

FINAL SCHEDULE  
Student Research Festival - Friday, April 24, 2026

**Session 1: Posters – 8:30 AM to 9:30 AM**

<b>Session 1: Posters – 8:30 AM to 9:30 AM</b>			
<i>Upper Cube</i>	<p>Katharine Fihre, Anna Hume Neuroscience The Effects of Ocimum tenuiflorum on Sleep Deprivation and Anxiety-related Behaviors in Drosophila melanogaster</p>	<p>Emma Barron, Willa Albrecht Biology Effects of Ashwagandha on Anxiety, Motility, and Reproductive Behaviors in Drosophila melanogaster</p>	<p>Megan Davies Accounting &amp; Strategic Finance Social and Economic Implications of a Flat Tax System in Montana</p>
	<p>Ellie Paris, Kennedi Neimann, Kaden Huot, Jaxson Washington, Zack Schlottmann Business: Management &amp; Marketing North Western Energy Community Out Reach Maximization</p>	<p>Hunter Gum, Spencer Berger, Reuben Hornby, Caleb Spangler Biochemistry-Molecular Biology Renewable Micelles from Camelina for Drug Delivery</p>	<p>Anna Terry, Devon Baney, Wyatt Ehredt, Janey Adair, Jon Slivinski Business: Management &amp; Marketing Drake Law Estate Planning Billing Process Project</p>
	<p>Rachel Smith, Leevi Bohrer Elementary &amp; Special Education The Inadequacies of Rural Education: Funding and Teaching Ability</p>	<p>Clarissa Ball Chemistry Study of Carbene Intermediates from Sulfonium Ylide Precursors</p>	<p>Maggie Pluhar Gender Studies "Cowboy Up" A Look at Rancher/Farmer Mental Health and Suicide Rates</p>
	<p>Cole Andres, Sean Balen Biochemistry-Molecular Biology Effects of Norharmaline on Serotonin Signaling in Heat Stressed</p>	<p>Olivia St. Marie Chemistry Kinetic Analysis of a Solid-State Isothiocyanate–Amine Reaction by ATR-FTIR Spectroscopy</p>	<p>Jenna Castro Chemistry Synthesis of a Chlorine-Sulfonium Slide Precursor for the Study of Carbene Intermediates</p>
	<p>Sean Balen Health Sciences The Impact of an Active Lifestyle on Blood Pressure in Women: A Systematic Review</p>	<p>John Goodwin Environmental Science Terracette Formation and Freeze-Thaw Cycles on North-versus-South Facing Slopes</p>	<p>Rylee Herbstritt Health Sciences Myofascial Release as Treatment for Chronic Pain: A Systematic Review</p>
	<p>Ella Hubach Gender Studies Femininity and the Forms of Violence Women Use Through History</p>	<p>Finley Hester Biology Beyond Fertility: Clinical Bias and Access to GLP-1 Receptor Agonists in PCOS Care</p>	<p>Brad Tomasovic Political Science Healthcare Provider's Political Identification, A Systemic Review</p>
	<p>Ella Hubach Gender Studies Femininity and the Forms of Violence Women Use Through History</p>	<p>Finley Hester Biology Beyond Fertility: Clinical Bias and Access to GLP-1 Receptor Agonists in PCOS Care</p>	<p>Brad Tomasovic Political Science Healthcare Provider's Political Identification, A Systemic Review</p>

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<i>Upper Cube</i>	Trey Melton Environmental Science Burn and Soil Tests for Linum perenne as a Greenstripping Plant	Trey Melton Biology Interfacing Metabolic Models of Maize and its Root Microbiome to Investigate Interkingdom Interactions	Maximillian Gawlik Chemistry Optimization of Metal Catalysts in Luminol Chemiluminescence for Monitoring Site-Specific Drug Release
	Chloe Wegener-Smith, Hank Stabolepszy, Harlie Jackson, Michelle Quinn Business: Management & Marketing Process Improvement at Shodair Children's Hospital Genetics Lab	Kirsten Girolami, Sophia Maes Nursing Effects of Maternal Positioning on Second-Stage Labor Duration	Brynn Bohrer, Madelyn Eggers Biology The Effects of 'Serenifly' Oil Blend on Heat Shock-Induced Anxiety in Drosophila melanogaster
	Tehya Schweitzer, Tess Guerrara Environmental Science Black-capped Chickadee Abundance in a Fragmented Landscape	Jackson Barney Biology Evaluating Harmful Algal Bloom Biomass as a Fertilizer for the Biofuel Crop Camelina	Marco Gonzalez-Sosa Health Sciences Benefits of Magnetic Resonance-Guided Adaptive Radiotherapy (MRgART) for Liver Cancer Treatment: A Systematic Review
	Bennett Ford, Connor Stearns Biology Metabolic Exchanges Between Cyanobacteria and Snow Algae in Beartooth Mountains: A Focus on Nitrogen and Phosphorus Cycling	Makena Trumbull Chemistry Synthesis of a Protected Aromatic Intermediate for the Preparation of Antibacterial Oxadiazole Derivatives	Betsy Matthews Health Sciences Effect of Plant-Based Diets on Cholesterol Levels in Adults: A Systematic Review
	Kaiden Horner, Spencer Berger Biology Influence of Temperature and Precipitation on the Taxonomic Diversity of Snow Algae Microbial Communities in the Beartooth Mountains	Shea Ostberg Health Sciences Effectiveness of Personalized Cancer Vaccines for Treatment of Advanced Melanoma: A Systematic Review	Natalia Thomas, Ariana Bublitz Nursing Effects of Digital Medication Adherence Interventions on Adherence Rates in Adults with Chronic Illness
	Paphada Phansombun Health Sciences Aquatic Therapy versus Land-based Therapy affecting Chronic Lower Back Pain. A Systematic Review	Emma Wald, Samantha Abell, Katie Gilb, Elisabeth Llyod Nursing Postpartum Depression in Relationship to Sleep	Chloe Raats, Annika McCulloch, Peter Fiocchi, Elizabeth Grieshaber, Katelyn Christensen Business: Management & Marketing Carroll College Credit Card Process Improvement

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	<b>Session 2: Oral Presentations – 9:40 AM-10:35 AM</b>		
	<i>9:40-9:55</i>	<i>10:00-10:15</i>	<i>10:20-10:35</i>
<i>Avila/Desmet</i>	Asher Casey Catholic Studies O Happy Fault	Catherine Dudley Hispanic Studies An Impossible Life: Confession as a Framework for Guilt and Absolution in Manuela Martelli's Chile, 76'	Amaya Fischer Honors Scholars Program Confronting Dissatisfaction to Improve the Human Condition as Seen through Marlowe and Hurston
<i>Rice</i>	Ashlyne Jeffries International Relations Pandemic Politics: How Mexico, Brazil, and Argentina Leveraged Populist and Technocratic Styles of Political Leadership during the COVID-19 Pandemic	Trey Melton Philosophy How Contemporary Author Robin Wall Kimmerer Communicates with Maurice Merleau-Ponty	Jack Conway, Molly O'Connor Biochemistry-Molecular Biology Investigating the Effects of Naturopathic Supplements on Microgravity-induced Mitochondrial Stress in Tetrahymena thermophila
<i>O'Connell 101</i>	Deidra Thompson Theology Gregory of Nyssa's Life of Macrina and the Praiseworthiness of Women	Grace Nilsson Honors Scholars Program Enlightenment and Modern Thinkers on Freedom	Rebekah Bursese Public Health Upstream Health Prevention of Heart Disease Among Males on the Crow Reservation
<i>O'Connell 102</i>	Brenna O'Leary Spanish El Revolver: the Impact of Firearm Ownership on Domestic Violence	Baylee Herman, Olivia St. Marie, Cassandra Ball Chemistry Multi-Media Assessment of Dissolved Metal Contamination in Park Lake, Montana Following the 2024 Arctic Grayling Fish Kill	Alyssa Sabol Anthrozoology Signs, Not Sounds: Exploring ASL as a Tool for Dog Training
<i>O'Connell 106</i>	Davis Greenwood Honors Scholars Program Aquinas & Dante: The Meeting of Theology, Philosophy, and Poetry	Frank Pope Data Science Analyzing Galaxy Morphology and Orientation Using Machine Learning	John Goodwin Fine Arts How Camille Saint-Saens Life Shaped and Constrained his Organ Composition
<i>O'Connell 107</i>	Ingrid Carlson Honors Scholars Program Shared Human Responsibility in a World of Gender Inequality According to Carey and Woolf	Clare Converse, Brycen Gardner Engineering Water Balance Cover Design for Mitigating Acid Mine Drainage at the Perry Canyon Mine in Washoe County, Nevada	Alannah Govier Catholic Studies Tridentine Right vs Novus Ordo Rite
<i>O'Connell 119</i>	Olivia Smith Mathematics Artificial Intelligence in Undergraduate Mathematics Education: Student Perspectives on Learning, Academic Achievement, and Math Anxiety	Emma Matthiesen Hispanic Studies Operation Pedro Pan: The Overlooked Legacy	Paxton Sheppard Political Science Making Nostalgia Great Again: How Party Platforms Sell the Past

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<b>Session 3: Posters – 10:45AM–11:45AM</b>			
<i>Upper Cube</i>	Jenna Castro, Sadie Filius, Kailei Kackley, Sidney Gulick Biochemistry-Molecular Biology Development of a Chlorophyll-Based Environmentally Friendly Sunscreen	Mikaela Grzelak, Jackson Tarum Biochemistry-Molecular Biology Impact of 5-HTP on Ciliary Recovery in <i>T. thermophila</i>	Avery Lambourne, Brynn Johnson, Zoe Hagan, Sydney Gutierrez Biochemistry-Molecular Biology Investigation of Hill Reaction Efficiency in Chloroplasts Isolated with Three Buffer Systems Under Dark and Cold Conditions
	Jacob Bates Anthrozoology Dogs effect on ROTC Cadets	Clarissa Ball Chemistry Kinetic Analysis of the Electrochemical Oxidation of 2-methylthiophene via Cyclic Voltammetry	Cormac Dunstan, Ethan Hull, Matthew Golik Biochemistry-Molecular Biology Synthesis of Environmentally-Friendly Nylon Derivatives
	Trey Melton, Keegan Treptow Biology Snow Algal Community Diversity and Pigment Expression in Response to Light Intensity	Trey Melton Chemistry Time-Resolved Far-IR Spectroscopic Analysis of Mechanochemical Prussian Blue Synthesis	Joel Moore, Tiffany Altermatt Environmental Science Snow Algae: Skier's Friend or Foe
	Kennedy Engstedt Gender Studies "The Gendered Dimensions of Gun Violence in the United States"	Norah Allen Health Sciences The Influence of Blue Light Exposure Versus Reading Printed Material on Sleep Patterns in Children: A Systematic Review	Brynn Notbohm International Relations A Thematic Analysis of Non-State Actors in International Relations
	Tyler Baerlocher Mathematics Discovering Algebraic Shortcuts Using Monte Carlo Tree Search	Alexandra Barua, Haley Jose Nursing Preoperative Forced-Air Warming and the Incidence of Perioperative Hypothermia	Mark Ahner Philosophy Grounding Reason: Evaluating the Naturalist's Faith in Their Rationality
	Sophie Bliss Psychology Personality Characteristics and Response to Others' Good Fortune	Bella Harris Public Health Early Menarch and the Risk of Breast Cancer: A Systematic Review	Janey Adair Sociology Violent Videogame's Impact on Youth in America

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<i>Upper Cube</i>	<p>Alan Gutierrez Health Sciences Media Use and Sleep Outcomes Among Adolescents : A Systematic Review</p>		<p>Maxwell Brubaker, Evan Anglin Biology Effect of Manuka Honey on Metabolic Rate and Mobility in Oxidatively-stressed Tetrahymena thermophila</p>
	<p>Henry Gross Chemistry Synthesis of a Fluoro-Sulfonium Ylide Derivative for the Study of Carbene Intermediates</p>	<p>Trinity Roeper, Kathryn Quinn, Moira McGuire, Jon Smith, Gina Piffarerio Psychology Concussion History and the Long-Term Effects on Balance and Symptomology</p>	<p>Jaydee Huschka Health Sciences Male Fertility and GLP-1 Administration - A Systematic Review</p>
	<p>Maggie Harvey, Kayla Almquist, Davina Lee Nursing Effect of Music Therapy on Alzheimer's Disease SPH CAUTI Improvement Project</p>	<p>Julia Farrington Health Sciences Endurance Sports and Colorectal Cancer Prevention: A Systematic Review</p>	<p>Mikayla Hatzopoulos, Anders Hedstrom Nursing Sepsis Bundle Use and Mortality Outcomes in Adults with Sepsis</p>
	<p>Annemarie Johnston, Corinne Anderko Nursing Effectiveness of Gate Control Theory–Based Pain Management on Labor Pain in Nulliparous Women</p>	<p>Kennedy Vogl Public Health Prenatal Acetaminophen Exposure and Risk of ADHD and Autism Spectrum Disorders in Children: A Systematic Review</p>	<p>Sarah Friendshuh, Willa Albrecht Biology Effects of Coenzyme Q10 on Metabolic Activity in Hypothermic T. thermophila</p>
	<p>Sorren Reese Health Sciences Are early preterm infants at higher risk for ADHD than term-born infants? A Systematic Review</p>	<p>Cameron Wong, Joey McFaul Nursing Effects of Prone Positioning on Respiratory Status in Adults with ARDS</p>	<p>Connor Tuss Health Sciences In collegiate athletes, is sport-related concussion (mild traumatic brain injury) a risk factor for impaired classroom performance?</p>
	<p>Wyatt Rutledge Mathematics Mathematics of RSA Encryption</p>	<p>Andrias Zelele Computer Science Project Baymax: Designing an AI Companion for Emotional Support and Therapy-Inspired Care</p>	

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	<b>Session 4: Oral Presentations – 12:40 PM-1:35 PM</b>		
	<i>12:40-12:55</i>	<i>1:00-1:15</i>	<i>1:20-1:35</i>
<i>Avila/Desmet</i>	Megan Davies Catholic Studies Progressive Taxation and Catholic Social Teaching: A Moral Case for Proportional Contribution	Katharine Fihre Honors Scholars Program Virginia Woolf and Jonathan Swift: Is the Pursuit of Knowledge Necessarily Elitist?	Ashlynn Jeffries Global Learning & Study Abroad Pathogen Genomic Surveillance as a Tool of Public Health Intelligence in Brazil during the COVID-19 Pandemic (2020-2023)
<i>Rice</i>	Amaya Fischer Hispanic Studies Infrahumanization and Marginalization of "the Other" in "Un señor muy viejo con unas alas enormes" by Gabriel García Márquez	Deidra Thompson Theology Washed in Time: An Invitation to Participation	Olivia Richardson Sociology The Effects of Counseling Modality on Sense of Self
<i>O'Connell 101</i>	Asher Casey Philosophy The Opposite of Love	Lauren Melvin Anthrozoology Canine Tail Docking: Analysis of the Issue	Nicholas Clouse Data Science Evaluating Machine Learning for Daily Avalanche Danger Forecasting in Northwest Montana
<i>O'Connell 102</i>	John Goodwin English How Our Commodification of Water Has Changed the Rio Grande (Rio Bravo)	Sean-Paul Brown Data Science Analyzing Baseball Umpires Using Machine Learning	Chase Kilcup, Connor Marland Engineering Conceptual Steel Bridge Design over the Rio Grande
<i>O'Connell 106</i>	Trey Melton Chemistry Phytoremediation of Metal-Contaminated Aqueous and Solid Systems	Brad Tomasovic Honors Scholars Program How Paradise Lost and The Arabian Nights Characterize Evil	Lola Baerlocher Environmental Science Habitat Changes Across a Forest-Steppe Ecotone in Central Montana
<i>O'Connell 107</i>	Brynn Johnson Honors Scholars Program What Do We Owe in Love?: Ethical Tension in Their Eyes Were Watching God and The Talmud	Jaden Brown Hispanic Studies Movement Is Life: Dance, Identity, and Displacement in I'm No Longer Here by Fernando Frías de la Parra	Trey Melton Philosophy The Coevolution of French Art and Philosophy into 20th Century

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<b>Session 5: Posters – 1:45 PM-2:45 PM</b>			
<i>Upper Cube</i>	Jacob Sweatland Chemistry Chemical Characterization of Snowpacks in Semi-Remote Recreational Hub	Brenna O’Leary, Autumn Bailey, James MacDonald, Valerie Fritz Nursing Pharmacological versus Combined Thromboprophylaxis on Mobility-Impaired Inpatients	Marcus Evans, Forrest Suero, Dayne Barbie, Connor Curnow, Luke Frampton, Josiah Cuaresma Business: Management & Marketing Enhancing Faculty Compliance in Textbook Adoption Processes
	Trey Melton Chemistry Limitations in Determining Stoichiometry During H <sub>2</sub> O to NH <sub>3</sub> Exchange in Co <sub>2</sub> + Solution	Ella Hubach, Olivia Violet Environmental Science Lake Helena Charcoal and Macrofossils as Indicators of Paleoclimate	Jacob Yaeger Health Sciences Does Covid-19 Infection Increase the Risk for Cognitive Decline? A Systematic Review
	Rylee Herbstritt, Sidney Gulick Biology The Effects of Kalium phosphoricum on Mobility Limitations in Tetrahymena thermophila	Evelyn Dachs Communication Studies Trends and Patterns in AI Publishing Policy in Mainstream Media	Abbie Amend, Amelia Carstens Biology Determining the Location of Snow Algae After Snow Recession: Sequencing snow algae genomes in snow, soil and meltwater pools
	Isaac Rahman Environmental Science Baseline study of diatom populations in Tenmile Creek near Helena, MT. What are the implications?	Aryana Jones Gender Studies The Effects of Childhood Abuse on Fatherhood	Cassandra Ball Chemistry Spectroscopic Investigation of Water-Ammonia Ligand Exchange in Ni(II) Complexes
	Rachael Yanchura, Taysa Conger, Meagan Karstetter, Kyle Pacak, Carson Remillard Business: Management & Marketing SPH CAUTI Improvement Project	Tiffany Altermatt, Joel Moore Biology Investigating the relationship between soil microbiome diversity and immune function in deer mice	Nina Badger Health Sciences The Effects of Blood Flow Restriction (BFR) Training on Quadriceps Strength Following ACL Reconstruction: A Systematic Review
	Sofia Contreras, Abigail Bennett, Jenavie Hammond, Erin Johnston Nursing CRISPR in the Treatment of Sickle Cell Anemia and Improved Life Quality	Leah Melvin Political Science Policy Design and Preventive Care: The Governance Deficit in Lifestyle Medicine	Christine Gastello, Grace Gastello, Hallie Miller Nursing Among elementary school students , does implementing daily structured physical activity compared to no mandated daily activity reduce rates of overweight and obesity within 6 months?

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<b>Session 5: Posters – 1:45 PM to 2:45 PM</b>			
<i>Upper Cube</i>	<p>Sydney Coulter, Lena McKee Biology Tired of Pollution: The Hidden Costs of Tire Particles, 6PPD-quinone, and the Grass Beneath Our Tires</p>	<p>Jack Lindberg Chemistry Quantitative ICP-OES Analysis of Cadmium and Lead Accumulation in Hydroponic Phytoremediation Systems</p>	<p>Jadon Sheveland Environmental Science Indices of Wildlife Presence on Terracettes of North Versus South Facing Slopes</p>
	<p>Walker Jump Health Sciences The Effectiveness of Creatine Supplementation in Enhancing Muscle Recovery Following Exercise-Induced Muscle Damage (EIMD): A Systematic Review</p>	<p>Victoria Jeffs, Amaya Fischer, Kassandra Price Nursing Diagnostic Accuracy of the WBAIL-2 Blood Test in Celiac Disease</p>	<p>Paydin Dodds, Jack Garvin Biology Examination of Astaxanthin Production in Snow Algal Communities</p>
	<p>Maylah Thorne Public Health Adherence to a Mediterranean Diet and Its Effects on Frailty: A Systematic Review</p>	<p>Chloe Fitzmeyers Biology Effects of astaxanthin on ROS-induced oxidative stress in <i>Saccharomyces cerevisiae</i></p>	<p>Gina Leveque-Zapata Health Sciences Food For Thought: Reviewing the Evidence on the Impact of Diet on ADHD</p>
	<p>Treyton Graham, Gabriella Bombach Biology Harmful Algae Blooms</p>	<p>Madeline Olson Health Sciences Sleep and ACL recovery time</p>	<p>Katie Stokes, Claire Cooke, Jerny Crawford, Liana Durward Nursing GLP-1 Therapy Influences Body Weight Reduction and BMI</p>
	<p>Cadence Zellmer, Natalie Taylor, Abbie Virts Nursing In hospitalized adults, how does sleep disruption due to environmental noise, compared with a reduced-noise environment, affect sleep quality?</p>	<p>Meredith Varady Health Sciences The Impact of Progestin-Based Contraceptives on Bone Mineral Density Compared to Estrogen-Based and Non-Hormonal Methods: A Systematic Review</p>	<p>Carter White Health Sciences Mental Health in Injured Athletes</p>

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	<b>Session 6: Oral Presentations – 2:55 PM-3:50 PM</b>		
	<b>2:55-3:10</b>	<b>3:15-3:30</b>	<b>3:35-3:50</b>
<i>Avila/Desmet</i>	Kaylee Little, Ashlynn Jeffries Political Science Uncharted Frontiers: A Policy Analysis of 3D Bioprinting in Microgravity on Human Organ Transplantation	John Goodwin, Ayden Durkin English The Colonial Gale: A Comparative Analysis of Nature Through Colonial and Decolonial Perspectives in The Tempest vs. A Tempest	Molly O'Connor Data Science Stats and Brackets
<i>Rice</i>	Catherine Dudley Environmental Science Encroachment: Age Structure Analysis on a Forest-Grassland Ecotone	Gabriela Doran Hispanic Studies Improving the Reproductive Health for Pregnant and Pre and Post Menopausal Women: An Exchange of Western and Hispanic Indigenous Medicine	Kate Wilkins International Relations Women, Workforces, and Windows of Opportunity
<i>O'Connell 101</i>	Ethan Eades Honors Scholars Program Fragments Shored Against Ruin: Destruction and the Possibility of Restoration in King Lear and "The Waste Land"	Henry Foy Mathematics Exploring the Economics of Tolls on the I-5 Bridge	Trey Melton French The Process of Translation Explored through 19th Century French Poetry
<i>O'Connell 102</i>	Damhye Kim Environmental Science Is the Pre-Lake Bottom 'Landscape' Causing Persistent Melt Features in the Ice of Lake Helena	Grace Bock Honors Scholars Program The Prince Understood Through Utilitarianism	Anthony Wilson Theology Kakure Kiristans: Why They Choose to Remain Hidden