

# BSC 100 Posters Session 1: 8:45–9:45 a.m.

#	Topic	Student Presenters	Poster Title
1	Environment & Health	Nancy Bowne	Cross-national Media Coverage of Refugee Health: Community Structure Theory, Health Vulnerability, and Female Privilege
2	Environment & Health	Bianca Torres	Prevalence of diabetes in the Hispanic community
3	Environment & Health	Mariella Brillantes, Anthony Cuccurullo, Ethan Moss, Michaela Sless, Hailey Balmos	Social Capital and Trust in Times of Fake News and Distrust in Science
4	Environment & Health	Maria Torraca	The Experiences of Women With a History of Depression When Using a Responsive Bassinet During the COVID-19 Pandemic
5	Environment & Health	Nicole Woods, Fox Parks , Alexi Esposito, Katherine Naiburg	Cross National Newspaper Coverage of Suicide during the Pandemic: Community Structure Theory, Health Access, and Resource Privilege
6	Environment & Health	Casandra Barroqueiro	Speech and Language Intervention for Autism
7	Environment & Health	Jack Hutchinson	Behavior Flow: Software's Ability to Alter Autism Intervention
8	Environment & Health	Brielle LoBello, Jess Munyan, Devin Roughan	Social Vulnerability and Adult Asthma Prevalence in New Jersey Counties: An Ecological Study
9	Environment & Health	Hailey Balmos, Emily Frizell, Ethan Moss	Cross-National Coverage of Human Trafficking: Testing Community Structure Theory
10	Environment & Health	Matthew Pedowitz	Have natural disasters gotten worse over the years?
11	Human Experience	Isabella Liguori, Cole Chandler, Ashley Guerrino	The Power of Words: Language, the Printing Press, and the Bible
12	Human Experience	Ally Tobler, Rachel Olla, Devyn Chulamanis	Analyzing Adam and Eve and Original Sin
13	Environment & Health	Alexis Cherby, Kristen Kelly	Homoeroticism and the Passion
14	STEAM	Amanda Wisniewski, Jonathon Pecora, Jacob Plungis, Haris Alam	Fixed Wing Aircraft Design
15	STEAM	Ismael Nunez, Jack Lacina, Nicholas Scalafani	Route 440 Connector Transformation
16	STEAM	Mahnoor Ahmed	Investigation of F pilus dynamics under force and differing temperature environments using molecular simulation
17	STEAM	Tyler Alonso	Approximating the Real Numbers with Continued Fractions
18	STEAM	Emily Bowen, Saima Mirza	Juvenile tree dynamics during canopy loss due to Emerald Ash Borer; Ashes vs Maple
19	STEAM	Sean Burnnett, Michael Bond, Darion Parks, Jack Delvecchio	Autonomous Drone with Thermal Imaging Capabilites
20	STEAM	Claira Cunningham	YqgF Impacts 16S rRNA Maturation in Acinetobacter baylyi ADP1

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#	Topic	Student Presenters	Poster Title
21	STEAM	Caroline Devine	Assessment of Alternate Catalytic Activity of Type I FPPS
22	STEAM	Saimanish Dhulipala, Michael Zampetti	Base Metal complexes containing strong field [PNP]/[PCP] Pincer ligands
23	STEAM	Olivia Hiltke	The Effects of Hyperglutamylation on the Brood Size and Egg Laying Behavior of <i>C. elegans</i>
24	Management & Communications	William Parr, Joseph Fiordaliso, Madison Donohue	Herbert B Mayo Student Investment Fund: Investing in the Ewing Community

#	Topic	Student Presenters	Poster Title
1	STEAM	Hayley Conway, Rachel Hannah, Kevin Christensen, Zach Hauptman	ASCE Concrete Canoe
2	-	-	-
3	STEAM	Michelle Meyers	Relationship between Neurobehavioral Changes and Bone Deficits caused by Space Radiation Effects
4	STEAM	Caroline Artymowicz	Subcellular localization and role in pollen development of the jasmonic acid receptor (COI) protein family in <i>Zea mays</i>
5	STEAM	Aishwarya Arumugam	The effect of serotonin deficiency on heart rate and heart rate variability in male and female neonatal mice
6	STEAM	Emily Behnke	Investigating the Function of Bacterial YqgF
7	Human Experience	Mia Cinquegrano, Tara Richardson, Julianna Grusso, Maya Hedstrom	Replication of Piff 2014
8	STEAM	Anna Bergen	A Comparison of Floral Scent Across 16 Species of Lonicera and Implications for Pollination Biology
9	STEAM	George Beyjoun	Genetic Variability of FAOMeT in <i>Carcinus maenas</i>
10	STEAM	Yoelis Brito, Nicholas Alvear, Christopher Klemmtz, Samuel Akinlolu, Argenis Marmolejos	Smart Medicine Dispenser
11	STEAM	Daniel Canales	Parham cyclization chemistry with 1,2-cyclohexanedione
12	STEAM	Nicholas Cappello, Joey Stahl, Zain Shaikh, Tyler Schaberick, Justin Mazzitelli	High Altitude Weather Balloon
13	STEAM	Nicholas Cavallero	Effect of Galactic Cosmic Radiation on Bone Microstructural Strength
14	STEAM	Andrew Cislak	IMM 499 Poster
15	STEAM	Raegan Gautam	Examination of Phosphoproteins in Lobster Exoskeletons
16	STEAM	Amanda Graessle	Spectral Energy Distributions of Evolved Stars
17	STEAM	John Green	Refinement of ICE-Ball Instrument
18	STEAM	Isaac Gutierrez	Covariation between multiple measures of physiological health in a free-living bird
19	STEAM	Maria Hannoush, Jessica Damanski	Investigating why hyperglutamylation causes reduced brood size defects in <i>C. elegans</i>
20	STEAM	Jeanique Hawks, Kaylize Denoto, Timothy Nerveza, Andrew Zhao	Low Resource Infant Incubator

#	Topic	Student Presenters	Poster Title
21	STEAM	Alexa Karpus, Madison Lenz, Tyler Morelli, Anthony Santasiero	Green Lane Field Hall Design
22	STEAM	Vani Lorish	Simulating the Dynamics of a Membrane Bound ATP/ADP Transporter
23	STEAM	Alexis Luglio, Angelica Bolon	Synthesis, characterization, and coordination chemistry of new [NNN]-dianionic pincer ligands containing triisopropylarylsulfonamide groups
24	STEAM	Brianna Marciano	Photomechanical Crystals
25	STEAM	Charles McBride, Claude Lund, Brian Puccio	Lightning Detection and Early Warning System
26	STEAM	Mary Spireas	Organolithium chemistry using dichloromethane as solvent
27	STEAM	Ryan Pagnillo	Investigating the Influence of AOC2 Gene on Jasmonic Acid-Regulated Defense in Zea mays
28	STEAM	Christina Tonks, Caroline Petrie	Synthesis and Characterization of Cyclic Peptide Inhibitors to Thrombosis Initiation
29	STEAM	Charlotte Roarty, Connor Conyngham, Sean Healy, Owen Soler, Paige Rocco	ASCE/AISC Steel Bridge Competition
30	STEAM	Jazmine Shaw	Assessment of Shell Properties in Adult Acorn Barnacles
31	STEAM	Venkata Singamneni	Breathing in a dish: Developing in vitro methods to measure central respiratory rhythm in neonatal mice
32	Environment & Health	Sophie Greenberg, Tommy Staples, Mariam Elnaggar, Julia Spano, Alyssa Phillips	PSY299 Replication Study
33	Social Justice	Lily Smith, Maya Remisio, Aleya Washington, Lindsey Giordano, Meyer Higgins-Griffit	Wealth and the Inflated Self
34	STEAM	Alexandra DiBenedetto	Predictors of Mental Health
35	STEAM	Allyson Schlee	Effects of College Attributes on Collegiate Athletic Programs' Success
36	Social Justice	Yasmin Ruiz, Aamna Siddiqi, Taylor Vigarito	Aiming Towards Equity: Professors Readiness Towards Supporting MLL Students

## BSC 100 Posters Session 2: 10:00–11:00 a.m.

#	Topic	Student Presenters	Poster Title
1	STEAM	Remilia O'Connell	Journeys and Jazz: The Fruits of the Gods
2	STEAM	Amy Vargas, Anthony Barreto, Will Dowlou, Kira Edgar, Eli Gemeinhardt	Boxman: The Video Game
3	Environment & Health	Nicole Diaz, Julia Dakwar	Genetic Analysis of Corbicula fluminea Populations in New Jersey
4	Environment & Health	Emily Podd	Progress Towards Polyolefin Upcycling
5	Environment & Health	David Roberts	Ocean Wind One: A Vehicle Toward Net-Zero Carbon or Disrupter of Wildlife?
6	Environment & Health	Vanessa Seidner	Exploring the Relationships Between Tobacco Product Use, Race, Ethnicity, and Age of Initiation
7	Environment & Health	Mary Catherine Innace, Christel Burrell, Jared Lyles, Kayla Shorter	Cross-National News Coverage of Children's Food Security: Community Structure Theory and National Resource Growth
8	Environment & Health	Annie Luglio, Laura Bortnick, Zeenat Kagalwalla, Shivam Nangia, Elan Krakow	The Effects of Mindfulness on the Metacognitive Model of Angry Rumination
9	Environment & Health	Gianna Maldonado	An Overview of Overdose Prevention Sites
10	Environment & Health	Devin Roughan	Police naloxone access: Controversies, policies, and public health recommendations
11	Management & Communications	Gina Schmid	Nationwide Multicity Coverage of Gender Wage Disparities: Community Structure Theory, Generations, and Belief Systems
12	Management & Communications	Aneta Sieminski	The impact of leadership on employee support during organizational mergers: A psychological contract perspective
13	STEAM	Michael Polania	Dark Matter Content in the Milky Way
14	Management & Communications	Madison Fahmy, Matthew Seitz, Jamie Murtha	Busy Bees Pollinator Gardens: A Business Opportunity for Sustainable Development
15	Management & Communications	Michael Mutnick, Arziki Delauney, Salvatore Zotti, Thomas Devito	CFA Team Lion Shares Investment Knowledge: Should You Invest in Bank of New York Mellon using the Dividend Growth Model?
16	Management & Communications	Celine Rafferty	Is Space Exploration Worth It? An Interdisciplinary Unit Plan
17	Human Experience	Sara Fallon, Victoria Kerins, Steven Must	The Execution of Charles I
18	Human Experience	Emily Johnson, Isabella Bernardo	Protestant Marriage vs. Catholic Virginity
19	Human Experience	Hannah Minarick, Ian Muni	Pre-Reformation Catholicism
20	Human Experience	Katelyn Harvey	The Nail in the Coffin: Assessing chronology from historic nails and screws

## BSC 100 Posters Session 2: 10:00–11:00 a.m.

#	Topic	Student Presenters	Poster Title
21	STEAM	Sophy Vuong	Musashi1's translational regulation of adult neural stem cell quiescence
22	STEAM	Karolina Wielowski	Solid-State Forms of Azobenzene Dyes.
23	Environment & Health	Emilie Allison, Shenney Lin	Molecular and morphological analysis of Lampsilis species in the Potomac River using 2D morphometric analysis and DNA barcoding.
24	Environment & Health	Joseph Bergen, Leandra Pesantes	7-Azaindole Dimers as Molecular Models for Proton-Coupled Electron Transfer in DNA
25	STEAM	Jenna Delgado	The effects of deer herbivory on the growth of leaves and abundance of woody canopy tree species: why what you eat is more important than you think.
26	Environment & Health	Haley Bove, Cassandra Burgos, Amanda Demko, Chehila Labrada, Jasmine Martinez	The Role of Negative Metacognitive Beliefs, Rumination, and Anger Related Constructs

#	Topic	Student Presenters	Poster Title
1	Social Justice	Ismael Nunez	Urban highways and community isolation in Perth Amboy, New Jersey: A case study
2	STEAM	Steven Mendez, MacKenna Durbin	Sheltering preferences of neonatal <i>L. getula</i> and <i>P. guttatus</i>
3	Global Perspectives	Casey Lopez	Factfulness: Gaining a Better Perspective of Today's World
4	STEAM	Druscilla Kojjem	STEM Exposure and Engagement for Minority Students: Bridging the Gap in Equity
5	Global Perspectives	Matt Rose	The World May Not Be As You Think It Is
6	Global Perspectives	Elijah Teopaco	Thoughtfulness: Why Things Are Not as Bad as They Seem
7	Human Experience	Victoria Gladstone	The 2021 Pulitzer Prize in Public Service
8	STEAM	Amgad Ishak	Analysis of Cytoplasmic Polyadenylation During Embryogenesis in <i>Danio rerio</i> (Zebrafish)
9	STEAM	Caitlin Janisheski, Nivedita Kinatukara	Studies on the Synthesis of Aryl Silyl Ketones
10	STEAM	Brianna Jarvis, Ronald Yusim, Amy Otarola, Luke Butler	Territorial aggression in relation to road proximity in a habitat-sensitive songbird
11	STEAM	Dean Klunk	Forward Modeling Constraints of Well-Characterized Supermassive Black Holes
12	STEAM	Kirthana Krishnamurthy	Differential association of microhardness and pH in adult and juvenile Golden King Crabs
13	STEAM	Alyssa Minnella	Base Metal Catalysts for CO <sub>2</sub> Functionalization
14	STEAM	Talha Murad, Talha Murad	Dual Beam Antenna Array
15	STEAM	Anika Pruthi, Lex Steigelman, Jennifer Goldstein	Computer guided design of novel biocompatible room temperature ionic liquids
16	STEAM	Soham Sen	Herbivory and Leaf Fusion in <i>L. Sempervirens</i>
17	STEAM	Umer Shah	Investigating the activation/deactivation mechanisms of jasmonate signaling in maize ( <i>Zea mays</i> )
18	STEAM	Thomas Smith, Kevin Rodriguez, Justin Illes, Daniel Siegel	Heat Assisted Lumbar Orthosis
19	STEAM	Lauren Terr	Aquatic Locomotion
20	STEAM	Jessica Trenholm	Analysis of ethanol in beer using portable gas chromatography

#	Topic	Student Presenters	Poster Title
21	STEAM	Anna Dorval	A Polynomial Chaos Approach to Predicting Swimming Performance
22	STEAM	Regan Kenia, Issac Gutierrez	How does proximity to a road affect the health of an edge-sensitive songbird?
23	Human Experience	Sarah Branco	Global Improvement of Education
24	STEAM	Sabrina Vander Wiele, Andrew Mayer, Michelle Meyers, Jack Felipe	Kangaroo Care Simulator
25	STEAM	Eileen Yizzi	Analysis of Lion's Mane Jellyfish Kinematics to Predict Swimming Efficiency
26	STEAM	Allie Capik, Christell Noel	Analysis of the Zebrafish Zsquid Family During Early Embryogenesis
27	STEAM	Justin Martinez, Cristian Herrera Alpizar, Sri Manyata Peddinti, Amanda Kirschner, Michelle Amaechi	A Roadmap to screening potential inhibitors for metalloenzyme YtfE in silico and in vitro
28	STEAM	Sadhvi Mohankumar, Deep Patel	Optimizing VIGS Technique to Silence IAA-Amidosynthetase Gene in Maize
29	STEAM	Neel Patel, Sathya Rameshkumar	Can Individual Responses to Environmental Variation Contribute to the Formation of New Species?
30	STEAM	Nicholas Cavallero	Effect of Galactic Cosmic Radiation on Bone Microstructural Strength
31	STEAM	Benshel Bright	Triclosan's effect on the in vitro cultured polarized intestinal epithelial cells



#	Topic	Student Presenters	Poster Title
1	-	-	-
2	STEAM	Jibran Abbasi	Undecidability Through Turing Machines
3	STEAM	Brennan Neubauer	Representation Theory
4	-	-	-
5	STEAM	Aaron Eiseman	Nim-Values of Chomp
6	STEAM	John Figueroa	Moduli Spaces
7	STEAM	Julia Mahoney	Aerodynamics of a Golf Ball with Fibonacci Lattice Pattern and the Physics of the Golf Swing
8	STEAM	Robert Rust	The Mathematics Behind Our Elections
9	STEAM	Noah Goldstein	Rook Polynomial Capstone
10	STEAM	Gehrig Rios	Costas Arrays
11	STEAM	Shane Cummis	The FitzHugh-Nagumo Model
12	STEAM	Haley Bergmann	The Merkle-Damgård Transform
13	STEAM	Jarrod Siegel	Using Statistics to Create a Better Player Experience in PVP Video Games
14	STEAM	Patrick Thomas	Combinatorial Game Theory and Nim
15	STEAM	Pierce Wickenden	Variational Calculus and its Applications
16	STEAM	Cassie Fierro	Introduction to Markov Chains
17	STEAM	Dan Bradley	An Introduction to Topics in Fourier Analysis
18	STEAM	Sean Manning	The Binomial Distribution and Its Relatives
19	STEAM	Katie Mohring	The Hellmann–Feynman Theorem
20	STEAM	Anna Dorval	An Overview of Particle Swarm Optimization

#	Topic	Student Presenters	Poster Title
21	STEAM	Kendra Ebke	Perturbation Methods for Nonlinear Differential Equations
22	STEAM	Zander Prokop	Leontief's Input-Output Model
23	STEAM	Keara Cadavid	MAT 498-01 Capstone
24	STEAM	Meghna Gohil	Linear Least Squares
25	STEAM	Olivia Buote	Solving PDEs Using The Method of Characteristics
26	STEAM	Alexa Karamanoogian	A Brief Overview of Green's Function
27	STEAM	Joseph Fosco	Markov Chains and the Stationary Distribution
28	STEAM	Kimberly Robinson	The Chinese Remainder Theorem
29	STEAM	James Polcaro	Analyzing and Understanding Nonlinear Dynamical Systems
30	STEAM	Emma Lilleywhite	Linear Programming: The Simplex Method
31	STEAM	Jack Ramina	A random walk through discrete and continuous mathematics
32	STEAM	Aahna Rathod	Mathematical Mayhem: Exploring Chaos Theory in the Lorenz System
33	STEAM	Bobby Wortman	How The MLB Can Utilizes Sabermetrics
34	STEAM	William Calabrese	Model to Predict Real Estate Prices
35	STEAM	Joseph Blaes	Probability in Baseball
36	STEAM	Caroline Francesconi	An Analysis of Gender Inequality in the Film Industry
37	STEAM	Julia Frankenbush	What do we Fear?
38	STEAM	Michael Morreale	Chess Openings
39	STEAM	Lindsay O'Keefe	Predicting the Premier League using Statistical Modeling
40	STEAM	Eileen Yizzi	Exploring the Runge-Kutta Methods and their Applications
41	STEAM	John Sullivan	Analysis of Health Factors used in Stroke Prediction

# BSC 100 Posters Session 3: 2:15–3:15 p.m.

#	Topic	Student Presenters	Poster Title
1	Environment & Health	Alexander Cocco	V.I.E.W.S.
2	STEAM	Peter Kelly	Implement Grover's Algorithm-based 4x4 Sudoku Solution with Qiskit
3	STEAM	Robert Helck	Toward developing an Android app for the wayfinding of visually impaired persons in the STEM building.
4	STEAM	Nicolas Bonaguidi	How does body and facial tracking affect immersion in virtual reality?
5	STEAM	Shane Matyi	Investigating the effect of wind blowing on presence and enjoyment in virtual reality
6	STEAM	Maxwell Parrone	Virtual Personal Trainer
7	STEAM	Raahi Desai	3D Printed Microfluidic Devices with Incorporated Short Electrospun Nanofiber
8	STEAM	Sean Elefant	An Indoor Navigational Tool for the TCNJ Library Using the Ionic Framework
9	STEAM	Breanna Cheung	Designing an automated tool for strategic beacon placement in wayfinding applications
10	STEAM	Jessica Longstreth	Vacuum Sealed Parallel Plate Flow Chamber for Confocal Visualization of Thrombus Formation
11	STEAM	Jared Schmidt	A Parallel Construction of Generalized Suffix Tree based on Ukkonen's Algorithm
12	STEAM	Vivek Bharadwaj	Real-Time Conducting Feedback using Computer Vision and MediaPipe
13	STEAM	Yehuda Binik	Protein Variant Design Library
14	STEAM	Sri Manyata Peddinti, Amanda Kirschner, Michelle Amaechi, Justin Martinez, Cristian Herrera Alpizar	Purification of Nitrite-Reducing Metalloenzyme YtfE
15	STEAM	Aahna Rathod	Analysis of Leaf Shape Evolution across Honeysuckles, using Herbarium Specimens and Machine Learning
16	STEAM	Jaclyn Carifi, Kelly Jung	Conceptual Foundations of Explainable Artificial Intelligence
17	STEAM	Benjamin Lifshy	Performance evaluation of smart grid applications in capacity-constrained communication networks
18	STEAM	Alexa Karamanoogian	Investigating the Michaelis-Menten Assumption with a Data-driven Modeling Approach
19	STEAM	Skylar D'Angiolillo	Quantifying Planetary Mass Uncertainties
20	STEAM	Nicole Diaz, Kaitlyn O'Kean, Yash Valia	Measuring Functional Connectivity of Small Bursting Neuronal Networks

## BSC 100 Posters Session 3: 2:15–3:15 p.m.

#	Topic	Student Presenters	Poster Title
21	STEAM	Kayla Shorter, Nikhil Parab	A meta-analysis of water quality impacts on the growth and persistence of Legionella pneumophila in biofilms
22	STEAM	Taniya Sood	Characterization of Macromolecule Diffusion of Electrospun (Es) Fibers Embedded in Microfluidic Devices
23	Human Experience	Dana Laissle	Socio-Historical Profiles of Roebling Wire Works Employees and Immigration in the Trenton Community
24	Human Experience	Carolyn McDonough, Claudia Masclans, Maria Klementyev	James I and Witchcraft
25	Environment & Health	Vanessa Seidner	Exploring the Relationships Between Tobacco Product Use, Race, Ethnicity, and Age of Initiation

#	Topic	Student Presenters	Poster Title
1	STEAM	Abigail Klimas, Naileny Rodriguez , Alice Qassabian	TTL Double Mutants Display Normal Dye Filling but Reduced Male Mating Efficiency in <i>C. elegans</i>
2	STEAM	Phylcia Menendez	Early Stages of Barnacle Exoskeleton Formation in <i>Amphibalanus amphitrite</i>
3	STEAM	Daniel Canales	Application of Parham Cyclization with 1,2 Cyclohexadione
4	STEAM	Thomas Hendrickson	Study of Michael Reactions
5	STEAM	Jennifer Goldstein, Zachary Alseika	Measuring the biophysical properties of archaeal type IV pilins using molecular dynamics
6	Social Justice	Nelly Sanchez Aranda	Trenton @ TCNJ
7	Social Justice	Brianna Dunmeyer	An 'A to Gen-Z' Approach To Sexual Health Education
8	Social Justice	Jasneet Kaur, Adia Nasir	Unlearning School: Social Foundation Courses Effect on Preservice Teachers
9	Social Justice	Ryan Knox	An Evaluation of Criminological Research on Body Worn Cameras (BWCs)
10	Social Justice	Nathaniel Such, Stosh Omiecinski, Jules Boyle, Rachel Guloy, Nathaniel Such	Students' Perceptions of Community Engaged Learning
11	STEAM	Nitya Devisetti	Investigating the progression of knee osteoarthritis in immunodeficient mice
12	STEAM	Julie Duarte, Janaka Seneviratne	How do yeast turn on their genes? The role of RSC2 in coordinating transcription and RNA splicing.
13	STEAM	Catherine Fairfield, Jorge Carmona	Order from Disorder: Conditions that induce structure in an intrinsically disordered protein
14	STEAM	Michael Franco-Garcia, Derek Dancsecs	Autonomous Racecar
15	STEAM	Marc Giordano, Sean Glynn, Evan Grzeskiewicz, Mann Patel, Kevin Valente	Mixed Use Development in Union, New Jersey
16	Environment & Health	Anthony Cuccurullo	Global Prevalence of <i>Cryptosporidium</i> spp. in Dairy Cattle: A Meta-Analysis
17	Environment & Health	Sabrina Vander Wiele	Bone Microstructural Changes in Rat Tibias exposed to Space Radiation
18	Social Justice	Ellie McCreesh , Cassie Riley, Jillian Ethem, Alexander Francois	Cross-National News Coverage of Child Labor: Testing Community Structure Theory
19	Environment & Health	Ann-Kerry Donaus, Zach Suter, Owen Davidson, Brielle LoBello	Cross-National Newspaper Coverage of Human Trafficking: Testing Community Structure Theory
20	Environment & Health	Brielle LoBello, Gabi Valladares, Gina Schmid	Nationwide Multi-city Coverage of the Dobbs Decision Overturning <i>Roe v. Wade</i> : Community Structure Theory and the Importance of Evangelicals

#	Topic	Student Presenters	Poster Title
21	Environment & Health	Angie Tamayo Leon, Julia Reasoner, Will Reiman	Abortion Access among the Latine Population in the United States
22	Environment & Health	Megan Heintz, Britny Alvarado, Robin Orr	Teen Pregnancy in Hispanic Populations (Poster in Spanish)
23	Environment & Health	Natasha Crespo	HIV in the Hispanic Community (Poster in Spanish)
24	Environment & Health	Gianna Maldonado, Rebecca Klein, Molly Nirschl	Mental Health in Hispanic/Latino Communities (Poster in Spanish)
25	Social Justice	Sorena Joseph, Melanie Moran	Linguistic Journeys to Linguistic Justice: Navigating SLP from a Black and Latine Perspective
26	Social Justice	Gysella Rosado	Reproductive Policies for Incarcerated Women
27	Social Justice	Lauren Wright	A Comparison of Sexual Assault Experiences, Responses, and Prevention Methods in the United States and the United Kingdom
28	Social Justice	Elizabeth Samuel	How effective are the policies affecting incarcerated individuals and their mental health?
29	STEAM	Ismael Montero-Rinaldi, Rahul Panoli, Julia Vardiman	Peritoneal Dialysis Infection Detection Device
30	STEAM	Lauren Morano	Reactivity of Palladium [NNN] Pincer Complexes in Suzuki–Miyaura Coupling Reactions
32	STEAM	Aminah Mubin, Allan Hrisenko	The Effect of Cadmium Chloride on the Male Mating Efficiency of <i>C. elegans</i>
32	STEAM	Amy Otarola, Brianna Jarvis, Ronald Yusim, Luke Butler	Behavioral aggression in relation to blood-oxygen carrying capacity in a bird
33	STEAM	Benjamin Winkler, Jacob Ringers, Wally Lizardo, Patrick Murphy	Bouncing LoRa Signals off the Moon
34	STEAM	Ria Shah	Evolution of Floral Morphology in <i>Lonicera</i> (Caprifoliaceae)

#	Topic	Student Presenters	Poster Title
1	STEAM	Nicole Molnar	A Bioinformatic Analysis of zSqd proteins in Zebrafish
2	STEAM	Patrick Fee, Anthony Cooper, Sydney Granholm, Sara Loverich	Redesign of Sea Bright Rumson Bridge
3	Environment & Health	Rayhanah Ahmed, Radhika Vyas	Birthing Practices: A Comparative Review Between The United States and Rural India
4	Environment & Health	Kasey Hammer, Lucas Cortes, Ciana Gibbon	Physiotherapy in India: Our Perspective
5	Environment & Health	Sarah Curtis	Sibling Adjustment to Diabetes and Educational Needs: A Review of the Literature
6	Environment & Health	Brian Amigh	Placebo Power: How Belief Can Influence Brain Chemistry
7	Environment & Health	Aamina Arain, Amanda Levy, Sophia Santos, Giana Pellot, Madelyn Saltstein	The Effects of Positive Metacognitive Beliefs on Rumination and Anger Related Constructs
8	Environment & Health	Hannah Balla	Urban Heat Islands - A Guide for Parents
9	STEAM	Jax DiEugenio	Implications of rising heat and precipitation indexes on infectious mosquito and tick Populations in New Jersey
10	Social Justice	Sathya Rameshkumar	Business Policy and Ethics in Healthcare
11	Environment & Health	Christina Gulotta	Population genetics of the invasive Spotted Lanternfly ( <i>Lycorma delicatula</i> ) between Pennsylvania and New Jersey populations
12	Environment & Health	Keira Killeen	Policy Options for Population Management of the Invasive Spotted Lanternfly ( <i>Lycorma delicatula</i> ) in NJ and PA
13	Environment & Health	Tess McInerney	The Relationship Between Pancreatic Insufficiency and Pseudomonas Infections Among CFTR variations in Individuals with Cystic Fibrosis
14	Environment & Health	Natalie Radano	Augmentative Alternative Communication for Children
15	Environment & Health	Emilu Rinaldi	The Role of Speech Language Pathologists in Bilingual-bicultural Schools for the Deaf
16	Environment & Health	Hanna Stutzman	College student's perception of Superfund Sites and how they affect health
17	Environment & Health	Steven Zalatoris	What we know about Social Capital and Immigration: results of a systematic review
18	Human Experience	Ann Mulligan, Kristen Morgan	Martyrdom in British Literature
19	Human Experience	Victoria Ferrisi, Rebecca Briegs	Women's Education in Britain between 1550 to 1700
20	Human Experience	Tracy Termyna	Cluttering and Stuttering

## BSC 100 Posters Session 4: 3:30–4:30 p.m.

#	Topic	Student Presenters	Poster Title
21	Social Justice	Julie Abaci	Intertwining Personal and Environmental Wellbeing in Textbook Accessibility Reform
22	Human Experience	Alyssa Polo, Madeline Campbell, Grace Ruthe	Lancashire Witch Trial of 1633/34
23	STEAM	Allison Burton, Rachel Panetta, Rachel Holden, Jessica Longstreth	Point of Care Detection Device
24	Environment & Health	Robby Fishman	Wishcycling Education Project
25	Environment & Health	Andrew Velasquez, Rachel Guloy, Nikki Alexatos, Sophia Alexis, Olivia Fraser, Camille Lansang, Owen Leynes, Aneri Upadhyay, Alyssa Diana, Matthew Duca, Aylin Jimenez, Beck Kern, Jules Ladalardo, Ohm Patel, Ella Suchora, Alison Widmer, , ,	The Effects of Environmental Enrichment on Ethanol Consumption in Male Long-Evans Rats Using a Sipper-Tube Model



#	Topic	Student Presenters	Poster Title
1	STEAM	Jacob Stephan, Christopher Quinlan	Design of the Electric Power-Train for a 2 Passenger ATV
2	-	-	-
3	STEAM	Tyler Griffin, Matt Martinez, Will Heidelberger, Frank Battaglia	2022-2023 ASME Human Powered Vehicle Competition
4	STEAM	Nia Harish, Matthew Bohr, Nithya Nalluri	Autonomous Rover for Natural Disaster Navigation Senior Project
5	STEAM	Anthony Russo, Steven Pedraza, Thomas Egan, Thomas Romeu	TCNJ Unmanned Aerial Vehicle Team 2022-2023
6	STEAM	Doria Hoffman, Sarah Gildea, Zachary Hem, Valentina Palomo	Upper Extremity Medical Training System
7	STEAM	Cindy Nguyen, Harish Easwaraiah, Lindsey Rotoly	Pressure Healing Assistive Mat
8	STEAM	Patrick Sullivan, Michael Merritt, Angelo Scala, Chantheary Lam	NormaGait
9	STEAM	Zachary Evangelista	Wildlife Conservation Unit for Third Graders
10	STEAM	Iknoor Grewal, Iknoor Grewal	Investigating the biophysical effects of amino acid mutations on E. coli CFA/I and CS20 pili.
11	STEAM	Ellie LoPresti, Briana Brown, Cecelia Lawyer	Lipid nanoparticles as vehicles for gene transfer
12	STEAM	Jenny C. Kafas	Ecological factors affecting mechanical prickly defenses in forest plants
13	STEAM	Esha Kode	Investigating the temperature effects of Leu72 mutation in E.coli's CFA/I adhesion pili
14	STEAM	Kristella Lieu, Nicolette Tumaszc, Jianna Nieves	ECE Center for Intelligent Systems Banner Display
15	STEAM	Jack Maes, Melissa Wences, Ryan McGuire	Halls Mill Road and Route 9 Redesign
16	STEAM	Josie Maguire	Expression of Serratia marcescens extracellular nuclease in Komagatella phaffii
17	STEAM	Carly Marotta, Terrence Tan	Development of a Polymer Chemistry Laboratory for an Undergraduate Physical Chemistry Course
18	STEAM	Nicole Lim, Elli Lopez	Autonomous Navigation Robot Guide Dog
19	STEAM	Kaely Máire Sturges	Programming for Adults with Intellectual and Developmental Disabilities: Bonner Legacy Project
20	STEAM	Angela Mo	Biomechanical Properties of Inducible Defenses in the Eastern Oyster in Response to Predator Cues

#	Topic	Student Presenters	Poster Title
21	STEAM	Raahi Desai, Kwame Markin, Taniya Sood, Kevin Kowalski	IVenture: Motorized Intravenous Infusion Stand
22	STEAM	Shreya Ranadive, MaryAngela Senter	Exploring the Role of CYP72A Enzymes in the Zea mays Stress Response
23	STEAM	Audrey Riccitelli, Alex Saykali	A Novel Connection Between [PSI+] Prion Formation and RNA Splicing in <i>S. cerevisiae</i>
24	STEAM	Michelle Amaechi, Sri Manyata Peddinti, Cristian Herrera Alpizar, Amanda Kirschner, Justin Martinez	Developing a Method to Generate Methyl Viologen Radical Cation with Pseudo-Steady-State Absorbance
25	STEAM	Grace Smithwick	Analysis of Protein Expression and Localization of ElrA and SqdA during embryogenesis of <i>Danio rerio</i>
26	STEAM	Alexandra Stibler	Bone Material Property Changes in Rats Exposed to Galactic Cosmic Radiation
27	STEAM	Zachary Bacino	Exploring the Reactivity of Nickel (II) [PNP] Pincer Complexes Containing Sulfonamide Groups in the Secondary Coordination Sphere
28	STEAM	Justyna Baez	Can planarians form an association between the chemical cues from an injured planarian and the chemical cues of a potential predator?
29	STEAM	Ronald Yusim, Amy Otarola, Brianna Jarvis, Luke Butler	Does energetic state predict territorial aggression in a highly-territorial bird?
30	STEAM	AJ Bergamo	Metal Cofactor Studies of FPPS Type 1 In Armyworm Moths
31	STEAM	Louis Miller	Forward Modeling of Low Count X-Ray Observations of Shocked Post-Starburst Galaxies
32	STEAM	Saptarshi Dutta, Tanay Parnaik, Michael Baradhi, Justyn Sanchez, Joshua Hwang, Chris Javier, Leandra Pesantes	Proton-Coupled Redox Potential Inversion of Diarylamines
33	STEAM	Christina Elghazaly, Angela Thomas	Method development for GC/MS analysis of nicotine and its metabolites in plasma
34	STEAM	Carla Maria Farris	Assessing the 2021 Kilauea Volcanic Intrusion Events
35	STEAM	Thomas Hendrickson	Michael Additions with omega-aminoalkylhalide to dimethylacetylinedicarboxylate
36	STEAM	Meghna Gohil	Mathematics Making Social Injustice More Visible
36	STEAM	Beth Singer, Meghna Harinath, Yasaman Galer	Using a viral envelope as a carrier for gene delivery to a marine alga
37	STEAM	Nicholas Matkiwsky	Analyzing the regulation of Huluwa gene expression during zebrafish embryogenesis