

BUTLER UNIVERSITY
CENTER FOR HIGH ACHIEVEMENT AND SCHOLARLY ENGAGEMENT

IMAGINE

EXPLORE

ACHIEVE

URC 2015

UNDERGRADUATE RESEARCH CONFERENCE

APRIL 10, 2015

Welcome to Butler University's Annual Undergraduate Research Conference.

This 27th annual showcase of impressive student research is another one for the record books. Almost 1,000 participants have registered for the 2015 conference. They represent 58 different colleges and universities in 16 different states and the District of Columbia, and plan to share close to 600 presentations today.

At last year's URC, more than half of the presentations came from students outside Butler. This year, some two-thirds of the participants are non-Butler students. I am pleased that our Bulldog student researchers will have this opportunity to meet with and learn from so many talented peers.

The 2015 conference theme, "Imagine, Explore, Achieve," are words that have inspired Butler's recent efforts to be recognized nationally for the quality of our academics and graduates. Those efforts include support of innovative student and faculty research, and the numerous infrastructure updates happening on our campus.

"Imagine, Explore, Achieve" also articulates the steps any committed researcher takes—imagining new pathways and outcomes, exploring those ideas through testing and documentation, and achieving results that confirm hypotheses and move knowledge ahead.

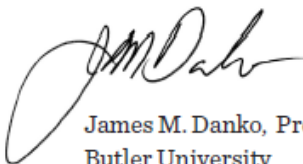
Like our construction projects, research starts by breaking down what is known and what exists, so that the new and the unexpected can emerge in that space. Both activities take open mindedness, collaboration, and resilience in the face of obstacles to reach the desired end.

Your presence here today celebrates your achievement in facing those challenges successfully, and your standing as an active scholar. Congratulations.

Good luck in delivering your presentations. And, please support your conference colleagues by attending as many other presentations as you can.

I hope URC 2015 inspires you to continue exploring and sharing knowledge with your peers and with a world eager for your insights and solutions.

Sincerely,



James M. Danko, President
Butler University

Dear Friends of the Butler University Undergraduate Research Conference,

Thank you for attending the 2015 Undergraduate Research Conference at Butler University. We have surpassed last year's record number of presentations, and the diversity of institutions represented is simply thrilling. It has been absolutely my privilege to serve as the Director of this year's conference. Please reach out to me during the day to say hello and let me know if you have enjoyed the experience.

This event would not be possible without the help of a number of volunteers from across campus. I would like to give a sincere thanks to all of them. Our Conference Coordinator, Cathy Holland, deserves special credit for her dedication to providing all of our attendees with the best experience possible. All of our area coordinators (listed in the program) have devoted a great deal of time to organize their individual areas. Each area also has a number of faculty members serving as volunteer session moderators, who make sure that each session runs as smoothly as possible.

Whitney Bryant, Brian Wilson, Kendra Soliday, and the rest of the Information Technology staff have solved all of our technological needs. The library staff, headed by Dean Julie Miller, has provided a wonderful space for our poster presentations, art exhibitions, and check-ins. A special appreciation goes out to Regan Bright and Teresa Williams for their organizational expertise. Andrea Scarlett from Conferences and Special Events has been fantastic with organizing the classroom spaces throughout campus for our sessions. Thank you as well to anyone I've missed here.

I hope that you will consider extending the influence of your URC work by exploring two different publication opportunities. Representatives from the Digital Commons and the *Butler Journal of Undergraduate Research* will be available in the library during the check-in process.

The support for this event from across campus is overwhelming. Thank *you* for attending the URC. I hope to see you return next year!



Rusty Jones, PhD
Director, Undergraduate Research Conference

Oral Presentations

Anthropology

From Public City to 'Philanthropolis': Comparing Two Models for Downtown Development in Indianapolis

Moderators: Susan Hyatt

10:00 AM - 11:00 AM Jordan Hall 276

10:00 AM — Connecting the City: The Idea for the Cultural Trail Comes to Life

Elliot Boyle *Indiana University Purdue University Indianapolis*. Faculty Sponsors: Sue Hyatt *Indiana University Purdue University Indianapolis*.

10:15 AM — Cycling through the Creative Cities: A Ride of Economic Stimulus or Gentrification?

Jeremy Lahey *Indiana University Purdue University Indianapolis*. Faculty Sponsors: Susan Hyatt *Indiana University Purdue University Indianapolis*.

10:30 AM — The Indianapolis Cultural Trail: If You Build It, Who Takes Care of It?

Jessica Inabnitt *Indiana University Purdue University Indianapolis*. Faculty Sponsors: Susan Hyatt *Indiana University Purdue University Indianapolis*.

10:45 AM — From Drainage Ditch to Tourist Attraction: The Story of Indianapolis' Downtown Canal

Lynette Taylor *Indiana University Purdue University Indianapolis*. Faculty Sponsors: Sue Hyatt *Indiana University Purdue University Indianapolis*.

Authenticity, Identity, and Citizenship

Moderators: Sholeh Shahrokhi

11:15 AM - 12:00 PM Jordan Hall 276

11:15 AM — Is There a Price for “Authentic” Urbanism? Indianapolis’ Plan2020

Kelli Cantrell *Indiana University Purdue University Indianapolis*. Faculty Sponsors: Susan Hyatt *Indiana University Purdue University Indianapolis*.

11:30 AM — What is a European? Sense of Belonging in the European Union: State and Citizen Perspectives

Léa Levy *Butler University*. Faculty Sponsors: Elise Edwards *Butler University*, María Eugenia Brockmann *Butler University*.

11:45 AM — Zapatismo: A Fight For Pluri-Ethnic Citizenship and Mexican Solidarity

Noah Jake Huyette *Butler University*. Faculty Sponsors: Sholeh Shahrokhi *Butler University*.

Art History and Presentations

Moderators: Elizabeth Mix

1:00 PM - 2:30 PM Lilly Hall 133

01:00 PM — Our History

Taylor Sitorius *Butler University*. Faculty Sponsors: Steve Nyktas *Butler University*.

01:15 PM — Music Speaks

Jasmine Gonsalves *Butler University*. Faculty Sponsors: Steve Nyktas *Butler University*.

01:30 PM — Lights Camera Action

William Heed *Butler University*. Faculty Sponsors: Steve Nyktas *Butler University*.

01:45 PM — Monstrous Divinity: Finding the Holy in Unholy Spaces

Emma Landwerlen *Butler University*. Faculty Sponsors: Steve Nyktas *Butler University*.

02:00 PM — Inside the Mind of a Graphic Novel Artist

Joel Fuller *Butler University*. Faculty Sponsors: Robert Stapleton *Butler University*, Gautam Rao *Butler University*.

02:15 PM — Names for Your Ghosts: Photography & Textual Art Series

Reid Bruner *Butler University*. Faculty Sponsors: Steve Nyktas *Butler University*.

Biochemistry & Molecular Biology

Biochemistry & Molecular Biology 1

Moderators: Jeremy Johnson

9:30 AM - 10:45 AM Gallahue Hall 105

09:30 AM — Investigation of the Role of Shp2 Phosphatase Domains in Oncogenic KIT Receptor Mediated Transformation

Braden Sciarra *Butler University*. Faculty Sponsors: Reuben Kapur *Butler University*.

09:45 AM — Engineering a Colorimetric Biosensor for the Detection of Contaminants in Water, Milk, and Herbal Medicines

Bridget Condon *Saint Mary's College*, Erin Cisneros *Saint Mary's College*. Faculty Sponsors: Don Paetkau *Saint Mary's College*.

10:00 AM — Bacterial Fight Club: Two-Component Signaling Cascades and Type VI Secretion System Cross-Interactions Benefit Bacterial Fitness

Himesh Zaver *Belmont University*, Kirsten R. Guckes *Vanderbilt University*, Jennifer T. Thomas *Vanderbilt University*, Maria Hadjifrangiskou *Vanderbilt University*. Faculty Sponsors: Jennifer Thomas *Vanderbilt University*.

10:15 AM — Global Substrate Specificity of Serine Hydrolases in Mycobacterium Smegmatis

Braden Bassett *Butler University*. Faculty Sponsors: Jeremy Johnson *Butler University*.

10:30 AM — Genetic Manipulation Increases Rates of DNA Exchange in the Bacterium Acinetobacter Baumannii

Justin Smith *Belmont University*. Faculty Sponsors: Jennifer Thomas *Belmont University*, Michael Noto *Belmont University*, Eric Skaar *Belmont University*.

Biochemistry & Molecular Biology 2

Moderators: Geoffrey Hoops

11:00 AM - 12:00 PM Gallahue Hall 105

11:00 AM — Active Site Control of an Interesting Structural Equilibrium in a Bacterial Hydrolase

Perry Rabin *Butler University*. Faculty Sponsors: R. Jeremy Johnson *Butler University*.

11:15 AM — Development of a Structural Model for the Human Dopamine Transporter Protein (hDAT)

Matthew Castellana *Ohio Northern University*. Faculty Sponsors: Tarek Mahfouz *Ohio Northern University*.

11:30 AM — Measuring Palmitoylation in Bacterial and Human Cells

Arielle Russell *Butler University*. Faculty Sponsors: Jeremy Johnson *Butler University*.

11:45 AM — Regulation of the Estrogen Receptor via Catechin Polyphenols from Green Tea

Abigail Ethers *Rose-Hulman Institute of Technology*. Faculty Sponsors: Ross Weatherman *Rose-Hulman Institute of Technology*.

Biochemistry & Molecular Biology 3

Moderators: Jennifer Kowalski

1:15 PM - 2:30 PM Gallahue Hall 102

01:15 PM — Investigation of SYD-2 Protein as a Substrate of the Anaphase-Promoting Complex Enzyme at the C. Elegans Neuromuscular Junction

Daniel Lester *Butler University*, Kristen Rush *Butler University*, Kyle Brumbaugh *Butler University*. Faculty Sponsors: Jennifer Kowalski *Butler University*.

01:30 PM — Chemotaxis Response in Caenorhabditis Elegans to an Olfactory Repellent Paired With Nicotine

Amanda Bigness *Belmont University*. Faculty Sponsors: Robert Grammer *Belmont University*.

01:45 PM — Investigating the Meningeal Reaction in the Axolotl Spinal Cord Regeneration

Sarah Scott *Indiana University Purdue University Indianapolis*, Ellen Chernoff *Indiana University Purdue University Indianapolis*, Maia Kirk *Indiana University Purdue University Indianapolis*. Faculty Sponsors: Ellen Chernoff *Indiana University Purdue University Indianapolis*.

02:00 PM — An Enzyme-Activated Fluorescence System Is Useful for Studying the Substrate Specificity of Gut Hydrolases in Caenorhabditis Elegans

Shataakshi Dube *Butler University*, Hitesh Dube *Butler University*, Nicole Green *Butler University*, Jeremy Johnson *Butler University*, Jennifer Kowalski *Butler University*. Faculty Sponsors: Jennifer Kowalski *Butler University*.

02:15 PM — The Effect of 6-OHDA on SKN-1 in Parkinson's

Rezzan Hekmat *Belmont University*. Faculty Sponsors: Nick Ragsdale *Belmont University*.

Biochemistry & Molecular Biology 4

Moderators: Jennifer Thomas

1:15 PM - 2:30 PM Gallahue Hall 105

01:15 PM — Membrane Binding of FTT258, a Bacterial Carboxylesterase from Francisella Tularensis

Mackenzie Smith *Butler University*. Faculty Sponsors: Jeremy Johnson *Butler University*.

01:30 PM — HPV-Positive Cervical Cancer Cells Show Generally Reduced Levels of IFN-Alpha

Sarah Bonaparte *Belmont University*. Faculty Sponsors: Jennifer Thomas *Belmont University*.

01:45 PM — The Effect of Gibberellin and Other Phytohormones in Systemic Acquired Resistance & Defense-Related Genes in Moss

Joey Hebert *Butler University*, Nat Hauck *Butler University*, Andy Holte *Butler University*. Faculty Sponsors: Nat Hauck *Butler University*.

02:00 PM — The Evaluation of Interferon-Beta Levels in HPV-Positive Cervical Cancer Cell Lines

Olivia Ford *Belmont University*. Faculty Sponsors: Jennifer Thomas, Ph.D. *Belmont University*.

Biology

Biology: Cellular Physiology I

Moderators: Jennifer Kowalski

9:45 AM - 10:45 AM Pharmacy & Health Sciences 106A

09:45 AM — Appetite Suppressing Effects of Nicotine on *Caenorhabditis Elegans* Chemotaxis to *E. Coli*

Khang Tran *Belmont University*. Faculty Sponsors: Robert Grammer *Belmont University*.

10:00 AM — The Anxiogenic Effects of 5-APB and Dark Rage™ (Pre-Workout) on *Danio Rerio*

Jaime Wesley *Belmont University*. Faculty Sponsors: Lori McGrew *Belmont University*.

10:15 AM — Effect of Stimulants and Depressants on Short Term Behavioral Changes in Betta Fish (*Betta Splendens*)

Kasun Bodawatta *Earlham College*, Gisèle Aubin *Earlham College*, Ashley Hedrick *Earlham College*. Faculty Sponsors: Wendy Tori *Earlham College*.

10:30 AM — Effects of Subtoxic Levels of Triclosan on Working Memory and Anxiety Levels in *Danio Rerio*

Hensley Barnes *Belmont University*. Faculty Sponsors: Lori McGrew *Belmont University*.

Biology: Ecology and Evolution I

Moderators: Erin Gerecke

9:45 AM - 10:45 AM Pharmacy & Health Sciences 106B

09:45 AM — An Examination of Leaf Retention and Herbivory Rates in Invasive and Native Shrubs in an East-Central Indiana Forest Fragment

Caitlin Clark *Earlham College*, Ashley Hedrick *Earlham College*, Kasun Bodawatta *Earlham College*, Andrew Hood *Earlham College*. Faculty Sponsors: Brent Smith *Earlham College*.

10:00 AM — Determining the Effects of Invasive Plant Species on Soil Environments with *C. Elegans* Chemotaxis Bioassays

John Holt *Belmont University*. Faculty Sponsors: Robert Grammer *Belmont University*.

10:15 AM — Food Quality of and Preference for Native and Exotic Plant Leaves by the Terrestrial Isopod, *Armadillidium Vulgare*

John Gossen *Belmont University*, John Niedzwiecki *Belmont University*, Darlene Panvini *Belmont University*. Faculty Sponsors: Darlene Panvini *Belmont University*, John Niedzwiecki *Belmont University*, Jennifer Thomas *Belmont University*.

10:30 AM — Fluorescence Measurements of Phototrophic Sulfur Bacteria for Applications in Water Column Profiling

Simran Gurdasani *Indiana University Purdue University Indianapolis*. Faculty Sponsors: Horia Petrache *Indiana University Purdue University Indianapolis*, Merrell Johnson *Indiana University Purdue University Indianapolis*, William Gilhooly III *Indiana University Purdue University Indianapolis*.

Biology: Cellular Physiology II

Moderators: Lindsay Lewellyn

11:00 AM - 12:00 PM Pharmacy & Health Sciences 106A

11:00 AM — Characterizing a Role for the Misshapen Kinase in Growth of the Germline Ring Canals in the Developing Egg Chamber

Ashley Kline *Butler University*. Faculty Sponsors: Lindsay Lewellyn *Butler University*.

11:15 AM — The Effects of Anxiolytic Medication on Memory Formation in Stress Induced Danio Rerio Specimens

Iqra Wahid *Belmont University*. Faculty Sponsors: Lori McGrew *Belmont University*.

11:30 AM — The Effects of Different Dosages of α -Lipoic Acid on the Chemotaxis of Caenorhabditis Elegans at Various Stages of Adulthood

Alicia Hsu *Belmont University*. Faculty Sponsors: Robert Grammer *Belmont University*.

11:45 AM — The Effect on Danio Rerio Memory after Chronic Exposure to WIN 55,212-2 Mesylate

Cassie Wyatt *Belmont University*. Faculty Sponsors: Lori McGrew *Belmont University*.

Biology: Ecology and Evolution II

Moderators: Carmen Salsbury

11:00 AM - 12:00 PM Pharmacy & Health Sciences 106B

11:00 AM — Climatic Effects on Nesting and Reproductive Output in Snapping Turtles (Chelydra Serpentina)

Ashley Hedrick *Earlham College*, Laura Corichi *Earlham College*, Hanna Klondaris *Earlham College*. Faculty Sponsors: John Iverson *Earlham College*.

11:15 AM — Migration Orientation Patterns of Juvenile Wood Frogs (Lithobates Sylvaticus), Spotted Salamanders (Ambystoma Maculatum), and American Toads (Anaxyrus Americanus)

Teresa Smit *Denison University*. Faculty Sponsors: Rebecca Homan *Denison University*.

11:30 AM — Preferred Microhabitat Conditions of Vaejovis Carolinianus in a Middle Tennessee Cedar Glade

Chelsea Lee *Belmont University*. Faculty Sponsors: Steve Murphree *Belmont University*.

11:45 AM — Survey of the Bark Call Frequency of Eastern Fox Squirrels (Sciurus Niger)

Nicole Bledsoe *Butler University*, Tyler Willis *Butler University*, Eric Medrano *Butler University*, Carmen Salsbury *Butler University*. Faculty Sponsors: Carmen Salsbury *Butler University*.

Biology: Ecology and Evolution III

Moderators: Andrew Stoehr

1:15 PM - 2:30 PM Pharmacy & Health Sciences 106A

01:15 PM — Morphological Variable Associated with Flight Mechanics in Passeriforme Birds

Bradley Weinstein *Butler University*. Faculty Sponsors: Shelley Etnier *Butler University*.

01:30 PM — Patterns of Growth, Plasticity, and Canopy Structure of *Acer Saccharum* and *Quercus Rubra* in Differing Light Conditions

Delaney Gibbs *Earlham College*, Gabriel Penk *Earlham College*, Brianne Cody *Earlham College*. Faculty Sponsors: Brent Smith *Earlham College*.

01:45 PM — Phenotypic Plasticity of Butterfly Wing Coloration: The Role of Multiple, Interacting Factors

Devin VanWanzele *Butler University*. Faculty Sponsors: Andrew Stoehr *Butler University*.

02:00 PM — The Effects of Ontogenetic Changes in Size and Shape on the Shell Strength of *Graptemys Geographica*

Dakota Speck *Butler University*. Faculty Sponsors: Shelley Etnier *Butler University*.

Biology: Genetics and Microbiology

Moderators: Nat Hauck

1:15 PM - 2:30 PM Pharmacy & Health Sciences 106B

01:15 PM — Community-Associated Methicillin-Resistant *Staphylococcus Aureus* Isolate on Belmont University's Campus is Negative for PBP2a as the Mechanism of Resistance

Rebekah Shepherd *Belmont University*. Faculty Sponsors: Jennifer Thomas *Belmont University*.

01:30 PM — How Genetic Engineering Can Save Us All

Stephanie Perry *Purdue University North Central*. Faculty Sponsors: Heather Fielding *Purdue University North Central*.

01:45 PM — The Prevalence of *Escherichia Coli* and Fecal Coliforms on Backpacks of College Students in Central Kentucky

Samantha McMichael *Midway College*. Faculty Sponsors: Beverly Juett *Midway College*.

02:00 PM — Panton-Valentine Leukocidin Exotoxin Found in Methicillin-Sensitive and -Intermediate *Staphylococcus Aureus* Samples on Belmont University's Campus

Jordan Helms *Belmont University*. Faculty Sponsors: Jennifer Thomas *Belmont University*.

02:15 PM — The Prevalence of *Staphylococcus Aureus* on Students' Backpacks in Central Kentucky

Alyssa McGuffey *Midway College*. Faculty Sponsors: Beverly Juett *Midway College*.

Business & Economics

Business & Economics 1

Moderators: Hilary Buttrick

1:00 PM - 2:15 PM Gallahue Hall 106

01:00 PM — A Question of Culture: The Impact of Personality and College Major on Preferences for Company Culture

Kathryn Carroll Butler University, Courtney Droms Butler University. Faculty Sponsors: Courtney Droms Butler University.

01:15 PM — The Impact and Interaction of Music Familiarity and Congruency on Responses to Advertisements

Michael Blecha Butler University. Faculty Sponsors: Margaret Padgett Butler University.

01:30 PM — Online Shopping Security Perception

Amy Wright Butler University. Faculty Sponsors: Hongjiang Xu Butler University.

01:45 PM — Microfinance's Effectiveness in Reducing Poverty

Kristin Gutierrez Butler University. Faculty Sponsors: Peter Prescott Butler University.

02:00 PM — Colonization and Modern Economic Levels

Caleb Leininger Manchester University. Faculty Sponsors: Sreenath Majumder Manchester University.

Business & Economics 2

Moderators: Hilary Buttrick

2:30 PM - 3:45 PM Gallahue Hall 106

02:30 PM — Economics and Human Nature(s): Instrumentalism, Realism, or Something Else

Nathaniel Borek Butler University. Faculty Sponsors: Robert Main Butler University.

02:45 PM — Re-Evaluating the Microfoundations Approach to Macroeconomics

Sara Omohundro Butler University. Faculty Sponsors: Robert Main Butler University.

03:00 PM — Repercussions of the Eurozone on European Economies and Identities

Alyssa Kulhanek Anderson University. Faculty Sponsors: Jerrald Fox Anderson University.

Chemistry

Chemistry 1

Moderators: Adam Azman

9:45 AM - 10:45 AM Gallahue Hall 108

09:45 AM — A Methodology for Trifluoromethylation

Tanner Crandall *Butler University*. Faculty Sponsors: Dr. Anne Wilson *Butler University*.

10:00 AM — Progress towards the Development of a Novel Aza-Petasis-Ferrier Rearrangement

Kristen Springer *Huntington University*, James Handtke *Huntington University*. Faculty Sponsors: Timothy Troyer *Huntington University*.

10:15 AM — An Investigation of Whether Vitamin E Preferentially Interacts with Polyunsaturated Lipids

Andres Cavazos *Indiana University Purdue University Indianapolis*. Faculty Sponsors: Stephen Wassall *Indiana University Purdue University Indianapolis*.

10:30 AM — Synthesis of Latent Fluorophores for Enzymatic Characterization

Alex White *Butler University*. Faculty Sponsors: Geoffrey Hoops *Butler University*.

Chemistry 2

Moderators: LuAnne McNulty, Erin Whitteck

11:00 AM - 12:00 PM Gallahue Hall 108

11:00 AM — Effect of Altering Substitution of Alkenes on Dienyne Metathesis

Rachel Erkilli *Butler University*. Faculty Sponsors: LuAnne McNulty *Butler University*.

11:15 AM — Application of the B3LYP-DCP Method to Peptides

Melanie Shebel *Purdue University North Central*. Faculty Sponsors: Jessica Thomas *Purdue University North Central*, Heather Fielding *Purdue University North Central*.

11:30 AM — Functionalizing Fluorescent Proteins for the Detection of Explosive Materials in an Ultra-Sensitive Hydrogel-Based System

Ethan Hillman *Anderson University*. Faculty Sponsors: Chad Wallace *Anderson University*.

11:45 AM — Synthesis of a Reusable Form of Stryker's Reagent

Jacob Wade *Butler University*. Faculty Sponsors: Stacy O'Reilly *Butler University*.

Chemistry 3

Moderators: Michael Samide

1:15 PM - 2:30 PM Gallahue Hall 108

01:15 PM — Talk Dirty to Me: Teaching Undergraduate Students the Importance of Good Hygiene in the Teaching Laboratory

Luke Gallion *Butler University*. Faculty Sponsors: Anne Wilson *Butler University*, Michael Samide *Butler University*.

01:30 PM — Creating a Device to Detect Counterfeit Tagamet HB 200® Pills

Elijah Barstis *Saint Mary's College*, Tabitha Ricketts *Saint Mary's College*, Jenna Wilson *Saint Mary's College*. Faculty Sponsors: Toni Barstis *Saint Mary's College*, Ian Bentley *Saint Mary's College*.

01:45 PM — Creating and Validating a Paper Analytical Device (PAD) to Detect Counterfeit Metronidazole Tablets

Dara Marquez *Saint Mary's College*. Faculty Sponsors: Toni Barstis *Saint Mary's College*.

02:00 PM — Development of Paper Analytical Devices for the Detection of Substandard Azithromycin and Erythromycin

Emily Paige Aldrich *Saint Mary's College*. Faculty Sponsors: Toni Barstis *Saint Mary's College*.

02:15 PM — Using Magnetic Susceptibility to Analyze the Degradation of Smalt

Caleb Schmicker *Butler University*. Faculty Sponsors: Stacy O'Reilly *Butler University*.

Classical Studies

Moderators: Lynne Kvapil

1:15 PM - 2:15 PM Jordan Hall 236

01:15 PM — From Curse to Cure: The Bible, Oresteia, and Bioshock: Infinite

Cassandra Striegle *Ball State University*. Faculty Sponsors: Donald Gilman *Ball State University*.

01:30 PM — Recognition and Redemption: Samson, Agamemnon, and Odysseus

Lindsey Stamper *Ball State University*. Faculty Sponsors: Donald Gilman *Ball State University*.

01:45 PM — The Decline of Hephaistos

Logan Prather *Ball State University*. Faculty Sponsors: Christine Shea *Ball State University*.

02:00 PM — The Hippocratic Corpus: Examining the Dental World in Ancient Greece

Andrew Bartels *Butler University*. Faculty Sponsors: Lynne Kvapil *Butler University*.

Communication & Media Studies

Critical/Cultural Approaches to Media Studies

Moderators: Casey Kelly

9:30 AM - 10:45 AM Jordan Hall 207

09:30 AM — Documentary Abroad: Student Research on Set and Behind the Scenes

Zane Moulton *University of Tampa*, Lisa Aquilino *University of Tampa*. Faculty Sponsors: Andrew DeMil *University of Tampa*, Christopher Boulton *University of Tampa*.

09:45 AM — Hollywood's Hindering of Homosexuality for Heroes: Sexuality in Comic Books and Their Movies

Makenna Imholte *Butler University*. Faculty Sponsors: Kristin Swenson *Butler University*.

10:00 AM — "Where's the remote? Where's the f*cking remote control?" Hyperreality and the Denial of Universal Truth in Michael Haneke's Funny Games

Laura Wilhelm *Butler University*. Faculty Sponsors: Kristen Hoerl *Butler University*.

10:15 AM — Fathers in Television Sitcoms: Does Father Still Know Best?

Lauryn Congemi *Taylor University*. Faculty Sponsors: Jessica Rousselow *Taylor University*.

10:30 AM — The Use of the Apologia Theory to Mitigate Damage to a Celebrity's Image and Career

Taylor Washington *Howard University*. Faculty Sponsors: Chukwuka Onwumechili *Howard University*.

Sex and Gender in Communication Studies

Moderators: Casey Kelly

11:00 AM - 12:00 PM Jordan Hall 207

11:00 AM — A Fantasy Theme Analysis on Two Religious Non-Profit Organizations Dealing with Human Trafficking

Ashleigh Mulder *Taylor University*. Faculty Sponsors: Jessica Rousselow *Taylor University*.

11:15 AM — Finding Mr. Right: A Fantasy-Theme Analysis of Christian Dating Books for Women

Mylie Winger *Taylor University*. Faculty Sponsors: Jessica Rousselow *Taylor University*.

11:30 AM — Influence of Televised Media on Female Body Satisfaction

Kaitlyn Evener *Hanover College*. Faculty Sponsors: Valerie Young *Hanover College*.

11:45 AM — Like it, Tweet It, Share it: Social Media Satisfaction and Biological Sex

Michael Foist *Indiana University-Purdue University Columbus*, Jaclyn Vanosdol *Indiana University-Purdue University Columbus*. Faculty Sponsors: Anna Carmon *Indiana University-Purdue University Columbus*.

Communication in (and Across) Environments

Moderators: Casey Kelly

1:15 PM - 3:00 PM Jordan Hall 207

01:15 PM — An Equivocal Truth: An Analysis of Climate Change Communication in Respect to the Double-Ethical Bind

Taylor Brown *Butler University*. Faculty Sponsors: Carol Reeves *Butler University*.

01:30 PM — Evaluating Environmental NGOs in China: A Communication & Policy Perspective

Avantika Krishna *Trinity University*. Faculty Sponsors: William Mosley-Jensen *Trinity University*.

01:45 PM — Rising Popularity of Consumer Drones

John Hanlon *Grace College*. Faculty Sponsors: Paulette Sauders *Grace College*.

02:00 PM — Servant Leadership and the Organizational Church

Brittney Stephan *Butler University*. Faculty Sponsors: Jessica Moore *Butler University*.

Communication Sciences and Disorders

Moderators: Carolyn Richie

1:00 PM - 2:30 PM Jordan Hall 276

01:00 PM — Telepractice in the University Speech and Language Clinic Setting: A Student Clinician Perspective

Steven Gianakas *Butler University*. Faculty Sponsors: Ann Bilodeau *Butler University*.

01:15 PM — Perception and Knowledge of Concussion

Mark Brown *Butler University*. Faculty Sponsors: Ann Bilodeau *Butler University*.

01:30 PM — Conversational Scaffolding with Couples with an Aphasic Partner

Mary Jo Bissmeyer *Butler University*. Faculty Sponsors: Mary Gospel *Butler University*.

01:45 PM — The Effects of Aphasia on Social Life

Melanie Albaum *Butler University*. Faculty Sponsors: Mary Gospel *Butler University*, Carolyn Richie *Butler University*.

02:00 PM — The Current Status of Speech Therapy in China

Eshan Pua *Butler University*. Faculty Sponsors: Suzanne Reading *Butler University*.

Dance and Theatre

Moderators: Dr. Owen Schaub

10:00 AM - 11:00 AM Lilly Hall 133

10:00 AM — Genu Recurvatum in Dance Training: Assessing and Addressing the Structural Deformity in Dancers

Anne Mushrush *Butler University*. Faculty Sponsors: Michelle Jarvis *Butler University*.

10:15 AM — Existing on Earth and Stage: Exploring Human Relationships with Ecosystems Through "GAIA: An Eco-Theatre Project"

Julia Levine *Butler University*. Faculty Sponsors: Owen Schaub *Butler University*, William Fisher *Butler University*.

10:30 AM — An Investigation of Howard Gardner's Intrapersonal and Interpersonal Intelligence in Dance Educational Outreach Programs

Catherine Jue *Butler University*. Faculty Sponsors: Susan McGuire *Butler University*, Lorna Jordan *Butler University*.

10:45 AM — Theatre and Autism: Forming a Collaborative Service Learning Component for Butler University

Perry Hunt *Butler University*. Faculty Sponsors: Dr. Owen Schaub *Butler University*.

Education

Teaching Exceptional Students

Moderators: Susan Adams

9:30 AM - 10:45 AM Jordan Hall 336C

09:30 AM — Acculturative Stress in International Students: The Role of Institutional Factors

Samantha Tan *Indiana Wesleyan University*. Faculty Sponsors: Christopher Devers *Indiana Wesleyan University*.

09:45 AM — End of Course Assessment Testing for ENL Students

Jennifer DiVincenzo *Butler University*. Faculty Sponsors: Susan Adams *Butler University*.

10:00 AM — The Gifts of Indiana: Continuing a Legacy

Anastasia Luc *Butler University*, Katy English *Butler University*, Kimberly Van Wyk *Butler University*, Matthew O'Brien *Butler University*, Catrina Cranfill *Butler University*. Faculty Sponsors: Catherine Pangan *Butler University*.

10:30 AM — Perception of Toys: A Case Study of a 5th Grade Class

Molly Wolfe *University of Indianapolis*. Faculty Sponsors: Greta Pennell *University of Indianapolis*.

Education

Moderators: Susan Adams

11:00 AM - 12:00 PM Jordan Hall 336C

11:00 AM — Needing a Crystal Ball: Where Will Your Institution Be In 50 Years?

Natalia Concepción *Anderson University*. Faculty Sponsors: Michael Bruce *Anderson University*.

11:15 AM — Online Video Learning

Maz Aitchison *Indiana Wesleyan University*, Emily Ragsdale *Indiana Wesleyan University*, Laura Pennington *Indiana Wesleyan University*, Olivia Hayes *Indiana Wesleyan University*, Samantha Tan *Indiana Wesleyan University*, Nawaf Alquiey *Indiana Wesleyan University*, Alyssa Ngo *Indiana Wesleyan University*. Faculty Sponsors: Christopher Devers *Indiana Wesleyan University*, Erin Devers *Indiana Wesleyan University*, Tom Lehman *Indiana Wesleyan University*, Tim Steenbergh *Indiana Wesleyan University*.

11:30 AM — Preparedness for College: Expectations vs. Reality

Cynthia Tanzer *Earlham College*. Faculty Sponsors: Rajaram Krishnan *Earlham College*.

11:45 AM — Private Higher Education: How We Can Offer Quality in This Economy

Julia Marsh *Grace College*. Faculty Sponsors: Paulette Sauders *Grace College*.

English Literature & Creative Writing

English Literature & Creative Writing 1

Moderators: Rocky Colavito

9:30 AM - 10:30 AM Jordan Hall 301

09:30 AM — Baby Blue: Breaking Bad's Walter White as Melancholic Solipsist

Julie Linneman *Butler University*. Faculty Sponsors: Melissa Etzler *Butler University*.

09:45 AM — From Flannery O'Connor to Here Comes Honey Boo Boo: Consuming the Southern Grotesque

Laura Henning *Flagler College*. Faculty Sponsors: Jay Szczepanski *Flagler College*.

10:00 AM — On the Appropriation of Percy Bysshe Shelley's "Ozymandias" in AMC's Breaking Bad

Austin Gill *Xavier University*. Faculty Sponsors: Niamh O'Leary *Xavier University*.

10:15 AM — The Killing Joke: Why Batman Doesn't Kill the Joker

Joshua Arter *Ball State University*. Faculty Sponsors: Ashley Aiken *Ball State University*.

English Literature & Creative Writing 2

Moderators: Elizabeth Mix

9:30 AM - 10:30 AM Jordan Hall 303

English Literature & Creative Writing 3

Moderators: Rocky Colavito

10:45 AM - 12:00 PM Jordan Hall 301

10:45 AM — A Nightmare Dressed like a Daydream: On Stephen King's "Carrie" and the Terrifying Teenage Girl

Natalie Verhines *Butler University*. Faculty Sponsors: Rocky Colavito *Butler University*.

11:00 AM — AMC's The Walking Dead and the Anthropocene

Matthew Variot *Purdue University North Central*. Faculty Sponsors: Heather Fielding *Purdue University North Central*.

11:15 AM — AMC's The Walking Dead's Portrayal of Women

Tasia Williams *Purdue North Central*. Faculty Sponsors: Heather Fielding *Purdue North Central*.

11:30 AM — Coexisting: Spivak and Jameson in Arundhati Roy's The God of Small Things

Kelsey Tabbert *Purdue North Central*. Faculty Sponsors: Heather Fielding *Purdue North Central*.

English Literature & Creative Writing 4

Moderators: Eloise Sureau-Hale

10:45 AM - 12:00 PM Jordan Hall 303

10:45 AM — Divine Discontentment: C.S. Lewis and the Redemption of Myth

Sarah Leichty *Grace College*. Faculty Sponsors: Paulette Sauders *Grace College*.

11:00 AM — Star Wars: The Modern American Epic

Kyle George *Grace College*. Faculty Sponsors: Paulette Sauders *Grace College*.

11:15 AM — The Private and the Public: A New Perspective on Holmes and Moriarty

Alexis Ulrich *Purdue University North Central*. Faculty Sponsors: Heather Fielding *Purdue University North Central*.

11:30 AM — Whose Truth

Seth Hale *Purdue University North Central*. Faculty Sponsors: Jason Goldsmith *Purdue University North Central*.

English Literature & Creative Writing 5

Moderators: Rocky Colavito

1:00 PM - 2:30 PM Jordan Hall 301

01:00 PM — Encoding through Costuming: The Politics Underlying the Visuals in The Lives of Others

Nicholas Fox *Butler University*, Courtney Ramirez *Butler University*. Faculty Sponsors: Melissa Etzler *Butler University*.

01:15 PM — Entering the Artworld: The Authenticity of the Artworks of James Gatz, Evelyn Thompson, Theo Decker, and Briony Tallis

Emily Krabach *Manchester University*. Faculty Sponsors: Katharine Ings *Manchester University*.

01:30 PM — Surrounding Influences on the Development of Villainous Behavior: An Examination of Shakespeare's Villains

Katherine Knowles *Hanover College*. Faculty Sponsors: Jonathan Smith *Hanover College*.

01:45 PM — World of Warfare

Christopher Tulley *Grace College*. Faculty Sponsors: Palette Sauders *Grace College*.

02:00 PM — Mental Displacement within Kiran Desai's The Inheritance of Loss

Samantha Irzyk *Purdue North Central*. Faculty Sponsors: Heather Fielding *Purdue North Central*.

English Literature & Creative Writing 6

Moderators: Natalie Carter

1:00 PM - 2:30 PM Jordan Hall 303

01:00 PM — Mother, Truth-Teller, Emasculator, and Beast: The Feminist Voice in Salman Rushdie's Shame

Eileen Long *Purdue University North Central*. Faculty Sponsors: Heather Fielding *Purdue University North Central*.

01:15 PM — Rhobert: Jean Toomer's Apocalyptic Atlas

Lauren Weber *Flagler College*. Faculty Sponsors: Wesley King *Flagler College*.

01:30 PM — The Slave's Control over the Master

Ashley Pezan *Purdue University North Central*. Faculty Sponsors: Heather Fielding *Purdue University North Central*.

Gender, Women & Sexuality Studies

Gender, Women & Sexuality Studies Panel One

Moderators: Brooke Beloso

9:15 AM - 10:30 AM Lilly Hall 145

09:15 AM — 50 Shades of Fucked Up: On the Use and Abuse of a Sexual Subculture to Sell Books

Viviane Linos *Butler University*. Faculty Sponsors: Brooke Beloso *Butler University*.

09:30 AM — "Wherever you go, I'll go": Examining Female Bonding as Resistance in Ruth and The Narrows

Sheila Martin *George Mason University*. Faculty Sponsors: Keith Clark *George Mason University*, Tamara Harvey *George Mason University*.

09:45 AM — On Mending, Connection, and Reparative Reading in the Wi-Fi Age

Meg Duell *Indiana University Bloomington*. Faculty Sponsors: Rebekah Sheldon *Indiana University Bloomington*.

10:00 AM — Oversexualized and Undermined: A Look at Mass Media's Portrayal of Women

Tiffany Briesacher *Purdue North Central*. Faculty Sponsors: Heather Fielding *Purdue North Central*, Hui Chu *Purdue North Central*.

10:15 AM — Me and My Fat Pants: Diaries, Body Projects, and Recent Representations

Tracy Johnson *Indiana University Bloomington*. Faculty Sponsors: Rebekah Sheldon *Indiana University Bloomington*.

Gender, Women & Sexuality Studies Panel Two

Moderators: Brooke Beloso

10:45 AM - 12:00 PM Lilly Hall 145

10:45 AM — Creating Change in Argentina: Social Movements and their Contribution to Advancing Women's Rights

Rachel Shippee *Elon University*. Faculty Sponsors: Michael Matthews *Elon University*.

11:00 AM — When Gender Roles Take over The Mind: Differing Perceptions, Illnesses, and Help-Seeking Habits of Mental Illness in Gender

Chelsea Wheat *University of Evansville*. Faculty Sponsors: Annette Parks *University of Evansville*.

11:15 AM — Public Harassment and Perpetrators of Rape Culture

Sarah Pfeleiderer *University of Evansville*. Faculty Sponsors: Annette Parks *University of Evansville*.

11:30 AM — The Secret Society of the Business World: Throwing Self-Help Books at the Glass Ceiling

Ashley Linkhart *Indiana University Bloomington*. Faculty Sponsors: Rebekah Sheldon *Indiana University Bloomington*.

History

Histories of Freedom: Moving Between Theory and Praxis in the American Century

Moderators: Vivian Deno

9:45 AM - 10:45 AM Jordan Hall 242

09:45 AM — New Deal Historiography

Mitchell Rick *University of Evansville*. Faculty Sponsors: Annette Parks *University of Evansville*.

10:00 AM — The Historical Economics of Othering

Francis Allen *Butler University*. Faculty Sponsors: Brynnar Swenson *Butler University*.

10:15 AM — Realizing the Promise: A Comparison of Minority Efforts for Political Equality in Mississippi and San Francisco

Wilson Alexander *Taylor University*. Faculty Sponsors: Steve Messer *Taylor University*.

10:30 AM — Understanding the Motivations of Freedom Summer Freedom School Teachers

Courtney Selle *Taylor University*. Faculty Sponsors: Steve Messer *Taylor University*.

In the Shadow of War: Politics, Strategy and Legacies

Moderators: Zachary Scarlett

9:45 AM - 10:45 AM Jordan Hall 236

09:45 AM — The Hidden Architect: Dwight D. Eisenhower's Cold War Policies and the Vietnam War

Bryan Richter *Butler University*. Faculty Sponsors: Zachary Scarlett *Butler University*, Vivian Deno *Butler University*.

10:00 AM — An Unlikely Weapon: The Story of "Saigon Execution" and Its Impact on Eddie Adams

Caitlin Recard *Taylor University*. Faculty Sponsors: Dr. Steve Messer *Taylor University*.

10:15 AM — Resisting Democracy and Fighting Insurgencies in the 1980s: The United States Trains a Proxy Army in Central America

Kelly Rosete *Franklin College*. Faculty Sponsors: Richard Gawthrop *Franklin College*.

10:30 AM — Martyrdom in Military Tactics

Ian Villanueva *Ball State University*. Faculty Sponsors: David Devore *Ball State University*.

Disciplines of the Body: Corporeality and Its Histories

Moderators: Vivian Deno

11:00 AM - 12:00 PM Jordan Hall 242

11:00 AM — Holding on to Culture: The Effects of the 1837 Smallpox Epidemic on Mandan and Hidatsa

Jayne Reinhiller *Taylor University*. Faculty Sponsors: Steve Messer *Taylor University*.

11:15 AM — Script & Self

Mark Glenchur *Taylor University*. Faculty Sponsors: Alan Winqvist *Taylor University*.

11:30 AM — Surgery as a Science: The Intellectual and Practical Evolution of European Surgery from the 16th to the 18th Century

Molly Nebiolo *Butler University*. Faculty Sponsors: Scott Swanson *Butler University*.

11:45 AM — Dissimilar Texts: The Road to the Divine

Noah Patterson *Ball State University*. Faculty Sponsors: Donald Gilman *Ball State University*.

Homefronts and Cold Fronts: Reassessing the Meanings of War

Moderators: Vivian Deno

1:00 PM - 2:15 PM Jordan Hall 242

01:00 PM — America's Pastime: Baseball's Effect on Morale During World War II

Preston Phillips *Taylor University*. Faculty Sponsors: Steve Messer *Taylor University*.

01:15 PM — Elias Riggs Monfort - A Union Soldier

Molly Mersmann *Hanover College*. Faculty Sponsors: Matthew Vosmeier *Hanover College*.

01:30 PM — Germany and the First World War

Stuart Pyclik *University of Evansville*. Faculty Sponsors: Annette Parks *University of Evansville*.

01:45 PM — How British Motorcycles Redefined The American Motorcycle Industry In The 1950s

Stephen Ciravolo *Purdue University*. Faculty Sponsors: David Atkinson *Purdue University*.

02:00 PM — The Women of Venona: Female Soviet Spies during the Cold War

William Russell *Purdue University*. Faculty Sponsors: David Atkinson *Purdue University*.

International Studies

Moderators: Eloise Sureau-Hale

9:45 AM - 10:30 AM Jordan Hall 238

09:45 AM — Perceptions of Haitian Immigration and Labor in the Dominican Republic from the Early 1990s to Today

Katherine Shafer *Elon University*. Faculty Sponsors: Michael Matthews *Elon University*.

10:00 AM — Lost in Translation: Language Barriers and Misinterpretation in UN Peacekeeping Operations

Olivia Grace Wolfe *Butler University*. Faculty Sponsors: Antonio Menendez *Butler University*.

10:15 AM — Propaganda, Terrorism, and The Islamic State

Christina Thibodeau *Ball State University*. Faculty Sponsors: Frank Felsenstein *Ball State University*.

Mathematics and Computer Science

Mathematics and Computer Science 1

Moderators: Rebecca Wahl

9:45 AM - 10:45 AM Jordan Hall 205

09:45 AM — The Trapped Coal Miner: A Problem Analyzing Expected Time Values for Randomly Selected Paths

Alexander Olivero *Butler University*. Faculty Sponsors: Chris Wilson *Butler University*.

10:15 AM — Modern Algebra of The 15 Puzzle and Topspin

Elizabeth Senac *Franklin College*. Faculty Sponsors: Stacy Hoehn *Franklin College*.

10:30 AM — The Mathematics of Colorful Patterns in the Plane

Sarah Stoops *Butler University*. Faculty Sponsors: Prem Sharma *Butler University*.

Mathematics and Computer Science 2

Moderators: Rebecca Wahl

11:00 AM - 12:00 PM Jordan Hall 205

11:00 AM — Qualitative Computational Analysis of Paper Analytical Devices

Tabitha Ricketts *Saint Mary's College*, Jenna Wilson *Saint Mary's College*. Faculty Sponsors: Ian Bentley *Saint Mary's College*.

11:15 AM — Capturing Bad Design Practices in Object-Oriented Code

Chris Messersmith *Indiana University Kokomo*, Brandon McIntosh *Indiana University Kokomo*. Faculty Sponsors: Awny Alnusair *Indiana University Kokomo*.

11:30 AM — Computing Symbolic Dynamics for Polynomial Periodic Points

Sarah Stoops *Butler University*, Anna Durham *Butler University*, Paije Smith *Butler University*. Faculty Sponsors: Phil Mummert *Butler University*.

Modern Foreign Language

Hispanic Studies 1

Moderators: Terri Carney

9:30 AM - 10:45 AM Jordan Hall 348

09:30 AM — La Monja en la Literatura Española: How Spanish Film and Literature Reflects Nuns and the Catholic Church

Abigail Carpenter *Butler University*. Faculty Sponsors: Terri Carney *Butler University*.

09:45 AM — Lo que se aprende en el balneario: How Emilia Pardo Bazán taught feminine values in "El encaje roto"

Victoria Ison *Ball State University*. Faculty Sponsors: Stephen Hessel *Ball State University*.

10:00 AM — Nuestra Queer-Ida Tilde: La falta de Deseo, Nacionalidad e Identidad en "La Flor de España" por Cubas

Reid Bruner *Butler University*. Faculty Sponsors: Terri Carney *Butler University*.

10:15 AM — Comunicación dentro de Ataques de Nervios

Rachel Hahn *Butler University*. Faculty Sponsors: Terri Carney *Butler University*.

German 1

Moderators: Sarah Painitz

9:45 AM - 10:45 AM Jordan Hall 278

09:45 AM — Burning the Bestseller

B. Quinn McKenzie *Butler University*. Faculty Sponsors: Sarah Painitz *Butler University*.

10:00 AM — Die Dichotomy zwischen den verschiedenen Rezeptionen von Im Westen nichts Neues

Marissa Schoedel *Butler University*. Faculty Sponsors: Sarah Painitz *Butler University*.

10:15 AM — The Civilian War: The Affects of War on Civilians

Rebecca De Tar *Butler University*. Faculty Sponsors: Sarah Painitz *Butler University*.

10:30 AM — Composition Used as an Outlet to Criticize War

Julie O'Mara *Butler University*. Faculty Sponsors: Sarah Painitz *Butler University*.

German 2

Moderators: Sarah Painitz

11:00 AM - 12:00 PM Jordan Hall 278

11:00 AM — Propaganda of World War II: The Art of Persuasion

Michael Andrews *Butler University*. Faculty Sponsors: Sarah Painitz *Butler University*.

11:15 AM — Radio and Its Influence in World War II

Stephanie Pan *Butler University*. Faculty Sponsors: Sarah Painitz *Butler University*.

11:30 AM — Justifications for German Entry into the First World War within Literature

Eric Becker *Butler University*. Faculty Sponsors: Sarah Painitz *Butler University*.

11:45 AM — The Great War and the Geneva Protocol: The Practice and Prohibition of Chemical Warfare

Nicole Neuman *Butler University*. Faculty Sponsors: Sarah Painitz *Butler University*.

Hispanic Studies 2

Moderators: Gabriela Muniz

11:00 AM - 12:00 PM Jordan Hall 348

11:00 AM — El Camino de Piri hacia el Autodescubrimiento en "Estas Calles Bravas"

Danialle Hays *Franklin College*. Faculty Sponsors: Daniel Alsop *Franklin College*.

11:15 AM — La Violencia en América Latina y Su Influencia en la Novela Negra

Kristin Davis *Franklin College*. Faculty Sponsors: Jarrod Brown *Franklin College*.

11:30 AM — El Lenguaje Extraordinario de los Primeros Viajeros Renacentistas

Sarah Tietz *Butler University*. Faculty Sponsors: Gabriela Muniz *Butler University*.

11:45 AM — Live from New York, It's the Translation of Cultural Humor!

Megan Hosack *Butler University*. Faculty Sponsors: Wendy Meaden *Butler University*.

German 3

Moderators: Sarah Painitz

1:00 PM - 2:00 PM Jordan Hall 278

01:00 PM — Issues of Identity in Alsace-Lorraine during the Two Great Wars

Léa Levy *Butler University*. Faculty Sponsors: Sarah Painitz *Butler University*.

01:15 PM — Die Dolchstosslegende and the Breakdown of German Identity After WWI

Kayla Nienhaus *Butler University*. Faculty Sponsors: Sarah Painitz *Butler University*.

01:30 PM — Depictions in German Literature of the Role of Ideology in the German Identification Process during the World Wars

Olivia Grace Wolfe *Butler University*. Faculty Sponsors: Sarah Painitz *Butler University*.

01:45 PM — Workers and Housewives: The Changing Roles of Women in 20th Century Germany

Brianna Bean *Butler University*. Faculty Sponsors: Sarah Painitz *Butler University*.

Music

Music - 1

Moderators: Nicholas Johnson

9:00 AM - 10:00 AM Lilly Hall 120

09:00 AM — The Theory of Affections and its Contributions to the Birth of Italian Opera

Wesley Sexton *Butler University*. Faculty Sponsors: Nicholas Johnson *Butler University*.

09:15 AM — Cultural Exchange and the Insulation of Musical Traditions: The Ottoman Empire and Western Europe, 1600-1750

Jacob Bullock *Butler University*. Faculty Sponsors: Nicholas Johnson *Butler University*.

09:30 AM — Music in Society During the Napoleonic Era

Harriet Steinke *Butler University*. Faculty Sponsors: Nicholas Johnson *Butler University*.

Music - 2

Moderators: James Briscoe

9:00 AM - 10:00 AM Lilly Hall 124

09:00 AM — Racial Divisions in Jazz – How Jazz Split into Pretentious White People Music and Music That Apparently Everybody Thinks Is Too Confusing to Listen To

Phillip Tock *Butler University*. Faculty Sponsors: Casey Kelly *Butler University*.

09:15 AM — Beethoven's Symphony No. 4: An Overshadowed Glory

Kim Busic *Butler University*. Faculty Sponsors: James Briscoe *Butler University*.

09:30 AM — Beethoven's Fifth Symphony In The Modern World

Sara Erb *Butler University*. Faculty Sponsors: James Briscoe *Butler University*.

Music - 3

Moderators: Nicholas Johnson

10:00 AM - 11:00 AM Lilly Hall 120

10:00 AM — Italian Opera Lands in London: Handel Manipulates Audiences and Cahoots with the Monarchy

Kiersten Howell *Butler University*. Faculty Sponsors: Nicholas Johnson *Butler University*.

10:15 AM — Art Imitating Life: Wolfgang and Leopold Mozart's Relationship in Die Entführung aus dem Serail and Don Giovanni

Matthew Blandford *Butler University*. Faculty Sponsors: Nicholas Johnson *Butler University*.

10:30 AM — Mathematical Derivations in Rameau's Revolutionary Music Theory

Samantha Turley *Butler University*. Faculty Sponsors: Nicholas Johnson *Butler University*.

Music - 4

Moderators: James Briscoe

10:00 AM - 11:00 AM Lilly Hall 124

10:00 AM — The Resolution in the Fifth Symphony

Alexandro Cazares *Butler University*. Faculty Sponsors: James Briscoe *Butler University*.

10:15 AM — Beethoven's Seventh Symphony: The Bridge Between Two Periods

Elizabeth Glorioso *Butler University*. Faculty Sponsors: James Briscoe *Butler University*.

10:30 AM — Facing the Music: Beethoven's Reflection in the Finale of His Ninth Symphony

Nathan Smith *Butler University*. Faculty Sponsors: James Briscoe *Butler University*.

Music - 5

Moderators: Nicholas Johnson

11:00 AM - 12:00 PM Lilly Hall 120

11:00 AM — Women in Music: A Look at Femininity in Schubert's Die Schöne Müllerin

Nellie Shuford *Butler University*. Faculty Sponsors: Nicholas Johnson *Butler University*.

11:15 AM — A Musical Narrative of the World War II American Soldier: Composing "Somewhere in Europe" for Baritone and Chamber Ensemble

Harriet Steinke *Butler University*. Faculty Sponsors: Michael Schelle *Butler University*, Nicholas Johnson *Butler University*.

11:30 AM — Missed Connections: Experience in John Adams' "The Dharma at Big Sur"

Nathan Smith *Butler University*. Faculty Sponsors: Brian Hoffman *Butler University*.

Music - 6

Moderators: James Briscoe

11:00 AM - 12:00 PM Lilly Hall 124

11:00 AM — Counterpoint, Mode, and Drama: Finding Structure in Monteverdi's II Quinto Libro de Madrigali

Nathan Wright *Anderson University*. Faculty Sponsors: Christopher Holmes *Anderson University*, Jonathan Brooks *Anderson University*.

11:15 AM — The Church and the Male Castrato Voice

Shauna Kaske *Butler University*. Faculty Sponsors: James Briscoe *Butler University*.

11:30 AM — Urban Contemporary Music in Urban Secondary Education

Sean Meaden *Butler University*. Faculty Sponsors: Dr. Tim Brimmer *Butler University*.

Pharmacy, Health Sciences & Exercise Science

Pharmacy, Health Sciences & Exercise Science 1

Moderators: Priscilla Ryder

8:30 AM - 10:00 AM Gallahue Hall 106

08:30 AM — Breast Health Needs in Five Central Indiana Counties: A Qualitative Study

Hannah Meinen *Butler University*. Faculty Sponsors: Priscilla Ryder *Butler University*.

08:45 AM — The Influence of Diet on Reactive Hyperemia

Jamal Edwards *Hanover College*. Faculty Sponsors: Bryant Stamford *Hanover College*.

09:00 AM — Evaluating the Efficacy of Two Different Cell-Penetrating Peptides on Increasing Intra-Cellular Concentrations of Docetaxel in HeLa Cells

Ryan Dimmitt *Butler University*. Faculty Sponsors: Sudip Das *Butler University*.

09:15 AM — Promoting Public Health in Indiana's Community Pharmacies: What Screening Services are Currently Being Offered?

Emily Bonn *Butler University*. Faculty Sponsors: Priscilla Ryder *Butler University*.

09:30 AM — Impact of the Community Action Poverty Simulation (CAPS) or Online Simulation on Butler University Students' Attitudes toward People in Poverty

Bryan Chudnow *Butler University*, Sean Roberts *Butler University*. Faculty Sponsors: Carriann Smith *Butler University*.

09:45 AM — Implementation of an INR Monitoring and Education Program at The Alivio Medical Center

Jamie Ostrem *Butler University*, Linnea Corey *Butler University*. Faculty Sponsors: Chad Knoderer *Butler University*.

Pharmacy, Health Sciences & Exercise Science 2

Moderators: Laurence Kennedy

8:30 AM - 10:00 AM Pharmacy & Health Sciences 015

08:30 AM — Evaluation of Guideline Adherence and Treatment of Moderate to Severe Diabetic Foot Infections

Allison Harpring *Butler University*, Nicole Stadler *Butler University*, Rachael Craft *Butler University*, Abbey Jungclaus *Butler University*. Faculty Sponsors: Kendra Damer *Butler University*, Sharon Erdman *Butler University*.

08:45 AM — Association between Application Scores and Positive Onsite Interview of Pharmacy Residency Applications

Allison Boyd *Butler University*. Faculty Sponsors: Sarah Nisly *Butler University*.

09:00 AM — The Impact of a Targeted Classroom Intervention on Confidence and Knowledge Regarding Medication Use and Counseling during Lactation

Maegan Hency *Butler University*, Michelle Riley *Butler University*. Faculty Sponsors: Amy Lenell *Butler University*, Laurie Pylitt *Butler University*.

09:15 AM — Vaccine Education and Compliance Statistics in the Greater Indianapolis Area

Matthew Budi *Butler University*. Faculty Sponsors: Chad Knoderer *Butler University*, Veronica Vernon *Butler University*.

09:30 AM — The Effects of Controlled Overhydration during Prolonged Exercise in Heat

Drew Servais *Hanover College*. Faculty Sponsors: Bryant Stamford *Hanover College*.

09:45 AM — Increasing Medication Knowledge in Rural Populations of Southeastern Indiana

Julie Kluesener *Butler University*. Faculty Sponsors: Sarah Nisly *Butler University*.

Pharmacy, Health Sciences & Exercise Science 3

Moderators: Carrie Maffeo

8:30 AM - 10:00 AM Pharmacy & Health Sciences 103

08:30 AM — An Assessment of New Cardiovascular Disease Risk Guidelines and Appropriate Therapy in a Worksite Health Promotions Program

Stephanie Geiger *Butler University*. Faculty Sponsors: Carrie Maffeo *Butler University*, Isabel Hagedorn *Butler University*.

08:45 AM — Characterization of Outcomes of Prolonged or Continuous Beta-Lactam Antibiotic Infusions in Pediatric Patient Populations

Lauren Karmire *Butler University*. Faculty Sponsors: Kristen Nichols *Butler University*, Chad Knoderer *Butler University*.

09:00 AM — Incidence of VRE Colonization within a Bone Marrow Transplant/Hematology Unit

Rachel Scott *Butler University*, Stephanie Gartrell *Butler University*. Faculty Sponsors: Jill Leslie *Butler University*.

09:15 AM — Effect of Observer Gender and Appearance on Athletic Performance

Vince Peiffer *Hanover College*, Spencer Corrao *Hanover College*. Faculty Sponsors: Winke Molly *Hanover College*.

09:30 AM — Comparative Analysis of Health Outcomes Associated with Anti-Platelet Maintenance Therapy in Type 2 Diabetes Mellitus Patients Post Cardiac Stent Placement

Alexandra DeChristopher *Butler University*. Faculty Sponsors: Chad Knoderer *Butler University*.

09:45 AM — Effect of a Workplace Cancer Screening Initiative on Cancer Screening Rates and Employee Attitudes and Knowledge of Cancer Screening

Caitlin Murphy *Butler University*. Faculty Sponsors: Carrie Maffeo *Butler University*.

Pharmacy, Health Sciences & Exercise Science 4

Moderators: Lindsay Saum

8:30 AM - 10:00 AM Pharmacy & Health Sciences 156

08:30 AM — Comparative Analysis of Melatonin and Zolpidem Safety and Efficacy in an Adult Inpatient Population

Nicholas Bowles *Butler University*. Faculty Sponsors: Lindsay Saum *Butler University*.

08:45 AM — A Retrospective Cohort Study to Assess NMDA Receptor Antagonist and Acetylcholinesterase Inhibitor Effects on Alzheimer's Patient Outcomes

Brittany Spiller *Butler University*, Rachael House *Butler University*, John Prout *Butler University*, Anna Recker *Butler University*. Faculty Sponsors: Laura Ruekert *Butler University*.

09:00 AM — The Effect of Educational Programming on the Awareness and Knowledge of Prescription Drug Misuse for Parents and Teachers of Middle or High School Students

Bethany Knaus *Butler University*, Jeffrey George *Butler University*, Kevin Knaus *Butler University*, Matthew Miller *Butler University*. Faculty Sponsors: Tracy Sprunger *Butler University*.

09:15 AM — The Impact of Protective Taping on ROM and Power Output

Bianca Cotter *Hanover College*. Faculty Sponsors: Bryant Stamford *Hanover College*.

09:30 AM — Comparing the Impact of a Guideline-Based Pain and Agitation Protocol in Medical vs. Trauma and Neurologic Intensive Care Unit Patients

Miranda Arthur *Butler University*, Brian Skinner *Butler University*. Faculty Sponsors: Lindsay Saum *Butler University*.

09:45 AM — Order Effects of Concurrent Training on Mental Vitality and EPOC

Paige Woods *Hanover College*. Faculty Sponsors: Molly Winke *Hanover College*.

Pharmacy, Health Sciences & Exercise Science 5

Moderators: Sheel Patel

8:30 AM - 10:00 AM Pharmacy & Health Sciences 204

08:30 AM — The Effects of Warm-Up on Vertical Jump and Sprint Performance.

Taylor Miller *Hanover College*. Faculty Sponsors: Molly Winke *Hanover College*.

08:45 AM — Analysis of Empiric Antimicrobial Prescribing Patterns and the Introduction of Antimicrobial Stewardship Practices in a Student-Run Outreach Clinic

Stephen Small *Butler University*. Faculty Sponsors: Kendra Damer *Butler University*.

09:00 AM — The Impact of Rapid Diagnostic Testing on Antifungal Therapy for Candida Species Bloodstream Infections

Jenna Ksiazkiewicz *Butler University*. Faculty Sponsors: Kendra Damer *Butler University*.

09:15 AM — Financial Success Post-Graduation

Sarah Polley *Butler University*, Jordan Gipe *Butler University*, Carson Wells *Butler University*. Faculty Sponsors: Annette McFarland *Butler University*, Brad Goedeker *Butler University*.

09:30 AM — The Effects of Exercise on Insulin Sensitivity

Alex Freeman *Hanover College*. Faculty Sponsors: Bryant Stamford *Hanover College*.

09:45 AM — The Effects of Eating, Exercise, and Sleep in Pharmacy Students on Exam Performance in an Integrated Medicinal Chemistry and Pharmacology Course

Alexis Villarreal *Butler University*, Courtney Schulz *Butler University*. Faculty Sponsors: Stephanie Enz *Butler University*.

Pharmacy, Health Sciences & Exercise Science 6

Moderators: Carrie Jung

8:30 AM - 10:00 AM Pharmacy & Health Sciences 205

08:30 AM — Analysis of Aminocaproic Acid and Tranexamic Acid in Cardiac Surgery

Lisa LeCleir *Butler University*, Zach Tyrcha *Butler University*. Faculty Sponsors: Lanham Kena *Butler University*.

08:45 AM — Cost-Benefit Analysis of Use of Tamsulosin vs. Terazosin

Ryan Tewell *Butler University*, Nicholas Jackson *Butler University*. Faculty Sponsors: Chad Knoderer *Butler University*, Melanie Kuester *Butler University*.

09:00 AM — The Effects of Music upon Strength Performance

Adam Lane *Hanover College*. Faculty Sponsors: Molly Winke *Hanover College*.

09:15 AM — Evaluation of Appropriate Renal Dosing of Medications in a Medical Resident Training Facility

Lauren Karazsia *Butler University*. Faculty Sponsors: Jessica Wilhoite *Butler University*.

09:30 AM — Evaluation of Guideline Adherence and Treatment of Moderate to Severe Diabetic Foot Infections

Allison Harpring *Butler University*, Nicole Stadler *Butler University*, Rachael Craft *Butler University*, Abbey Jungclaus *Butler University*. Faculty Sponsors: Kendra Damer *Butler University*, Sharon Erdman *Butler University*.

09:45 AM — Comparing Rates of Readmission for Systolic Heart Failure Patients Based on Beta Blockers Received on Discharge

Amrao Chhokar *Butler University*, Joe Schwarz *Butler University*, Jon Poore *Butler University*. Faculty Sponsors: Alexander Ansara *Butler University*.

Pharmacy, Health Sciences & Exercise Science 7

Moderators: Jarrett Amsden

8:30 AM - 10:00 AM Pharmacy & Health Sciences 212

08:30 AM — Review of Aminoglycoside Trough Concentrations in Relationship with Nephrotoxicity

Hannah Uchino *Butler University*, Alisha Wickersham *Butler University*. Faculty Sponsors: Kristen Nichols *Butler University*, Chad Knoderer *Butler University*.

08:45 AM — Possible Placebo Effects Prophylactic Knee Braces Have on Various Styles of Functional Movement

Alina Skwarcan *Hanover College*. Faculty Sponsors: Molly Winke *Hanover College*.

09:00 AM — Survey of the Efficacy of Colchicine in the Treatment of Familial Mediterranean Fever

Reese Cosimi *Butler University*. Faculty Sponsors: Jarrett Amsden *Butler University*.

09:15 AM — Evaluation of the Safety and Efficacy of the New Oral Anticoagulants vs. Warfarin in Patients Getting an AV Node Ablation

Philip Halter *Butler University*, Nick DiMarco *Butler University*. Faculty Sponsors: Alexander Ansara *Butler University*.

09:30 AM — Assessment of Empathy Scores in a Pharmacy Professional Nutrition Support Elective Course

Megan Mayhew *Butler University*. Faculty Sponsors: Jane Gervasio *Butler University*, Alison O'Malley *Butler University*.

09:45 AM — Retrospective Comparative Cohort of Concomitant Piperacillin-Tazobactam and Vancomycin Use and Acute Kidney Injury

Cameron Horn *Butler University*, Ben Schlie *Butler University*, Kyle Mohler *Butler University*, Kassy Fernsler *Butler University*. Faculty Sponsors: Jarrett Amsden *Butler University*.

Pharmacy, Health Sciences & Exercise Science 8

Moderators: Lauren Czosnowski

9:00 AM - 10:00 AM Pharmacy & Health Sciences 150

09:00 AM — Evaluating Nursing Use of Patient Medication Education Cards on an Inpatient Medical/Surgical Unit

Hilary Teibel *Butler University*, Morgan Wesner *Butler University*. Faculty Sponsors: Lauren Czosnowski *Butler University*.

09:15 AM — Continuous Infusion Ketorolac for the Management of Post-Operative Pain Following Unilateral Total Knee Arthroplasty

Amy Schwinghammer *Butler University*, Dan Sage *Purdue University*, Alex Isaacs *Purdue University*. Faculty Sponsors: Sarah Nisly *Purdue University*.

09:30 AM — An Evaluation of the Appropriateness of Pharmacologic Therapy in the Treatment of PTSD: A Retrospective Medical Chart Review

Kelli McCubbins *Butler University*, Jill Morris *Butler University*. Faculty Sponsors: Laura Ruekert *Butler University*, Kelly Banker *Butler University*.

09:45 AM — PharmacistsRecoveryNetworkofIndiana.com

Kelsey Campbell *Butler University*. Faculty Sponsors: Bonnie Brown *Butler University*.

Pharmacy, Health Sciences & Exercise Science 9

Moderators: Laura Ruckert

10:15 AM - 11:45 AM Pharmacy & Health Sciences 150

10:15 AM — Postpartum Contraceptive Use and Breastfeeding: A Community Survey of Mothers

Audra Goldsberry *Butler University*, Kyra Boyer *Butler University*, Krista McHugh *Butler University*, Kylie Holland *Butler University*. Faculty Sponsors: Joseph Jordan *Butler University*.

10:30 AM — Adherence to Stroke Clinical Practice Guidelines for Acute Stroke Management at IU Methodist Hospital

Thomas Abner *Butler University*, Russell Showers *Butler University*, Ryan McLeland *Butler University*. Faculty Sponsors: Kevin Tuohy *Butler University*.

10:45 AM — A Retrospective Cohort Study to Assess NMDA Receptor Antagonist and Acetylcholinesterase Inhibitor Effects on Alzheimer's Patient Outcomes

Anna Recker *Butler University*, John Prout *Butler University*. Faculty Sponsors: Laura Ruckert *Butler University*.

11:00 AM — The Practical Application of Non-Sterile Compounding in an Advanced Pharmaceutics Laboratory Setting

Heather Anderson *Butler University*. Faculty Sponsors: Margaret Stratford *Butler University*.

11:15 AM — Affective Responses to Caffeine and Possible Placebo Effect during Treadmill Exercise

Mina Enk *Hanover College*. Faculty Sponsors: Molly Winke *Hanover College*.

11:30 AM — Justifying the Implementation of a Collaborative Drug Therapy Management (CDTM) Protocol in an Outpatient Psychiatric Clinic: A Retrospective Chart Review

Kevin Bozyski *Butler University*. Faculty Sponsors: Laura Ruckert *Butler University*.

Pharmacy, Health Sciences & Exercise Science 10

Moderators: Darin Ramsey

10:15 AM - 12:00 PM Gallahue Hall 106

10:15 AM — An Evaluation of Over-the-Counter Medication Abuse in High School Students: An Observational Study

Ashley Harmeyer *Butler University*, Emily Rennekamp *Butler University*, Rachel Moffett *Butler University*.
Faculty Sponsors: Darin Ramsey *Butler University*.

10:30 AM — A Risk Assessment Tool for Acute Kidney Injury in Children Receiving Vancomycin

Emily Drwiega *Butler University*. Faculty Sponsors: Chad Knoderer *Butler University*, Kristen Nichols *Butler University*.

10:45 AM — Risk Factors Associated with Excessive Anticoagulation in Inpatient Treatment with Warfarin

Justin Donat *Butler University*. Faculty Sponsors: Carrie Jung *Butler University*.

11:00 AM — Relationship of Core and Leg Muscle Development on Body Composition and Efficiency in Endurance Athletes

Dani O'Neill *Hanover College*. Faculty Sponsors: Molly Winke *Hanover College*.

11:15 AM — Assessment of Knowledge Regarding Medication Disposal in Various Patient Populations

Erin Ellsworth *Butler University*, Elizabeth Eveleigh *Butler University*, Brittany Lewis *Butler University*. Faculty Sponsors: Angela Ockerman *Butler University*.

11:30 AM — An Evaluation of Teaching Certificate Program Websites and Concurrent Modification of the Indiana Pharmacy Resident Teaching Certificate Program (IPTeC) Website

Nicholas Branson *Butler University*. Faculty Sponsors: Darin Ramsey *Butler University*, Tracy Sprunger *Butler University*.

Pharmacy, Health Sciences & Exercise Science 11

Moderators: Sarah Nisly

10:15 AM - 12:00 PM Pharmacy & Health Sciences 015

10:15 AM — Evaluating the Non-Evidence Based Practice of Rounding Serum Creatinine in the Elderly and the Impact on Medication Dosing

Kelly Roden *Butler University*. Faculty Sponsors: Cathy Ramey *Butler University*.

10:30 AM — Medication Adherence of Patients with Asthma and Chronic Obstructive Pulmonary Disease (COPD) at Butler University, A Self Insured Employer

Jon Collar *Butler University*, Gintas Kuseliauskas *Butler University*. Faculty Sponsors: Jason Range *Butler University*, Carrie Maffeo *Butler University*.

10:45 AM — A Retrospective Analysis of Methotrexate Elimination when Co-administered with Levetiracetam

Hyeon Jin Kim *Butler University*, Suzanne Finn *Butler University*, Amanda Shake *Butler University*, Sarah DiDominick *Butler University*. Faculty Sponsors: David Reeves *Butler University*.

11:00 AM — The Relationship between Cross Education and Reactive Hyperemia

Caitlin Bischoff *Hanover College*. Faculty Sponsors: Bryant Stamford *Hanover College*.

11:15 AM — Warfarin vs. Rivaroxaban in Long Term Acute Care Patients with Nonvalvular Atrial Fibrillation: A Budget Impact Analysis

Brian Bell *Butler University*, Kyle Frantz *Butler University*, Brayton Jones *Butler University*. Faculty Sponsors: Deborah Zeitlin *Butler University*.

11:30 AM — Evaluating the Effectiveness of Medical Spanish Training Course for Pharmacy Staff within a Safety-Net Health System

Matthew Hansen *Butler University*. Faculty Sponsors: Carolyn Jung *Butler University*.

11:45 AM — Impact of the Community Action Poverty Simulation (CAPS) or Online Simulation on Butler University Students' Attitudes toward People in Poverty

Kathryn Frowein *Butler University*, Max Berestovetsky *Butler University*, Chudnow Bryan *Butler University*, Roberts Sean *Butler University*. Faculty Sponsors: Carriann Smith *Butler University*.

Pharmacy, Health Sciences & Exercise Science 12

Moderators: Jessica Triboletti

10:15 AM - 12:00 PM Pharmacy & Health Sciences 103

10:15 AM — Music First: An Interprofessional Study of the Effect of Music as a Nonpharmacological Alternative to Medications for Behavioral and Psychological Symptoms of Dementia

Ryan Medas *Butler University*, Ryan Kinnavy *Butler University*. Faculty Sponsors: Dane Shiltz *Butler University*.

10:30 AM — Effects of Lower Extremity Pre-Cooling and Pre-Heating on Submaximal Exercise Performance

Elizabeth Merrick *Hanover College*. Faculty Sponsors: Dr. Bryant A. Stamford *Hanover College*.

10:45 AM — Retrospective Review and Analysis of Stress Ulcer Prophylaxis at Methodist Hospital of Indiana 2014

Dan Kendzierski *Butler University*, Brian Bates *Butler University*. Faculty Sponsors: Kevin Tuohy *Butler University*.

11:00 AM — Evaluation of Efficacy of IV Acetaminophen when Used Perioperatively: A Retrospective, Case-Control Analysis Study

Abraham Peed *Butler University*, Derek Owensby *Butler University*, Joseph Bitner *Butler University*. Faculty Sponsors: Jane Gervasio *Butler University*.

11:15 AM — Efficacy of Vibration Training on Reactive Hyperemia

Matthew Weber *Hanover College*. Faculty Sponsors: Bryant Stamford *Hanover College*.

11:30 AM — Adherence to Anti-Infective Prescribing Recommendations in Institutional Febrile Neutropenia Guidelines

Alex Morris *Butler University*. Faculty Sponsors: Kristen Nichols *Butler University*, Chad Knoderer *Butler University*.

11:45 AM — Medication Adherence in Patients with Depression/Anxiety in a Self-Insured Employer

Gintas Kuseliauskas *Butler University*, Jon Collar *Butler University*. Faculty Sponsors: Jason Range *Butler University*, Carrie Maffeo *Butler University*.

Pharmacy, Health Sciences & Exercise Science 13

Moderators: Carrie Jung

10:15 AM - 12:00 PM Pharmacy & Health Sciences 156

10:15 AM — Improving Engagement in Student Professional Leadership through Amplified Awareness and Innovative Initiatives

Rachel Barenie *Butler University*. Faculty Sponsors: Meghan Bodenber *Butler University*.

10:30 AM — Pharmacy Students' Ability to Develop Patient Education Handouts on Self-Care Related Topics

Austin Wilson *Butler University*, Kristina Carlson *Butler University*. Faculty Sponsors: Sheel Patel *Butler University*.

10:45 AM — Retrospective Comparative Cohort of Concomitant Piperacillin-Tazobactam and Vancomycin Use and Acute Kidney Injury

Cameron Horn *Butler University*, Ben Schlie *Butler University*, Kyle Mohler *Butler University*, Kassy Fernsler *Butler University*. Faculty Sponsors: Jarrett Amsden *Butler University*.

11:00 AM — The Effect of Educational Programming on the Awareness and Knowledge of Prescription Drug Misuse for Parents and Teachers of Middle or High School Students

Kevin Knaus *Butler University*, Matthew Miller *Butler University*, Jeffrey George *Butler University*, Bethany Knaus *Butler University*. Faculty Sponsors: Tracy Sprunger *Butler University*.

11:15 AM — Assessing Student Responses to Gauge Pharmacy Students' Empathy towards Different Patient Populations

Nadine Hawa *Butler University*, Morgan Lively *Butler University*. Faculty Sponsors: Dr. Sheel Patel, BCPS *Butler University*.

11:30 AM — Evaluation of Posaconazole Use Within the IU Health System

Eric Harmon *Butler University*. Faculty Sponsors: Joseph Jordan *Butler University*.

Pharmacy, Health Sciences & Exercise Science 14

Moderators: Erin Albert

10:15 AM - 12:00 PM Pharmacy & Health Sciences 204

10:15 AM — Promotion of "S.T.E.M." Education through the Publication of an Indiana Bicentennial Commission-Endorsed Children's Book

Eileen Carroll *Butler University*. Faculty Sponsors: Erin Albert *Butler University*.

10:30 AM — Impact of Various Caffeine Vehicles over Five Hours

Ryan Paulus *Ohio Northern University*, Alex Roth *Ohio Northern University*. Faculty Sponsors: Vicki Motz *Ohio Northern University*.

10:45 AM — Postpartum Contraceptive Use and Breastfeeding: A Community Survey of Mothers

Kylie Holland *Butler University*, Krista McHugh *Butler University*, Audra Goldsberry *Butler University*, Kyra Boyer *Butler University*. Faculty Sponsors: Joseph Jordan *Butler University*.

11:00 AM — Max Greene and the Vaccine Team: An Interdisciplinary Children's Book on the Importance of Vaccines

Emily Ellsworth *Butler University*, Terri Newman *Butler University*. Faculty Sponsors: Erin Albert *Butler University*, Emily Papineau *Butler University*.

11:15 AM — The Effects of Compression on Recovery from Delayed Onset Muscle Soreness

Rachael Harless *Hanover College*. Faculty Sponsors: Molly Winke *Hanover College*.

11:30 AM — Late Occurring Vancomycin-Associated Acute Kidney Injury in Children Receiving Prolonged Therapy

Allison Gritzman *Butler University*. Faculty Sponsors: Chad Knoderer *Butler University*, Kristen Nichols *Butler University*.

11:45 AM — Comparison of Safety and Efficacy of Intraoperative Topical Application of Tranexamic Acid vs. Intravenous Administration in Total Hip Arthroplasty: A Retrospective Chart Review

Kaitlyn Robinson *Butler University*, Karleen Ritchie *Butler University*. Faculty Sponsors: Chad Knoderer *Butler University*.

Pharmacy, Health Sciences & Exercise Science 15

Moderators: Kristen Nichols

10:15 AM - 12:00 PM Pharmacy & Health Sciences 205

10:15 AM — Characterization of the Clinical Outcomes with Cefepime in a Neonatal Intensive Care Unit: A Retrospective Cohort Study

Meghan Toth *Butler University*. Faculty Sponsors: Chad Knoderer *Butler University*, Kristen Nichols *Butler University*, Katie Malloy *Butler University*.

10:30 AM — Economic and Clinical Impact of Ambulatory Care Pharmacists

Heather Pressel *Butler University*, Sarah Ferry *Butler University*, Tracy Wiesbrook *Butler University*. Faculty Sponsors: Emily Papineau *Butler University*.

11:00 AM — Is the Vertical Jump Test a Valid Test of Power Output?

Maddie Burger *Hanover College*. Faculty Sponsors: Bryant Stamford *Hanover College*.

11:15 AM — A Retrospective Analysis of Methotrexate Elimination when Co-administered with Levetiracetam

Hyeon Jin Kim *Butler University*, Suzanne Finn *Butler University*, Amanda Shake *Butler University*, Sarah DiDominick *Butler University*. Faculty Sponsors: David Reeves *Butler University*.

11:30 AM — Impact of Pharmacologic Weight Loss Medications in a Patient-Centered Medical Home

Kim Kraska *Butler University*, Taryn Kellams *Butler University*. Faculty Sponsors: Tracy Costello *Butler University*.

Pharmacy, Health Sciences & Exercise Science 16

Moderators: Lindsay Saum

10:15 AM - 12:00 PM Pharmacy & Health Sciences 212

10:15 AM — Compliance to New Vancomycin Standard Dosing Nomogram and Incidence of Adverse Reactions

Susie Aurora *Butler University*. Faculty Sponsors: Lindsay Saum *Butler University*.

10:30 AM — Efficacy of the Humac Maximal Exertion Power Output Test

Trafton Holder *Hanover College*. Faculty Sponsors: Bryant Stamford *Hanover College*.

10:45 AM — Assessing the Extent of Women's Health Knowledge: A Survey of Professional Phase Pharmacy Students Regarding Comfort and Attitudes Pertaining to Women's Health

Brigette Allen *Butler University*, Kelsey Delsignore *Butler University*, Lindsey Helm *Butler University*. Faculty Sponsors: Jeanne VanTyle *Butler University*, Veronica Vernon *Butler University*.

11:00 AM — Utilization of Microsoft Excel for Inventory Management and Process at Underserved Clinics

Mitchell Streck *Butler University*, Stevan Tomich *Butler University*, Jeanne VanTyle *Butler University*. Faculty Sponsors: Jeanne VanTyle *Butler University*.

11:15 AM — Evaluation of Knowledge of Over-the-Counter Medications in Butler University Students

Puja Patel *Butler University*, Tabitha Arnold *Butler University*, Rachel Mowery *Butler University*. Faculty Sponsors: Tracy Costello *Butler University*.

11:30 AM — Analysis of Surfactant Use in the Treatment of Respiratory Distress Syndrome (RDS) in a Neonatal Intensive Care Unit

Rick Piatek *Butler University*. Faculty Sponsors: Dennis Gardner *Butler University*.

Philosophy and Religion

Moderators: Tiberiu Popa

9:30 AM - 11:45 AM Jordan Hall 340

09:30 AM — The Importance of Oral Tradition and Pentateuchal Authorship

Jensey Womack *Butler University*. Faculty Sponsors: James McGrath *Butler University*.

09:45 AM — Reconciling LGBTQ and Jewish Identity in Indiana

Gregory Zemtsov *Butler University*. Faculty Sponsors: James McGrath *Butler University*.

10:00 AM — The State of Interfaith in INDY

Klara Zierk *Butler University*. Faculty Sponsors: Chad Bauman *Butler University*.

10:15 AM — Theologies of Cancer: Spiritual Healing on the Patient's Own Terms

Gregory Zemtsov *Butler University*. Faculty Sponsors: Brent A.R. Hege *Butler University*.

10:30 AM — The Ethical Use of Stem Cells

Paul Henderson *Butler University*. Faculty Sponsors: Brent Hege *Butler University*.

Physics & Astronomy

Physics & Astronomy 1

Moderators: Xianming Han

1:00 PM - 2:00 PM Gallahue Hall 101

01:00 PM — A Detailed Study of the Variable Stars in Five Galactic Clusters: IC4499, NGC4833, NGC6171 (M107), NGC6402 (M14), and NGC6584

Michael Pajkos *Butler University*, Hunter Stephenson *Butler University*, Andrew Darragh *Butler University*, Brian Murphy *Butler University*. Faculty Sponsors: Brian Murphy *Butler University*.

01:15 PM — Analysis and Fourier Decomposition of RR Lyrae Variables in the Globular Cluster IC4499

Hunter Stephenson *Butler University*, Andrew Darragh *Butler University*, Brian Murphy *Butler University*, Adam Hibshman *Butler University*, John Vondersaar *Butler University*. Faculty Sponsors: Brian Murphy *Butler University*.

01:30 PM — Studies of Millisecond Pulsars in the Very High-Energy Regime

Tyler Williamson *Anderson University*. Faculty Sponsors: John Millis *Anderson University*.

01:45 PM — Linear Eddy Current Brake

Jimmy Miller *Rose-Hulman Institute of Technology*. Faculty Sponsors: Maarij Syed *Rose-Hulman Institute of Technology*.

Physics & Astronomy 2

Moderators: Gonzalo Ordonez

2:15 PM - 3:30 PM Gallahue Hall 101

02:15 PM — Experimental Results of Carbon Nanotube Fabrication via CVD with Iron Catalyst and Acetylene Precursor

Kevin Cao *Rose-Hulman Institute of Technology*. Faculty Sponsors: Scott Kirkpatrick *Rose-Hulman Institute of Technology*.

02:45 PM — Modeling of Thermal Fields Due to RF Heating around Spherical Nanoparticles and Nanoclusters in Deionized Water

Alla Letfullin *Rose-Hulman Institute of Technology*, Renat Letfullin *Rose-Hulman Institute of Technology*. Faculty Sponsors: Renat Letfullin *Rose-Hulman Institute of Technology*.

03:00 PM — Performance Durability of Popular Finishes for 4140 Steel in Industrial Applications

Daniel Stock *Eastern Illinois University*. Faculty Sponsors: Isaac Slaven *Eastern Illinois University*.

Political Science

Local, State, and International Politics

Moderators: Robin Turner

1:00 PM - 2:30 PM Jordan Hall 205

01:00 PM — The Obama Effect: Explaining Obama's 2008 Success in Indiana

Ryan Baker *Franklin College*. Faculty Sponsors: Randall Smith *Franklin College*.

01:15 PM — State and Local Leadership Capacity: Using Content Analysis to Examine the Nexus between Spirituality and Public Sector Administrative Leadership Development

Max Price *Taylor University*, Tyler Amann *Taylor University*, Derek Sanson *Taylor University*, Chin Ai Oh *Taylor University*, Charlie Richert *Taylor University*. Faculty Sponsors: Stephen King *Taylor University*.

01:30 PM — The Islamic State and Non-Governmental Response: An Analysis

Claire Husting *Marian University*. Faculty Sponsors: Pierre Atlas *Marian University*.

01:45 PM — The Coming Thing: Fusion Energy as an American Reality

Grey Harris *Ball State University*. Faculty Sponsors: Donald Gilman *Ball State University*.

Psychology

Cognitive Psychology 1

Moderators: Andrew Butler

8:30 AM - 10:00 AM Gallahue Hall 348

08:30 AM — Does Musical Experience Modulate Learning Using Motor and Multisensory Information?

Kathleen Cahill *Butler University*, Paul Milius *Butler University*, Emmanuelle Manfredi *Butler University*.
Faculty Sponsors: Andrew Butler *Butler University*.

08:45 AM — Let's Talk About Sex: Sexual Health and Communication in Romantic Partners Based on Attachment Style

Elizabeth Davis *Butler University*. Faculty Sponsors: Andrew Butler *Butler University*.

09:00 AM — Relationship of ADHD Symptomology to the Usage of Multisensory and Active Associative Information

Emmanuelle Manfredi *Butler University*, Kathleen Cahill *Butler University*. Faculty Sponsors: Andrew Butler *Butler University*.

09:15 AM — Technology and Awareness: Does Haptic Interaction with Technology Interfere with Attention to Surroundings?

Katrina Kennel *Goshen College*, Prashansa Dickson *Goshen College*, Sam Foxvog *Goshen College*, Moses Kaelo *Goshen College*. Faculty Sponsors: Julie Reese *Goshen College*.

09:30 AM — Sexual Media and Its Impact on Sexual Violence and Desensitization

Taylor Martin *Huntington University*. Faculty Sponsors: Emily Horne *Huntington University*.

Developmental and Educational Psychology 1

Moderators: Robert Padgett

8:30 AM - 10:00 AM Gallahue Hall 101

08:30 AM — An Investigation of Test-Wiseness

Katie Kincaid *Butler University*. Faculty Sponsors: Robert Padgett *Butler University*.

08:45 AM — It's A Sell Job: Reducing Applicant Faking on Personality Tests

Noelle Rich *Butler University*. Faculty Sponsors: Robert Padgett *Butler University*.

09:00 AM — A “Pal” Increases Student Engagement and School Belonging

Courtney Armacost *Purdue University North Central*. Faculty Sponsors: Hui Chu *Purdue University North Central*.

09:15 AM — Adult Attachment Styles as Predictors of Sexual Attitudes

Erika Slifer *Hanover College*. Faculty Sponsors: Ellen Altermatt *Hanover College*.

09:30 AM — Divorce Effects

Jennifer Steele *Huntington University*. Faculty Sponsors: Emile Horne *Huntington University*.

09:45 AM — Mobile Technology: Its Effect on Communication and Interpersonal Interaction

Lucas Lengacher *Huntington University*. Faculty Sponsors: Emily Horne *Huntington University*.

Psychology of Health, Religion, & Gender 1

Moderators: R. Brian Giesler

8:30 AM - 10:00 AM Gallahue Hall 102

08:30 AM — A New Variety of Positive Affect: Episodic Salutary Experiences

Natalie Nusinow *Butler University*, Paige Poure *Butler University*. Faculty Sponsors: Brian Giesler *Butler University*.

08:45 AM — Are the Religious Better at Resisting Temptation?

Kristen Haeberlein *Butler University*, Tim Burks *Butler University*, Taryn Ahmed *Butler University*, Kelly Valladares *Butler University*. Faculty Sponsors: Brian Giesler *Butler University*.

09:00 AM — How is Religiosity Related to Health?

Joshua Braun *Butler University*, Frances Kay *Butler University*, Jessica Chaparro *Butler University*. Faculty Sponsors: Brian Giesler *Butler University*.

09:15 AM — Just Do It! The Benefits of Spontaneous Goal Adoption

Timothy Burks *Butler University*, Taryn Ahmed *Butler University*. Faculty Sponsors: Raymond Giesler *Butler University*.

09:30 AM — Non-Conscious Priming and Snack Choice: A Replication

Rachel Soberman *Butler University*, Paige Freund *Butler University*. Faculty Sponsors: Raymond Giesler *Butler University*.

09:45 AM — The Effects of Ego-depletion on Prosocial Behavior After God-Concept Priming

Gabrielle Tatara *Butler University*. Faculty Sponsors: Kathryn Morris *Butler University*.

Cognitive Psychology 2

Moderators: Andrew Butler

10:15 AM - 12:00 PM Gallahue Hall 348

10:15 AM — Virginitly and Guilt Differences between Men and Women

Caitlin Lipman *Hanover College*, Alexis Moore *Hanover College*. Faculty Sponsors: John Krantz *Hanover College*.

10:30 AM — The Fragility of Memory in Eyewitness Testimonies

Kelsey Jones *Hanover College*. Faculty Sponsors: John Krantz *Hanover College*.

10:45 AM — Parental Memory: Their Child Coming Out vs. Physical Injury

Anna Sutter *Butler University*, Allison White *Butler University*. Faculty Sponsors: J.N. Bohannon *Butler University*.

11:00 AM — The Effects of Tylenol on Non-Social Emotional Memory

Renato Puga *Butler University*. Faculty Sponsors: John Bohannon *Butler University*.

11:15 AM — Your Memory under Stress

Alexandra Robinson-Norris *Butler University*, Katie Kincaid *Butler University*, Anna Sutter *Butler University*, John Bohannon *Butler University*. Faculty Sponsors: John Bohannon *Butler University*.

11:30 AM — Basic Speech Perception Deficits During Microgravity Simulation and Controlled Sleep Loss

Colleen Frank *Butler University*, Dennis Molfese *Butler University*. Faculty Sponsors: Tara Lineweaver *Butler University*.

11:45 AM — Hurt So Good: Are Body Focused Repetitive Behaviors (BFRBs) a Disorder of Impulsivity or Anxiety?

Abigail Dye *Butler University*, Madison Horth *Butler University*. Faculty Sponsors: Tara Lineweaver *Butler University*.

Developmental and Educational Psychology 2

Moderators: Robert Padgett

10:15 AM - 12:00 PM Gallahue Hall 101

10:15 AM — Socio-Economic Status & Coping Self-Efficacy: Assessing the Perceived Impacts of Motherhood among College Students

Tanja Berger *Bellarmine University*. Faculty Sponsors: Dr. Matisa Wilbon *Bellarmine University*.

10:30 AM — The Effects of Team Building Activities and Group Discussion on Stress Level

Gary Neff *Huntington University*, Shana Christian *Huntington University*, William Palmer *Huntington University*. Faculty Sponsors: Emily Horne *Huntington University*.

10:45 AM — The Impact of Mentorship

Heather Millington *Huntington University*. Faculty Sponsors: Emily Horne *Huntington University*.

11:00 AM — The Relationship between Homeschooling and College Adjustment

Michael Terwillegar *Anderson University*. Faculty Sponsors: Laura Stull *Anderson University*.

Psychology of Health, Religion, & Gender 2

Moderators: R. Brian Giesler

10:15 AM - 12:00 PM Gallahue Hall 102

10:15 AM — Effects of Religiosity on Gender Roles and Stereotypes

Madison Johnson *Huntington University*, Megan Reynolds *Huntington University*, Maris Headrick *Huntington University*. Faculty Sponsors: Emily Horne *Huntington University*.

10:30 AM — Religiosity and Its Effects on Risky Behavior

Ashley Conrad *Huntington University*. Faculty Sponsors: Emily Horne *Huntington University*.

10:45 AM — The Effect of Meditation and Prayer on Pain Tolerance

Rebecca Carss *Hanover College*, Jaclyn Kabazie *Hanover College*. Faculty Sponsors: Kati Tuttle *Hanover College*.

11:00 AM — Comic Books and Sexualization

Emily Thornton *Huntington University*. Faculty Sponsors: Emily Horne *Huntington University*.

11:15 AM — Mass Media and It's Affect on Self-Esteem

Tyana Hunt *Huntington University*, Darion Caldwell *Huntington University*. Faculty Sponsors: Emily Horne *Huntington University*.

11:30 AM — Unity apart from Society: A Study on the Correlation between Religiosity, Religious Camaraderie, and Social Dominance Orientation

Isaiah Gerber *Huntington University*. Faculty Sponsors: Emily Horne *Huntington University*.

11:45 AM — Commercials Proudly Using Sex Appeal

Will Sweet *Hanover College*. Faculty Sponsors: Bill Altermatt *Hanover College*.

Aging & Cognition

Moderators: Tara Lineweaver

1:00 PM - 2:30 PM Pharmacy & Health Sciences 150

01:00 PM — A Talk Down Memory Lane: Older Adults' and Younger Adults' Ability to Distinguish their Language and Memory Abilities

Nicole Lyons *Butler University*, Hayley Van Duyn *Butler University*. Faculty Sponsors: Tara Lineweaver *Butler University*.

01:15 PM — That Old Time Rock 'N' Roll: Utilizing a Music Intervention to Improve the Affect, Behavior, and Cognition of Dementia Patients

Jacqueline Juett *Butler University*, Laura Beer *Butler University*, Alessandra Rabellino *Butler University*. Faculty Sponsors: Tara Lineweaver *Butler University*, Tim Brimmer *Butler University*.

01:30 PM — Jazz, Gospel, or Rock 'n' Roll? Patient-Selected Music for Treating Symptoms of Dementia

Laura Beer *Butler University*, Jacqueline Juett *Butler University*. Faculty Sponsors: Tara Lineweaver *Butler University*, Tim Brimmer *Butler University*.

01:45 PM — Spirituality and Mood: A Study of Midwestern Nursing Home Residents

Kelsey Cushing *Indiana Wesleyan University*, Shelby Haisley *Indiana Wesleyan University*, Karyn Ribbens *Indiana Wesleyan University*. Faculty Sponsors: Katti Sneed *Indiana Wesleyan University*.

02:00 PM — Effect of ApoE E4 variant on progression from Mild Cognitive Impairment to Alzheimer's Disease

Brad Taylor *Hanover College*. Faculty Sponsors: John Krantz *Hanover College*.

02:15 PM — Examining the Difference in Relaxation Effects of Music and White Noise

Tadd Maddalozzo *Saint Joseph's College*. Faculty Sponsors: Mark Seely *Saint Joseph's College*.

Clinical & Personality Psychology 1

Moderators: Joel Martin

1:00 PM - 2:30 PM Pharmacy & Health Sciences 156

01:00 PM — Do You See What I See?: Exploring the Relationship Between OCD Symptomatology and Theory of Mind Ability

Karsen McCloud *Butler University*. Faculty Sponsors: Joel Martin *Butler University*.

01:15 PM — Adaptive Perfectionists: What Makes Them Tick?

Jordan Martell *Hanover College*. Faculty Sponsors: Stephen Dine Young *Hanover College*.

01:30 PM — An Examination of Implicit Theories of Trauma and Mental Health Outcomes

Rachel Walcott *Hanover College*. Faculty Sponsors: Ellen Altermatt *Hanover College*.

01:45 PM — The Lesser of Two Evils: Mental Illness or Physical Illness

Kate Dooley *Hanover College*, Bre Nevils *Hanover College*. Faculty Sponsors: Bill Altermatt *Hanover College*.

02:00 PM — Perceived Stigma's Effect on Help Seeking Behavior on the College Campus

Chelsea Burge *Anderson University*. Faculty Sponsors: Laura Stull *Anderson University*.

02:15 PM — Past Traumatic Experiences and Current College Adjustment

Katelin Wagoner *Anderson University*. Faculty Sponsors: Laura Stull *Anderson University*.

Cognitive, Sexuality & Comparative Psychology 1

Moderators: Mandy Gingerich

1:00 PM - 2:30 PM Pharmacy & Health Sciences 202

01:00 PM — The Efficacy of the Testing Effect With Stimuli Presented in Three Modalities

Lindsay Timmons *Butler University*, Callen Jones *Butler University*. Faculty Sponsors: Mandy Gingerich *Butler University*.

01:15 PM — The Outer Limits of Cognitive Processing: A Closer Look at What is Desirable

Zach Walter *Butler University*, Payton Wright *Butler University*, Allyson Munneke *Butler University*, Ashley Asuncion *Butler University*, Mandy Gingerich *Butler University*. Faculty Sponsors: Mandy Gingerich *Butler University*.

01:30 PM — "Did you catch that?" Applications of Attentional Research

Stefanie Nanney *Purdue University North Central*. Faculty Sponsors: Heather Fielding *Purdue University North Central*, Cynthia Zdanczyk *Purdue University North Central*.

01:45 PM — The Art Infusion Effect: Higher Ratings of Pleasingness of Portraits in Paintings vs. Photographs

Megan Nelson *University of Dayton*, Jillian Marron *University of Dayton*, Ashley Ann Marshall *University of Dayton*, Madeleine Schneider *University of Dayton*, Alex Fitzharris *University of Dayton*, Giuseppe Miranda *University of Dayton*, Emily Ruffolo *University of Dayton*, Christine Kershaw *University of Dayton*. Faculty Sponsors: Susan Davis *University of Dayton*.

02:00 PM — The Effects of Pornography in Relationships

Janelle Gouwens *Huntington University*, Rachael Datta *Huntington University*, Eleni Newsome *Huntington University*. Faculty Sponsors: Emily Horne *Huntington University*.

02:15 PM — Predictors of Risky Sexual Behavior

Erica Los *Ball State University*, Jaclyn Saunders *Ball State University*, Addison Ulmer *Ball State University*, Justin Pineiro *Ball State University*. Faculty Sponsors: George Gaither *Ball State University*.

Environmental & I-O Psychology 1

Moderators: Alison O'Malley

1:00 PM - 2:30 PM Pharmacy & Health Sciences 204

01:00 PM — Broadening and Building Positive Linkages Between Flourishing and Entrepreneurial Proclivity

Alex Crist *Butler University*. Faculty Sponsors: Alison O'Malley *Butler University*.

01:15 PM — Give It to Me Straight: The Effect of Feedback Environment on Trust is Moderated by Implicit Theory

Ian Katz *Butler University*. Faculty Sponsors: Alison O'Malley *Butler University*.

01:30 PM — Negative Feedback and Affective Forecasting: A Literature Review and Proposal for Future Research

Serena Daley *Butler University*, Emily Chamberlain *Butler University*. Faculty Sponsors: Alison O'Malley *Butler University*.

01:45 PM — Perceived Social Support Shapes Employee Experiences in a Group Fitness Program

Meghan Barina *Butler University*. Faculty Sponsors: Alison O'Malley *Butler University*.

02:00 PM — Is Happiness in Our Nature?: Examining Happiness as a Motivator of Pro Environmental Behavior

Leah Gerber *Butler University*. Faculty Sponsors: Alison O'Malley *Butler University*.

Aging & Cognition

Moderators: Tara Lineweaver

2:45 PM - 4:15 PM Pharmacy & Health Sciences 150

02:45 PM — Music Listening and Perceived Stress

Zachary Shultz *Huntington University*, Lee Ewen *Huntington University*, Samuel Bray *Huntington University*.
Faculty Sponsors: Emily Horne *Huntington University*.

03:00 PM — Don't Mess It Up! Can Students with OCD Concentrate in Messy Environments?

Ellen Kendall *Butler University*, Sarah McRoberts *Butler University*. Faculty Sponsors: Tara Lineweaver *Butler University*.

03:15 PM — TBJ (Throw-Back Juniors): Greek Affiliation's Effect on Theory of Mind and Morality across the College Years

Catherine Geanon *Butler University*, Megan Fishbaugh *Butler University*. Faculty Sponsors: Tara Lineweaver *Butler University*.

03:30 PM — Implicit Memory and Change Blindness in Relation to Visual Stimuli

Michael Wright *University of Dayton*, Kendall Wolowicz *University of Dayton*, Mark Brown *University of Dayton*, Jillian Marron *University of Dayton*, Angel Agu *University of Dayton*, Anneke Price *University of Dayton*, Giuseppe Miranda *University of Dayton*, Christine Kershaw *University of Dayton*. Faculty Sponsors: Susan Davis *University of Dayton*.

03:45 PM — The Impact of Benevolent Sexism on Career Aspirations

Elizabeth Ralston *Hanover College*, Samantha Barrett *Hanover College*. Faculty Sponsors: Ellen Altermatt *Hanover College*.

04:00 PM — MISSperception of Feminism in Rural Indiana

Niles Berry *Huntington University*, Nathaniel Cave *Huntington University*, Hannah DeMara *Huntington University*. Faculty Sponsors: Emily Horne *Huntington University*.

Clinical & Personality Psychology 2

Moderators: Joel Martin

2:45 PM - 4:15 PM Pharmacy & Health Sciences 156

02:45 PM — Fakebook: Anonymous Perceptions of Mental Illness in the Social Media Context

Brett Conrad *Goshen College*, Sam Langley *Goshen College*, Missy Mackowiak *Goshen College*, Seth Miller *Goshen College*, Evette Yoder *Goshen College*. Faculty Sponsors: Julie Reese *Goshen College*.

03:00 PM — Lucid Dreaming: New Age Nonsense or Therapeutic Tool?

Jenna Feeback *Ball State University*. Faculty Sponsors: Jonel Thaller *Ball State University*.

03:15 PM — Personality and Physical Touch

Jenna Bates *Huntington University*, Zachary Prather *Huntington University*. Faculty Sponsors: Emily Horne *Huntington University*.

03:30 PM — The Influence of Crime and Deterrence Perceptions on Criminal Activity

Amanda Bagwell *Indiana University-Kokomo*. Faculty Sponsors: Kathryn Holcomb *Indiana University-Kokomo*.

03:45 PM — Binge Drinking: Subtypes and Associations in Young Adults

Christopher "C.J." Skok *Indiana University Bloomington*. Faculty Sponsors: Peter Finn *Indiana University Bloomington*.

Cognitive, Sexuality & Comparative Psychology 2

Moderators: Mandy Gingerich

2:45 PM - 4:15 PM Pharmacy & Health Sciences 202

02:45 PM — Predictors of Sexual Esteem

Lisa Schwager *Ball State University*, Jessica Mangano *Ball State University*. Faculty Sponsors: George Gaither *Ball State University*.

03:00 PM — Predictors of Sexual Fantasies

Kate Morgan *Ball State University*, Erica Dammann *Ball State University*, Sam Haas *Ball State University*. Faculty Sponsors: George Gaither *Ball State University*.

03:15 PM — The Consequences of Self-Objectification: Investigating the Impact of Cognitive-Emotional Outcomes on Female Sexual Functioning

Devin Bishop *Ball State University*. Faculty Sponsors: George Gaither *Ball State University*.

03:30 PM — Big Sisters Lead the Way: Allomothering in African Elephants

Nicole Lyons *Butler University*. Faculty Sponsors: Robert Dale *Butler University*.

03:45 PM — How Social Relationships Develop for an African Elephant Calf (*Loxodonta Africana*) Ex Situ

Laura Beer *Butler University*. Faculty Sponsors: Robert Dale *Butler University*.

04:00 PM — Habitat Usage by Captive African Elephants

Julia Machado *Butler University*. Faculty Sponsors: Robert Dale *Butler University*.

Environmental & I-O Psychology 2

Moderators: Alison O'Malley

2:45 PM - 4:15 PM Pharmacy & Health Sciences 204

02:45 PM — Social Media's Effect on Civic Engagement

Rebecca Grimes *Huntington University*, Megan Schueler *Huntington University*, Brandi Girod *Huntington University*. Faculty Sponsors: Emily Horne *Huntington University*.

03:00 PM — An Exploratory Study of Academic Resiliency in an Academic Setting

Chelsie Nuhring *Hanover College*. Faculty Sponsors: Stephen Dine Young *Hanover College*.

03:15 PM — She Is Not Me

Briana Golder *Saint Joseph's College*. Faculty Sponsors: Mark Seely *Saint Joseph's College*.

03:30 PM — The Impact of Racially Stereotyped Names on Resumes

Cali Young *Purdue University North Central*. Faculty Sponsors: Hui Chu *Purdue University North Central*.

03:45 PM — The Effects of Name Stereotypes on Face Recognition

Tessa Dean *Hanover College*, Erin Lyon *Hanover College*. Faculty Sponsors: Bill Altermatt *Hanover College*.

04:00 PM — The Role Autonomy Plays on Academic Success for African-Americans

Colin Cobb *Hanover College*. Faculty Sponsors: Stephen Dine Young *Hanover College*.

Sociology

Sociology 1

Moderators: Kenneth Colburn

9:30 AM - 10:45 AM Jordan Hall 201

09:30 AM — A Departure from Blood and Iron: A Comparative Analysis of the Role of Culture in Societal Reintegration of Ex-Combatant Veterans and Reentry of Ex-Convicts

Devon Lott *Butler University*. Faculty Sponsors: Siobhan McEvoy-Levy *Butler University*.

09:45 AM — No Turning Back: A Quantitative Study on Recidivism Rates among Treatment Modalities

Amanda Siegers *Indiana Wesleyan University*, Kaylee Cobbs *Indiana Wesleyan University*, Lindley Swiggum *Indiana Wesleyan University*. Faculty Sponsors: Katti Sneed *Indiana Wesleyan University*.

10:00 AM — CSI Effect

Claire Doetsch *Butler University*. Faculty Sponsors: Kenneth Colburn *Butler University*.

10:15 AM — A Work in Progress: A Quantitative Study on Success Rates within the Reentry Court

Alyssa Freed *Indiana Wesleyan University*, Rebeccah Carly Baric *Indiana Wesleyan University*, Bonnie England *Indiana Wesleyan University*. Faculty Sponsors: Katti Sneed *Indiana Wesleyan University*.

10:30 AM — Training up a Child: A Program Evaluation of The Training Center in Marion, IN

Carrin Zirkle *Indiana Wesleyan University*, Kinsey Horner *Indiana Wesleyan University*, Ambar Tavera *Indiana Wesleyan University*. Faculty Sponsors: Katti Sneed *Indiana Wesleyan University*.

Sociology: College Issues

Moderators: Jess Butler

9:30 AM - 10:45 AM Jordan Hall 203

09:30 AM — A for Effort

Ariona Anderson *Earlham College*. Faculty Sponsors: Rajaram Krishnan *Earlham College*.

09:45 AM — Alcohol Consumption Among Butler University Students: Athletes vs. Non-Athletes

Brian Knight *Butler University*. Faculty Sponsors: Kenneth Colburn *Butler University*.

10:00 AM — Contributing Factors of College Students' Alcohol Consumption: A Comparison of Freshmen and Seniors

Ashley Garrett *Butler University*. Faculty Sponsors: Kenneth Colburn *Butler University*.

10:15 AM — Gender Differences in Perceptions of Violence and Safety on College Campuses

Kelsey Whitney *Butler University*. Faculty Sponsors: Kenneth Colburn *Butler University*.

10:30 AM — Student's Perception of Sexual Assault on Butler University's Campus

Hannah McKee *Butler University*. Faculty Sponsors: Kenneth Colburn *Butler University*.

Sociology 2

Moderators: Jess Butler

11:00 AM - 12:00 PM Jordan Hall 203

11:00 AM — Gender Identities and Emotion Work in Intramural Basketball

Megan Robinson *Hanover College*. Faculty Sponsors: Kathryn Hadley *Hanover College*.

11:15 AM — Art of Invitation: A Qualitative Study

Amanda Blake *Indiana Wesleyan University*. Faculty Sponsors: Katti Sneed *Indiana Wesleyan University*.

11:30 AM — The Evolution of Racism: A Study in the Change of Racial Attitudes of Caucasian Adults

Sarah Nyhoff *Indiana Wesleyan University*, Jordan Maher *Indiana Wesleyan University*, Rachel Holmes *Indiana Wesleyan University*. Faculty Sponsors: Katti Sneed *Indiana Wesleyan University*.

11:45 AM — Parenting Styles Effect on Behavioral Patterns

Olivia Gilpin *Butler University*. Faculty Sponsors: Dr. Kenneth Colburn *Butler University*.

Sociology: Social Work Issues

Moderators: Kenneth Colburn

11:00 AM - 12:00 PM Jordan Hall 201

11:00 AM — A “Sweet” Lifestyle: A Study on the Correlation between Hope, Depression, Self-Efficacy, and Medical Compliance within Diabetic Patients at Bridges to Health

Marla Richards *Indiana Wesleyan University*, Jordan Scales *Indiana Wesleyan University*, Becca Ledebor *Indiana Wesleyan University*. Faculty Sponsors: Katti Sneed *Indiana Wesleyan University*.

11:15 AM — Attributions of Blame: Domestic Violence Professionals’ Work Experiences with First Responders

Kelsea Manion *Marian University*. Faculty Sponsors: Amber Nelson *Marian University*.

11:30 AM — Satisfied Social Worker: A Quantitative Study on Life Satisfaction in Indiana Wesleyan University Social Work Alumni

Lauren Frey *Indiana Wesleyan University*, Natalie Hayes *Indiana Wesleyan University*, Bethany Breum *Indiana Wesleyan University*. Faculty Sponsors: Katti Sneed *Indiana Wesleyan University*.

11:45 AM — Give Us Hope: A Quantitative Study on Hope within Family Service Clients

Stephanie Neeb *Indiana Wesleyan University*, Christine Hale *Indiana Wesleyan University*, Erin Sweigard *Indiana Wesleyan University*. Faculty Sponsors: Katti Sneed *Indiana Wesleyan University*.

Sociology 3

Moderators: Kenneth Colburn

1:00 PM - 2:15 PM Jordan Hall 203

01:00 PM — Seeking Sparrows: A Quantitative Study on the Level of Work Readiness in Those Who Work with Victims of Sex Trafficking

Brynne Johnson *Indiana Wesleyan University*, Lauren Stutzman *Indiana Wesleyan University*, Hannah McClure *Indiana Wesleyan University*. Faculty Sponsors: Katti Sneed *Indiana Wesleyan University*.

01:15 PM — Public Perception of People with Tattoos

Rachael Scherf *Butler University*. Faculty Sponsors: Kenneth Colburn *Butler University*.

01:30 PM — The More the Merrier: A Study on the Correlation between Activities and Life Satisfaction in Nursing Home Residents

Paige Toepper *Indiana Wesleyan University*, Talia Benware *Indiana Wesleyan University*, Natalie Bunn *Indiana Wesleyan University*. Faculty Sponsors: Katti Sneed *Indiana Wesleyan University*.

01:45 PM — Understanding Suicide as a Social Issue: Perspectives of College Students

Andy Hirsch *Butler University*. Faculty Sponsors: Kenneth Colburn *Butler University*.

02:00 PM — Sexual Media Content and Level of Comfort Toward Public Displays of Affection

Taylor Horton *Butler University*. Faculty Sponsors: Kenneth Colburn *Butler University*.

Sociology: Social Issues

Moderators: Marvin Scott

1:00 PM - 2:15 PM Jordan Hall 201

01:00 PM — Chains & Whips: Gender Roles in BDSM Erotica Published After "Fifty Shades of Grey"

Laura Lines *Butler University*. Faculty Sponsors: Krista Cline *Butler University*.

01:15 PM — The Effects of Religion and Religiosity on Sexual Attitudes and Behaviors in Emerging Adulthood

Lauren Baxter *Butler University*. Faculty Sponsors: Kenneth Colburn *Butler University*.

01:30 PM — Why Do Boys Love Frozen, a Disney Princess Movie?

Payton Butler *University of Indianapolis*. Faculty Sponsors: Greta Pennell *University of Indianapolis*.

02:00 PM — The Effects of Perceived Social Support on Depressive-Like Symptoms

Emily Hildebrandt *Butler University*. Faculty Sponsors: Kenneth Colburn *Butler University*.

Sustainability, Urban Ecology & Environmental Studies

Moderators: McKenzie Beverage

1:00 PM - 2:30 PM Gallahue Hall 348

01:00 PM — Residing on the Water: Does a Canal Count?

Troy Kennedy *Indiana University Purdue University Indianapolis*. Faculty Sponsors: Susan Hyatt *Indiana University Purdue University Indianapolis*.

01:15 PM — Identifying the Efficacy of Grassroots Community Engagement on Improving Environmental Stewardship

Rachel Skelton *Butler University*. Faculty Sponsors: Craig Auchter *Butler University*.

01:30 PM — Indiana Wildflowers: A Survey of Species Diversity in the Presence of Invasive Plant Species

Chelsea Westerfield *University of Indianapolis*. Faculty Sponsors: Sandra Davis *University of Indianapolis*, Amy Allen-Sekhar *University of Indianapolis*.

01:45 PM — Balancing Conservation and Economic Development: Creating Conservation Strategies through the Study of Orchids in Their Natural Environment in Ecuador

Ellen Radcliffe *Illinois College*. Faculty Sponsors: Steven Gardner *Illinois College*.

Poster Presentations

Anthropology

Anthropology

8:45 AM - 10:00 AM Irwin Library Lower Level

Virulent Breast Cancer in Women of African Descent

Thomasina Watts *Indiana University Purdue University Indianapolis*. Faculty Sponsors: Ronda Henry-Anthony *Indiana University Purdue University Indianapolis*.

Biochemistry & Molecular Biology

8:45 AM - 10:00 AM Irwin Library Lower Level

A Structural and Functional Analysis of *Cryptosporidium Parvum* Pyruvate Kinase

Andrew Merrill *Thomas More College*. Faculty Sponsors: John Hageman *Thomas More College*, Debasish Chattopadhyay *Thomas More College*.

Anthocyanin Synthase Expression in Staminate and Pistillate Phase Flowers of Pale and Pink Genotypes of *Saponaria Officinalis*

Catelin Costello *University of Indianapolis*, Renee Frantz *University of Indianapolis*, Tristan Pearman *University of Indianapolis*, Brooke Meyer *University of Indianapolis*. Faculty Sponsors: Sandra Davis *University of Indianapolis*.

An Investigation of Invasive Ecology and Genetics in Northern Indiana

Alyssa Rosheck *Manchester University*. Faculty Sponsors: Kristen Short *Manchester University*.

Biochemistry and Genetics of Alpha Amylase

Page Martin *Anderson University*. Faculty Sponsors: Kimberly Lyle-Ippolito *Anderson University*.

Characterization of Enzyme Activity and Substrate Specificity of LipW, a Lipase Linked to Tuberculosis

Magy McKary *Butler University*, R. Jeremy Johnson *Butler University*. Faculty Sponsors: R. Jeremy Johnson *Butler University*.

Characterization of Metal Resistance in a Clinical Methicillin-Resistant Strain of Staphylococcus "aureus"

Colleen Quigley *Saint Mary's College*. Faculty Sponsors: Reena Lamichhane-Khadka *Saint Mary's College*.

Biological Evaluation of a Library of Chalcones as Cytotoxic Agents

Miranda Schmidt *Bellarmino University*. Faculty Sponsors: Amanda Krzysiak *Bellarmino University*.

Determination of ACTN3 genotypes: A Muscle Protein Gene Polymorphism Related to Athletic Performance

Rachel Sieg *Hanover College*, Dani O'Neill *Hanover College*, Matt Weber *Hanover College*, Trafton Holder *Hanover College*, Steve Steiner *Hanover College*, Dean Jacks *Hanover College*. Faculty Sponsors: Steve Steiner *Hanover College*, Dean Jacks *Hanover College*.

Determination of the Biological Function of OVCA2, a Potential Ovarian Cancer Related Enzyme

Jessica Bun *Butler University*, R. Jeremy Johnson *Butler University*. Faculty Sponsors: R. Jeremy Johnson *Butler University*.

Evaluation of Inhibitory Potential in Compounds Designed Using Computer Modeling to Inhibit Glutamate Racemase

Olivia Dinsmore *Ohio Northern University*, Emily Wells *Ohio Northern University*. Faculty Sponsors: Amy Stockert *Ohio Northern University*.

H3K79 Di-Methylation Involvement in UV-Induced Damage Repair of Saccharomyces Cerevisiae

Elizabeth Bailey *Denison University*, Sara Wilkes *Denison University*. Faculty Sponsors: Jeff Thompson *Denison University*.

In Gel Enzymatic Activity of Serine Hydrolases in M. Smegmatis

Heather Hansen *Butler University*. Faculty Sponsors: Jeremy Johnson *Butler University*.

Inhibition of ALK-5 Receptor Increases Proliferation in Endothelial Colony-Forming Cells Exposed to Gestational Diabetes Mellitus

Cavya Chandra *Indiana University Purdue University Indianapolis*, Emily Blue *Indiana University Purdue University Indianapolis*. Faculty Sponsors: Laura Haneline *Indiana University Purdue University Indianapolis*.

Investigation of the Localization and Expression of the Receptor FSHR-1 in C. Elegans Neurons

Kyle Cherry *Butler University*. Faculty Sponsors: Jennifer Kowalski *Butler University*.

Investigation of the Neuronal Functions of SUMO Enzymes at the Neuromuscular Junction in C. Elegans

Victoria Kreyden *Butler University*, Morgan Harrison *Butler University*, Kristen Rush *Butler University*. Faculty Sponsors: Jennifer Kowalski *Butler University*.

Investigation of the Neuronal Functions of the FSHR-1 Protein in Controlling Neuromuscular Signaling in *C. Elegans*

Allyson Munneke *Butler University*, Julie Kolnik *Butler University*, Amy Wasilk *Butler University*. Faculty Sponsors: Jennifer Kowalski *Butler University*.

Methods in Extracting DNA: Using Phenol-Chloroform on Formalin Fixed Human Brain Tissue

Stefanie Rigg *Purdue University North Central*, Nathaniel Kennedy *Purdue University North Central*. Faculty Sponsors: Lindsay Gielda *Purdue University North Central*, Heather Fielding *Purdue University North Central*, Robin Scribailo *Purdue University North Central*.

RNA/DNA Ratio in the Mantle Tissue of the Freshwater Mussel *Lampsilis Siliquoidea*

Kasey Brubaker *Manchester University*. Faculty Sponsors: Kristen Short *Manchester University*.

Screening of Potential Cell Imaging Fluorescing Compounds for Antimicrobial Activity

Jena Donley *Ohio Northern University*. Faculty Sponsors: Amy Stockert *Ohio Northern University*.

The Role of Lipid Raft Formation during Activation of ERK1/2 by Cadmium and Arsenite in Human Lung Adenocarcinoma Cells

Meera Patel *Bellarmine University*. Faculty Sponsors: Mary Huff *Bellarmine University*.

The Unusual Substrate Specificity of a Virulence Associated Serine Hydrolase from the Highly Toxic Bacterium, *Francisella Tularensis*

Whitney Hart *Butler University*. Faculty Sponsors: Jeremy Johnson *Butler University*.

Biology

8:45 AM - 10:00 AM Irwin Library 1st Floor

A Bioassessment of the Fish Populations in the Ohio River near Zimmer Power Plant

Mitchell Kriege *Thomas More College*, Lucas Corbin *Thomas More College*, Amanda Smith *Thomas More College*, Emily Richardson *University of Saint Francis*, Kristen Slodysko *Thomas More College*, Rachel Kaiser *Thomas More College*, Lane Taul *Thomas More College*. Faculty Sponsors: Chris Lorentz, Ph.D. *Thomas More College*.

A Case Study of Dave's Patch Reef, Andros Island, Bahamas and the Roving Diver Technique

Emily Richardson *University of Saint Francis*, Heather Zengler *University of Saint Francis*, Tatiana Castillo *University of Saint Francis*, Danielle Reuille *University of Saint Francis*, Holly Green *University of Saint Francis*. Faculty Sponsors: Larry Wiedman *University of Saint Francis*.

Biotic and Abiotic Factors Influencing the Distribution of *Orconectes Rusticus* (Rusty Crayfish) in the Lee's Branch; A Continuing Study

Sharon Burton *Midway College*. Faculty Sponsors: Beverly Juett *Midway College*.

Characterization of Signaling Deficient Tyro3

Doh-Kyung Kim *Indiana University Bloomington*. Faculty Sponsors: Anne Prieto *Indiana University Bloomington*.

Distribution and Community Composition of Non-Native Earthworms in Northeast Indiana

Kara Olson *Manchester University*, Giang Hoang *Manchester University*. Faculty Sponsors: Kristen Short *Manchester University*.

Developmental Timing and Phenotypic Plasticity in Butterfly Wing Spots

Shelby Miller *Butler University*. Faculty Sponsors: Andrew Stoehr *Butler University*.

Differential Survival Rates of *Physomitrella Patens* with Genetically Modified Defense Genes

Adam Beswick *Butler University*. Faculty Sponsors: Phil Villani *Butler University*, Nat Hauck *Butler University*.

Fine Focus: A New International Undergraduate Microbiology Research Journal

Luke Schmid *Ball State University*. Faculty Sponsors: John McKillip *Ball State University*.

Histological and Whole Slide Quantitative Image Analysis of Lung Metastases In a Mouse Breast Cancer Model using Carboplatin and Nutlin 3A Alone and in Combination

Maggie Strack *Indiana University Purdue University Indianapolis*. Faculty Sponsors: Tony Sinn *Indiana University Purdue University Indianapolis*, Tiaishia Spragins *Indiana University Purdue University Indianapolis*, Kacie Peterson *Indiana University Purdue University Indianapolis*, Barbara Bailey *Indiana University Purdue University Indianapolis*, Karen Pollock *Indiana University Purdue University Indianapolis*, George Sandusky *Indiana University Purdue University Indianapolis*.

Observing Larval Nervous System Structure in *Drosophila Melanogaster* Mutants Using GFP Fluorescence

Harshida Pancholi *Denison University*. Faculty Sponsors: Eric Liebl *Denison University*.

Phenotypic Plasticity Influenced by Climate Change over Time in the Cabbage White Butterfly

Isabella Lambert *Butler University*. Faculty Sponsors: Andrew Stoehr *Butler University*.

Raphanus Sativus: How Does Foliar and Floral Tissue Damage Affect Fitness?

Daniel Fiorentini *Denison University*. Faculty Sponsors: Andrew McCall *Denison University*.

Sequence Improvement and Annotation of *D. Biarmipes* Genomic Regions Using PCR Amplification.

Madeline Havrilla *Saint Mary's College*. Faculty Sponsors: Don Paetkau *Saint Mary's College*.

The Effects of Caffeine and Paraxanthine on the Growth, Behavior, and Fecundity of the Freshwater Snail, *Physa Acuta*

Natalie Abell *Ball State University*. Faculty Sponsors: Melody Bernot *Ball State University*.

The Effects of Habitat Fragmentation on Eastern Red-Backed Salamanders, *Plethodon Cinereus*, in a Suburban Environment

Kathryn Kirkpatrick *Denison University*. Faculty Sponsors: Geoffrey Smith *Denison University*.

The Role of Light Dependency in *Mnium cuspidatum* Hypersensitive Response Defense Mechanisms to the Fungal Pathogen *Pythium irregulare*

William Weldon *Butler University*. Faculty Sponsors: Philip Villani *Butler University*.

Torsional Strength of Animal Long Bones and How It Relates to Cross-Sectional Area, Circumference, and Bone Mineralization

Andrew Skidmore *Bellarmino University*. Faculty Sponsors: David Porta *Bellarmino University*.

Vegetation Cover Map of Blue Hole Cay Updated

Michael Thompson *University of Saint Francis*, Alexandra Meyer *University of Saint Francis*. Faculty Sponsors: Larry Wiedman *University of Saint Francis*.

Vocalization of the Context and Frequency of Fox Squirrels

Eric Medrano *Butler University*. Faculty Sponsors: Carmen Salisbury *Butler University*.

Business & Economics

8:45 AM - 10:00 AM Irwin Library 1st Floor

Creative Census: A Look into the Northeast Indiana Creative Sector

Mariah Wynn *University of Saint Francis*, Tory Schendel *University of Saint Francis*. Faculty Sponsors: Mary Klopfer *University of Saint Francis*.

Forensic Accounting: Fraud Courses in Higher Education

Taylor Kacur *Norwich University*. Faculty Sponsors: Michel Kabay *Norwich University*, Natalia Blank *Norwich University*.

Chemistry

8:45 AM - 10:00 AM Irwin Library 2nd Floor

A Mild and Direct Amination of Tertiary Alkyl Halides with Imidoiodinanes

Erin Hancock *Hanover College*, Alex Brueckner *Hanover College*, Evan Anders *Hanover College*. Faculty Sponsors: Angus Lamar *Hanover College*.

Amino Acid-Derived Epoxides; Reactive Linchpins That Expedite the Synthesis of Key Pharmaceutical Intermediates

Michelle Lecklider *University of Evansville*, Stephanie Hautsch *University of Evansville*. Faculty Sponsors: Andy Lampkins *University of Evansville*.

Analysis of Fire Debris by Headspace Gas Chromatography-Mass Spectrometry

Jessica Torbeck *Thomas More College*, William Wetzel *Thomas More College*. Faculty Sponsors: William Wetzel *Thomas More College*.

Analysis of Volatile Organic Compounds in Artist's Materials

Sydney Pate *Butler University*. Faculty Sponsors: Michael Samide *Butler University*.

Assignments of ¹H and ¹³C for 7-Hydroxyflavone Using ¹D and ²D NMR Spectroscopy

Zach Hamm *Franklin College*. Faculty Sponsors: Nazir Khatri *Franklin College*.

Biodegradable Polymer Synthesis

Yuan Xue *Rose-Hulman Institute of Technology*. Faculty Sponsors: Bruce Allison *Rose-Hulman Institute of Technology*.

Chiral Light Emitting Ionic Liquids

Ben Zercher *Butler University*. Faculty Sponsors: Todd Hopkins *Butler University*.

Chloroform Addition to 1,2 Epoxyhexane and Styrene Oxide

Vince Castro *Butler University*. Faculty Sponsors: Paul Morgan *Butler University*.

Circularly Polarized Luminescence of Fluorescent Dyes

Aaron Brenner *Butler University*. Faculty Sponsors: Todd Hopkins *Butler University*.

Development of Novel "Smart" Therapeutics; Toward the Synthesis of a Prototype

Abby Smith *University of Evansville*. Faculty Sponsors: Andy Lampkins *University of Evansville*.

Efforts Towards Developing a New Polymerization Reaction Based on a Renewable Biomass-Derived Monomer

Jackson McGrath *University of Evansville*. Faculty Sponsors: Michael Slade *University of Evansville*.

Initial Studies of Metal Ion Extraction Using Porous Silicon

Campbell Higbie *Wabash College*, Matthew Bupp *Wabash College*, Benjamin Washer *Wabash College*.
Faculty Sponsors: Lon Porter *Wabash College*.

Chemistry 2

8:45 AM - 10:00 AM Irwin Library 3rd Floor

Method Development and Analysis of Trace Elements in Several Herbal Supplements Using ICP-MS

Jasmine Williams *Butler University*, Mark Meredith *Butler University*. Faculty Sponsors: Olujide Akinbo *Butler University*.

Novel Interceptive Decarboxylative Allylation Reactions

Maggie Somody *University of Evansville*. Faculty Sponsors: Michael Slade *University of Evansville*.

Quantification of Key Semi-Volatile Furan and Phenolic Congeners in American Whiskeys

Felicia Nguyen *Hanover College*. Faculty Sponsors: Craig Philipp, PhD *Hanover College*.

Spectroscopic Determination of Binding Constants and Isomerization Behavior of Brooker's Merocyanine within Modified β -Cyclodextrins

Carly Hanson *Valparaiso University*. Faculty Sponsors: Jennifer Holt *Valparaiso University*.

Spectroscopic Study of Dye Isomerization in a Host-Guest Complex

Miroslava Repak *Valparaiso University*. Faculty Sponsors: Jennifer Holt *Valparaiso University*.

Studies toward the Preparation and Utilization of N,N-Diiodosulfonamide: A Mild, New Aminating Agent

Erin Hancock *Hanover College*, Zach Burkhardt *Hanover College*, Kent Miller *Hanover College*. Faculty Sponsors: Angus Lamar *Hanover College*.

Synthesis and Characterization of Furan-Based Ligands for Use in Lactide Polymerization

Ashley White *Ohio Northern University*, Benjamin Kasting *Ohio Northern University*. Faculty Sponsors: Amelia Anderson-Wile *Ohio Northern University*.

Synthesis of 1,3-Dioxolanes from Glycerol

Kathryn Chamberlain *Butler University*. Faculty Sponsors: Stacy O'Reilly *Butler University*.

Synthesis of a Chiral Glycerol Based Acetal

Andrew Bradley *Butler University*. Faculty Sponsors: Stacy O'Reilly *Butler University*.

The Effect of Chitin Fiber Morphology on Mechanical Strength

Heather Johnson *Indiana University-Purdue University Columbus*. Faculty Sponsors: James Mendez *Indiana University-Purdue University Columbus*.

The Effect of the Order of Amino Acids in a Small Peptide

Jasmine Moore *Purdue University North Central*. Faculty Sponsors: Jessica Thomas *Purdue University North Central*, Heather Fielding *Purdue University North Central*.

Trace Metal Analysis of Brood XIV Periodical Cicadas by ICP-AES and ICP-MS

Lydia Black *Thomas More College*, Amberlie Clutterbuck *Thomas More College*, Joseph Caruso *Thomas More College*, William Wetzel *Thomas More College*. Faculty Sponsors: William Wetzel *Thomas More College*.

Classical Studies

8:45 AM - 10:00 AM Irwin Library 1st Floor

Examining Marriage and the Wedding Ceremony in Ancient Greece

Callie Leone *Butler University*. Faculty Sponsors: Lynne Kvapil *Butler University*.

Labor of Love: Childbirth and Midwives in Ancient Rome

Laura Lines *Butler University*. Faculty Sponsors: Lynne Kvapil *Butler University*.

Prostitution in the Ancient World

Milly Sauber *Butler University*. Faculty Sponsors: Lynne Kvapil *Butler University*.

Women in Ancient Greece: Pregnancy & Motherhood

Timothy McDonnell *Butler University*. Faculty Sponsors: Lynne Kvapil *Butler University*.

Communication & Media Studies

8:45 AM - 10:00 AM Irwin Library Lower Level

Examining Physician-Centered Communication During Cancer Diagnosis

Rachel Helt *Hanover College*. Faculty Sponsors: Valerie Young *Hanover College*.

Communication Sciences and Disorders

8:45 AM - 10:00 AM Irwin Library 2nd Floor

Teacher Perceptions of Elementary Students with an Articulation Disorder of Varying Degrees

Morgan Johnson *Butler University*. Faculty Sponsors: Suzanne Reading *Butler University*.

Education

8:45 AM - 10:00 AM Irwin Library 1st Floor

Collaboration Station: A Multidisciplinary Approach to Educational Game Design

Carisa Lovell *Ball State University*, Zach Sexton *Ball State University*, Cole Ludwig *Ball State University*, Kaleb Stumbaugh *Ball State University*, Kait Mahl *Ball State University*. Faculty Sponsors: Paul Gestwicki *Ball State University*.

High School Teaching and Student Performance in the Digital Age

Hao Nguyen *Earlham College*. Faculty Sponsors: Rajaram Krishnan *Earlham College*.

History

8:45 AM - 10:00 AM Irwin Library Lower Level

War Neuroses: How Twentieth-Century Industrial Warfare Shaped the American Hero

Lauren Haslem *Purdue University*. Faculty Sponsors: Melinda Zook *Purdue University*, Yvonne Pitts *Purdue University*, Wendy Kline *Purdue University*.

Not a Boy, Not a Girl: Understanding the History of the Western Gender Binary in the United States through Colonialism and Gentrification

Emma Landwerlen *Butler University*. Faculty Sponsors: Vivian Deno *Butler University*.

International Studies

8:45 AM - 10:00 AM Irwin Library Lower Level

César Chávez and Strategies for Intercultural Cooperation

Alexandra Gawrys-Strand *Ball State University*. Faculty Sponsors: Gerald Waite *Ball State University*.

Levels of Political Awareness among Students at Indiana Wesleyan University

Michelle King *Indiana Wesleyan University*. Faculty Sponsors: Tony Parandi *Indiana Wesleyan University*.

The Impact of Special Envoy Lakhdar Brahimi on International Peace in the Middle-East

Christopher Held *Ball State University*. Faculty Sponsors: Gerald Waite *Ball State University*.

Mathematics and Computer Science

8:45 AM - 10:00 AM Irwin Library Lower Level

Design, Testing, and Analysis of an Inexpensive Field Work Platform

Tara Urner *Earlham College*, Kristin Muterspaw *Earlham College*, Deeksha Srinath *Earlham College*, George Howard Crowson *Earlham College*. Faculty Sponsors: Charlie Peck *Earlham College*.

FAGIN (Facial Analysis to Gain Information Now)

Chelsea Bell *Defiance College*, Jennifer Wedge *Defiance College*, Ashley Wilson *Defiance College*, Zach Roush *Defiance College*. Faculty Sponsors: Tim Wedge *Defiance College*.

The Use of Fiducial Markers in Image Analysis

Jenna Wilson *Saint Mary's College*, Tabitha Ricketts *Saint Mary's College*. Faculty Sponsors: Ian Bentley *Saint Mary's College*.

Pharmacy, Health Sciences & Exercise Science

11:30 AM - 1:00 PM Pharmacy & Health Sciences Lower Concourse

Caffeine Protocols and Their Effects on Endurance Performance

Bailey Davis *Hanover College*. Faculty Sponsors: Molly Winke *Hanover College*.

Cleft Lip and Palate Literature Review Compilation

Abdul Karim Khan *Indiana University Purdue University Indianapolis*. Faculty Sponsors: Michael Yard *Indiana University Purdue University Indianapolis*.

Comparative Analysis of Health Outcomes Associated with Anti-Platelet Maintenance Therapy in Type 2 Diabetes Mellitus Patients Post Cardiac Stent Placement

Alexandra DeChristopher *Butler University*. Faculty Sponsors: Chad Knoderer *Butler University*.

Didactic to Experiential Learning Throughout A Pharmacy Curriculum: A Clinical Approach

Eric Gregory *Butler University*, Lindsey Hodgen *Butler University*, Alyssa Kmet *Butler University*, Dan Peterson *Butler University*, Evan Zahn *Butler University*. Faculty Sponsors: Jeanne VanTyle *Butler University*.

Effects of Aqueous Cinnamon Extract on 3T3-L1 Cell Morphology and Adherence

Angela Smith *Ohio Northern University*. Faculty Sponsors: Amy Stockert *Ohio Northern University*.

Effects of Cinnamoniun Cassia Aqueous Extract on Activity of FoxO1 in 3T3-L1 Pre-Adipocytes

Sarah Bova *Ohio Northern University*, Kaitlin Bova *Ohio Northern University*. Faculty Sponsors: Amy Stockert *Ohio Northern University*.

Evaluating the Effectiveness of Medical Spanish Training Course for Pharmacy Staff within a Safety-Net Health System

Matthew Hansen *Butler University*. Faculty Sponsors: Carolyn Jung *Butler University*.

Evaluation of Epigenetic Potential of Cinnamon Extract on MCF-7 Breast Cancer Cells

Rachel Bulko *Ohio Northern University*, Jimesh Raval *Ohio Northern University*. Faculty Sponsors: Amy Stockert *Ohio Northern University*.

Glucose and RPE Responses to Sleep Duration

Kaylie Brown *Hanover College*. Faculty Sponsors: Molly Winke *Hanover College*.

Incidence of VRE Colonization within a Bone Marrow Transplant/Hematology Unit

Rachel Scott *Butler University*, Stephanie Gartrell *Butler University*. Faculty Sponsors: Jill Leslie *Butler University*.

Inhibition of Various Hops Extracts on Streptococcus Mutans Biofilm Formation

Eric Gregory *Butler University*. Faculty Sponsors: Richard Gregory *Butler University*.

Max Greene and the Vaccine Team: An Interdisciplinary Children's Book on the Importance of Vaccines

Emily Ellsworth *Butler University*, Terri Newman *Butler University*. Faculty Sponsors: Erin Albert *Butler University*, Emily Papineau *Butler University*.

Postpartum Contraceptive Use and Breastfeeding: A Community Survey of Mothers

Krista McHugh *Butler University*, Audra Goldsberry *Butler University*, Kylie Holland *Butler University*, Kyra Boyer *Butler University*. Faculty Sponsors: Joseph Jordan *Butler University*.

Evaluation of Appropriate Renal Dosing of Medications in a Medical Resident Training Facility

Lauren Karazsia *Butler University*. Faculty Sponsors: Jessica Wilhoite *Butler University*.

The Effect of Caffeine on Reaction Time, Motor Control, and Mood

Addison Sears *Hanover College*. Faculty Sponsors: Bryant Stamford *Hanover College*.

The Practical Application of Non-Sterile Compounding in an Advanced Pharmaceuticals Laboratory Setting

Heather Anderson *Butler University*. Faculty Sponsors: Margaret Stratford *Butler University*.

Physics & Astronomy

8:45 AM - 10:00 AM Irwin Library 3rd Floor

Atomic Layer Deposition and Characterization of Aluminum-Doped Zinc Oxide Thin Films

Daniel Lauriola *Rose-Hulman Institute of Technology*. Faculty Sponsors: Marij Syed *Rose-Hulman Institute of Technology*, Richard Liptak *Rose-Hulman Institute of Technology*.

Nanophotonic Solar Device

William Lowry *Rose-Hulman Institute of Technology*, Michael Swartz *Rose-Hulman Institute of Technology*, Gregory Stein *Rose-Hulman Institute of Technology*. Faculty Sponsors: Scott Kirkpatrick *Rose-Hulman Institute of Technology*, Richard Liptak *Rose-Hulman Institute of Technology*.

Nonlinear Surface Wave Propagation and Attenuation from an Array of Cylindrical Cavity Sources

Jackson O'Brien *Butler University*. Faculty Sponsors: Dan Kosik *Butler University*.

Optical Observations of Short Period Binary Star Systems

Hayley Bower *Anderson University*, Tyler Williamson *Anderson University*. Faculty Sponsors: John Millis *Anderson University*.

Political Science

8:45 AM - 10:00 AM Irwin Library Lower Level

State and Local Leadership Capacity: Using Content Analysis to Examine the Nexus between Spirituality and Public Sector Administrative Leadership Development

Max Price *Taylor University*, Tyler Amann *Taylor University*, Derek Sanson *Taylor University*, Chin Ai Oh *Taylor University*, Charlie Richert *Taylor University*. Faculty Sponsors: Stephen King *Taylor University*.

Psychology

11:30 AM - 1:00 PM Pharmacy & Health Sciences Lower Concourse

A Subtle Test of Change Blindness: Do Readers Notice Physical Changes in the Text

James McLean *University of Dayton*, Anne Horna *University of Dayton*, Nicholas LaTorre *University of Dayton*, Erin Straslicka *University of Dayton*, Kendall Wolowicz *University of Dayton*, Christine Kershaw *University of Dayton*. Faculty Sponsors: Susan Davis *University of Dayton*.

Attachment in the Virtual World: Immersive Learning Through a Simulation

Mary Steele *Purdue University North Central*. Faculty Sponsors: Cheryl DeLeon *Purdue University North Central*.

Capturing the Moment to Cultivate Memory: The Influence of Meditation on Anxiety and Recall

Laurel Wolfe *University of Evansville*, Mary Burst *University of Evansville*, Chelsea Wheat *University of Evansville*, Alexis Peterman *University of Evansville*. Faculty Sponsors: Margaret Stevenson *University of Evansville*.

Comic Relief

Jessica Mangano *Ball State University*. Faculty Sponsors: Gerry Waite *Ball State University*.

Comparing Student and Professor Preferences in Class Scheduling

Lucas Al-Zoughbi *Manchester University*, Miriam Cruz *Manchester University*. Faculty Sponsors: Marcie Coulter-Kern *Manchester University*.

Dissociating Remembering from Forgetting in Recognition-Induced Forgetting

Alivia Benbow *Manchester University*, Rehab Dahab *Manchester University*, AJ Hudkins *Manchester University*, Miriam Cruz *Manchester University*. Faculty Sponsors: Ashleigh Maxcey *Manchester University*.

Don't Be a Rube, Get Rid of the Tube

Olivia Berch *Iowa State University*, Rachel Swanson *Iowa State University*. Faculty Sponsors: Douglas Gentile *Iowa State University*.

Effects of Mindfulness Meditation on Memory Accuracy?

Zach Walter *Butler University*, Payton Wright *Butler University*, Mandy Gingerich *Butler University*. Faculty Sponsors: Mandy Gingerich *Butler University*.

Effects of Social Self-Awareness Priming on Level of Social Anxiety and the Moderating Role of Personality Type

Alexandra Glenn *Indiana University Kokomo*. Faculty Sponsors: Kathryn Holcomb *Indiana University Kokomo*.

Factors Influencing Gen Y's Job Choice: A Pilot Study

Kalee Miller *Ball State University*, Rachel Spriggs *Ball State University*. Faculty Sponsors: Chih-Lun Yen *Ball State University*.

Iowa Media Literacy Program - Educating Children about Advertisements

Manuela Faulhaber *Iowa State University*, Mitchell Hoger *Iowa State University*, Christopher Miller *Iowa State University*, Colton Brouwer *Iowa State University*, Justin Paulsen *Iowa State University*. Faculty Sponsors: Douglas Gentile *Iowa State University*.

Language Use in the Interview Setting

Hanna Hlebasko *Ball State University*. Faculty Sponsors: Thomas Holtgraves *Ball State University*.

Using APA Guidelines to Improve Effectiveness of Undergraduate Studies in Psychology

Caniece Leggett *Manchester University*, Jarod Schrock *Manchester University*. Faculty Sponsors: Marcie Coulter-Kern *Manchester University*.

Meaning in Life, Association, and Generalized Self-Efficacy

Jack Mattingly *Indiana University Kokomo*. Faculty Sponsors: Kathryn Holcomb *Indiana University Kokomo*.

Normal Caregiver-Child Conflict in Families in a Rural Community

E. Thomasina Marsili *Saint Mary-of-the-Woods College*. Faculty Sponsors: Douglas Sperry *Saint Mary-of-the-Woods College*.

Perceptions of Beauty

Carly Eldridge *Indiana University Kokomo*. Faculty Sponsors: Kathryn Holcomb *Indiana University Kokomo*.

Personality, Gender, Age, and Uses of Music as Predictors of Music Preferences

Haylee Cullison *Indiana University Kokomo*. Faculty Sponsors: Kathryn Holcomb *Indiana University Kokomo*.

Pretty Pink Preferences

Kimberly Sterrett *University of Indianapolis*. Faculty Sponsors: Greta Pennell *University of Indianapolis*.

Roommate Retention through the Lens of Myers-Briggs Types

Caleb Bowers *Indiana Wesleyan University*. Faculty Sponsors: Tony Parandi *Indiana Wesleyan University*.

Wearing a Different White Coat: Teaming up to Promote Empathy Gains in Pharmacy Students

Kaitlin Foran *Butler University*. Faculty Sponsors: Alison O'Malley *Butler University*.

Ulterior Motives and Prosocial Actions: How Religiously Affiliated and Nonreligious Persons View Each Other's Altruism

Michael Terrell *Indiana University Kokomo*. Faculty Sponsors: Kathryn Holcomb *Indiana University Kokomo*.

Should Schools Start Cultivating Traits for Academic Motivation and Achievement?

Soe Yu Naing *Earlham College*. Faculty Sponsors: Rajaram Krishnan *Earlham College*.

Video Game Effects: A Link with ADHD?

Joshua Davis *Iowa State University*, Zachary Koehn *Iowa State University*, Jorge Blanco *Iowa State University*, Elizabeth Purdum *Iowa State University*. Faculty Sponsors: Douglas Gentile *Iowa State University*.

The Impact of Roommate Separation on Academic Performance

Josh Matti *Indiana Wesleyan University*. Faculty Sponsors: Tony Parandi *Indiana Wesleyan University*.

Violence in Videogames and Experiences in High School

Shinichi Kogi *Iowa State University*, Stacie Johnson *Iowa State University*. Faculty Sponsors: Douglas Gentile *Iowa State University*.

What Undergraduate Student Spectators Want from University Sporting Events

April Mullen *Manchester University*, Emily Cattin *Manchester University*, Larissa Valdez *Manchester University*. Faculty Sponsors: Marcie Coulter-Kern *Manchester University*.

Using the Strong Interest Inventory Profile to Predict Satisfaction and Success in Student's College Experience

Lucas Al-Zoughbi *Manchester University*, Brian Anderson *Manchester University*, Allyson Smith *Manchester University*. Faculty Sponsors: Marcie Coulter-Kern *Manchester University*.

Student Preferences in Academic Advising

Megan Spice *Manchester University*, Amanda Fogle *Manchester University*. Faculty Sponsors: Marcie Coulter-Kern *Manchester University*.

The Well-Being of Parents with Children Who Attend a Center-Based Preschool Program: Implications for Parental Involvement

Haley Kavanaugh Hester *Ball State University*. Faculty Sponsors: Jill Walls *Ball State University*.

Sociology

8:45 AM - 10:00 AM Irwin Library 3rd Floor

Mapping Major-Switching Activity Among Undergraduates

Lydia Flynn *Indiana Wesleyan University*. Faculty Sponsors: Tony Parandi *Indiana Wesleyan University*.

Sex Typed Toy Analysis

Heath Lange *University of Indianapolis*. Faculty Sponsors: Greta Pennell *University of Indianapolis*.

Sustainability, Urban Ecology & Environmental Studies

8:45 AM - 10:00 AM Irwin Library 2nd Floor

Into the Darkness: Discernment of Fathead Minnow Breeding Preferences

Kristin Klocke *Thomas More College*, Craig Schutzman *Thomas More College*, Emily Myers *Thomas More College*. Faculty Sponsors: Dr. Christopher Lorentz *Thomas More College*, Dr. Emily Imhoff *Thomas More College*.

Radio Magnetic Frequency Evaluation of University's Television/Cell Tower

Victor De La Torre *Eastern Illinois University*. Faculty Sponsors: Isaac Slaven *Eastern Illinois University*.

Urban Gardening in Indianapolis: Is Our Soil Safe?

Blake Moskal *Butler University*. Faculty Sponsors: Sean Berthrong *Butler University*.

Using GIS to Model Site Location for Second Generation Ethanol Refineries

Andrew Hood *Earlham College*. Faculty Sponsors: Amélie Davis *Earlham College*.

Art Exhibit

8:30 AM - 1:00 PM Irwin Library 1st Floor

Heisenberg

Bradon Brengle *Butler University*. Faculty Sponsors: Melissa Etzler *Butler University*.

Lights Camera Action

William Heed *Butler University*. Faculty Sponsors: Steve Nyktas *Butler University*.

Inside the Mind of a Graphic Novel Artist

Joel Fuller *Butler University*. Faculty Sponsors: Robert Stapleton *Butler University*, Gautam Rao *Butler University*.

Monstrous Divinity: Finding the Holy in Unholy Spaces

Emma Landwerlen *Butler University*. Faculty Sponsors: Steve Nyktas *Butler University*.

Music Speaks

Jasmine Gonsalves *Butler University*. Faculty Sponsors: Steve Nyktas *Butler University*.

Names for Your Ghosts: Photography & Textual Art Series

Reid Bruner *Butler University*. Faculty Sponsors: Steve Nyktas *Butler University*.

Our History

Taylor Sitorius *Butler University*. Faculty Sponsors: Steve Nyktas *Butler University*.

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Fiorentini, Daniel: **Biology: Biology**

Fishbaugh, Megan: **Psychology: Aging & Cognition**

Fitzharris, Alex: **Psychology: Cognitive, Sexuality & Comparative Psychology 1**

Flynn, Lydia: **Sociology: Sociology**

Fogle, Amanda: **Psychology: Psychology**

Foist, Michael: **Communication & Media Studies: Sex and Gender in Communication Studies**

Foran, Kaitlin: **Psychology: Psychology**

Ford, Olivia: **Biochemistry & Molecular Biology: Biochemistry & Molecular Biology 4**

Fox, Nicholas: **English Literature & Creative Writing: English Literature & Creative Writing 5**

Foxvog, Sam: **Psychology: Cognitive Psychology 1**

Frank, Colleen: **Psychology: Cognitive Psychology 2**

Frantz, Kyle: **Pharmacy, Health Sciences & Exercise Science: Pharmacy, Health Sciences & Exercise Science 11**

Frantz, Renee: **Biochemistry & Molecular Biology: Biochemistry & Molecular Biology**

Freed, Alyssa: **Sociology: Sociology 1**

Freeman, Alex: **Pharmacy, Health Sciences & Exercise Science: Pharmacy, Health Sciences & Exercise Science 5**

Freund, Paige: **Psychology: Psychology of Health, Religion, & Gender 1**

Frey, Lauren: **Sociology: Sociology: Social Work Issues**

Frowein, Kathryn: **Pharmacy, Health Sciences & Exercise Science: Pharmacy, Health Sciences & Exercise Science 11**

Fuller, Joel: **Art History and Presentations: Art History and Presentations, Art Exhibition: Art Exhibition**

G

Gallion, Luke: **Chemistry: Chemistry 3**

Garrett, Ashley: **Sociology: Sociology: College Issues**

Gartrell, Stephanie: **Pharmacy, Health Sciences & Exercise Science: Pharmacy, Health Sciences & Exercise Science 3, Pharmacy, Health Sciences & Exercise Science: Pharmacy & Health Sciences**

Gawrys-Strand, Alexandra: **International Studies: International Studies**

Geanon, Catherine: **Psychology: Aging & Cognition**

Geiger, Stephanie: **Pharmacy, Health Sciences & Exercise Science: Pharmacy, Health Sciences & Exercise Science 3**

George, Jeffrey: **Pharmacy, Health Sciences & Exercise Science: Pharmacy, Health Sciences & Exercise Science 4, Pharmacy, Health Sciences & Exercise Science: Pharmacy, Health Sciences & Exercise Science 13**

George, Kyle: **English Literature & Creative Writing: English Literature & Creative Writing 4**

Gerber, Isaiah: **Psychology: Psychology of Health, Religion, & Gender 2**

Gerber, Leah: **Psychology: Environmental & I-O Psychology 1**

Gianakas, Steven: **Communication Sciences and Disorders: Communication Sciences and Disorders**

Gibbs, Delaney: **Biology: Biology: Ecology and Evolution III**

Gill, Austin: **English Literature & Creative Writing: English Literature & Creative Writing 1**

Gilpin, Olivia: **Sociology: Sociology 2**

Gipe, Jordan: **Pharmacy, Health Sciences & Exercise Science: Pharmacy, Health Sciences & Exercise Science 5**

Girod, Brandi: **Psychology: Environmental & I-O Psychology 2**

Glenchur, Mark: **History: Disciplines of the Body: Corporeality and Its Histories**

Glenn, Alexandra: **Psychology: Psychology**

Glorioso, Elizabeth: **Music: Music - 4**

Golder, Briana: **Psychology: Environmental & I-O Psychology 2**

Goldsberry, Audra: **Pharmacy, Health Sciences & Exercise Science: Pharmacy, Health Sciences & Exercise Science 9, Pharmacy, Health Sciences & Exercise Science: Pharmacy, Health Sciences & Exercise Science 14, Pharmacy, Health Sciences & Exercise Science: Pharmacy & Health Sciences**

Gonsalves, Jasmine: **Art History and Presentations: Art History and Presentations, Art Exhibition: Art Exhibition**

Gossen, John: **Biology: Biology: Ecology and Evolution I**

Gouwens, Janelle: **Psychology: Cognitive, Sexuality & Comparative Psychology 1**

Green, Holly: **Biology: Biology**

Green, Nicole: **Biochemistry & Molecular Biology: Biochemistry & Molecular Biology 3**

Gregory, Eric: **Pharmacy, Health Sciences & Exercise Science: Pharmacy & Health Sciences**

Gregory, Eric: **Pharmacy, Health Sciences & Exercise Science: Pharmacy & Health Sciences**

Grimes, Rebecca: **Psychology: Environmental & I-O Psychology 2**

Gritzman, Allison: **Pharmacy, Health Sciences & Exercise Science: Pharmacy, Health Sciences & Exercise Science 14**

Guckes, Kirsten R.: **Biochemistry & Molecular Biology: Biochemistry & Molecular Biology 1**

Gurdasani, Simran: **Biology: Biology: Ecology and Evolution I**

Gutierrez, Kristin: **Business & Economics: Business & Economics 1**

H

Haas, Sam: **Psychology: Cognitive, Sexuality & Comparative Psychology 2**

Hadjifrangiskou, Maria: **Biochemistry & Molecular Biology: Biochemistry & Molecular Biology 1**

Haeberlein, Kristen: **Psychology: Psychology of Health, Religion, & Gender 1**

Hahn, Rachel: **Modern Foreign Language: Hispanic Studies 1**

Haisley, Shelby: **Psychology: Aging & Cognition**

Hale, Christine: **Sociology: Sociology: Social Work Issues**

Hale, Seth: **English Literature & Creative Writing: English Literature & Creative Writing 4**

Halter, Philip: **Pharmacy, Health Sciences & Exercise Science: Pharmacy, Health Sciences & Exercise Science 7**

Hamm, Zach: **Chemistry: Chemistry 1**

Hancock, Erin: **Chemistry: Chemistry 1, Chemistry: Chemistry 2**

Handtke, James: **Chemistry: Chemistry 1**

Hanlon, John: **Communication & Media Studies: Communication in (and Across) Environments**

Hansen, Heather: **Biochemistry & Molecular Biology: Biochemistry & Molecular Biology**

Hansen, Matthew: **Pharmacy, Health Sciences & Exercise Science: Pharmacy, Health Sciences & Exercise Science 11, Pharmacy, Health Sciences & Exercise Science: Pharmacy & Health Sciences**

Hanson, Carly: **Chemistry: Chemistry 2**

Harless, Rachael: **Pharmacy, Health Sciences & Exercise Science: Pharmacy, Health Sciences & Exercise Science 14**

Harmeyer, Ashley: **Pharmacy, Health Sciences & Exercise Science: Pharmacy, Health Sciences & Exercise Science 10**

Harmon, Eric: **Pharmacy, Health Sciences & Exercise Science: Pharmacy, Health Sciences & Exercise Science 13**

Harpring, Allison: **Pharmacy, Health Sciences & Exercise Science: Pharmacy, Health Sciences & Exercise Science 2, Pharmacy, Health Sciences & Exercise Science: Pharmacy, Health Sciences & Exercise Science 6**

Harris, Grey: **Political Science: Local, State, and International Politics**

Harrison, Morgan: **Biochemistry & Molecular Biology: Biochemistry & Molecular Biology**

Hart, Whitney: **Biochemistry & Molecular Biology: Biochemistry & Molecular Biology**

Haslem, Lauren: **History: History**

Hautsch, Stephanie: **Chemistry: Chemistry 1**

Havrilla, Madeline: **Biology: Biology**

Hawa, Nadine: **Pharmacy, Health Sciences & Exercise Science: Pharmacy, Health Sciences & Exercise Science 13**

Hayes, Natalie: **Sociology: Sociology: Social Work Issues**

Hayes, Olivia: **Education: Education**

Hays, Danialle: **Modern Foreign Language: Hispanic Studies 2**

Headrick, Maris: **Psychology: Psychology of Health, Religion, & Gender 2**

Hebert, Joey: **Biochemistry & Molecular Biology: Biochemistry & Molecular Biology 4**

Hedrick, Ashley: **Biology: Biology: Ecology and Evolution I**

Hedrick, Ashley: **Biology: Biology: Cellular Physiology I**

Hedrick, Ashley: **Biology: Biology: Ecology and Evolution II**

Heed, William: **Art History and Presentations: Art History and Presentations, Art Exhibition: Art Exhibition**

Hekmat, Rezzan: **Biochemistry & Molecular Biology: Biochemistry & Molecular Biology 3**

Held, Christopher: **International Studies: International Studies**

Helm, Lindsey: **Pharmacy, Health Sciences & Exercise Science: Pharmacy, Health Sciences & Exercise Science 16**

Helms, Jordan: **Biology: Biology: Genetics and Microbiology**

Helt, Rachel: **Communication & Media Studies: Communication & Media Studies**

Hency, Maegan: **Pharmacy, Health Sciences & Exercise Science: Pharmacy, Health Sciences & Exercise Science 2**

Henderson, Paul: **Philosophy and Religion: Philosophy and Religion**

Henning, Laura: **English Literature & Creative Writing: English Literature & Creative Writing 1**

Hibshman, Adam: **Physics & Astronomy: Physics & Astronomy 1**

Higbie, Campbell: **Chemistry: Chemistry 1**

Hildebrandt, Emily: **Sociology: Sociology: Social Issues**

Hillman, Ethan: **Chemistry: Chemistry 2**

Hirsch, Andy: **Sociology: Sociology 3**

Hlebasko, Hanna: **Psychology: Psychology**

Hoang, Giang: **Biology: Biology**

Hodgen, Lindsey: **Pharmacy, Health Sciences & Exercise Science: Pharmacy & Health Sciences**

Hoger, Mitchell: **Psychology: Psychology**

Holder, Trafton: **Pharmacy, Health Sciences & Exercise Science: Pharmacy, Health Sciences & Exercise Science 16, Biochemistry & Molecular Biology: Biochemistry & Molecular Biology**

Holland, Kylie: **Pharmacy, Health Sciences & Exercise Science: Pharmacy, Health Sciences & Exercise Science 9, Pharmacy, Health Sciences & Exercise Science: Pharmacy, Health Sciences & Exercise Science 14, Pharmacy, Health Sciences & Exercise Science: Pharmacy & Health Sciences**

Holmes, Rachel: **Sociology: Sociology 2**

Holt, John: **Biology: Biology: Ecology and Evolution I**

Holte, Andy: **Biochemistry & Molecular Biology: Biochemistry & Molecular Biology 4**

Hood, Andrew: **Biology: Biology: Ecology and Evolution I, Sustainability, Urban Ecology & Environmental Studies: Sustainability, Urban Ecology & Environmental Studies**

Horn, Cameron: **Pharmacy, Health Sciences & Exercise Science: Pharmacy, Health Sciences & Exercise Science 13**

Horn, Cameron: **Pharmacy, Health Sciences & Exercise Science: Pharmacy, Health Sciences & Exercise Science 7**

Horna, Anne: **Psychology: Psychology**

Horner, Kinsey: **Sociology: Sociology 1**

Horth, Madison: **Psychology: Cognitive Psychology 2**

Horton, Tayler: **Sociology: Sociology 3**

Hosack, Megan: **Modern Foreign Language: Hispanic Studies 2**

House, Rachael: **Pharmacy, Health Sciences & Exercise Science: Pharmacy, Health Sciences & Exercise Science 4**

Howard Crowson, George: **Mathematics and Computer Science: Mathematics & Computer Science**

Howell, Kiersten: **Music: Music - 3**

Hsu, Alicia: **Biology: Biology: Cellular Physiology II**

Hudkins, AJ: **Psychology: Psychology**

Hunt, Perry: **Dance and Theatre: Dance and Theatre**

Hunt, Tyana: **Psychology: Psychology of Health, Religion, & Gender 2**

Husting, Claire: **Political Science: Local, State, and International Politics**

Huyette, Noah Jake: **Anthropology: Authenticity, Identity, and Citizenship**

I

Imholte, Makenna: **Communication & Media Studies: Critical/Cultural Approaches to Media Studies**

Inabnitt, Jessica: **Anthropology: From Public City to 'Philanthropolis': Comparing Two Models for Downtown Development in Indianapolis**

Irzyk, Samantha: **English Literature & Creative Writing: English Literature & Creative Writing 5**

Isaacs, Alex: **Pharmacy, Health Sciences & Exercise Science: Pharmacy, Health Sciences & Exercise Science 8**

Ison, Victoria: **Modern Foreign Language: Hispanic Studies 1**

J

Jackson, Nicholas: **Pharmacy, Health Sciences & Exercise Science: Pharmacy, Health Sciences & Exercise Science 6**

Johnson, Brynne: **Sociology: Sociology 3**

Johnson, Heather: **Chemistry: Chemistry 2**

Johnson, Madison: **Psychology: Psychology of Health, Religion, & Gender 2**

Johnson, Morgan: **Communication Sciences and Disorders: Communication Sciences & Disorders**

Johnson, Stacie: **Psychology: Psychology**

Johnson, Tracy: **Gender, Women & Sexuality Studies: Gender, Women & Sexuality Studies Panel One**

Jones, Brayton: **Pharmacy, Health Sciences & Exercise Science: Pharmacy, Health Sciences & Exercise Science 11**

Jones, Callen: **Psychology: Cognitive, Sexuality & Comparative Psychology 1**

Jones, Kelsey: **Psychology: Cognitive Psychology 2**

Jue, Catherine: **Dance and Theatre: Dance and Theatre**

Juett, Jacqueline: **Psychology: Aging & Cognition, Psychology: Aging & Cognition**

Jungclaus, Abbey: **Pharmacy, Health Sciences & Exercise Science: Pharmacy, Health Sciences & Exercise Science 2, Pharmacy, Health Sciences & Exercise Science: Pharmacy, Health Sciences & Exercise Science 6**

K

Kabazie, Jaclyn: **Psychology: Psychology of Health, Religion, & Gender 2**

Kacur, Taylor: **Business & Economics: Business & Economics**

Kaelo, Moses: **Psychology: Cognitive Psychology 1**

Kaiser, Rachel: **Biology: Biology**

Karazsia, Lauren: **Pharmacy, Health Sciences & Exercise Science: Pharmacy, Health Sciences & Exercise Science 6, Pharmacy, Health Sciences & Exercise Science: Pharmacy & Health Sciences**

Karmire, Lauren: **Pharmacy, Health Sciences & Exercise Science: Pharmacy, Health Sciences & Exercise Science 3**

Kaske, Shauna: **Music: Music - 6**

Kasting, Benjamin: **Chemistry: Chemistry 2**

Katz, Ian: **Psychology: Environmental & I-O Psychology 1**

Kavanaugh Hester, Haley: **Psychology: Psychology**

Kay, Frances: **Psychology: Psychology of Health, Religion, & Gender 1**

Kellams, Taryn: **Pharmacy, Health Sciences & Exercise Science: Pharmacy, Health Sciences & Exercise Science 15**

Kendall, Ellen: **Psychology: Aging & Cognition**

Kendzierski, Dan: **Pharmacy, Health Sciences & Exercise Science: Pharmacy, Health Sciences & Exercise Science 12**

Kennedy, Nathaniel: **Biochemistry & Molecular Biology: Biochemistry & Molecular Biology**

Kennedy, Troy: **Sustainability, Urban Ecology & Environmental Studies: Sustainability, Urban Ecology & Environmental Studies**

Kennel, Katrina: **Psychology: Cognitive Psychology 1**

Kershaw, Christine: **Psychology: Cognitive, Sexuality & Comparative Psychology 1, Psychology: Aging & Cognition, Psychology: Psychology**

Khan, Abdul Karim: **Pharmacy, Health Sciences & Exercise Science: Pharmacy & Health Sciences**

Kim, Doh-Kyung: **Biology: Biology**

Kim, Hyeon Jin: **Pharmacy, Health Sciences & Exercise Science: Pharmacy, Health Sciences & Exercise Science 11, Pharmacy, Health Sciences & Exercise Science: Pharmacy, Health Sciences & Exercise Science 15**

Kincaid, Katie: **Psychology: Cognitive Psychology 2**

Kincaid, Katie: **Psychology: Developmental and Educational Psychology 1**

King, Michelle: **International Studies: International Studies**

Kinnavy, Ryan: **Pharmacy, Health Sciences & Exercise Science: Pharmacy, Health Sciences & Exercise Science 12**

Kirk, Maia: **Biochemistry & Molecular Biology: Biochemistry & Molecular Biology 3**

Kirkpatrick, Kathryn: **Biology: Biology**

Kline, Ashley: **Biology: Biology: Cellular Physiology II**

Klocke, Kristin: **Sustainability, Urban Ecology & Environmental Studies: Sustainability, Urban Ecology & Environmental Studies**

Klondaris, Hanna: **Biology: Biology: Ecology and Evolution II**

Kluesener, Julie: **Pharmacy, Health Sciences & Exercise Science: Pharmacy, Health Sciences & Exercise Science 2**

Kmet, Alyssa: **Pharmacy, Health Sciences & Exercise Science: Pharmacy & Health Sciences**

Knaus, Bethany: **Pharmacy, Health Sciences & Exercise Science: Pharmacy, Health Sciences & Exercise Science 4, Pharmacy, Health Sciences & Exercise Science: Pharmacy, Health Sciences & Exercise Science 13**

Knaus, Kevin: **Pharmacy, Health Sciences & Exercise Science: Pharmacy, Health Sciences & Exercise Science 4, Pharmacy, Health Sciences & Exercise Science: Pharmacy, Health Sciences & Exercise Science 13**

Knight, Brian: **Sociology: Sociology: College Issues**

Knowles, Katherine: **English Literature & Creative Writing: English Literature & Creative Writing 5**

Koehn, Zachary: **Psychology: Psychology**

Kogi, Shinichi: **Psychology: Psychology**

Kolnik, Julie: **Biochemistry & Molecular Biology: Biochemistry & Molecular Biology**

Krabach, Emily: **English Literature & Creative Writing: English Literature & Creative Writing 5**

Kraska, Kim: **Pharmacy, Health Sciences & Exercise Science: Pharmacy, Health Sciences & Exercise Science 15**

Kreyden, Victoria: **Biochemistry & Molecular Biology: Biochemistry & Molecular Biology**

Kriege, Mitchell: **Biology: Biology**

Krishna, Avantika: **Communication & Media Studies: Communication in (and Across) Environments**

Ksiazkiewicz, Jenna: **Pharmacy, Health Sciences & Exercise Science: Pharmacy, Health Sciences & Exercise Science 5**

Kulhanek, Alyssa: **Business & Economics: Business & Economics 2**

Kuseliauskas, Gintas: **Pharmacy, Health Sciences & Exercise Science: Pharmacy, Health Sciences & Exercise Science 11, Pharmacy, Health Sciences & Exercise Science: Pharmacy, Health Sciences & Exercise Science 12**

L

LaTorre, Nicholas: **Psychology: Psychology**

Lahey, Jeremy: **Anthropology: From Public City to 'Philanthropolis': Comparing Two Models for Downtown Development in Indianapolis**

Lambert, Isabella: **Biology: Biology**

Landwerlen, Emma: **Art History and Presentations: Art History and Presentations, History: History, Art Exhibition: Art Exhibition**

Lane, Adam: **Pharmacy, Health Sciences & Exercise Science: Pharmacy, Health Sciences & Exercise Science 6**

Lange, Heath: **Sociology: Sociology**

Langley, Sam: **Psychology: Clinical & Personality Psychology 2**

Lauriola, Daniel: **Physics & Astronomy: Physics & Astronomy**

LeCclair, Lisa: **Pharmacy, Health Sciences & Exercise Science: Pharmacy, Health Sciences & Exercise Science 6**

Lecklider, Michelle: **Chemistry: Chemistry 1**

Ledeboer, Becca: **Sociology: Sociology: Social Work Issues**

Lee, Chelsea: **Biology: Biology: Ecology and Evolution II**

Leggett, Caniece: **Psychology: Psychology**

Leichty, Sarah: **English Literature & Creative Writing: English Literature & Creative Writing 4**

Leininger, Caleb: **Business & Economics: Business & Economics 1**

Lengacher, Lucas: **Psychology: Developmental and Educational Psychology 1**

Leone, Callie: **Classical Studies: Classical Studies**

Lester, Daniel: **Biochemistry & Molecular Biology: Biochemistry & Molecular Biology 3**

Letfullin, Alla: **Physics & Astronomy: Physics & Astronomy 2**

Levine, Julia: **Dance and Theatre: Dance and Theatre**

Levy, Léa: **Anthropology: Authenticity, Identity, and Citizenship, Modern Foreign Language: German 3**

Lewis, Brittany: **Pharmacy, Health Sciences & Exercise Science: Pharmacy, Health Sciences & Exercise Science 10**

Lines, Laura: **Sociology: Sociology: Social Issues**

Lines, Laura: **Classical Studies: Classical Studies**

Linkhart, Ashley: **Gender, Women & Sexuality Studies: Gender, Women & Sexuality Studies Panel Two**

Linneman, Julie: **English Literature & Creative Writing: English Literature & Creative Writing 1**

Linos, Viviane: **Gender, Women & Sexuality Studies: Gender, Women & Sexuality Studies Panel One**

Lipman, Caitlin: **Psychology: Cognitive Psychology 2**

Lively, Morgan: **Pharmacy, Health Sciences & Exercise Science: Pharmacy, Health Sciences & Exercise Science 13**

Long, Eileen: **English Literature & Creative Writing: English Literature & Creative Writing 6**

Los, Erica: **Psychology: Cognitive, Sexuality & Comparative Psychology 1**

Lott, Devon: **Sociology: Sociology 1**

Lovell, Carisa: **Education: Education**

Lowry, William: **Physics & Astronomy: Physics & Astronomy**

Luc, Anastasia: **Education: Teaching Exceptional Students**

Ludwig, Cole: **Education: Education**

Lyon, Erin: **Psychology: Environmental & I-O Psychology 2**

Lyons, Nicole: **Psychology: Aging & Cognition, Psychology: Cognitive, Sexuality & Comparative Psychology 2**

M

Machado, Julia: **Psychology: Cognitive, Sexuality & Comparative Psychology 2**

Mackowiak, Missy: **Psychology: Clinical & Personality Psychology 2**

Maddalozzo, Tadd: **Psychology: Aging & Cognition**

Maher, Jordan: **Sociology: Sociology 2**

Mahl, Kait: **Education: Education**

Manfredi, Emmanuelle: **Psychology: Cognitive Psychology 1, Psychology: Cognitive Psychology 1**

Mangano, Jessica: **Psychology: Cognitive, Sexuality & Comparative Psychology 2, Psychology: Psychology**

Manion, Kelsea: **Sociology: Sociology: Social Work Issues**

Marquez, Dara: **Chemistry: Chemistry 3**

Marron, Jillian: **Psychology: Cognitive, Sexuality & Comparative Psychology 1, Psychology: Aging & Cognition**

Marsh, Julia: **Education: Education**

Marshall, Ashley Ann: **Psychology: Cognitive, Sexuality & Comparative Psychology 1**

Marsili, E. Thomasina: **Psychology: Psychology**

Martell, Jordan: **Psychology: Clinical & Personality Psychology 1**

Martin, Page: **Biochemistry & Molecular Biology: Biochemistry & Molecular Biology**

Martin, Sheila: **Gender, Women & Sexuality Studies: Gender, Women & Sexuality Studies Panel One**

Martin, Taylor: **Psychology: Cognitive Psychology 1**

Matti, Josh: **Psychology: Psychology**

Mattingly, Jack: **Psychology: Psychology**

Mayhew, Megan: **Pharmacy, Health Sciences & Exercise Science: Pharmacy, Health Sciences & Exercise Science 7**

McCloud, Karsen: **Psychology: Clinical & Personality Psychology 1**

McClure, Hannah: **Sociology: Sociology 3**

McCubbins, Kelli: **Pharmacy, Health Sciences & Exercise Science: Pharmacy, Health Sciences & Exercise Science 8**

McDonnell, Timothy: **Classical Studies: Classical Studies**

McGrath, Jackson: **Chemistry: Chemistry 1**

McGuffey, Alyssa: **Biology: Biology: Genetics and Microbiology**

McHugh, Krista: **Pharmacy, Health Sciences & Exercise Science: Pharmacy, Health Sciences & Exercise Science 9, Pharmacy, Health Sciences & Exercise Science: Pharmacy, Health Sciences & Exercise Science 14, Pharmacy, Health Sciences & Exercise Science: Pharmacy & Health Sciences**

McIntosh, Brandon: **Mathematics and Computer Science: Mathematics and Computer Science 2**

McKary, Magy: **Biochemistry & Molecular Biology: Biochemistry & Molecular Biology**

McKee, Hannah: **Sociology: Sociology: College Issues**

McKenzie, B. Quinn: **Modern Foreign Language: German 1**

McLean, James: **Psychology: Psychology**

McLeland, Ryan: **Pharmacy, Health Sciences & Exercise Science: Pharmacy, Health Sciences & Exercise Science 9**

McMichael, Samantha: **Biology: Biology: Genetics and Microbiology**

McRoberts, Sarah: **Psychology: Aging & Cognition**

Meaden, Sean: **Music: Music - 6**

Medas, Ryan: **Pharmacy, Health Sciences & Exercise Science: Pharmacy, Health Sciences & Exercise Science 12**

Medrano, Eric: **Biology: Biology: Ecology and Evolution II**

Medrano, Eric: **Biology: Biology**

Meinen, Hannah: **Pharmacy, Health Sciences & Exercise Science: Pharmacy, Health Sciences & Exercise Science 1**

Meredith, Mark: **Chemistry: Chemistry 2**

Merrick, Elizabeth: **Pharmacy, Health Sciences & Exercise Science: Pharmacy, Health Sciences & Exercise Science 12**

Merrill, Andrew: **Biochemistry & Molecular Biology: Biochemistry & Molecular Biology**

Mersmann, Molly: **History: Homefronts and Cold Fronts: Reassessing the Meanings of War**

Messersmith, Chris: **Mathematics and Computer Science: Mathematics and Computer Science 2**

Meyer, Alexandra: **Biology: Biology**

Meyer, Brooke: **Biochemistry & Molecular Biology: Biochemistry & Molecular Biology**

Milius, Paul: **Psychology: Cognitive Psychology 1**

Miller, Christopher: **Psychology: Psychology**

Miller, Jimmy: **Physics & Astronomy: Physics & Astronomy 1**

Miller, Kalee: **Psychology: Psychology**

Miller, Kent: **Chemistry: Chemistry 2**

Miller, Matthew: **Pharmacy, Health Sciences & Exercise Science: Pharmacy, Health Sciences & Exercise Science 4**

Miller, Matthew: **Pharmacy, Health Sciences & Exercise Science: Pharmacy, Health Sciences & Exercise Science 13**

Miller, Seth: **Psychology: Clinical & Personality Psychology 2**

Miller, Shelby: **Biology: Biology**

Miller, Taylor: **Pharmacy, Health Sciences & Exercise Science: Pharmacy, Health Sciences & Exercise Science 5**

Millington, Heather: **Psychology: Developmental and Educational Psychology 2**

Miranda, Giuseppe: **Psychology: Cognitive, Sexuality & Comparative Psychology 1, Psychology: Aging & Cognition**

Moffett, Rachel: **Pharmacy, Health Sciences & Exercise Science: Pharmacy, Health Sciences & Exercise Science 10**

Mohler, Kyle: **Pharmacy, Health Sciences & Exercise Science: Pharmacy, Health Sciences & Exercise Science 13**

Mohler, Kyle: **Pharmacy, Health Sciences & Exercise Science: Pharmacy, Health Sciences & Exercise Science 7**

Molfese, Dennis: **Psychology: Cognitive Psychology 2**

Moore, Alexis: **Psychology: Cognitive Psychology 2**

Moore, Jasmine: **Chemistry: Chemistry 2**

Morgan, Kate: **Psychology: Cognitive, Sexuality & Comparative Psychology 2**

Morris, Alex: **Pharmacy, Health Sciences & Exercise Science: Pharmacy, Health Sciences & Exercise Science 12**

Morris, Jill: **Pharmacy, Health Sciences & Exercise Science: Pharmacy, Health Sciences & Exercise Science 8**

Moskal, Blake: **Sustainability, Urban Ecology & Environmental Studies: Sustainability, Urban Ecology & Environmental Studies**

Moulton, Zane: **Communication & Media Studies: Critical/Cultural Approaches to Media Studies**

Mowery, Rachel: **Pharmacy, Health Sciences & Exercise Science: Pharmacy, Health Sciences & Exercise Science 16**

Mulder, Ashleigh: **Communication & Media Studies: Sex and Gender in Communication Studies**

Mullen, April: **Psychology: Psychology**

Munneke, Allyson: **Psychology: Cognitive, Sexuality & Comparative Psychology 1, Biochemistry & Molecular Biology: Biochemistry & Molecular Biology**

Murphy, Caitlin: **Pharmacy, Health Sciences & Exercise Science: Pharmacy, Health Sciences & Exercise Science 3**

Mushrush, Anne: **Dance and Theatre: Dance and Theatre**

Muterspaw, Kristin: **Mathematics and Computer Science: Mathematics & Computer Science**

Myers, Emily: **Sustainability, Urban Ecology & Environmental Studies: Sustainability, Urban Ecology & Environmental Studies**

N

Naing, Soe Yu: **Psychology: Psychology**

Nanney, Stefanie: **Psychology: Cognitive, Sexuality & Comparative Psychology 1**

Nebiolo, Molly: **History: Disciplines of the Body: Corporeality and Its Histories**

Neeb, Stephanie: **Sociology: Sociology: Social Work Issues**

Neff, Gary: **Psychology: Developmental and Educational Psychology 2**

Nelson, Megan: **Psychology: Cognitive, Sexuality & Comparative Psychology 1**

Neuman, Nicole: **Modern Foreign Language: German 2**

Nevils, Bre: **Psychology: Clinical & Personality Psychology 1**

Newman, Terri: **Pharmacy, Health Sciences & Exercise Science: Pharmacy, Health Sciences & Exercise Science 14**

Newman, Terri: **Pharmacy, Health Sciences & Exercise Science: Pharmacy & Health Sciences**

Newsome, Eleni: **Psychology: Cognitive, Sexuality & Comparative Psychology 1**

Ngo, Alyssa: **Education: Education**

Nguyen, Felicia: **Chemistry: Chemistry 2**

Nguyen, Hao: **Education: Education**

Nienhaus, Kayla: **Modern Foreign Language: German 3**

Nuhring, Chelsie: **Psychology: Environmental & I-O Psychology 2**

Nusinow, Natalie: **Psychology: Psychology of Health, Religion, & Gender 1**

Nyhoff, Sarah: **Sociology: Sociology 2**

O

O'Brien, Jackson: **Physics & Astronomy: Physics & Astronomy**

O'Brien, Matthew: **Education: Teaching Exceptional Students**

O'Mara, Julie: **Modern Foreign Language: German 1**

O'Neill, Dani: **Pharmacy, Health Sciences & Exercise Science: Pharmacy, Health Sciences & Exercise Science 10**

O'Neill, Dani: **Biochemistry & Molecular Biology: Biochemistry & Molecular Biology**

Oh, Chin Ai: **Political Science: Local, State, and International Politics, Political Science: Political Science**

Olivero, Alexander: **Mathematics and Computer Science: Mathematics and Computer Science 1**

Olson, Kara: **Biology: Biology**

Omohundro, Sara: **Business & Economics: Business & Economics 2**

Ostrem, Jamie: **Pharmacy, Health Sciences & Exercise Science: Pharmacy, Health Sciences & Exercise Science 1**

Owensby, Derek: **Pharmacy, Health Sciences & Exercise Science: Pharmacy, Health Sciences & Exercise Science 12**

P

Pajkos, Michael: **Physics & Astronomy: Physics & Astronomy 1**

Palmer, William: **Psychology: Developmental and Educational Psychology 2**

Pan, Stephanie: **Modern Foreign Language: German 2**

Pancholi, Harshida: **Biology: Biology**

Pate, Sydney: **Chemistry: Chemistry 1**

Patel, Meera: **Biochemistry & Molecular Biology: Biochemistry & Molecular Biology**

Patel, Puja: **Pharmacy, Health Sciences & Exercise Science: Pharmacy, Health Sciences & Exercise Science 16**

Patterson, Noah: **History: Disciplines of the Body: Corporeality and Its Histories**

Paulsen, Justin: **Psychology: Psychology**

Paulus, Ryan: **Pharmacy, Health Sciences & Exercise Science: Pharmacy, Health Sciences & Exercise Science 14**

Pearman, Tristan: **Biochemistry & Molecular Biology: Biochemistry & Molecular Biology**

Peed, Abraham: **Pharmacy, Health Sciences & Exercise Science: Pharmacy, Health Sciences & Exercise Science 12**

Peiffer, Vince: **Pharmacy, Health Sciences & Exercise Science: Pharmacy, Health Sciences & Exercise Science 3**

Penk , Gabriel: **Biology: Biology: Ecology and Evolution III**

Pennington, Laura: **Education: Education**

Perry, Stephanie: **Biology: Biology: Genetics and Microbiology**

Peterman, Alexis: **Psychology: Psychology**

Peterson, Dan: **Pharmacy, Health Sciences & Exercise Science: Pharmacy & Health Sciences**

Pezan, Ashley: **English Literature & Creative Writing: English Literature & Creative Writing 6**

Pfleiderer, Sarah: **Gender, Women & Sexuality Studies: Gender, Women & Sexuality Studies Panel Two**

Phillips, Preston: **History: Homefronts and Cold Fronts: Reassessing the Meanings of War**

Piatek, Rick: **Pharmacy, Health Sciences & Exercise Science: Pharmacy, Health Sciences & Exercise Science 16**

Pineiro, Justin: **Psychology: Cognitive, Sexuality & Comparative Psychology 1**

Polley, Sarah: **Pharmacy, Health Sciences & Exercise Science: Pharmacy, Health Sciences & Exercise Science 5**

Poore, Jon: **Pharmacy, Health Sciences & Exercise Science: Pharmacy, Health Sciences & Exercise Science 6**

Poure, Paige: **Psychology: Psychology of Health, Religion, & Gender 1**

Prather, Logan: **Classical Studies: Classical Studies**

Prather, Zachary: **Psychology: Clinical & Personality Psychology 2**

Pressel, Heather: **Pharmacy, Health Sciences & Exercise Science: Pharmacy, Health Sciences & Exercise Science 15**

Price, Anneke: **Psychology: Aging & Cognition**

Price, Max: **Political Science: Local, State, and International Politics, Political Science: Political Science**

Prout, John: **Pharmacy, Health Sciences & Exercise Science: Pharmacy, Health Sciences & Exercise Science 9**

Prout, John: **Pharmacy, Health Sciences & Exercise Science: Pharmacy, Health Sciences & Exercise Science 4**

Pua, Eshan: **Communication Sciences and Disorders: Communication Sciences and Disorders**

Puga, Renato: **Psychology: Cognitive Psychology 2**

Purdum, Elizabeth: **Psychology: Psychology**

Pyclik, Stuart: **History: Homefronts and Cold Fronts: Reassessing the Meanings of War**

Q

Quigley, Colleen: **Biochemistry & Molecular Biology: Biochemistry & Molecular Biology**

R

Rabellino, Alessandra: **Psychology: Aging & Cognition**

Rabin, Perry: **Biochemistry & Molecular Biology: Biochemistry & Molecular Biology 2**

Radcliffe, Ellen: **Sustainability, Urban Ecology & Environmental Studies: Sustainability, Urban Ecology & Environmental Studies**

Ragsdale, Emily: **Education: Education**

Ralston, Elizabeth: **Psychology: Aging & Cognition**

Ramirez, Courtney: **English Literature & Creative Writing: English Literature & Creative Writing 5**

Raval, Jimesh: **Pharmacy, Health Sciences & Exercise Science: Pharmacy & Health Sciences**

Recard, Caitlin: **History: In the Shadow of War: Politics, Strategy and Legacies**

Recker, Anna: **Pharmacy, Health Sciences & Exercise Science: Pharmacy, Health Sciences & Exercise Science 4, Pharmacy, Health Sciences & Exercise Science: Pharmacy, Health Sciences & Exercise Science 9**

Reinhiller, Jayne: **History: Disciplines of the Body: Corporeality and Its Histories**

Rennekamp, Emily: **Pharmacy, Health Sciences & Exercise Science: Pharmacy, Health Sciences & Exercise Science 10**

Repak, Miroslava: **Chemistry: Chemistry 2**

Reuille, Danielle: **Biology: Biology**

Reynolds, Megan: **Psychology: Psychology of Health, Religion, & Gender 2**

Ribbens, Karyn: **Psychology: Aging & Cognition**

Rich, Noelle: **Psychology: Developmental and Educational Psychology 1**

Richards, Marla: **Sociology: Sociology: Social Work Issues**

Richardson, Emily: **Biology: Biology, Biology: Biology**

Richert, Charlie: **Political Science: Local, State, and International Politics, Political Science: Political Science**

Richter, Bryan: **History: In the Shadow of War: Politics, Strategy and Legacies**

Rick, Mitchell: **History: Histories of Freedom: Moving Between Theory and Praxis in the American Century**

Ricketts, Tabitha: **Chemistry: Chemistry 3, Mathematics and Computer Science: Mathematics and Computer Science 2, Mathematics and Computer Science: Mathematics & Computer Science**

Rigg, Stefanie: **Biochemistry & Molecular Biology: Biochemistry & Molecular Biology**

Riley, Michelle: **Pharmacy, Health Sciences & Exercise Science: Pharmacy, Health Sciences & Exercise Science 2**

Ritchie, Karleen: **Pharmacy, Health Sciences & Exercise Science: Pharmacy, Health Sciences & Exercise Science 14**

Roberts, Sean: **Pharmacy, Health Sciences & Exercise Science: Pharmacy, Health Sciences & Exercise Science 1**

Robinson, Kaitlyn: **Pharmacy, Health Sciences & Exercise Science: Pharmacy, Health Sciences & Exercise Science 14**

Robinson, Megan: **Sociology: Sociology 2**

Robinson-Norris, Alexandra: **Psychology: Cognitive Psychology 2**

Roden, Kelly: **Pharmacy, Health Sciences & Exercise Science: Pharmacy, Health Sciences & Exercise Science 11**

Rosete, Kelly: **History: In the Shadow of War: Politics, Strategy and Legacies**

Rosheck, Alyssa: **Biochemistry & Molecular Biology: Biochemistry & Molecular Biology**

Roth, Alex: **Pharmacy, Health Sciences & Exercise Science: Pharmacy, Health Sciences & Exercise Science 14**

Roush, Zach: **Mathematics and Computer Science: Mathematics & Computer Science**

Ruffolo, Emily: **Psychology: Cognitive, Sexuality & Comparative Psychology 1**

Rush, Kristen: **Biochemistry & Molecular Biology: Biochemistry & Molecular Biology 3, Biochemistry & Molecular Biology: Biochemistry & Molecular Biology**

Russell, Arielle: **Biochemistry & Molecular Biology: Biochemistry & Molecular Biology 2**

Russell, William: **History: Homefronts and Cold Fronts: Reassessing the Meanings of War**

S

Sage, Dan: **Pharmacy, Health Sciences & Exercise Science: Pharmacy, Health Sciences & Exercise Science 8**

Sanson, Derek: **Political Science: Local, State, and International Politics, Political Science: Political Science**

Sauber, Milly: **Classical Studies: Classical Studies**

Saunders, Jaclyn: **Psychology: Cognitive, Sexuality & Comparative Psychology 1**

Scales, Jordan: **Sociology: Sociology: Social Work Issues**

Scherf, Rachael: **Sociology: Sociology 3**

Schlie, Ben: **Pharmacy, Health Sciences & Exercise Science: Pharmacy, Health Sciences & Exercise Science 13**

Schlie, Ben: **Pharmacy, Health Sciences & Exercise Science: Pharmacy, Health Sciences & Exercise Science 7**

Schmicker, Caleb: **Chemistry: Chemistry 3**

Schmid, Luke: **Biology: Biology**

Schmidt, Miranda: **Biochemistry & Molecular Biology: Biochemistry & Molecular Biology**

Schneider, Madeleine: **Psychology: Cognitive, Sexuality & Comparative Psychology 1**

Schoedel, Marissa: **Modern Foreign Language: German 1**

Schrock, Jarod: **Psychology: Psychology**

Schueler, Megan: **Psychology: Environmental & I-O Psychology 2**

Schulz, Courtney: **Pharmacy, Health Sciences & Exercise Science: Pharmacy, Health Sciences & Exercise Science 5**

Schutzman, Craig: **Sustainability, Urban Ecology & Environmental Studies: Sustainability, Urban Ecology & Environmental Studies**

Schwager, Lisa: **Psychology: Cognitive, Sexuality & Comparative Psychology 2**

Schwarz, Joe: **Pharmacy, Health Sciences & Exercise Science: Pharmacy, Health Sciences & Exercise Science 6**

Schwinghammer, Amy: **Pharmacy, Health Sciences & Exercise Science: Pharmacy, Health Sciences & Exercise Science 8**

Sciarra, Braden: **Biochemistry & Molecular Biology: Biochemistry & Molecular Biology 1**

Scott, Rachel: **Pharmacy, Health Sciences & Exercise Science: Pharmacy, Health Sciences & Exercise Science 3**

Scott, Rachel: **Pharmacy, Health Sciences & Exercise Science: Pharmacy & Health Sciences**

Scott, Sarah: **Biochemistry & Molecular Biology: Biochemistry & Molecular Biology 3**

Sean, Roberts: **Pharmacy, Health Sciences & Exercise Science: Pharmacy, Health Sciences & Exercise Science 11**

Sears, Addison: **Pharmacy, Health Sciences & Exercise Science: Pharmacy & Health Sciences**

Selle , Courtney: **History: Histories of Freedom: Moving Between Theory and Praxis in the American Century**

Senac, Elizabeth: **Mathematics and Computer Science: Mathematics and Computer Science 1**

Servais, Drew: **Pharmacy, Health Sciences & Exercise Science: Pharmacy, Health Sciences & Exercise Science 2**

Sexton, Wesley: **Music: Music - 1**

Sexton, Zach: **Education: Education**

Shafer, Katherine: **International Studies: International Studies**

Shake, Amanda: **Pharmacy, Health Sciences & Exercise Science: Pharmacy, Health Sciences & Exercise Science 11, Pharmacy, Health Sciences & Exercise Science: Pharmacy, Health Sciences & Exercise Science 15**

Shebel, Melanie: **Chemistry: Chemistry 2**

Shepherd, Rebekah: **Biology: Biology: Genetics and Microbiology**

Shippee, Rachel: **Gender, Women & Sexuality Studies: Gender, Women & Sexuality Studies Panel Two**

Showers, Russell: **Pharmacy, Health Sciences & Exercise Science: Pharmacy, Health Sciences & Exercise Science 9**

Shuford, Nellie: **Music: Music - 5**

Shultz, Zachary: **Psychology: Aging & Cognition**

Sieg, Rachel: **Biochemistry & Molecular Biology: Biochemistry & Molecular Biology**

Siegers, Amanda: **Sociology: Sociology 1**

Sitorius, Taylor: **Art History and Presentations: Art History and Presentations, Art Exhibition: Art Exhibition**

Skelton, Rachel: **Sustainability, Urban Ecology & Environmental Studies: Sustainability, Urban Ecology & Environmental Studies**

Skidmore, Andrew: **Biology: Biology**

Skinner, Brian: **Pharmacy, Health Sciences & Exercise Science: Pharmacy, Health Sciences & Exercise Science 4**

Skok, Christopher "C.J.": **Psychology: Clinical & Personality Psychology 2**

Skwarczan, Alina: **Pharmacy, Health Sciences & Exercise Science: Pharmacy, Health Sciences & Exercise Science 7**

Slifer, Erika: **Psychology: Developmental and Educational Psychology 1**

Slodysko, Kristen: **Biology: Biology**

Small, Stephen: **Pharmacy, Health Sciences & Exercise Science: Pharmacy, Health Sciences & Exercise Science 5**

Smit, Teresa: **Biology: Biology: Ecology and Evolution II**

Smith, Abby: **Chemistry: Chemistry 1**

Smith, Allyson: **Psychology: Psychology**

Smith, Amanda: **Biology: Biology**

Smith, Angela: **Pharmacy, Health Sciences & Exercise Science: Pharmacy & Health Sciences**

Smith, Justin: **Biochemistry & Molecular Biology: Biochemistry & Molecular Biology 1**

Smith, Mackenzie: **Biochemistry & Molecular Biology: Biochemistry & Molecular Biology 4**

Smith, Nathan: **Music: Music - 4 , Music: Music - 5**

Smith, Paije: **Mathematics and Computer Science: Mathematics and Computer Science 2**

Soberman, Rachel: **Psychology: Psychology of Health, Religion, & Gender 1**

Somody, Maggie: **Chemistry: Chemistry 2**

Speck, Dakota: **Biology: Biology: Ecology and Evolution III**

Spice, Megan: **Psychology: Psychology**

Spiller, Brittany: **Pharmacy, Health Sciences & Exercise Science: Pharmacy, Health Sciences & Exercise Science 4**

Spriggs, Rachel: **Psychology: Psychology**

Springer, Kristen: **Chemistry: Chemistry 1**

Srinath, Deeksha: **Mathematics and Computer Science: Mathematics & Computer Science**

Stadler, Nicole: **Pharmacy, Health Sciences & Exercise Science: Pharmacy, Health Sciences & Exercise Science 2, Pharmacy, Health Sciences & Exercise Science: Pharmacy, Health Sciences & Exercise Science 6**

Stamper, Lindsey: **Classical Studies: Classical Studies**

Steele, Jennifer: **Psychology: Developmental and Educational Psychology 1**

Steele, Mary: **Psychology: Psychology**

Stein, Gregory: **Physics & Astronomy: Physics & Astronomy**

Steinke, Harriet: **Music: Music - 1, Music: Music - 5**

Stephan, Brittney: **Communication & Media Studies: Communication in (and Across) Environments**

Stephenson, Hunter: **Physics & Astronomy: Physics & Astronomy 1, Physics & Astronomy: Physics & Astronomy 1**

Sterrett, Kimberly: **Psychology: Psychology**

Stock, Daniel: **Physics & Astronomy: Physics & Astronomy 2**

Stoops, Sarah: **Mathematics and Computer Science: Mathematics and Computer Science 1, Mathematics and Computer Science: Mathematics and Computer Science 2**

Strack, Maggie: **Biology: Biology**

Straslicka, Erin: **Psychology: Psychology**

Streck, Mitchell: **Pharmacy, Health Sciences & Exercise Science: Pharmacy, Health Sciences & Exercise Science 16**

Striegle, Cassandra: **Classical Studies: Classical Studies**

Stumbaugh, Kaleb: **Education: Education**

Stutzman, Lauren: **Sociology: Sociology 3**

Sutter, Anna: **Psychology: Cognitive Psychology 2, Psychology: Cognitive Psychology 2**

Swanson, Rachel: **Psychology: Psychology**

Swartz, Michael: **Physics & Astronomy: Physics & Astronomy**

Sweet, Will: **Psychology: Psychology of Health, Religion, & Gender 2**

Sweigard, Erin: **Sociology: Sociology: Social Work Issues**

Swiggum, Lindley: **Sociology: Sociology 1**

T

Tabbert, Kelsey: **English Literature & Creative Writing: English Literature & Creative Writing 3**

Tan, Samantha: **Education: Teaching Exceptional Students, Education: Education**

Tanzer, Cynthia: **Education: Education**

Tatara, Gabrielle: **Psychology: Psychology of Health, Religion, & Gender 1**

Taul, Lane: **Biology: Biology**

Tavera, Ambar: **Sociology: Sociology 1**

Taylor, Brad: **Psychology: Aging & Cognition**

Taylor, Lynette: **Anthropology: From Public City to 'Philanthropolis': Comparing Two Models for Downtown Development in Indianapolis**

Teibel, Hilary: **Pharmacy, Health Sciences & Exercise Science: Pharmacy, Health Sciences & Exercise Science 8**

Terrell, Michael: **Psychology: Psychology**

Terwillegar, Michael: **Psychology: Developmental and Educational Psychology 2**

Tewell, Ryan: **Pharmacy, Health Sciences & Exercise Science: Pharmacy, Health Sciences & Exercise Science 6**

Thibodeau, Christina: **International Studies: International Studies**

Thompson, Michael: **Biology: Biology**

Thornton, Emily: **Psychology: Psychology of Health, Religion, & Gender 2**

Tietz, Sarah: **Modern Foreign Language: Hispanic Studies 2**

Timmons, Lindsay: **Psychology: Cognitive, Sexuality & Comparative Psychology 1**

Tock, Phillip: **Music: Music - 2**

Toepper, Paige: **Sociology: Sociology 3**

Tomich, Stevan: **Pharmacy, Health Sciences & Exercise Science: Pharmacy, Health Sciences & Exercise Science 16**

Torbeck, Jessica: **Chemistry: Chemistry 1**

Toth, Meghan: **Pharmacy, Health Sciences & Exercise Science: Pharmacy, Health Sciences & Exercise Science 15**

Tran, Khang: **Biology: Biology: Cellular Physiology I**

Tulley, Christopher: **English Literature & Creative Writing: English Literature & Creative Writing 5**

Turley, Samantha: **Music: Music - 3**

Tyrcha, Zach: **Pharmacy, Health Sciences & Exercise Science: Pharmacy, Health Sciences & Exercise Science 6**

U

Ucchino, Hannah: **Pharmacy, Health Sciences & Exercise Science: Pharmacy, Health Sciences & Exercise Science 7**

Ulmer, Addison: **Psychology: Cognitive, Sexuality & Comparative Psychology 1**

Ulrich, Alexis: **English Literature & Creative Writing: English Literature & Creative Writing 4**

Urner, Tara: **Mathematics and Computer Science: Mathematics & Computer Science**

V

Valdez, Larissa: **Psychology: Psychology**

Valladares, Kelly: **Psychology: Psychology of Health, Religion, & Gender 1**

Van Duyn, Hayley: **Psychology: Aging & Cognition**

Van Wyk, Kimberly: **Education: Teaching Exceptional Students**

VanWanzeele, Devin: **Biology: Biology: Ecology and Evolution III**

Vanosdol, Jaclyn: **Communication & Media Studies: Sex and Gender in Communication Studies**

Variot, Matthew: **English Literature & Creative Writing: English Literature & Creative Writing 3**

Verhines, Natalie: **English Literature & Creative Writing: English Literature & Creative Writing 3**

Villanueva, Ian: **History: In the Shadow of War: Politics, Strategy and Legacies**

Villarreal, Alexis: **Pharmacy, Health Sciences & Exercise Science: Pharmacy, Health Sciences & Exercise Science 5**

Vondersaar, John: **Physics & Astronomy: Physics & Astronomy 1**

W

Wade, Jacob: **Chemistry: Chemistry 2**

Wagoner, Katelin: **Psychology: Clinical & Personality Psychology 1**

Wahid, Iqra: **Biology: Biology: Cellular Physiology II**

Walcott, Rachel: **Psychology: Clinical & Personality Psychology 1**

Walter, Zach: **Psychology: Cognitive, Sexuality & Comparative Psychology 1, Psychology: Psychology**

Washer, Benjamin: **Chemistry: Chemistry 1**

Washington, Taylor: **Communication & Media Studies: Critical/Cultural Approaches to Media Studies**

Wasilk, Amy: **Biochemistry & Molecular Biology: Biochemistry & Molecular Biology**

Watts, Thomasina: **Anthropology: Anthropology**

Weber, Lauren: **English Literature & Creative Writing: English Literature & Creative Writing 6**

Weber, Matt: **Biochemistry & Molecular Biology: Biochemistry & Molecular Biology**

Weber, Matthew: **Pharmacy, Health Sciences & Exercise Science: Pharmacy, Health Sciences & Exercise Science 12**

Wedge, Jennifer: **Mathematics and Computer Science: Mathematics & Computer Science**

Weinstein, Bradley: **Biology: Biology: Ecology and Evolution III**

Weldon, William: **Biology: Biology**

Wells, Carson: **Pharmacy, Health Sciences & Exercise Science: Pharmacy, Health Sciences & Exercise Science 5**

Wells, Emily: **Biochemistry & Molecular Biology: Biochemistry & Molecular Biology**

Wesley, Jaime: **Biology: Biology: Cellular Physiology I**

Wesner, Morgan: **Pharmacy, Health Sciences & Exercise Science: Pharmacy, Health Sciences & Exercise Science 8**

Westerfield, Chelsea: **Sustainability, Urban Ecology & Environmental Studies: Sustainability, Urban Ecology & Environmental Studies**

Wheat, Chelsea: **Gender, Women & Sexuality Studies: Gender, Women & Sexuality Studies Panel Two, Psychology: Psychology**

White, Alex: **Chemistry: Chemistry 1**

White, Allison: **Psychology: Cognitive Psychology 2**

White, Ashley: **Chemistry: Chemistry 2**

Whitney, Kelsey: **Sociology: Sociology: College Issues**

Wickersham, Alisha: **Pharmacy, Health Sciences & Exercise Science: Pharmacy, Health Sciences & Exercise Science 7**

Wiesbrook, Tracy: **Pharmacy, Health Sciences & Exercise Science: Pharmacy, Health Sciences & Exercise Science 15**

Wilhelm, Laura: **Communication & Media Studies: Critical/Cultural Approaches to Media Studies**

Wilkes, Sara: **Biochemistry & Molecular Biology: Biochemistry & Molecular Biology**

Williams, Jasmine: **Chemistry: Chemistry 2**

Williams, Tasia: **English Literature & Creative Writing: English Literature & Creative Writing 3**

Williamson, Tyler: **Physics & Astronomy: Physics & Astronomy 1, Physics & Astronomy: Physics & Astronomy**

Willis, Tyler: **Biology: Biology: Ecology and Evolution II**

Wilson, Ashley: **Mathematics and Computer Science: Mathematics & Computer Science**

Wilson, Austin: **Pharmacy, Health Sciences & Exercise Science: Pharmacy, Health Sciences & Exercise Science 13**

Wilson, Jenna: **Chemistry: Chemistry 3, Mathematics and Computer Science: Mathematics and Computer Science 2, Mathematics and Computer Science: Mathematics & Computer Science**

Winger, Mylie: **Communication & Media Studies: Sex and Gender in Communication Studies**

Wolfe, Laurel: **Psychology: Psychology**

Wolfe, Molly: **Education: Teaching Exceptional Students**

Wolfe, Olivia Grace: **International Studies: International Studies, Modern Foreign Language: German 3**

Wolowicz, Kendall: **Psychology: Aging & Cognition, Psychology: Psychology**

Womack, Jensey: **Philosophy and Religion: Philosophy and Religion**

Woods, Paige: **Pharmacy, Health Sciences & Exercise Science: Pharmacy, Health Sciences & Exercise Science 4**

Wright, Amy: **Business & Economics: Business & Economics 1**

Wright, Michael: **Psychology: Aging & Cognition**

Wright, Nathan: **Music: Music - 6**

Wright, Payton: **Psychology: Psychology**

Wright, Payton: **Psychology: Cognitive, Sexuality & Comparative Psychology 1**

Wyatt, Cassie: **Biology: Biology: Cellular Physiology II**

Wynn, Mariah: **Business & Economics: Business & Economics**

X

Xue, Yuan: **Chemistry: Chemistry 1**

Y

Yoder, Evette: **Psychology: Clinical & Personality Psychology 2**

Young, Cali: **Psychology: Environmental & I-O Psychology 2**

Z

Zahn, Evan: **Pharmacy, Health Sciences & Exercise Science: Pharmacy & Health Sciences**

Zaver, Himesh: **Biochemistry & Molecular Biology: Biochemistry & Molecular Biology 1**

Zemtsov, Gregory: **Philosophy and Religion: Philosophy and Religion, Philosophy and Religion: Philosophy and Religion**

Zengler, Heather: **Biology: Biology**

Zercher, Ben: **Chemistry: Chemistry 1**

Zierk, Klara: **Philosophy and Religion: Philosophy and Religion**

Zirkle, Carrin: **Sociology: Sociology 1**



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