

Celebration of Student Achievement 2024 Posters

Session 1 - BSC 100, 8:45 am - 9:45 am

#	Topic	Student Presenters	Poster Title
1	STEAM	Andrew Michael	Development of a Pedestrian Dead Reckoning System for an Indoor Wayfinding Application *
2	STEAM	Amaan Gadatia	Introducing wayfinding features for the mobility-impaired in an iOS indoor wayfinding application *
3	STEAM	Aidan Turner	Text Data Augmentation on a Cybersecurity Dataset
4	STEAM	Geethika Manojkumar	Mapping Vulnerabilities to MITRE ATT&CK Impact
5	STEAM	Daniel Keseling	Book Retrieval Based on Plot Description
6	STEAM	Parvathi Krishnan	Progressive Web Application Development for On-Demand Reporting of Study Room Availability *
7	STEAM	Elijah Gasataya	Full Stack Development of a TASK Volunteer Training System for the TCNJ Bonner Institute
8	STEAM	David Jackson	A Study of Shor's Algorithm, Elliptic Curve Cryptography, and Breaking the Bitcoin Signature
9	STEAM	Haadi Malik	A Study of Grover's Algorithm and Its Application to Sudoku
10	STEAM	Alexandra Stibler, Michelle Foong, Cory Sahanas, Amanda Dias	GripSense: Quantifying Stroke-Related Hand Function *
11	STEAM	Sangam Shivaprasad, Lauren Cunningham, Emma Route	Golden Connections- Eldertech Health and Wellness Platform
12	Management & Communications	Dominic Manzo, Dyllan Wade, Karla Fonseca	Financial Analysis of Dollar Tree Inc. - A Tale of Two Companies
13	Management & Communications	Gabriella Ramirez, Emily Riotto-Alejandro, Mia Lynch	Race and Gender within Service Learning
14	Environment & Health	Kathryn Burger	The Effect of Metaphor on Emotions, and the Relationship to Gender
15	Environment & Health	Camila Gomez, Clara Polonia, Jazmine Henry	Effects of acculturation in latine individuals
16	Environment & Health	Julia Canha	"Lady-killer" vs "Man-eater": Analyzing the Relationship Between Gendered Metaphors and Ambivalent Sexism
17	-	-	-
	Management & Communications	Aiden Blondin	Urbanist Advocacy Organizations: What Determines Effectiveness?
19	Social Justice	Alexis Leggio, Karly Marrella	National Organizations for Disabled Athletes

20	Management & Communications	Marissa Strader, Bruny Evangelista, Amanda Stiller	The Impact of Beauty Coalition B-Corps
21	Social Justice	Amy Antunes, Matthew Feinstein	Social Issues Causing Concern in Angola
22	Management & Communications	Rylee Hode, Justin Angel Recio, Jahsaun Blackshear	The Camp Experience
23	Social Justice	Alexandra Bove, Alexandra Bove, Kory Koste, Jasmine Martinez, Bethany Anne Tamayo	Meta-Analysis on the Effectiveness of Information Gathering vs. Accusatorial Interrogation Techniques
24	Environment & Health	Catherine Raynor	How Gender Roles Affect Interpretation of Metaphors
25	Management & Communications	Olivia Chiarella	Body Image in the Fashion Industry
26	Management & Communications	Julianne Brinton	Innovation: A Analysis of Startup Culture in US, Spain, and Finland
27	Social Justice	Noelle Falzone	Relationship between gender and metaphors
28	Management & Communications	Isabella Percontino	Social Media and Celebrity: The Parasocial Relationships between Fan and "Friend"

Session 1 - Rec Center, 8:45 am - 9:45 am

#	Topic	Student Presenters	Poster Title
1	STEAM	Jamie Huh	Commuting Matrices
2	STEAM	Ethan Sheridan	Classification of Topological Surfaces
3	STEAM	Paul-Abrams Augustin	Introduction to Representation Theory
4	STEAM	Jonathan Benderly-Kremen	Comparing the Wirtinger presentation of knot groups
5	STEAM	Christian Castillo	Digital Image Processing
6	STEAM	Nicholas Czop	Delving Into the Riemann Mapping Theorem
7	STEAM	Gino DiGiovanni	Permutation and Symmetric Groups with Algebraic Structures and Applications
8	STEAM	Dominic Fetzer	Constructible Numbers and their Properties
9	STEAM	Nicholas Golden	Quaternionic Matrices
10	STEAM	Kayla Hillenbrand	An Analysis of The Cayley-Hamilton Theorem and it's Applications
11	STEAM	Moosa Lone	Jordan Canonical Form
12	STEAM	Nicholas Ngai	The Jordan-Hölder Theorem and Its Applications
13	STEAM	Cameron Phillips	Applications of the Sylow Theorems
14	STEAM	Alexander Rosa	Mobius Transformations
15	STEAM	Paul Santomarcio	Cholesky Factorization
16	STEAM	AJ Tortoriello	Breaking down the Schur decomposition
17	STEAM	Bobby Wortman	Group Actions and Proofs of Sylow's Theorems
18	STEAM	Matthew Palermo, Matthew Palermo, Mackenzie Bosland, John Lombardelli, John McElroy, Jamie Paddock	ASCE Concrete Canoe Competition *

19	STEAM	Julia Roessler	Analysis of Huluwa Expression and Poly-A Tail Status in Early Cell Development in Zebrafish
20	STEAM	Ishika Sheladia, Joanna Tango	Analysis of zSquidA protein via Western Blot
21	STEAM	Aliyah Siddiqui	Effects of Environmental Stress on the Gene Expression of CYP72A124 in Maize *
22	STEAM	Sophy Vuong	Investigation of the Impacts of YqgF and YqgE on Ribosomal RNA *
23	STEAM	Michael Brown	Analysis and Design of Beamforming of Wideband mm-wave Antenna Array
24	STEAM	Paige Haltmeier	Paige Haltmeier Design
25	STEAM	Ryanne McShaffrey	SweetTart Design
26	STEAM	Michael Baradhi, Joshua Hwang, Justyn Sanchez	Decoding the hydrogen bond and proton transfer equilibria of arylenediamines with varying p-electron spacers.
27	STEAM	Molly Berlin	Molly Berlin Senior Graphic Design Portfolio
28	STEAM	Nicholas Bruno	Computer Controlled Multi-Use Cutting Attachment for Wood Lathes
29	STEAM	Harshul Chanchlani, Jason Myles Greenbaum, Victor Aiken Heras, Luis Ruiz III	Autonomous Race Car
30	STEAM	Kaitlin Ciuba	Factors Affecting Native Plant Diversity in North Eastern Suburban Forests
31	STEAM	Michael Gallo, Settara Dost	Synthesis and Characterization of Trisammonium Geranyl Diphosphate: An Insect Isoprenoid Substrate
32	STEAM	Sean Hanily	The design of a bandsaw blade safety stop activated by skin contact.
33	STEAM	Madison Hansen	Adaptive Guardian: Next-Generation Child Car Seat Restraints with Flex and Reed Sensor Technology
34	STEAM	Valeria Hernandez	Valeria Hernández Ramírez Senior Graphic Design Portfolio
35	STEAM	Cristian Herrera Alpizar	Synthesis and characterization of nickel based catalysts for cross coupling reactions
36	STEAM	Caslie Jean-Francois, Victoria Rocker	Assessing the Effect of Environment Artic Snow Crab Exoskeleton Formation
37	STEAM	Emily Jellison	Emily Jellison
38	STEAM	Siya Kakumanu	Analyzing the Connection Between Fusion and Herbivory in the Cyphellae Clade of Lonicera Using Digitized Herbarium Specimens *
39	STEAM	Conrad Kazimirowicz	Conrad Kazimirowicz Portfolio
40	STEAM	Liz Lam	Liz Lam Senior Graphic Design Portfolio
41	Human Experience	Greta Soos	Lady Macbeth
42	Social Justice	Michael Perez	Bilingualism in Preschool Children
43	Environment & Health	Sarah Curtis, Simranjot Mann	Congenital Heart Disease: Diagnostics, Treatment, and Screening Yesterday and Today

44	STEAM	Alice Qassabian	Structural Effects of Temperature Change on ccpp-1 Enzyme *
45	STEAM	Clermagshe Cezar	Clermagshe Cezar Senior Graphic Design Portfolio
46	STEAM	Kat Kendall	Senior Graphic Design Portfolio
47	STEAM	Rory Leadbeater	Rory Leadbeater Senior Graphic Design Portfolio

Session 2 - BSC 100, 10:00 am - 11:00 am

#	Topic	Student Presenters	Poster Title
1	STEAM	James Fay	Tracking and Visualizing Ethereum Transactions
2	STEAM	Michael Pang	Piano music score decomposition into monophonic parts
3	Management & Communications	Joe Petrecca	Recommendation System Algorithm Application to Increase Interdisciplinary Undergraduate Course Collaborations
4	Management & Communications	Xavier Beltran	Assessing and Assuring Security in Collective Intelligence Applications
5	STEAM	Faiza Hoque	Computer Vision for Teaching Hand Gestures
6	STEAM	Alex Sereda	Developing a Virtual Reality Classroom To Study Inclusion
7	STEAM	Malcolm Kahora	Facial Animation in Multiplayer Virtual Reality Applications
8	Human Experience	Marissa Donohoe	Effects of Eyewitness Memory on Thief Identification
9	STEAM	Alexandra Stibler	Evaluating Space Radiation Effects on Bone Strength Properties *
10	Social Justice	Julianna Boyle	Advanced Community-Engaged Learning at TCNJ *
11	Social Justice	Valerie Huynh, Julianna Boyle	Social Identity in Community Engaged Learning
12	Management & Communications	Tomoya Hirai	How Food Pantries in Four Major U.S. Cities Contribute to Reducing Homelessness
13	Social Justice	Loudine Charles	Policy Pathways: Exploring Maternal and Child Health Strategies & Outcomes Across States *
14	Social Justice	Angel Damtey, Sofia Kaufman, Nimra Nadeem	Examining the Doula Experiences as Social Justice Advocates
15	Management & Communications	Samantha Kohlhepp, Faith Cerreta, Lindsay Zuckerman	The Andrew McDonough B+ Foundation in Relation to Student Involvement
16	Social Justice	Stacia McCoy	Bridging Gaps, Filling Plates: Exposing the Realities of Food Insecurity in New Jersey
17	Social Justice	Nimra Nadeem, Angel Damtey, Sofia Kaufman	Examining the Doula Experiences as Social Justice Advocates
18	STEAM	Samuel Stokes	A statewide investigation of factors impacting secondary science performance

19	Management & Communications	Caroline Mullins, Emily Delmonaco	Organizations Addressing The Well-Being of Children
20	Social Justice	Kevin Dolan	Lost in Translation: The Impact of Language Barriers on Patient Care and Outcomes in the In-Hospital and Prehospital Settings
21	Management & Communications	Reid Murphy, Maddi DiPrima, Megan Mylod, Bella Cafaro	Non-Profit Organizations in Trenton
22	Social Justice	Hector Iscoa	Mercer County Resource Guide ^
23	Social Justice	Michael Lillis , Alisabeth Fiamingo	Thinking beyond Applied Behavioral Analysis (ABA)- Exploring alternative lenses
24	Social Justice	Rebecca Stein, Francesca Vitulano, Elizabeth Knowles, Samuel Hernandez	Criminal Justice Reform: Reducing Noise in Judgement, Decision-Making, and Sentencing in the Justice System
25	Social Justice	Alexa Garrett	Applying Structured Literacy Strategies in Tutoring of a Student with Reading Difficulties
26	Social Justice	Michelle Bombace	Using DIBELS to Set Goals, Inform Instruction, and Monitor Progress
27	Social Justice	Maya Sharpe	Student Teaching in Thailand
28	Social Justice	Neerjah Upreti	College Curriculum at Isles Youth Institute in Trenton, NJ ^
29	Social Justice	Grace Roscoe, Jacqueline Wolf	Building and monitoring the effects of research-supported reading comprehension instruction for an 8th grader with reading difficulties

Session 2 - Rec Center, 10:00 am - 11:00 am

#	Topic	Student Presenters	Poster Title
1	STEAM	Cameron Conover	Arrow's Impossibility Theorem
2	STEAM	William Evans	Stability Analysis of Ordinary Differential Equations
3	STEAM	Emma Hamilton	Ridge vs. Lasso Regression
4	STEAM	Shishir Kumar	Unveiling the Mystery: Zero-Knowledge Proofs
5	STEAM	Eddie Rohr	Optimization on Riemannian Manifolds
6	STEAM	Abigail Varga	Hopf Bifurcations
7	STEAM	Zachary Verkem	Maximizing Profitability in Tournament Poker Using Probability
8	STEAM	Jackson Reisman	The Real Chance
9	STEAM	Marissa Leber	Binomial Option Pricing Model
10	STEAM	Akshay Shah	Optimizing Option Pricing with Monte Carlo Method
11	STEAM	Isaiah Shepkosky	An Analysis of Partial Least Squares Regression *
12	STEAM	Tyler Alonso	Deriving the Black-Scholes Partial Differential Equation *
13	STEAM	Kaitlyn Smith	Markov Chains and the Random Walk
14	STEAM	Matthew Cohen	The Hodgkin-Huxley Model and Neuron Firings

15	STEAM	Odalys Garcia-Lopez	Solving Differential Equations by Green's Function *
16	STEAM	Lauren Terr	The Next-Generation Matrix
17	STEAM	Joseph Bergen	Synthesis and Characterization of Phenylenediamines with Intramolecular Hydrogen Bonds
18	STEAM	Nikita Sawant	How do Yeast Cells Turn on their Genes?: Investigating the Role of the Rsc Complex in the Regulation of Splicing
19	STEAM	Kevin Acheson	Using Acinetobacter baylyi to Investigate Large-Scale Deletions in Bacterial Genomes
20	STEAM	Francis Aldridge	Programmable Logic Controller Implementation for Model Predictive Control
21	STEAM	Nick Cavallero, Allen Hong, Nikhil Parab, Sebastian Winter	BreatheEZ Respiratory Device (BERD)
22	STEAM	Saimanish Dhulipala	Progress towards the synthesis and characterization of nickel and iron catalysts containing PNP ligands with sulfonamides in the secondary coordination sphere
23	STEAM	Isabella Jacobs	UNCP-18, the C. elegans Homolog of STXBP3, is Required For Fertility
24	STEAM	Vani Lorish	Methods in AI-Derived Peptide Engineering: Investigating the Binding Dynamics of Optimized Histatin-5 Derivatives with CS20 Pili
25	STEAM	Sera Lukens, Anthony Distefano, Ryan Sesera	SmartRise Patient Lift
26	STEAM	Alyssa Massi	The Design of a Daily Medication Storage and Electronic Dispenser
27	STEAM	Nicole Rojas	Assessing CFA/I pilin stability in concentrated urea *
28	STEAM	Julie Stone, Erin Swierczyna, Maria Sarraf	Bergen Arches Redevelopment
29	STEAM	Breanna Wixted, Christina Tonks	Characterization & Competitive Binding Assays of Cyclic Peptides to Inhibit Thrombosis Initiation
30	STEAM	Will Yuchmow, Brayden Messinger	Pursuing [PCP] Nickel Catalysts for CO2 Functionalization
31	STEAM	Jessica Damanski	Investigating why hyperglutamylation causes reduced brood size defects in C. elegans *
32	STEAM	Ryley David, Austin Lisojo	Analysis of Cyclic Peptide Inhibitors for Thrombosis Initiation: Characterization and Competitive Binding Assays
33	STEAM	Sophia DeJesus	STEAM
34	STEAM	Eva DeTroia	"An Investigation of Lonicera Bracteole Fusion Using Herbarium Specimens and Phylogeny"

35	STEAM	Amy Fullington, Dylan Chipelo	The Effect of Cadmium Chloride on the Male Mating Efficiency of <i>Caenorhabditis elegans</i> *
36	STEAM	Makenna Heslin, Michelle Amaechi, Justin Martinez	Investigating thiyl radical formation in an iron(III)-thiolate model system
37	STEAM	Isabella Lamboy, Navdeep Kharia, Kyle Hue, Jonathan Moreira	Redesign of Quakerbridge Mall and Route One Connectivity
38	STEAM	Jack McGinley, Michael De George	Analysis of Organic Thin Film Transistor Device
39	STEAM	Louis Miller	Comparing Python and IDL for Visualizations of Forward Modeling Analyses
40	STEAM	Stevia Nanfack Tsakem, Stephen Daramola	A Common Tool Kit: Do Flies & Fish Use the Same RNA Binding Protein to Regulate Dorsal-Ventral Pattern?
41	Environment & Health	Ileana Gonzalez	Analyzing the impact of indoor tanning legislation on skin cancer prevention *
42	Environment & Health	Sarah Knapik	The Effect of Commercial Snake Repellents and Herbicides on the Behavior of <i>Boa constrictor</i>
43	Environment & Health	Saima Mirza	The Effects of Multiple Stressors on Green Ash
44	Environment & Health	Katie O'Sullivan	Examining the effects of multiple stressors on <i>Rubus allegheniensis</i> using structural equation modeling
45	Environment & Health	Sahir Tehseen , Shayaan Makki	Exploring Sustainable Green Wall Facades: Assessing Indoor Temperature Impact and Cost-Effective Environmental Benefits
46	Management & Communications	Antigone Antonakakis	Examining the Impact of Technology on Aging and Healthcare
47	Environment & Health	Heather Callaghan	Speech and Cognitive Rehabilitation in Pediatric TBI Patients
48	STEAM	Sean Travers	Sean Travers Senior Showcase

Session 3 - BSC 100, 2:30 pm - 3:30 pm

#	Topic	Student Presenters	Poster Title
1	STEAM	Leo Melendez, Abby Wilson, Adam Ploskonka, Em Madeira, Milo Stark, Stephen Lamar	Starting an Indie Game Studio: Making and Funding our First Game
2	-	-	-
3	Human Experience	Kaitlyn Yetman	Judicial Federal Confirmation Research
4	Environment & Health	Amanda Burns	Relationship between Siblings and Metaphors
5	STEAM	Juwon Park, Chase Miller, James Dolan, Victor Guzman	Skin Tone Sensitive Pulse Oximeter
6	Human Experience	Charlotte Reinhardt-Hepler, Emily Ahern, Sarah Ullman, Sydney Farrar, Kaileigh Kennedy	Criminal Justice Reform Regarding Police Interrogation Techniques and False Confessions
7	Environment & Health	Sebastian Hill	Voice and Likability of Metaphor

8	Human Experience	Isaiah Forrest	Inattentional Blindness and Eyewitness Memory
9	Environment & Health	Romy Zemer	Improving Communication in Nursing Students through a Communication Evaluation Tool *
10	Social Justice	Michael Perez	Access to Disability Resources in Community Schools ^
11	Environment & Health	Brett Moran	Social-Emotional Learning in Special Education: Observations of Decision-Making and Engagement
12	Social Justice	Allison Grotts	Lessons from Latin America
13	Environment & Health	Naomi Essilfie	Only Children and Metaphorical Comprehension
14	Social Justice	Sian Brossard	Dear Daughter: A Pledge to End Female Genital Mutilation in Somalia
15	Global Perspectives	Olivia Nguyen	Epistemes of Knowledge Production in South Asia: Sociolinguistic Transformations in the Context of Coloniality and Decoloniality *
16	Human Experience	Alison Harris	A Look into Ewing's History of Slavery
17	Social Justice	Melanie Dondzila, Noah Gajewski	Non-Profits for Paws
18	Environment & Health	Lauren Weikl	The TCNJ Campus as a Model for Land Use Effects on Bird Distributions (Campus as a Living Lab)
19	Social Justice	Nevaeh Escalante	The Shades of Resistance The role and impact of using colors to promote political activism
20	Environment & Health	Arabella Scelza	What is EcoJustice Education?
21	Social Justice	Brinda Patel	A Female-Led Revolution Against the Iranian Regime
22	Human Experience	Ciara Corbett, Heather Cutler, Caroline Zieger	Mary Queen of Scots
23	Social Justice	Janna Sawyer	Perejil, Perchas, y Agujas de Tejer: Artifacts of Abortion Rights Activist Movements in the Southern Cone
24	Human Experience	Vivianna De Leon Gonzalez, Evette Rivera	Membership and Programming in American Zen Communities *
25	Human Experience	Marni Moise Kleinman, Sara lou Somogyi, Angela Easton	Lucrezia Borgia: Fact and Fiction *
26	Social Justice	Erin Stout	Democratization to Decriminalization: Evolution of Public Opinion on Abortion in the Southern Cone *
27	Human Experience	Rachel Shuster	Examining Institutionalization in American Zen Communities
28	Social Justice	Kayley Totka	Cyberfeminism, Globalism, and Symbolism: How Argentina's Successful Abortion Activism Can Inspire US Feminism After Roe *

29	Environment & Health	Gabrielle Thibault	Difference Between how People with Anxiety and Depression Interpret the Use of Metaphorical Stories in the Therapeutic Setting
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Session 3 - Rec Center, 2:30 pm - 3:30 pm

#	Topic	Student Presenters	Poster Title
1	STEAM	Jonathan Brinkmiller, Daniel Petersen, Jon Brinkmiller, Gavin Farrell, Dominic Musto, Sam Morris, Brian Mascola	TCNJ SAE Baja Competition Team
2	Environment & Health	Gerardo D'Antonio	Nurse Practitioners' Knowledge and Practices Regarding Wearable Fitness Trackers in the United States *
3	STEAM	Nat Bilal	Evaluating Carrot Weevil Egg-Laying Behavior and Management Strategies on Apiaceae Crops *
4	STEAM	Mikayla Angelini, Samuel Ehret	Thermal Map of TCNJ *
5	STEAM	Sachely Antuna, Hajer Ali, Asmaa Ali, Gisella Sanchez Guerrero	ChromaScan Health: Urinalysis Test Strip Reader
6	STEAM	Angeliessa Barlett, Michael Wu	Functional Significance of the First Aspartate Rich Motif of Type 1 and Type 2 of Farnesyl Diphosphate Synthases *
7	STEAM	Christopher Bello, Devarshi Patel	Does manipulating body size in threespine stickleback fish impact mate choice?
8	STEAM	Joseph Bergen	Crystal Engineering Efforts to Improve the Solubility of Allopurinol
9	STEAM	Allen Hong	Investigating the Effect of Impedance on DBS Current Density Distribution Through Computational Modeling
10	STEAM	Jack Centrelli	An investigation into the effects of spas-1 on ccpp-1 mutants
11	STEAM	Priyanka Chakrabarti	Pilins in a Pickle: Perturbing Protein Structure with Chemical Denaturants
12	STEAM	Julia Choinski	Ultrasonic Vocalization, Maternal Care, and Postnatal Survival in Serotonin-Deficient PET-1 Knockout Mice *
13	STEAM	Samuel Ehret, Mikayla Angelini	Thermal Map of TCNJ
14	STEAM	Carla Maria Farris	Building a 3D Finite Element Model of the Mexican Subduction Zone: Applications for Seismic Hazard
15	STEAM	Iknoor Grewal	Investigating the Factors of a Probable Binding Site for Histatin-5 on E.coli's CS20 Pili.
16	STEAM	Omar Halim	Identifying compensatory mutations that impact the incompatibility of the MLH1 and PMS1 mismatch repair genes
17	Social Justice	Ilyssa Chanin, Amy Lear, Vaanya Sharma	Transitioning from Girlhood to Womanhood Through Non-Profit Organizations
18	STEAM	George Hart	A design-based stereological approach for quantifying serotonin neuron innervation density in brainstem tissue

19	STEAM	Kevin Hoppe, Nicholas Calabrese, Christopher Baker	Nanoparticle Motion in the Scanning Electron Microscope *
20	STEAM	Caitlin Janisheski, Alexa Torres	Suzuki-Miyaura Cross-Couplings Catalyzed by Greener [NNN] Palladium Complexes
21	STEAM	Christopher Javier, Jacob Ferrao, Leandra Pesantes	Synthesis of Ruthenium Complexes with a Tunable C-H bond
22	STEAM	Ellie Kreider, Luke Rogers	CYP72A9 Modulates Plant Growth in Response to Osmotic Stress
23	STEAM	Saman Lone	Exploring Barnacle Interactions with Mineralized Surfaces
24	STEAM	Ellie LoPresti	Determining the critical micellization properties of the triblock copolymer Pluronic F-127
25	STEAM	Rachelle Macote, Alex Fuzaylov	Hormonal measures of stress in a migratory songbird
26	Environment & Health	Josephine Maguire, Aimee Torres	CYP72A349 Regulates Corn Environmental Stress Response *
27	STEAM	Cassandra McDermott	Synthesis and Characterization of Re complexes for electrochemical reduction of CO ₂
28	STEAM	Terrell Osei-Kyei	Evaluation of Flashiness of Four Small Streams in Pennsylvania
29	STEAM	John Penafiel	Color and Length in Stickleback Mating: Deciphering the Complexities of Mate Choice Dynamics
30	STEAM	Panagiota Perdikis	BONE MATERIAL STRENGTH CHANGES IN RATS EXPOSED TO ACUTE PROTON RADIATION
31	STEAM	Rachel Post	Examining the Structural Impacts of Urea on the S-Ena Pili Monomer Using Molecular Dynamics Simulations
32	STEAM	Alex Prior, Elieh Carrington, Joseph Tomich, Elias Dimarhos	The Redesign of Shabakunk Creek Pedestrian Bridge
33	STEAM	Naileny Rodriguez	Investigating TTL Enzyme Redundancy in <i>Caenorhabditis elegans</i> Cilia Using Male-Mating Response
34	STEAM	Nikolas Romano	Enhancement of Conductive Polymer-Modified Electrodes using Platinum Nanoparticles for Sensing Applications
35	STEAM	Alexander Saykali	A Novel Connection Between [PSI ⁺] Prion Formation and RNA Splicing in <i>S. cerevisiae</i>
36	STEAM	Yashvi Verma	Assessment of Spinal Motion Without Spine Deformity Using Inertial Sensor & Manual Measurements
37	STEAM	Christopher Strain, Ian Gellner	Pedestrian Crossing Over Route 440
38	STEAM	Colby Thorne	Method development for GC/MS analysis of nicotine and metabolites in plasma
39	STEAM	Matthew Tsodikov	Investigating the interaction between hyperglutamylation and microtubule depolymerization by KLP-7

40	STEAM	Karolina Wielowski	Integrating Experimental Data with Molecular Dynamics Simulations to Investigate the Biophysical Properties of Ena Pili
41	Social Justice	Michael Polania	Constraining the Stability and Mass Estimates of Resonant Exoplanet Systems *
42	STEAM	Aliyah Siddiqui	Comparative Overview of Primary Healthcare Systems in the United States, Cuba, and Netherlands *
43	STEAM	Chandler Storcella	Nationwide Newspaper Coverage of Opioid Use: Community Structure Theory and “Generational Responsibility” *
44	STEAM	Laila Isfahan	Sexual Identity, Screen-time, and Mental Health: Are they Related?
45	STEAM	Nicole Damiano	Obsessive Compulsive Disorder: Comparing Effectiveness of Psychological and Pharmacological Treatment Methods *
46	STEAM	Luca Bottitta	Coordinating steps in gene expression: analyzing the NuA4 acetyltransferase role in altering efficiency of RNA splicing
47	STEAM	Alex Whitmore	Witty Design Showcase
48	STEAM	Luciano Catizone	Luciano Catizone Senior Graphic Design Portfolio
49	STEAM	Angelica Bolon	[PNP] Ruthenium Complexes for Catalytic Applications

Session 4 - BSC 100, 3:45 pm - 4:45 pm

#	Topic	Student Presenters	Poster Title
1	Environment & Health	Briana Ficano	Developmental Stuttering
2	Environment & Health	Sabrina Goott	Unveiling Mental Health Realities: Exploring Anxiety and Depression in US Hispanic/Latinx Communities
3	Environment & Health	Kelsey Lally	Differences in the Presentation of Metaphors: Auditory vs. Visual
4	Human Experience	Caitlin Griffin	Differences Between Auditory and Visual Presentation of Metaphors
5	Human Experience	Lily Smith, Sol Garcia, Saanya Bhargava, Madeleine Lee	Criminal Justice Reforms and the Use of Polygraph Testing
6	STEAM	Patrick Callahan	Plenty of Phish in the Sea; A Look at Identifying Phishing Messages via Deep Learning
7	-	-	-
8	Environment & Health	Isabela Naranjo	Music and Metaphor: A Neurodivergent Interpretation
9	Human Experience	Nataly Lukonin	Musicianship and Metaphor Processing
10	Management & Communications	Siobhan Kelly	More Than Just Music: Spotify and the Book Industry

11	Global Perspectives	Samantha Tallis	An Introduction to Neurolinguistics: The Relationship Between Language and the Brain *
12	Environment & Health	Kennedy Pettiford	Relationship between creativity and metaphor comprehension
13	Human Experience	Tracy Termyna	Speech Sound Disorders within the School-Age Population
14	Environment & Health	Mary Ziminski	Childhood Trauma and Understanding Novel Metaphors
15	-	-	-
16	Environment & Health	Shannon Allen, Megan Maffei, Leah Macaulay, Samantha Barryman, Roman Fabbricatore	Nationwide Multi-City Newspaper Coverage of Birth Control Access: Community Structure Theory, Ethnic Identity, and Age
17	Environment & Health	Alyssa Hemsey, Isabella Percontino, Gianni Reddy, Maria Ibanez, Roman Fabbricatore	Nationwide Newspaper Coverage of Abortion Access: Community Structure Theory, Political Partisanship, and Position in Life Cycle
18	Environment & Health	Chloe Burke	Legalization ≠ Accessibility: How Uruguay's Abortion Laws Have Fostered Discrepancies Throughout All of Its Regional Departments
19	Environment & Health	Gabrielle Thibault, Erin Anthony	Non-Profit Organizations for the Homeless in Mercer County
20	Global Perspectives	Melanie Martinez	Type of Metaphor and Quality of Translation
21	-	-	-
22	Environment & Health	Vanshi Shah, Egan Petruccio, Brielle Caldwell, Rhett Burton, Brielle Caldwell, Qumayl Dato	Cultivating Mindfulness in College Life
23	Environment & Health	Michelle (Shelly) Bennett, Shelly Bennett	Communication Disorders and Intervention Techniques: Hospital vs School Setting
24	Environment & Health	Allisa Conover, Lucy Harris, Mary Alice Helgesen, Joseph Hutchinson	Zzz's for Degrees: Prioritizing Sleep for Academic Achievement in College
25	Environment & Health	Devon Pham, Hannah Weber	FAOMeT Gene Expression Dynamics in Carcinus maenas in Response to Environmental Salinity Changes
26	Environment & Health	Faith Gallagher, Trevin Daly, Victoria Billyard, Ryan Lavelle	Eat Well, Study Well: A Guide to Healthy Eating Habits for College Students
27	Environment & Health	Emily Joseph	Service Learning Pedagogy with Diverse Populations: Evaluating Nursing Student Civic Engagement with School-Aged Children with Disabilities
28	Social Justice	Jessica Damanski, Simranjot Mann	Beats for Soul: A music therapy program for Meals on Wheels participants with dementia * ^
29	Environment & Health	Simranjot Mann	Period Poverty from a Public Health and Legislative Perspective

30	Environment & Health	Camille Lansang, Aneri Upadhyay, Nikki Alexatos, Alyssa Ferry, Camila Gomez, Sabrina Sanchez, Mia Scutti, Kenya Caballero, Omar Farraj, Jules Ladalardo, David LaRaus, Catherine Osorio, Hayley Pardo, Olivia Shnyder, Lynne Abraham, Lauren Kuczmariski, Owen Paling, Ohm Patel, Andrew Velasquez	Binge Drinking in Male Long-Evans Rats Using a Sipper-Access Model: A Replication *
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Session 4 - Rec Center, 3:45 pm - 4:45 pm

#	Topic	Student Presenters	Poster Title
1	Environment & Health	Joseph Idone, Charles Ambio, Gerardo D'Antonio, Stuart Whitley, Gerardo D'Antonio	Working Minds: Effects of Exercise on Student Performance and Experience
2	STEAM	Jack Davis, Matt Mentonis, Dora Krstic, Josh Romero, Jill Stanton	2024 Steel Bridge Competition Team
3	STEAM	Melissa Grafer, Phil Temporado, Scott Schneiderman	Low Velocity Impact Tester with Imaging Capability
4	STEAM	Ajay Bhavsar	Atomic force microscopy imaging of optical microstructures
5	STEAM	Juliana Hanna	Investigating the role of NuA4 in Coordinating Transcription with RNA Splicing in Yeast
6	Management & Communications	Kelsey Fischer	Is AI the Future of Marketing?
7	Management & Communications	Arjana Goroveci	Technology and Privacy: The Future of AI Implementation and Privacy Concerns *
8	STEAM	Alice Qassabian	Does Apoptosis Cause Reduced Brood Size in ccpp-1 C. elegans? *
9	Management & Communications	Andrew Kibalo	ESG Disclosure and Firm Performance
10	Management & Communications	Nicholas Borgese, Emanuel Palatianos, Brandon Perini	Herbert B. Mayo Student Investment Fund (SIF)
11	Environment & Health	Angela Giamos	Audit of Local Business Utilizing the Sustainable Development Goals
12	STEAM	Amechelle Leander	Investigating evolved differences in juvenile feeding behavior of threespine stickleback fish
13	STEAM	Em Madeira	How Can I Help You: A Narrative Indie Game
14	STEAM	Isabella Mastrocola	Isabella Mastrocola Senior Graphic Design Portfolio
15	STEAM	Cameron McGovern, Jorge Carmona, Emma Route	Fluctuating Secondary Structure in Late Embryogenesis Abundant Peptides: Effects of Salt in Aqueous and Dry Environments

16	STEAM	Marianna Medina, Sri Manyata Peddinti, Om Balar, Amanda Kirschner	Purification of metalloenzyme YtFE for fragment-based drug discovery
17	STEAM	Hannah Nielsen	Senior Portfolio
18	STEAM	Dean Olivier	Portfolio Showcase
19	STEAM	Courtney Osowski, Kimberly Liu	Creating Conductive Polymer Nanofibers for Biological Sensing Applications
20	STEAM	Grace Palahnuk, Mario Rezkalla, Nathaniel Safar, Steve Vazquez	AirEase BiPAP Mask
21	STEAM	Caitlyn Pansini	Caitlyn Pansini Senior Graphic Design Portfolio
22	STEAM	Annamarie Piccirillo, Katerina Pratsinakis, Ryan LaPare, Zachary Steffens	Modified Vac-Assisted Male External Catheter System *
23	STEAM	Nia Quigley	Nia Quigley - Senior Graphic Design Portfolio
24	STEAM	Sebastian Sanchez	Sebastian Sanchez Senior Graphic Design Portfolio
25	STEAM	Joshua Scally	Differentiating Star Formation from Active Galactic Nuclei in Post Starburst Galaxies
26	STEAM	Renee Schneider, Robert Szargowicz	CP Farm Stand Land Redevelopment and Traffic Improvements
27	STEAM	Sophia Scholz, Amrutha Swaminathan	Can Individual Responses to Environmental Variation Contribute to the Formation of New Species?
28	STEAM	Matthew Shenouda	Matthew Shenouda Senior Graphic Design Portfolio
29	STEAM	Vincent Territo, Dean Klunk	Searching for Supernovae with TCNJ's 27 inch telescope
30	STEAM	Alexa Vavrek	Alexa Vavrek - Senior Graphic Design Portfolio
31	STEAM	Alex Whitmore	Alex Whitmore Senior Graphic Design Portfolio
32	STEAM	Nikki Williams	Optimization of Mesalamine with Crystal Engineering
33	STEAM	Dua Moez, Lauren Emerson, Leiora Islam	Maternal Effects on Behavior in Daphnia magna
34	Human Experience	Caitlin Conway, Ally Tobler	Celebrating Student Success In Reading
35	STEAM	Seamus D'Angiolillo	Graphic Design Works
36	Environment & Health	Nicholas Hanna	Are Ev's the Solution to Reducing Environmental Risk to Climate Change *
37	Environment & Health	Stephanie Salvanto	Effects of Different Preservation Methods on Oyster Shell Hardness
38	Environment & Health	Sarah Curtis, Jules Silverman-Joseph, Cobey Meyer, Uchenna Urgoji	Mind Matters: How Therapy Enhances Well-being for College Students
39	Environment & Health	Nicole Izzo, Nadia Digioia, Quinn Gallagher, Kristine Wall, Quinn Gallagher, Dalia Lorenz	Navigating Love and Friendship: Creating Healthy Relationships on Campus
40	Human Experience	Riley Stellitano	How do American Zen communities expand geographically? *

41	Human Experience	Ashlyn Sterinsky	Child Marriage In Bangladesh
42	Human Experience	Hannah Weinglass	Organizational Development and Programming: Comparison of Two Networks of Zen Communities
43	Human Experience	Cassidy Ross	Organizational Development and Community Engagement in American Zen Communities
44	Human Experience	Kelly Donnelly	Governance Structure in Different Zen Traditions
45	Human Experience	Alexis Cherby, Arleth Zuniga, Kailyn Kerr	Catherine De MeDici: The Fact and Fiction of Renaissance Women
46	Human Experience	Grace Ruthe, Rosa Rosado, Caleb Woolard	Artemisia Gentileschi
47	Human Experience	Erin Parker, Emma Huegi, Sarah Miller	Who Was Lady Jane Grey? *