter:	Alyse Smith	Mentor: Dr. Debra Wohl
<b>11:20 AM</b>	<b>Linking Habitat Suitability To Deer-Vehicle Collision Hotspots In The Pennsylvania Piedmont</b>	<b># 126</b>
Presenter:	Makenzi Reed	Mentor: Dr. David Bowne
<b>11:40 AM</b>	<b>The Impact Of Cotton Amendment On Spinach Growth And Soil Characteristics</b>	<b># 127</b>
Presenter:	Kirra Johnson	Mentor: Dr. David Bowne

## Engineering Car Race College track # 128

<b>12:15 PM</b>	<b>Electric Car Race</b>	<b># 128</b>
Presenters:	Kyler Benedict, Mason Fangman, Billy Bartolomei, Ethan Smith, Kevin Betancur, Bridget Ferrarese, Jesse Georgieff, Ellison Mentzer, Mason Zimmerman, Lucy Stanek, Alex Hart, Kai Glick, Richard Dennis, Logan Leaman, Nathan Kerr, Kamauri Johnson, Micheal Beach, Mariia Yeni, Rayne Nolan, Alejandro Maestre Puello, Thomas Huston, Rafa Garza Gomez, Luke Williams, Hugh Rogers, Ethan Marquette, Madi Czuday, Morgan Carr, Logan Sumner, Dominic Valeriano, Jon-Marc Marshall, Jack Frankum, Luke Barger, Hunter Ward, Griffin Roeder, Charles Mbah, Joey Hildreth, Justin Fox, Enzo Vasile, Will Medley, KhaliQ Poles, Nicholas Powl, Micheal Wright, Nathan Wade, Alex Ruch, Carson Lefever, Waid Gainer, Parker Summers, Ben Zaitz, Yeshua Salgado, Jedd King, Jiovany Garcia, Brice Scicchitano, Wyatt Sokol, Will Stinson, Tristan Wood, Ben Curtis	Mentors: Dr. Shannon Clancy, Dr. Jean Batista Abreu



## Session III 1:15 PM-3:15 PM

Criminal Justice and Reducing Recidivism Paper Presentation		N-210
<b>Political Science</b>		
<b>1:15 PM</b>	<b>Recidivism Risk Among State Prisoners</b>	<b># 130</b>
Presenter:	Logan Rich	Mentor: Professor Nathan Gibson
<b>1:35 PM</b>	<b>Adolescence And Recidivism Rates</b>	<b># 131</b>
Presenter:	Casey Gabbrd	Mentor: Professor Nathan Gibson
<b>1:55 PM</b>	<b>Factors Affecting Suicide Rates Among Police Officers</b>	<b># 132</b>
Presenter:	Joseph Walko	Mentor: Professor Nathan Gibson
<b>2:15 PM</b>	<b>Reducing Recidivism Of Drug Offenders</b>	<b># 133</b>
Presenter:	Brendan Arthur	Mentor: Professor Nathan Gibson
Criminal Justice		N-210
<b>2:35 PM</b>	<b>Ready Restraint Protocol</b>	<b># 134</b>
Presenter:	Leandra McMahan	Mentor: Dr. Kadee Crandall
<b>2:55 PM</b>	<b>Building Credibility In The Courtroom: The Argument For Mandatory Forensic Laboratory Accreditation</b>	<b># 135</b>
Presenter:	Gwyneth Young	Mentor: Dr. Kadee Crandall
Religion, Culture, and Society Paper Presentations		N-228
<b>Asian Studies and Religious Studies</b>		<b>Dr. Jeffery D. Long</b>
<b>1:15 PM</b>	<b>Greek Orthodox Byzantine Chant</b>	<b># 140</b>
Presenter:	Rachel Troutman	Mentor: Dr. Jeffery Long
<b>1:35 PM</b>	<b>Overlaps And Interconnections: The Interdependence Of The World's Religions</b>	<b># 141</b>
Presenter:	Eli Boyle	Mentor: Dr. Jeffery Long

<b>Education Department Thesis Presentations</b>		
<b>Education</b>	<b>Paper Presentations</b>	<b>N-232 Dr. Kevin A. Peters</b>
<b>1:15 PM</b>	<b>Supporting Foundational Writing Skills In Second Grade: Differentiated Instructional Strategies For Students With Dyslexia</b>	<b># 150</b>
Presenter:	Kara Sullivan	Mentors: Dr. Kevin Peters, Leigh Shannon Haley-Mize
<b>1:35 PM</b>	<b>The Dismantling Of The Department Of Education</b>	<b># 151</b>
Presenter:	Dyllinn Rice	Mentors: Dr. Kevin Peters, Leigh Shannon Haley-Mize
<b>1:55 PM</b>	<b>Early Identification And Intervention Strategies For Students With ADHD In Primary Schools: Educator Perspectives And Practices</b>	<b># 152</b>
Presenter:	Emily Rathell	Mentors: Dr. Kevin Peters, Leigh Shannon Haley-Mize
<b>2:15 PM</b>	<b>Bridging The Gap: Strengthening IEP Transition Planning To Improve Postsecondary Education And Employment Outcomes</b>	<b># 153</b>
Presenter:	Andrew Reice	Mentors: Dr. Kevin Peters, Leigh Shannon Haley-Mize
<b>2:35 PM</b>	<b>Recess In Schools And Its Effects On Children</b>	<b># 154</b>
Presenter:	Elizabeth Kutteh	Mentors: Dr. Kevin Peters, Leigh Shannon Haley-Mize
<b>2:55 PM</b>	<b>Manufacturing Disparity: The Impact Of Violence And Racialized Space On Students In Prince George's County, Maryland</b>	<b># 155</b>
Presenter:	Haley Bateman	Mentors: Dr. Kevin Peters, Leigh Shannon Haley-Mize
<b>CS 350 From Data Mining to Deep Learning</b>		
<b>Computer Science</b>	<b>Paper Presentations</b>	<b>H-211 Panel Moderator: Dr. Peilong Li</b>
<b>1:15 PM</b>	<b>Ecosort: A Convolutional Neural Network Driven Framework For Sustainable Waste Management And Methane Reduction</b>	<b># 160</b>
Presenters:	Kathy Saldana Renteria, Kylie Ueda	Mentor: Dr. Peilong Li
<b>1:35 PM</b>	<b>Roadguardian: Real-Time Computer Vision Based Pothole Detection And Severity Classification</b>	<b># 161</b>
Presenters:	Drew Urenko, Carlos Valencia	Mentor: Dr. Peilong Li
<b>1:55 PM</b>	<b>Gridironvision: A Computer Vision Powered NFL Player Tracking System</b>	<b># 162</b>
Presenters:	Dominic Traina, Connor Price	Mentor: Dr. Peilong Li
<b>2:15 PM</b>	<b>Emotracker: An Integrated Multi-Modal AI Emotion Recognition System</b>	<b># 163</b>
Presenters:	Aaron Frist, Alexander Pellet, Matthew Smith	Mentor: Dr. Peilong Li
<b>Psychology and Neuroscience Honors Presentations</b>		
		<b>H-212</b>
<b>2:15 PM</b>	<b>Predicting Negative Attitudes About Immigrants Using Justice Beliefs And Morality</b>	<b># 170</b>
Presenter:	Percy Lachman	Mentor: Dr. T. Evan Smith
<b>2:35 PM</b>	<b>Social Support And Resilience And Its Impact On Academic Self-Efficacy And Performance</b>	<b># 171</b>
	Julie Brelsford	Mentor: Dr. T. Evan Smith

**Psychology** **H-212**

<b>1:55 PM</b>	<b>Attitudes Toward Immigrants In The United States</b>		<b># 172</b>
Presenter:	Ellie Muskens	Mentors: Dr. Michael Roy, Dr. Jean Pretz	
<b>1:15 PM</b>	<b>Seeking Discomfort: The Benefits Of Being Uncomfortable</b>		<b># 173</b>
Presenter:	Tainan Nunes	Mentor: Dr. Elizabeth Dalton	
<b>1:35 PM</b>	<b>Isolation Among Queer Individuals</b>		<b># 174</b>
Presenter:	Kassidy Maenner	Mentor: Dr. T. Evan Smith	

**Economics** **H-213**  
**Global Trade Agreements** **Dr. Sanjay Paul**

<b>1:15 PM</b>	<b>Analysis Of USMCA Trade Agreement</b>		<b># 180</b>
Presenters:	Trager Brown, Alessandro Amoroso, Nathan Schwing	Mentor: Dr. Sanjay Paul	
<b>1:35 PM</b>	<b>Analysis Of The Comprehensive And Progressive Agreement For Trans-Pacific Partnership</b>		<b># 181</b>
Presenters:	Kaci Gohn, Alexandra Swendrowski, Blake Stolarik	Mentor: Dr. Sanjay Paul	
<b>1:55 PM</b>	<b>A Multi-Dimensional Analysis Of RCEP Trade Agreement And Its Effect On Member Nations</b>		<b># 182</b>
Presenters:	Nathan Lutz, Gabriel Henry, Dominick Bonanno	Mentor: Dr. Sanjay Paul	
<b>2:15 PM</b>	<b>The World's Largest Trade Agreement: An Analysis Of The Current And Future Vitality Of The World Trade Organization</b>		<b># 183</b>
Presenter:	Mason Palmer	Mentor: Dr. Sanjay Paul	
<b>2:35 PM</b>	<b>The Costs And Benefits Of MERCOSUR: Economic Analysis And Political Implications</b>		<b># 184</b>
Presenters:	Catherine Boylan, Chloe Shanberger	Mentor: Dr. Sanjay Paul	
<b>2:55 PM</b>	<b>The European Union's Contemporary Trade Policy Framework: A Cost-Benefit Analysis Of Economic Outcomes, Political Dynamics, And Future Direction</b>		<b># 185</b>
Presenters:	Justin Marraccini, Nate Moser	Mentor: Dr. Sanjay Paul	

**Biology** **H-214**

<b>1:15 PM</b>	<b>Elucidating The Chemotherapeutic Mechanism Of Withaferin A In Polyoma Virus Transformed Cells</b>		<b># 190</b>
Presenter:	Elizabeth McCann	Mentor: Dr. Jane F Cavender	

**Honors in the Discipline- Biology and Environmental Sciences** **H-214**

<b>1:35 PM</b>	<b>Assessment Of Student Perceptions Of Working With Anatomical Donors In Anatomy Courses</b>		<b># 191</b>
Presenter:	Lauren Heidelbaugh	Mentor: Dr. Anya Goldina	



# Session IV

## 3:20 pm-4:40 pm

### Bowers Fitness Center

#### Public Heritage Studies

<b>3:20 PM</b>	<b>The American Sesquicentennial 1776-2026: The National Historic District Of Marietta, Lancaster County, Pennsylvania: The Homes Of United States Street (John Spangler – James Caracher House)</b>	<b># 200</b>
Presenter:	Emily Adams	Mentor: Prof. Jean Paul Benowitz
<b>3:20 PM</b>	<b>The American Sesquicentennial 1776-2026: The National Historic District Of Marietta, Lancaster County, Pennsylvania: The Homes Of United States Street (Wilson-Whitehill House)</b>	<b># 201</b>
Presenter:	Madeline Boop	Mentor: Prof. Jean Paul Benowitz
<b>3:20 PM</b>	<b>The American Sesquicentennial 1776-2026: The National Historic District Of Marietta, Lancaster County, Pennsylvania: The Homes Of United States Street (Henry Share Houses)</b>	<b># 202</b>
Presenter:	Chris DiPlacido	Mentor: Prof. Jean Paul Benowitz
<b>3:20 PM</b>	<b>The American Sesquicentennial 1776-2026: The National Historic District Of Marietta, Lancaster County, Pennsylvania: The Homes Of United States Street (Whiteside, Baker, Carroll House)</b>	<b># 203</b>
Presenter:	Paul Fulfer	Mentor: Prof. Jean Paul Benowitz
<b>3:20 PM</b>	<b>The American Sesquicentennial 1776-2026: The National Historic District Of Marietta, Lancaster County, Pennsylvania: The Homes Of United States Street (Goodman, Kulman, Cambridge House)</b>	<b># 204</b>
Presenter:	Anya Gilbert	Mentor: Prof. Jean Paul Benowitz
<b>3:20 PM</b>	<b>The American Sesquicentennial 1776-2026: The National Historic District Of Marietta, Lancaster County, Pennsylvania: The Homes Of United States Street (Mowery-Schock-Myers House (Carpet Hall Tenements))</b>	<b># 205</b>
Presenter:	Aaron Girvan	Mentor: Prof. Jean Paul Benowitz
<b>3:20 PM</b>	<b>The American Sesquicentennial 1776-2026: The National Historic District Of Marietta, Lancaster County, Pennsylvania: The Homes Of United States Street (Montgomery, Rich, Pickle House)</b>	<b># 206</b>
Presenter:	Acacia Kreider	Mentor: Prof. Jean Paul Benowitz
<b>3:20 PM</b>	<b>The American Sesquicentennial 1776-2026: The National Historic District Of Marietta, Lancaster County, Pennsylvania: The Homes Of United States Street (Jacob Nicholas House )</b>	<b># 207</b>
Presenter:	Joe Kurpis	Prof. Jean Paul Benowitz
<b>3:20 PM</b>	<b>The American Sesquicentennial 1776-2026: The National Historic District Of Marietta, Lancaster County, Pennsylvania: The Homes Of United States Street (David Cooke, Jr. House)</b>	<b># 208</b>
Presenter:	Ernest Lloyd	Mentor: Prof. Jean Paul Benowitz
<b>3:20 PM</b>	<b>The American Sesquicentennial 1776-2026: The National Historic District Of Marietta, Lancaster County, Pennsylvania: The Homes Of United States Street (James Whitehill Shupe House)</b>	<b># 209</b>
Presenter:	Jon-Marc Marshall	Mentor: Prof. Jean Paul Benowitz
<b>3:20 PM</b>	<b>The American Sesquicentennial 1776-2026: The National Historic District Of Marietta, Lancaster County, Pennsylvania: The Homes Of United States Street (St. John, Zell, Taggart House)</b>	<b># 210</b>
Presenter:	Elizabeth Marshall	Mentor: Prof. Jean Paul Benowitz
<b>3:20 PM</b>	<b>The American Sesquicentennial 1776-2026: The National Historic District Of Marietta, Lancaster County, Pennsylvania: The Homes Of United States Street Hiestand, Hershey, Carroll House)</b>	<b># 211</b>
Presenter:	Will Medley	Mentor: Prof. Jean Paul Benowitz

3:20 PM	<b>The American Sesquicentennial 1776-2026: The National Historic District Of Marietta, Lancaster County, Pennsylvania: The Homes Of United States Street(William Goodyear House)</b>	# 212
Presenter:	Mikalya Miller	Mentor: Prof. Jean Paul Benowitz
3:20 PM	<b>The American Sesquicentennial 1776-2026: The National Historic District Of Marietta, Lancaster County, Pennsylvania: The Homes Of United States Street (Benjamin Taylor - Jefferson Hotel)</b>	# 213
Presenter:	Nicole Morrell	Mentor: Prof. Jean Paul Benowitz
3:20 PM	<b>The American Sesquicentennial 1776-2026: The National Historic District Of Marietta, Lancaster County, Pennsylvania: The Homes Of United States Street (Jacob Roth Cooper Shop &amp; House)</b>	# 214
Presenter:	Ellie Swinehart	Mentor: Prof. Jean Paul Benowitz
3:20 PM	<b>The American Sesquicentennial 1776-2026: The National Historic District Of Marietta, Lancaster County, Pennsylvania: The Homes Of United States Street(George Christine House)</b>	# 215
Presenter:	Nathan Wade	Mentor: Prof. Jean Paul Benowitz
<b>Environmental Science-Grouped Posters BIO320</b>		
3:20 PM	<b>Conserving Biological Diversity At Elizabethtown College: A Proposed Stewardship Plan By Students In BIO320 Conservation Biology</b>	# 220
Presenters:	Lilianna DeBlasio, Emma Gilfillan	Mentor: Dr. David Bowne
3:20 PM	<b>Conserving Biological Diversity At Elizabethtown College: A Proposed Stewardship Plan By Students In BIO320 Conservation Biology</b>	# 221
Presenters:	Jay Diaz, Angelymarie Pacheco	Mentor: Dr. David Bowne
3:20 PM	<b>Conserving Biological Diversity At Elizabethtown College: A Proposed Stewardship Plan By Students In BIO320 Conservation Biology</b>	# 222
Presenters:	Kylie Holl, Hannah Walker	Mentor: Dr. David Bowne
3:20 PM	<b>Conserving Biological Diversity At Elizabethtown College: A Proposed Stewardship Plan By Students In BIO320 Conservation Biology</b>	# 223
Presenters:	Zachary Randolph, Samuel Rockey	Mentor: Dr. David Bowne
3:20 PM	<b>Conserving Biological Diversity At Elizabethtown College: A Proposed Stewardship Plan By Students In BIO320 Conservation Biology</b>	# 224
Presenters:	Josiah Twigg, Morgan Glassford	Mentor: Dr. David Bowne
3:20 PM	<b>Conserving Biological Diversity At Elizabethtown College: A Proposed Stewardship Plan By Students In BIO320 Conservation Biology</b>	# 225
Presenters:	Elizabeth Wasyluk, Ceinwyn Erb	Mentor: Dr. David Bowne
<b>Biology</b>		
3:20 PM	<b>Investigating Agricultural Influences On Stream Productivity And Nutrient Dynamics In South Greenland</b>	# 226
Presenter:	Elizabeth Wasyluk	Mentor: Dr. Robert Northington
3:20 PM	<b>The Effects Of Exposure To Cycloheximide On The Growth, Longevity, And Reproduction Of <i>Caenorhabditis elegans</i></b>	# 227
Presenter:	Amelia Ingersoll	Mentor: Dr. Debra Wohl
3:20 PM	<b>Developing A Feeding Assay Using <i>E. coli</i> Expressing Green Fluorescing Protein (GFP) To Measure Sodium Fluoride Toxicity In <i>C. elegans</i></b>	# 228
Presenter:	McKenzie Laity	Mentor: Dr. Debra Wohl

<b>3:20 PM</b>	<b>An Investigation Into The Antibacterial Effects Of Amish Home Remedies For Periodontal Disease</b>	<b># 229</b>
Presenter:	Asher Landrum	Mentor: Dr. Debra Wohl
<b>3:20 PM</b>	<b>The Effects Of Lactose Concentrations In Nematode Growth Medium Agar On Growth Of <i>C. elegans</i></b>	<b># 230</b>
Presenter:	Shannon O'Donnell	Mentor: Dr. Debra Wohl
<b>3:20 PM</b>	<b>From Object To Subject: The Biological Profile Of An Unknown Skeleton</b>	<b># 231</b>
Presenter:	Jacob Panckeri	Mentor: Dr. Elizabeth Newell
<b>3:20 PM</b>	<b>Effects Of Water Movement On Floating Behavior In Four Species Of The Invertebrate <i>Hydra</i></b>	<b># 232</b>
Presenters:	Loren Kukulka, Cecelia Paul	Mentor: Dr. Diane Bridge
<b>Biochemistry &amp; Molecular Biology</b>		
<b>3:20 PM</b>	<b>Mechanistic Approach To Thyroid Receptor Activity In Cancer Models</b>	<b># 240</b>
Presenter:	Emma Caszatt	Mentor: Dr. Amy Defnet
<b>3:20 PM</b>	<b>The Wonderfully Understudied World Of Protein: Understanding 3PU9</b>	<b># 241</b>
Presenter:	Spencer Mefford	Mentor: Dr. Amy Defnet
<b>3:20 PM</b>	<b>Investigation Of The Role Of AP-1 Transcription Factors In T1 Antigen Transformed Human Dermal Fibroblast Cells</b>	<b># 242</b>
Presenter:	Kellie Simon	Mentor: Dr. Amy Defnet
<b>3:20 PM</b>	<b>Addition Of Luminescent Metal-Organic Frameworks (Lmofs) To Gun Powder For Detection Of Gunshot Residue</b>	<b># 243</b>
Presenter:	Sophia Calzola	Mentor: Dr. Jeffrey Rood
<b>3:20 PM</b>	<b>Magnetic-Bead ELISA For Detection Of Lyme Disease</b>	<b># 244</b>
Presenter:	Corey Matriccino	Mentor: Dr. Lauren Toote
<b>Chemistry</b>		
<b>3:20 PM</b>	<b>Progress Toward The Synthesis Of A 6-Amino-5-Triazolopyridin-2(1H)-One PNA Nucleobase (Jtr) To Improve PNA-RNA-RNA Binding Affinity And Selectivity Through Pi-Pi Stacking</b>	<b># 245</b>
Presenters:	Isabell Anderson, Gabriel Sczesniak	Mentor: Dr. James MacKay
<b>3:20 PM</b>	<b>Synthesis Of 1,2,3-Triazoles With Acid Cleavable Protecting Groups Via Copper-Catalyzed Azide Alkyne Cycloaddition</b>	<b># 246</b>
Presenters:	Jacqueline Hammond, Arianna Lepratto, Kaylee Whiteford	Mentor: Dr. James MacKay
<b>3:20 PM</b>	<b>Synthesis Of An Extended Nucleobase Containing An Oxygen-Linker For Uracil Recognition In Double-Helical RNA Utilizing A Directed Lithiation And Nucleophilic Aromatic Substitution</b>	<b># 247</b>
Presenter:	Maxwell Marra	Mentor: Dr. James MacKay
<b>3:20 PM</b>	<b>The Mystery Of The Mount Gretna Fountain: Using Chemistry To Determine The Cause Of The Clog</b>	<b># 248</b>
Presenters:	Laasya Reddy Pesaladinne, Janhavi Raj	Mentor: Dr. Amy Defnet
<b>3:20 PM</b>	<b>From Aisle To Apiary: Analyzing The Chemical Profiles Of Store-Bought And Local Honey</b>	<b># 249</b>
Presenter:	Ella Powers	Mentor: Dr. Jeffrey Rood

<b>3:20 PM</b>	<b>Microwave-Assisted Synthesis And Luminescence Of Polypyridyl Zirconium Complexes For Inclusion Into Metal-Organic Framework</b>	<b># 250</b>
Presenter:	Matthew Lamb	Mentor: Dr. Jeffrey Rood
<b>3:20 PM</b>	<b>Microwave-Assisted Synthesis And Photophysical Characterization Of Rhenium And Osmium Complexes For Inclusion Into Luminescent Metal-Organic Frameworks</b>	<b># 251</b>
Presenter:	Robert Lynch	Mentor: Dr. Jeffrey Rood
<b>3:20 PM</b>	<b>Development Of A Nanoparticle-Based Lateral Flow Assay For The Detection Of Mercury In Drinking Water</b>	<b># 252</b>
Presenter:	Cameron Snelbaker	Mentor: Dr. Lauren Toote
<b>Neuroscience</b>		
<b>3:20 PM</b>	<b>Microglial Mechanisms In SARS-Cov-2-Induced Depression: A Literature Review Of Pathways And Sex Differences In Individuals With Long-Covid</b>	<b># 260</b>
Presenter:	Victoria Flores	Mentors: Dr. Jennifer Wittmeyer, Dr. Debra Wohl
<b>3:20 PM</b>	<b>Visualizing 8p Chromosome Rearrangements: Interactive Dashboards For Genotype-Phenotype Insights</b>	<b># 261</b>
Presenter:	Jack Hulse	Mentor: Dr. Jennifer Wittmeyer
<b>Psychology</b>		
<b>3:20 PM</b>	<b>Skin Conditions: Body Image Intervention And Promotion</b>	<b># 262</b>
Presenter:	Natalie Alexander	Mentors: Dr. Elizabeth Dalton, Dr. Jean Pretz
<b>3:20 PM</b>	<b>Exploring Predictors Of College Students' Attitudes Towards Individuals With Disabilities</b>	<b># 263</b>
Presenter:	Makenna Snyder	Mentor: Dr. Jean Pretz
<b>Education</b>		
<b>3:20 PM</b>	<b>Reclaiming Student Engagement And Authorship: Rhetoric In Secondary ELA Classrooms</b>	<b># 265</b>
Presenter:	Vince Clay	Mentor: Dr. Kevin Peters
<b>3:20 PM</b>	<b>Co-Teaching Outcomes In Title I Schools: How IEP Representation Shapes Instruction For Upper Elementary Learners</b>	<b># 266</b>
Presenter:	Maeve Keefe	Mentor: Dr. Kevin Peters
<b>3:20 PM</b>	<b>The Influence Of Oral Storytelling On Building Reading Comprehension Skills</b>	<b># 267</b>
Presenter:	Chelsea Mascioli	Mentor: Dr. Kevin Peters
<b>3:20 PM</b>	<b>Addressing The Special Education Teacher Shortage: Perceptions Of Pre-Service Teachers Regarding Special Education Certification And District Reassignment Practices</b>	<b># 268</b>
Presenters:	Marissa Puleo, Emily Witmer, Karli Jones	Mentor: Dr. Kevin Peters
<b>Communications</b>		
<b>3:20 PM</b>	<b>Coverage Of News Stories By Mainstream And Non-Traditional News Organizations And Journalists On Tiktok</b>	<b># 269</b>
Presenter:	Madilyn Fratis	Mentor: Dr. Kirsten Johnson
<b>Education</b>		
<b>3:20 PM</b>	<b>Building Bridges For A Brighter World: Connecting Communities Through Education</b>	<b># 270</b>
Presenter:	Kara Bidgood Enders	Mentor: Dr. Kevin Peters

## Political Science

**3:20 PM**      **Perceptions Of The Economy And Anti-Immigrant Policy**      # 271  
Presenter:      Jess Falconer      Mentor: Professor Nathan Gibson

## Occupational Therapy

**3:20 PM**      **Exploring Elementary PE Teachers' Confidence In Adaptive Physical Education: Implications For Occupational Therapy Collaboration**      # 275

Presenter:      Hannah Lupfer      Mentors: Dr. Marla Davis,  
Dr. Kevin Peters

**3:20 PM**      **Harnessing The Benefits Of Aquatic Therapy For Community Dwelling Older Adults: A Review For Occupational Therapy Practitioners**      # 276

Presenter:      Audrey Bower      Mentor: Dr. Gina Fox

**3:20 PM**      **How Occupational Therapy Educational Material Interventions Support Emerging Adults With Cystic Fibrosis**      # 277

Presenter:      London Cerullo      Mentor: Dr. Nancy Carlson

## Computer Science Capstone Projects

### Computer Science

**3:20 PM**      **Document Intelligence: A Web-Based Document Management System With Version Control And Role-Based Access**      # 278

Presenters:      Joey Wagner, Mildred Nwachukwu-Innocent, Owen Yang      Mentor: Dr. Jessica Wang

**3:20 PM**      **Silverslayer: An Integrated Cybersecurity Training Game And Home Lab Environment**      # 279

Presenters:      Asher Wayde, John McGovern, Martin Ratchford      Mentor: Dr. Jessica Wang

**3:20 PM**      **Design And Implementation Of A Conversational Escalation Pipeline In Microsoft Teams**      # 281

Presenters:      Alexander Roop, Hunter Rohrbaugh      Mentor: Dr. Jessica Wang

**3:20 PM**      **Jaywiki: A Cloud-Based Gallery Platform For Etown Computer Science Projects**      # 282

Presenter:      Matthew Smith      Mentor: Dr. Jessica Wang

## CS 350 From Data Mining to Deep Learning

### Computer Science

Dr. Peilong Li

**3:20 PM**      **Emotracker: An Integrated Multi-Modal AI Emotion Recognition System**      # 283

Presenters:      Aaron Frist, Alexander Pellet, Matthew Smith      Mentor: Dr. Peilong Li

**3:20 PM**      **Storyforge: An AI-Powered Platform For Interactive, Branching Storytelling**      # 284

Presenters:      Matthew Smith, James Buck      Mentor: Dr. Jessica Wang

## Computer Science Capstone Project

**3:20 PM**      **Design And Implementation Of A Web-Based Color Preference Analytics System**      # 285

Presenter:      Owen Wertzberger      Mentor: Dr. Jessica Wang

## Economics

**3:20 PM**      **Engineering Applications Of Control Theory For Short-Run Electricity Price Stabilization In High-Renewable Markets**      # 286

Presenter:      Isaac Reichenbach      Mentor: Dr. Sanjay Paul

<b>3:20 PM</b>	<b>Access System For 3D Printing In The Makerspace</b>	<b># 300</b>
Presenters:	Lucas Beaver, Santiago Caballero Alvarez, Vincent Liu, Jackson Moul, Noah Peiffer	Mentors: Dr. Mark Brinton, Dr. Brenda Daily, Dr. Sara Atwood, Dr. Tomás Estrada
<b>3:20 PM</b>	<b>Adaptable Shelf Design For The Makerspace</b>	<b># 301</b>
Presenters:	Robbie Hartman, Peyton Houlihan, Lily Shultz, Veyha Tang, Luke Williams	Mentors: Dr. Mark Brinton, Dr. Brenda Daily, Dr. Sara Atwood, Dr. Tomás Estrada
<b>3:20 PM</b>	<b>Busy Board For Individuals With Dementia</b>	<b># 302</b>
Presenters:	Nathan Fritz, Pat Neyer, Jacob Nichols, Bradley Wright	Mentors: Dr. Mark Brinton, Dr. Brenda Daily, Dr. Sara Atwood, Dr. Tomás Estrada
<b>3:20 PM</b>	<b>Carrying Case For Earthquake Board</b>	<b># 303</b>
Presenters:	Domenic Giordano, Luis Guzman Maldonado, Lucas Scheib, Charlie Sheerer, Ethan Spencer	Mentors: Dr. Mark Brinton, Dr. Brenda Daily, Dr. Sara Atwood, Dr. Tomás Estrada
<b>3:20 PM</b>	<b>Copper Etching Station</b>	<b># 304</b>
Presenters:	Allison Bushey, Nathaniel Butz, Arden Kiner, Brandon Stepp, Tanner Uhde	Mentors: Dr. Mark Brinton, Dr. Brenda Daily, Dr. Sara Atwood, Dr. Tomás Estrada
<b>3:20 PM</b>	<b>Holiday Parade Display</b>	<b># 305</b>
Presenters:	Isabella Green, Gavin Hawley, Evelyn Mormino, Paul Sanderson, Delan Zinyau	Mentors: Dr. Mark Brinton, Dr. Brenda Daily, Dr. Sara Atwood, Dr. Tomás Estrada
<b>3:20 PM</b>	<b>Interactive Board For Playground Fence: Team B</b>	<b># 306</b>
Presenters:	DeMarco Bell, Samuel Frey, Wyatt Juczak, Colden Warren, Crew Wells	Mentors: Dr. Mark Brinton, Dr. Brenda Daily, Dr. Sara Atwood, Dr. Tomás Estrada
<b>3:20 PM</b>	<b>Interactive Display For Playground Fence: Team A</b>	<b># 307</b>
Presenters:	Barron Bishop, Katie Bolig, Danny Jenkins-Ford, Addison Kleinle, Jonah Pertet	Mentors: Dr. Mark Brinton, Dr. Brenda Daily, Dr. Sara Atwood, Dr. Tomás Estrada
<b>3:20 PM</b>	<b>Modular Reconfigurable Tool Access System For Makerspace</b>	<b># 308</b>
Presenters:	Noah Fraser, Kirsten Navich, Jake Ruple, Gavin Shaw	Mentors: Dr. Mark Brinton, Dr. Brenda Daily, Dr. Sara Atwood, Dr. Tomás Estrada
<b>3:20 PM</b>	<b>Mud Kitchen</b>	<b># 309</b>
Presenters:	Habiba Abouelnagah, Hailey Meyer, Brennan Ruppert, Emma Walter, Brayden Welzel	Mentors: Dr. Mark Brinton, Dr. Brenda Daily, Dr. Sara Atwood
<b>3:20 PM</b>	<b>Outdoor Playground Equipment</b>	<b># 310</b>
Presenters:	Zane Cooper, Febian Dawit, Ty Hornick, Evan Spencer, Cole Warner	Mentors: Dr. Mark Brinton, Dr. Brenda Daily, Dr. Sara Atwood
<b>3:20 PM</b>	<b>Peruvian Art Display Case</b>	<b># 311</b>
Presenters:	Seth Haak, Miles Dougherty, Cole Lovell, Brett Reed, Mariia Yeni	Mentors: Dr. Mark Brinton, Dr. Brenda Daily, Dr. Sara Atwood
<b>3:20 PM</b>	<b>Retro Music Player</b>	<b># 312</b>
Presenters:	Aden Geary, Drew Hall, Riley Hoffman, Evan Johnson, Marco Niosi	Mentors: Dr. Mark Brinton, Dr. Brenda Daily, Dr. Sara Atwood, Dr. Tomás Estrada

**Engineering**

<b>3:20 PM</b>	<b>The Future Of Photovoltaics: Recycling, Economics, And Emerging Applications</b>	<b># 315</b>
Presenter:	Jack Gress Mentors: Dr. Brenda Daily, Dr. Mark Brinton	
<b>3:20 PM</b>	<b>Creating Consistent Hand Sensations Evoked By Transcutaneous Nerve Stimulation At The Wrist</b>	<b># 316</b>
Presenter:	Hunter Taggart Mentor: Dr. Mark Brinton	
<b>3:20 PM</b>	<b>Miniaturized Constant Current Stimulator From High Voltage Pulses</b>	<b># 317</b>
Presenter:	Emmanuel Attah Mentor: Dr. Mark Brinton	

**Engineering Senior Project****Shannon Clancy**

<b>3:20 PM</b>	<b>Team 1: Live Fire Training Device</b>	<b># 401</b>
Presenters:	Eli Andy, Cole Burkhardt, William Mickulik, Taylor Strader Mentors: Dr. Shannon Clancy, Dr. Judson Wagner, Dr. Tomás Estrada	
<b>3:20 PM</b>	<b>Team 2: Parker Hannefin Hot Plate Capper</b>	<b># 402</b>
Presenters:	Brennan Bower, Jazz Gonzalez, Samuel Senkowicz, William Sipe, John Weaver Mentors: Dr. Shannon Clancy, Dr. Judson Wagner, Dr. Tomás Estrada	
<b>3:20 PM</b>	<b>Team 3: Vagus Nerve Stimulator</b>	<b># 403</b>
Presenters:	Jack Gress, Kayla Harvey, Nicholas Prokic, Steven Rice, Brent Wehland Mentors: Dr. Shannon Clancy, Dr. Judson Wagner, Dr. Tomás Estrada	
<b>3:20 PM</b>	<b>Team 4: Adaptive Game Controller</b>	<b># 404</b>
Presenters:	Justin Cedeno, Keagan Kinney, Pedro Menezes de Castro Miranda, Grant Seville, Brock Troutman, Elijah Wagner Mentors: Dr. Shannon Clancy, Dr. Judson Wagner, Dr. Tomás Estrada	
<b>3:20 PM</b>	<b>Team 6: Etown Detention Pond</b>	<b># 406</b>
Presenters:	Dominic Andrews, Daniel Dein, Dylan Groshek, Owen Heffner, Dallas Scicchitano Mentors: Dr. Shannon Clancy, Dr. Judson Wagner, Dr. Tomás Estrada	
<b>3:20 PM</b>	<b>Team 7: Bleachers ADA Ramp And Platform</b>	<b># 407</b>
Presenters:	Kaylee Blair, Andrew Bolig, Angela Costa-Ouimet, Colby Farris, Bradley Wright Mentors: Dr. Shannon Clancy, Dr. Judson Wagner, Dr. Tomás Estrada	
<b>3:20 PM</b>	<b>Team 9: Athletic Motion Capture</b>	<b># 408</b>
Presenters:	David Conde Rodriguez, Leif Hoffman, James Hutchins, Vincent Liu, Evan Swanson Mentors: Dr. Shannon Clancy, Dr. Judson Wagner, Dr. Tomás Estrada	
<b>3:20 PM</b>	<b>Team 8: Wastewater Sewer System</b>	<b># 409</b>
Presenters:	Melisa Bulut, Caroline Casumpang, Jacob Ebert, Alexander McClain, Schumy Pascal Mentors: Dr. Shannon Clancy, Dr. Judson Wagner, Dr. Tomás Estrada	
<b>3:20 PM</b>	<b>Team 5: Medication Storage For Unhoused Populations</b>	<b># 410</b>
Presenters:	Ian Bender, Michael Ickes, Braydon Malley, Isaac Reichenbach, Chris Reilly Mentors: Dr. Shannon Clancy, Dr. Judson Wagner, Dr. Tomás Estrada	

**Information Systems**

<b>3:20 PM</b>	<b>Blue Jay Pantry</b>	<b># 412</b>
Presenters:	Megan Benson, Andrew Heyeh, Rohan Chappali Mentor: Professor Nancy Reddig	

## Computer Science Capstone Project

### Computer Science

**3:20 PM Nest Planner: A Department-Level Automated Course Scheduling System # 413**  
Presenters: Laney Humble, Parker Engle, Aya Zourgani Mentor: Dr. Jessica Wang

## Software Engineering Projects

### Information Systems

**3:20 PM Fantasy Stocks # 414**  
Presenters: Paul Davis, Ryder Paulus, Aya Zourgani Mentor: Professor Nancy Reddig

**3:20 PM Jaycloset # 415**  
Presenters: Farnaz(Teddy) Bazyar, Isabella Edwards, Isabella La Face, Kylie Ueda Mentor: Professor Nancy Reddig

**3:20 PM Uis (Unified Inventory System) # 418**  
Presenters: Rein Alderfer, Alexander Pellet, Drew Urenko, Hector Franco Mentor: Professor Nancy Reddig

## Engineering Senior Project

### Engineering

**3:20 PM Team 10: Interactive Tabletop # 419**  
Presenters: Andrew Ament, Braden Scott, Austin Smith, Owen Wertzberger, Ryan Woodruff Mentors: Dr. Shannon Clancy, Dr. Judson Wagner, Dr. Tomás Estrada

### Information Systems

**3:20 PM Robot Simulation # 420**  
Presenters: Andrew Ament, Hunter Rohrbaugh, Braden Scott, Ryan Woodruff Mentor: Professor Nancy Reddig

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# Scholarship and Creative Arts Day Program Cover Contest

**Congratulations to this year's winner!**

**Ariel Abbott '27**

## **Artists Statement:**

For this cover design for SCAD 2026, I wanted to incorporate what I've learned over the years from my graphic design coursework: branding, illustration, and photo editing. I also illustrated a blue Jay wearing a tie and glasses, to symbolize the preparation and professionalism that students bring to their SCAD presentations and projects. Through this piece, I aimed to capture a visual identity that honors our academic presentations and the creative spirit of our student body.

