



AMY ZEH HIGH-IMPACT PRACTICES COURSE DESIGNATION STUDENT SHOWCASE

**Celebrating Academic Excellence in
High-Impact Practices Designated Courses**

APRIL 22 | 10 A.M.-NOON | PEGASUS BALLROOM, UCF STUDENT UNION



Welcome to the Amy Zeh High-Impact Practices Course Designations Student Showcase

The UCF Amy Zeh High-Impact Practices Course Designation Student Showcase honors the memory and dedication of Amy Zeh, who served as the Assistant Director of Service-Learning from 2006 to 2019. She championed student success and believed High-Impact Practices (HIPs) were essential to the undergraduate experience.

The HIP Course Designation Student Showcase is held during the fall and spring semesters. It is an opportunity for students to share individual or team HIP-designated course projects with the UCF community. Students can participate virtually, in person or in both formats.



High-Impact Practices Course Designations

HIP-designated courses give students the opportunity to apply what they learn in the classroom to real-world contexts that strengthen academic, professional, and personal growth. These experiences promote deeper learning, meaningful engagement, and connections between students, faculty, and the broader community. UCF offers four undergraduate HIP designations—Global Learning, Integrative-Learning Experience, Research Intensive, and Service-Learning,—each designed to enhance student success through hands-on, reflective, and integrative learning.



Global Learning

Global Learning (GL) helps students develop intercultural competencies and a deeper understanding of international systems and their effects on humanity. GL-designated courses engage students in analyzing global relationships and perspectives, including those of target cultures and marginalized communities. Each course culminates in a student presentation that demonstrates how the experience has enhanced their ability to consider global issues from multiple viewpoints.

Integrative-Learning Experience (IE)

The Integrative-Learning Experience (IE) helps students connect classroom learning with real-world applications. IE-designated courses guide students in linking the core knowledge and skills of their major to professional, civic, and personal contexts. Each course includes three essential components—intentional learning, participation in high-impact practices, and metacognitive reflection—to help students make meaningful connections between their academic experiences and future goals.





Research Intensive (RI)

Research-Intensive (RI) courses engage students in the process of discovery through guided research and academic scholarship. Under the mentorship of a faculty member, students actively participate in a structured line of inquiry that deepens their understanding of research methods and disciplinary practices. Each RI-designated course includes a research deliverable that demonstrates the student's ability to apply scholarly inquiry to real-world or academic questions. Only undergraduate courses are eligible for the RI designation.

Service-Learning (SL)

Service-Learning (SL) connects academic learning with community engagement. Through SL-designated courses, students collaborate with nonprofit organizations, public schools, and government agencies on projects that address real community needs. Each course integrates academic content with meaningful service and requires students to complete a reflection activity that deepens their understanding of course concepts, civic responsibility, and personal growth.



PROJECTS

GLOBAL LEARNING

- 2 **Environmental Control in Japanese Contexts**
Justin Abraham, Josh Salazar, Md Miah, Raymond Robertson
- 4 **Community and Identity Through Social and Literary Media.**
Kevin Alexander, Wilson McCall, Tyler Williams
- 25 **Social Mentality in the US vs Japan**
Jarez Christian, Rafferty Rinke, Aurora Flores, Daniel Oliveros
- 40 **Foreign Cultural Influences on Japanese Self-Expression**
Emma Dunagan, Amber Fuentes, Juliana Rivera
- 81 **The Impact of Gaming on Youth**
Christopher Mayol, Brian Nguyen, Kai Djuren

87 **Third Spaces in Japan and America**

Catherine Morrow, Steven Wyer, John Foxx

92 **South Korea's 4B Movement in the Age of Digital Feminism**

Isabella Oliveira

99 **Pop Culture vs. Reality Mirror or Distortion**

Benjamin Post, Miliana Fajardo, Ethan Osborne

104 **Analyzing the Macroevironment of Adidas by Business Students**

Francys Ramirez

INTEGRATIVE-LEARNING EXPERIENCE

8 **Safety and Immunogenicity of Two GSK Varicella Vaccines in Healthy Children 12-23 Months (2-Dose)**

Delilah Baltazar

9 **Hands-On Chromatography: A High-Impact Chemistry Laboratory Experience**

Mariana Bartilotti Garcia

21 **Pregnancy in Polycystic Ovary Syndrome**

Flavia Cabrera, Alexa Echevarria, Marselle Valdez, Alyssa Busgith

28 **Evaluating the Clinical Trial "Azithromycin-Prevention in Labor Use Study (A-PLUS)"**

Emma Coffman, Willow Baldwin, Emily Martinez, Roldine Questel

34 **Clinical Trial: Epilepsy**

Diego Diaz, Jean Moreno, Hashanah Valcin, Mustafa Elbejane, Ali Maqsood

- 36 **Analysis of VO2 & Resting Metabolic Rate Assessment for Patient Centered-Care**
Terry Dinh, Zhi Lin
- 50 **From Vision to Action: Using Aspirational Resumes to Guide Students' Educational Journeys**
Alexa Garcia Aviles
- 70 **More than a Game Plan: Designing Safe Sport/Exercise Spaces for Athletes**
Bianca Jaramillo
- 76 **Investigating Chlamydia Melanogaster Effector Proteins on Cellular Pathways in Drosophila**
Waleska Landaeta, Arthi Ramaswamy, Pedro Machado
- 111 **Midurethral Sling vs OnabotulinumtoxinA for Mixed Urinary Incontinence**
Raad Shaikh, Danette Rodriguez, Jana Al-Suleiman, Sara Bechar, Petula Le

- 121 **Critical Appraisal of the AURORA Trial: Voclosporin in Lupus Nephritis**
Sana Sud, Jody Cunningham, Jada Sawh, Milah Fernandez
- 128 **Study of BOTOX® Compared to Topiramate for the Prevention of Chronic Migraine in Adults**
Kimberly Vu, Alexandra Jordan, Jasmine James, Gerson Suancha, Krista Duam
- 132 **Efficacy and Safety of MMH-MAP in the Treatment of Mild Cognitive Impairment in Early Recovery Stage**
Artemis Zi, Gabrielle Gaston, Hailey Satmaria, Deriel Concepcion
- 133 **Cultural and Geographical Influences of Stardev Valley**
Ashley Zirkle, Cailey Cassity-Ness, LJ Connolly

RESEARCH INTENSIVE

- 1 **Tracing Evolution Through Teeth: Dental Morphology of the Lagoa Santa Fossil Population**
Kelsey Aaron
- 3 **Project B**
Weglandy Aldajuste, Alejandro Mendiola, Kade Salazar, Ty Spradley
- 5 **Anurans: Calling Above the Noise**
Caroline Anderson, Cecelia Keicher, Roman Turner, Justin Moya, Kalind Peterson
- 6 **Myth to Mindset: Comparing Perceptions of Female Leadership in Hinduism and Christianity**
Maya Arangath

- 10 **Negotiating G-d: How Google's AI Overview Shapes Theological Inquiry**
Aden Baxley
- 11 **How Does Parental Engagement Impact Speech and Language Outcomes in Children Receiving Outpatient Speech-Language Therapy?**
Kerney Balance
- 13 **From Podcaster to Skit Maker: How Do Platforms Like TikTok and Instagram Allow a User to Go Viral?**
Angelina Benbeneck
- 16 **OUT in the Boonies - Small Town, Big Love**
Brooklyn Bolkosky
- 17 **How Does Private Reflection Turn Into Public Performance?**
Maxwell Boral
- 26 **Optimization of Restriction Enzyme Digestion Conditions for Efficiency in DNA Cleavage**
Berline Civil
- 27 **Influence of Lunar Phases on Aquatic and Semi-Aquatic Herpetofauna in Central Florida**
Bailey Cluck, William Fausnaugh, Abbey Shields
- 29 **Exploring the Association Between Social Cohesion and Attitudes Toward AI Use**
Jasmine Coronado
- 30 **Perceptions of Social Mobility and Their Impact on Attitudes Toward Universal Basic Income**
Casey Courtright
- 31 **Behind The Screams: Exploring Central Florida's Haunt Community**
Carley Davis
- 32 **The History of the Word Nightmare**
Lauren Delhomme
- 33 **Women Politicians Running for President in the US**
Zainab Dewji
- 35 **Investigating the Effects of Lansoprazole on Cell Viability and Cytoskeletal Organization**
Simran Dillip
- 41 **Synergistic Effects of TNF- α and TGF- β 1 on Fibrotic Transformation of Alveolar Epithelium.**
Jasra Elahi, Joseph Giardina, Sophia Ritner
- 44 **The Strength of Association Between Diabetes and Hospitalizations From Alzheimer's Within FL Adults**
Alina Farooqui
- 46 **Dictionary Antedatings and Research**
Hannah Feldman
- 47 **Analyzing Toxicity of E-cigarette Flavoring Chemicals on BEAS-2B Bronchial Epithelial Cells In-Vitro**
Caroline Ferrarin

- 48 **Analysis of Modified Shark Teeth from Archaeological Contexts at Cape Canaveral**
Olivia Fiorentino, Celestial Henry, Cacolici Caiman
- 51 **The Strength of the Association Between Obesity and Mortality From Diabetes Among Adults.**
Diego Garcia
- 54 **The Strength of the Association Between Obesity and Mortality From Stroke Among Adults.**
Estefania Gonzalez Ulmos
- 56 **Dose-Dependent Effects of Kratom on Cytoskeleton Integrity and Cell Viability in COS-7 Cells**
Charlene Groves
- 57 **Who's a Good Kid: Perceived Parenting Styles and Prosocial Behaviors**
Brianna Guinigundo, Aajonna St. John, Sebastian Gonzalez, Katherine Pospichal
- 58 **Generational Exposure to Social Media in Relation to World Events**
Danielle Haddox, Katherine Schofield, Ondraya Moore, Nicholas Delatour
- 59 **Exosome-Mediated Host Pathogen Interactions: A Drosophila Model for Chlamydia Effector Function**
Ridhi Harmani, John Miceli, Valeria Moreno
- 60 **What the Shell? The Effects of Anthropogenic Wetland Modification on Freshwater Turtle Communities**
Tara Haubrich, Giavanna Harrington, Jessie Shaffer, Maddison Magyar, Caroline Figueroa
- 61 **Diving Deep: Examining Faunal Abundance at Varying Water Depths in a Cypress Dome**
Vittoria Haynes, Samantha Maiorino, Jessie Shaffer, Madeline Rosso
- 62 **Ghosts in the Groves: A Cape Canaveral Space Force Station Historical Study**
Michelle Hernandez, Alyssa Tucholski, Madison Ryan
- 63 **Exploring the Anti-Cancer Effects of Acetylsalicylic Acid**
Preslie Hines
- 64 **Phenotypic Analysis of Drosophila Melanogaster Expressing Chlamydia Trachomatis Effectors.**
Hedelys Hiraldo, Radhika Venkatesan
- 71 **Scute City: Impact of Urbanization on Body Condition of Kinosternon Baurii in Central Florida**
Avarey Johnson, Tai Powell, Rachel Flis, Rhees Henderson, Enno Turner
- 72 **The Strength of Association Between Obesity and Mortality From Cardiovascular Diseases in Adults**
Ryan Kalb

- 73 **Green Light: Using Logistic Regression to Predict When a Stolen Base Attempt Will Succeed**
Julio Karruli
- 77 **Spatial Drivers of DO: The Role of Vegetation in UCF's East Cypress Dome**
Stephanie Lievano, Anya Spara, Aliah Wales-Miller, Marissa Pratt
- 79 **Research with Drosophila: The Under-Recognized Lab Rat for Effector Gene Manipulation**
Robert Londono, Arianna Valenzuela, Euodia Shim, Eliza Calvo-Garcia
- 82 **Water Quality Across the UCF, Differences Between Constructed, Natural, and Hydrologically Impacted**
Lyndon Medel, Hannah Hettenbach
- 83 **Effects of Acute Glute Activation on 10-meter Sprint Performance: PAPE or Fatigue?**
Maddie Michel
- 84 **From Skin to Cell Culture: Investigating the Effects of Liquid Self-Tanner on Cos-7 Cells**
Michael Moffett
- 86 **YouTube A Platform for the People or for Itself?**
Tiziano Morganti
- 89 **What Makes a Listing Worth More? A Regression Analysis of Airbnb Pricing Factors in New York City**
Usman Mujtaba, Krish Maisuria
- 90 **Effects of Kratom Mixture on Cell Death in COS-7 Cells Using Immunofluorescence**
Hoa Nguyen
- 93 **Measuring the Accuracy of AI-Generated Content vs. Human-Written Content**
Nadezhda Olkhova
- 94 **A Double-Edged Sword? Examining the Trade-off of Burnout in Virtual Shared Leadership Structures**
Autumn Ostrander, Bruno Castro, Sophia Bedoya, Victoria Perez-Palacios, Ana Valentina Cevallos
- 95 **How Does Gender Influence the Negotiation Strategies and Outcomes for Women in the Corporate World?**
Rachel Ostrow
- 96 **The Strength and Association Between Alcohol Consumption and the Incidence of Breast Cancer Among Adults**
Maria Pavon Madrid
- 100 **Instagram's Infinite Scroll, Algorithmic Personalization, and Social Validation Systems Subtly**
Silas Powers

- 101 **The Need to Belong: Political Ideology, Self-Esteem, and In-Group Favoritism**
Daniel Prias, Hunter Shapiro
- 102 **Prevalence of Chytridiomycosis Infection in Two Sympatric Treefrog Species**
Sasha Qureshey, Emma Cerda, Renato Guzman, Lucas Delgado
- 103 **Influence of Pond Cypress Tree Density on Surface Soil Organic Matter in East Cypress Dome**
Chase Qurollo, Varalika Chari, Isa Chiappini
- 105 **An Interface Analysis of Discord - What Makes it so Different?**
Craig Rigby
- 106 **From Fruit Flies to Human Medicine: Functional Characterization of Chlamydia Trachomatis Effector Proteins**
Angelee Rivera Irizarry
- 107 **Investigating the Role of ANGPTL4 in Melanoma Metastasis Within a Liver Environment**
Lindsey Russ, Hannah George
- 110 **Predicting Vehicle Combat Effectiveness in Ukraine**
Griffin Seel, Cameron Cummins, John O'Toole, Andrew Alexander
- 112 **Cultural Stigma & Its Effect on the Mental Health of Guyanese American Young Adults**
Raiya Shaw
- 113 **Foodways Analysis of Indigenous Populations of Cape Canaveral Florida: Faunal and Paleoethnobotanica**
Valeriia Shvareva, Lili Williams, Christina Threlkeld, Morgan Redford
- 114 **Trouble in Paradise: Tracking Tropicalization on Mosquito Lagoon Oyster Reefs**
Gabriel Silva, Katherine Manzelli, Maya Kurian
- 115 **Anti-Inflammatory Potential of Quercetin on Cholinergic Neurons**
Noah Singleton
- 116 **Excision on DMD Mutations via CRISPR in Tissue Culture**
Christopher Skelly, Giacomo Albo
- 117 **An Ethological Study of Female Chachoan Peccary Competition in Captivity: Causes & Manifestations**
Katerina Sliwinski
- 119 **Drained Defenses: How Altered Hydrology Influences Invasive Plant Species Richness in Cypress Domes**
Jamie Snider, Cori McWilliams, Natalia Knapp-Seale, Deborah Faerman
- 122 **Republicans vs. Democrats: A Prediction of COVID-19 Vaccine Hesitancy across Florida Counties**
Elli Ta, Josephine Schumacher, Lilly Fattizzi, Shanelle Han

125 **Is a “Perfect” Worker Truly Ideal? the Relationship Between Perfectionism and AI Use**
Carly Tilman

127 **An Archaeological Analysis of the Bumper Blockhouse at Cape Canaveral Space Force Station**
Nathan Vassos, Annamaria Donnelly, Dominic Maiuri

130 **The Strength of Association Between Traumatic Brain Injury and Hospitalizations from Alzheimer’s Disease**
Gianna Yallop

SERVICE-LEARNING

7 **Strengthening Community Support For Vulnerable Populations To Improve Health Outcomes: Parramore**
Mary Baker

12 **OPERATION MARS: Engineering a Mission to the Red Planet!**
Livia Belem Rangel de Carvalho, Dylan Nunn, John Page, McKinley Zimmerman, Sami Judeh

15 **Potato Circuitry and Battery Cell Design**
Parker Beyl, Tony Le, Maxwell Barron, James Quant, Owen Morgan

18 **Snaptastic: Electrical Engineering Made Shockingly Simple!**
Sean Bramley, Silas Jones, Chris Bano, Angela Unterholzner, Mike Wong, Desmond Castro

19 **Orange County Animal Services | Adoption Awareness**
Cameron Braun, Grace Exum, Caitlyn Bray, Mikaela Simpson-Hose, Shelby Ferguson

20 **Posting for a Purpose: The Lifeboat Project**
Katie Brogan, Isabella Valentino, Lucas Bernstein, Jeanne Simoes

22 **Harvesting Hope in Central Florida with Second Harvest Food Bank**
Shayna Caddell, Lucia Hernandez, Correna Bartow, Jonathan Lungstrum, Kevin Wechsler

23 **My Experience as a ULA in the Chemistry Laboratory Course.**
Brian Castro

24 **New Opportunities Leads to New Appreciation for the Community**
Akhil Chedde

37 **Battling Human Trafficking: How Social Media Advertising Influences Awareness**
Cami Dobson, Addyson Jones, Alexandra Boveil, Giovanni Gioia

- 38 **Helping Instill Hope in Our Local Community**
Audrey Dowdell, Kimberly Vega, Shelby Luffman, Brian Medina
- 39 **Reinventing the Mold**
Shayne Draizin
- 42 **Staying Accurate in the Analytical Chemistry Lab: The Impact of Undergraduate Learning Assistants**
Correna Ervin, Ashley Santonil, Charles Synder
- 45 **Expanding Waves: The Lifeboat Project Social Media Roadmap**
Sofia Federman, Camila Teran, Karla Echegaray
- 49 **Empowering Each Other: Using Effective Communication to Learn**
Quinn Fitzgibbons
- 52 **Giving Meals a Second Chance With a Second Harvest**
Anthony George, Sebastian Soto-Ambert, Daneelia Dalrymple, Joao Victor-Silva
- 53 **Social Media Improvements for The Lifeboat Project**
Camila Gomez, Brianna Greene, Nicole Vasquez
- 55 **Her Health Matters; Educating and Providing for Those in Need**
Landry Goodwin, Mitchell Ross, Zaileni Otero
- 65 **Canine Companions: A Lifelong Friendship**
Brenna Hiss, Sarah George, Olivia Kestner, Alondra Torralba
- 66 **An Analysis of Simulating AI Prompting Through Literalness in a Gamified Robot Exercise**
Abigail Hulse, Bindhiya Reddy Shyam Kumar, Jimmy Winchester, Lucas Aronson
- 67 **Impact of ULA-Facilitated Active Learning in Organic Chemistry**
Miguel Iglesias, Emily Brown, Mariam Elzanaty, Connor Boisvert
- 68 **Beyond the Classroom: Advancing Literacy and Community Impact Through YAY Literacy and LDR 2002**
Jeanella Jacotin, Junika Octa, Alejandra Pena, Giuseppe Riccobono, Sangrae Kim
- 69 **Mentoring Doesn't Have to Be a Scary Megalodon: Being a LEAD Scholars Peer Mentor**
Kaitlyn Jadevaia
- 74 **Culture Audit - Save a Life Pet Rescue**
Grace Kmak, Kaley Chriswell, Carter Roberts, Antonio Pizza, Caroline Parrott
- 75 **Mission to Rescue: A Social Media Refresh for The Lifeboat Project**
Bailey Kurtz, Jesibell Davila

- 78 **Fairtrade@UCF: Building Longlasting Connections Between Students, Faculty, and Conscious Consumerism**
Jordan Lipner, Thomas Alfaya, Myrah Santiago, Sydni Burge, John Hernandez, Indaya Byer, Madelyn Boyd
- 80 **Supporting Chemistry Learning as a Learning Assistant**
Josey Matos
- 85 **Knights Pantry: Serving Students Through Basic Needs Support**
Kailimar Montanez, Valentia Payares, Tatiana Dickerson, Siera Wells, Joanna Sali
- 88 **Jordon Smelski Foundation Pitch**
Madelyn Moyers, Isabela Rocha, Madison Figueiredo, Sophia Rivera
- 91 **The Lifeboat Project Team 14**
Rockxy Nieves Gonzalez, Andrea Pettus, Natalia Flores, Payton Maaswinkel
- 97 **7 Cups Culture Audit**
Corban Pendrak, John Svajko, Micaela Olvera, Ryan Ashley
- 98 **Zooniverse: Where Volunteers Create Science**
Alexandra Perry, Sawyer Rief, Johannah Ongcapin, Hanan Farah, Katherine Xenick, Eva Brock
- 108 **Smithsonian Scribbles to Script**
Stephanie Sanchez, Island Hebel-Hoover, Conner Smith, Leslye Hardnack
- 109 **Advancing Resilient Biodiversity through Outreach, Repair, Education, Teamwork, Unity and Mentorship**
Isaiah Sawyer, Yotam Shanun, Reginald Andre, Brendan Casal
- 118 **Hope Walks Here: Raising Funds and Awareness for Suicide Prevention at UCF**
Tobey Smith
- 120 **Community Emergency Response Team (CERT): Strengthening Local Disaster Preparedness in Orlando**
Lilly Spayde
- 123 **Service Through Education: My Experience Tutoring Hebrew at Temple Judea**
Eitan Tangir
- 124 **Providing HOPE: Serving to Prevent**
Sanaya Thomas, Azaicha Jean-Baptiste, Amrita Vaka, Krishna Patel
- 126 **The Cultural Audit of Save A Life Pet Rescue**
Andres Torres, Alex Amato, Luisa Barioni Lanez, Selah Pearl, Aaron Hembree, Katerina Kring
- 129 **Bringing Art to Life: How Art is Intertwined with Community**
Maya Weaver
- 131 **Advocating for Amoeba Awareness: The Jordan Smelski Foundation Media Project**
Misty Zamora, Juan Sanchez, Geanluka Guedes de Souza, Leah Darby

View more projects and presentations in the **Amy Zeh High-Impact Practices Course Designation Virtual Showcase** on [UCF STARS](https://stars.ucf.edu).



Scan the QR code to view virtual projects.



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