

Spring 2024
Colorado State
University



Live Learn Grow

University Honors
Program

Established 1957

Honors Graduate
Recognition Ceremony
May 10, 2024

Lory Student Center
Grand Ballroom
Reception to follow

LAND ACKNOWLEDGMENT

Colorado State University acknowledges, with respect, that the land we are on today is the traditional and ancestral homelands of the Arapaho, Cheyenne, and Ute Nations and peoples. This was also a site of trade, gathering, and healing for numerous other Native tribes. We recognize the Indigenous peoples as original stewards of this land and all the relatives within it. As these words of acknowledgment are spoken and heard, the ties Nations have to their traditional homelands are renewed and reaffirmed.

CSU is founded as a land grant institution, and we accept that our mission must encompass access to education and inclusion. And, significantly, our founding came at a dire cost to Native Nations and peoples whose land this university was built upon. This acknowledgment is the education and inclusion we must practice in recognizing our institutional history, responsibility, and commitment.



The goal of the Honors Program is simple: to challenge the student to excel in and beyond the classroom. The University Honors Program encourages the student to create an academic experience that is fully aligned with the student's educational, personal, and professional goals.

Honors Designations

The University Honors Scholar program is designed for outstanding students who wish to fulfill a majority of their general education requirements through innovative interdisciplinary seminars.

Many academic departments allow students to participate in the Honors Program through the Discipline Honors Scholar program. This option is well suited for outstanding students who have completed many general education requirements and wish to focus on upper division Honors experiences in their majors.

Order of Ceremony

Welcome and Introductory Remarks
Dr. Shawn Bingham, Director

Land Acknowledgement

Introduction of Platform Party and
Acknowledgements
Dr. Shawn Bingham

Student Gratitude
Reham Abdunabi
Aliya Getchell
Ashlynn Lutz
Amanda Mills
Adrianna Rotondi

History of Honors
Introduction of Provost
Dr. Shawn Bingham

Message from the Provost
Conferring of University Honors Scholar Designation
Dr. Marion Underwood, Provost and Executive Vice President

Awarding of Medallions

Reading of Names
Rachel Tate, Honors Academic Coordinator

Closing Remarks
Dr. Shawn Bingham

Welcome to the Spring Honors Graduate Recognition Ceremony. Founded in 1957, the University Honors Program is in its 67th year. Starting with 15 students, the program has grown to nearly 1,800 students.

Today we recognize 264 students who have completed the requirements of the University Honors Program. These students have taken up the practices of thinking and solving problems *beyond* their academic majors and situating themselves within a larger context. They have become “more than their major.” (Or, in some cases, they have become more than their multiple majors and minors.) The world is interdisciplinary—the Honors experience is about educating students for lives well-lived in this reality. All of us feel a sense of hope in the future knowing that these students are the next generation of problem solvers, teachers, physicians, engineers, musicians, parents, and a range of other roles and ways of serving their communities that are only now just evolving. We are grateful to have been part of their journey.

With gratitude,

The University Honors Program Staff and Faculty

HONORS STAFF

Dr. Shawn Bingham, Director

Emily Morgan, Associate Director

Melanie Nichols, Program Coordinator

Rachel Tate, Honors Advisor & Track 2 Coordinator

Lori Williams, Program Assistant

Kimberly Ross, Administrative Assistant

Jania Savage, Graduate Intern

HONORS FACULTY, SPRING 2024

Andre Archie

Joseph Brown

Gamze Cavdar

Hye Seung

Lee Cooper

Maite Correa

Stuart Cottrell

Ashley Davies

Joanna Doxey

Mary Elkins

Frances Glycenfer

Aparna Gollapudi

Leah Holz

Alyson Huff

Zach Hutchins

Keith Jagers

John Kitchens

Megan Lanz

Carmen Lopez Ramirez

Anne Marie Merline

Don Mykles

Dan Obluda

Carlos Olivo-Delgado

John Phippen

Jana Raadik Cottrell

Justin Reeves

Jenne Schmidt

Anne Scott

Douglas Sheflin

Elizabeth Sink

Jose Suarez Garcia

Pamela Vaughan Knaus

Nicole Vieira

Emily Wilson

Toni Zimmerman

Sarah Zwick-Tapley

Candidates for University Honors Scholar

- Reham Abdunabi**, Political Science major and Legal Studies minor and International Development minor
Thesis title: *MENA's Unheard Stories*
Thesis adviser: Gamze Cavdar, Political Science
- Owen Albright**, Civil Engineering major
Thesis title: *Casper Windfarm Design*
Thesis adviser: Connor Thornton,
- Cavin Alderfer**, Environmental Engineering major
Thesis title: *A Clean Cookstove for Sub-Saharan African Communities*
Thesis adviser: Christopher Thornton, Civil and Environmental Engineering
- Kaitlyn Almquist**, Zoology major and Chemistry minor
Thesis title: *Equine Bone and Muscle Coordination Animation*
Thesis adviser: Christianne Magee, Biomedical Sciences
- Emily Amato**, Sociology major with Criminology and Criminal Justice concentration and Mathematics minor
Thesis title: *A Criticism of Current Education Programs in U.S. Juvenile Detention Centers*
Thesis adviser: KuoRay Mao, Sociology
- Isla Anderson**, Biomedical Sciences major with Microbiology and Infectious Diseases concentration and Spanish minor
Thesis title: *Peripheral Mycobacterium tuberculosis Infection Results in Neuroinflammation and Accumulation of Misfolded Proteins in Non-Human Primates*
Thesis adviser: Julie Moreno, Environmental and Radiological Health Sciences
- Alexia Armatas**, Business Administration major with Accounting and Finance concentrations and International Business certificate
Thesis title: *Financial Frauds through a Creative & Analytical Lens*
Thesis adviser: Anne Scott, University Honors Program
- Justin Arndt**, Fish, Wildlife and Conservation Biology major with Wildlife Biology concentration and Leadership Studies minor
Thesis title: *Sustainable Funding Sources for the CSU Nordic Ski Club: A Plan for Future CSU Nordies*
Thesis adviser: John Henderson, Vice President for Student Affairs
- Zoe Atkinson**, Neuroscience major with Behavioral and Cognitive Neuroscience concentration and General Sociology minor
Thesis title: *Assessing glial reactivity and extraneural peripheralization of distinct prion strains*
Thesis adviser: Glenn Telling, Microbiology, Immunology and Pathology
- Stephany Ayala - Torres**, Interior Architecture and Design major with Design Thinking certificate
Thesis title: *The Limited Resources in Mountain Towns' Impact on the Community Design Proposal*
Thesis adviser: Laura Malinin, Health and Exercise Sciences
- Grace Babcock**, Psychology major with General Psychology concentration and Global Studies minor and Languages, Literatures and Cultures major with Spanish concentration
Thesis title: *The Intersectionality of Applied Normative Behavior and Neurological Approaches in Enhancing Substance Use Education*
Thesis adviser: Martha Amberg, Psychology
- Jeni Backes Kincher**, Animal Sciences major
Thesis title: *Effectiveness of Tylosin and Monensin and their Impact on the Prevalence of Liver Abscesses in Beef Cattle*
Thesis adviser: Terry Engle, Animal Sciences

- Audrey Bankes**, Chemical and Biological Engineering major and Chemistry minor
Thesis title: *Solid State Polymerization of L-Lactide and Biodegradable Polymer Applications*
Thesis adviser: Minerva Piffarerio, Chemical Engineering
- Kristen Barclay**, Zoology major and French minor
Thesis title: *How IUCN Red List Status Relates to Observations Trends In Malagasy Frog Species in the Vohimana Reserve*
Thesis adviser: Jennifer Neuwald, Biology
- Lauren Bardon**, Interior Architecture and Design major and Construction Management minor with Design Thinking certificate
Thesis title: *Sensory Wellbeing of Users in Workplace Design*
Thesis adviser: Leah Scolere, Design and Merchandising
- Elliot Batta**, Fish, Wildlife and Conservation Biology major with Wildlife Biology concentration and Leadership Studies minor
Thesis title: *The current state of white nose syndrome in the united states*
Thesis adviser: Tanya Dewey, Biology
- Katja Behrens**, Health and Exercise Science major and Nutrition minor with Sports Medicine concentration
Thesis title: *Exploring the Influence of Plant-based Proteins on Female Fertility*
Thesis adviser: Charlene Van Buiten, Food Science and Human Nutrition
- Sierra Belezos**, Biomedical Sciences major with Microbiology and Infectious Diseases concentration
Thesis title: *Burnout in Healthcare Workers: A Systemic or Personal Issue?*
Thesis adviser: Naomi Nishi, College of Veterinary Medicine and Biomedical Sciences Dean's Office
- Jasson Bell**, Zoology major
Thesis title: *Navigating the World of Veterinary Medicine and its Challenges*
Thesis adviser: Amy MacNeill, Microbiology, Immunology and Pathology
- Kendal Berasley**, Fish, Wildlife and Conservation Biology major with Wildlife Biology concentration and Zoology major
Thesis title: *A Molting Mystery: The Role of Leucine Rich Repeat G-Protein Coupled Receptors' Role in the Crustacean Molt Cycle*
Thesis adviser: Donald Mykles, Biology
- Bella Bert**, Fish, Wildlife and Conservation Biology major with Fisheries and Aquatic Sciences concentration and Business Administration minor
Thesis title: *Evaluating Cyprinus carpio (Common Carp) swimming performance in a simulated rock ramp*
Thesis adviser: Christopher Myrick, Fish Wildlife and Conservation Biology
- Kyle Birchfield**, Psychology major with General Psychology concentration and Criminology/Criminal Justice minor
Thesis title: *History Of American Motorsports*
Thesis adviser: John Kitchens, University Honors Program
- Jordyn Blaha**, Fish, Wildlife and Conservation Biology major with Wildlife Biology concentration
Thesis title: *Regenerative Family Farming in the Western US: A Best-Practices Review*
Thesis adviser: Dana Hoag, Agricultural and Resource Economics
- Grace Blaskowski**, Chemical and Biological Engineering major
Thesis title: *Exploration of Hormones and Explant Types for C. roseus Adventitious Root Cultivation*
Thesis adviser: Christie Peebles, Chemical Engineering
- Bianca Blasquez**, Human Dimensions of Natural Resources major with Integrated Visual Studies concentration and Art major
Thesis title: *A Comprehensive Study of Bears Ears National Monument's Historical and Cultural Significance*
Thesis adviser: Brett Bruyere, Human Dimensions of Natural Resources

- Elena Boehr**, Landscape Architecture major
Thesis title: *The Revitalization of Rhoads Terrace Park*
Thesis adviser: Anne Merline, University Honors Program
- Joyce Bohn**, Biomedical Engineering major and Mechanical Engineering major and Mathematics minor
Thesis title: *Step Up Prosthetics*
Thesis adviser: James Tillotson, Mechanical Engineering
- Evelina Bouckova**, Neuroscience major with Behavioral and Cognitive Neuroscience concentration and Biomedical Sciences minor
Thesis title: *Ketamine's rapid antidepressant effects are mediated by Ca²⁺-permeable AMPA receptors*
Thesis adviser: Seonil Kim, Biomedical Sciences
- Mikyla Bowen**, Data Science major with Computer Science concentration
Thesis title: *Extending the Capabilities of Generative Networks to Improve Classification Networks and Image Interpretability*
Thesis adviser: Jesse Wilson, Electrical and Computer Engineering
- Emma Boyle**, Environmental Engineering major
Thesis title: *Irrigation District Design of Meadow Springs Ranch*
Thesis adviser: Christopher Thornton, Civil and Environmental Engineering
- Madzie Boyles**, Ecosystem Science and Sustainability major and Diversity and Inclusion minor and Geospatial Information Science minor
Thesis title: *Addressing Climate Migration in Houston, Texas*
Thesis adviser: Elizabeth Tulanowski, Ecosystem Science and Sustainability
- Michael Bradley**, Mechanical Engineering major
Thesis title: *Remote Resettable Target System*
Thesis adviser: Soheil Fatehiboroujeni, Mechanical Engineering
- Leah Bradstreet**, Fish, Wildlife and Conservation Biology major with Wildlife Biology concentration
Thesis title: *Effect of Town Access on the Diet of Elk in Estes, Colorado*
Thesis adviser: Randall Boone, Ecosystem Science and Sustainability
- Jackson Braunschweig**, Biological Science major with Biological Science concentration and Chemistry minor
Thesis title: *Effects of climate change on reintroduction of the gray wolf*
Thesis adviser: Jennifer Neuwald, Biology
- Chloe Brekhus**, Biomedical Engineering major and Mechanical Engineering major and Mathematics minor
Thesis title: *Development of an Automated Bone Transport Device to Heal Critical-Sized Bone Defects with Distraction Osteogenesis*
Thesis adviser: Benjamin Gadowski, Mechanical Engineering
- Hailey Brown**, Biomedical Sciences major with Anatomy and Physiology concentration
Thesis title: *Validation of a Novel Preclinical Murine Model of Chronic Ankle Overuse Injuries via Mechanical Induction*
Thesis adviser: Katie Sikes, Clinical Sciences
- Kelly Brucker**, Chemistry major and Global Environmental Sustainability minor
Thesis title: *Consumerism and Climate Change: A Comprehensive Analysis of Overconsumption and its Role in Fueling Climate Change*
Thesis adviser: Delphine Farmer, Chemistry
- Brooke Brunson**, Landscape Architecture major
Thesis title: *Unveiling Place Attachment: A Multidisciplinary Exploration*
Thesis adviser: Jane Choi, Horticulture & Landscape Architecture
- Izzy Brunson**, Psychology major and Spanish minor and Criminology/Criminal Justice minor
Thesis title: *Implementing Modern Criminological Profiling Techniques to Examine Female Serial Killers Throughout History*
Thesis adviser: Sarah Zwick-Tapley, University Honors Program

- Declan Buggy**, Biomedical Engineering major and Mechanical Engineering major
Thesis title: *Developing an In-House Manufacturing Method for Pediatric Prosthetic Feet*
Thesis adviser: James Tillotson, Mechanical Engineering
- Anh Bui**, Biological Science major with Biological Science concentration and Business Administration minor
Thesis title: *Mentorship and Education Support for Low-Socioeconomic Students*
Thesis adviser: Kara Coffino, School of Education
- Liam Bureau**, Liberal Arts major and Spanish minor and Global Environmental Sustainability minor
Thesis title: *Approaching Environmental Transition Through Intergenerational Dialogue*
Thesis adviser: Anne Merline, University Honors Program
- Jackson Buresh**, Health and Exercise Science major with Sports Medicine concentration
Thesis title: *iPod Accelerometer Gait Analysis in Concussed and Non-concussed Participants*
Thesis adviser: Brian Tracy, Health and Exercise Sciences
- Emily Burg**, Business Administration major with Marketing concentration and Legal Studies minor
Thesis title: *Revocation Rates on Probation: What Causes Them and What Can Be Done to Reduce Them?*
Thesis adviser: Angelina Robinson, College of Liberal Arts, Dean's Office
- Hannah Butkus**, Zoology major
Thesis title: *Expression and hypoxia sensitivity of ZO-1 in deer mouse placenta*
Thesis adviser: Kathryn Wilsterman, Biology
- Megan Byrne**, Biological Science major with Biological Science concentration and American Sign Language minor and Chemistry minor
Thesis title: *Hear Me Now: Dissecting the Barrier Between Deaf/Hard of Hearing Patients and Healthcare Professionals*
Thesis adviser: JP Nick Barnard, Languages, Literatures and Cultures
- Isabelle Cabrera**, Animal Science major
Thesis title: *The Silent Offender: Zoonotic Diseases*
Thesis adviser: Ivette Roman-Muniz, Animal Sciences
- Ryan Calzone**, Mechanical Engineering major with Aerospace Engineering concentration
Thesis title: *Ekart*
Thesis adviser: Olivera Notaros, Electrical and Computer Engineering
- Carter Cape**, Business Administration major with Finance concentration and Construction Management major
Thesis title: *Comparing the eCO₂ Emissions Effects of Two Slab-on-Grade Screeding Methods*
Thesis adviser: Rodolfo Valdes Vasquez, Construction Management
- Delaney Card**, Liberal Arts major and Art History minor with Museum and Cultural Heritage Studies certificate
Thesis title: *Egyptian Philosophy: Entangled in Mythology, Texts, and Art*
Thesis adviser: David Riep, Art and Art History
- Melanie Carpenter**, Business Administration major with Marketing concentration
Thesis title: *Influence of Date Labels and Freshness Disclosures on Consumer Waste Prevention Behaviors*
Thesis adviser: Christopher Berry, Marketing
- Jamie Cast**, Mechanical Engineering major
Thesis title: *Understanding Burning Homes and Structural Materials*
Thesis adviser: Shantanu Jathar, Mechanical Engineering
- Melanie Chaffey**, Journalism and Media Communication major and Political Science minor
Thesis title: *Narrative Short Movie: Garlic Confit*
Thesis adviser: Daniela Castillo, Journalism Media Communication
- Kathryn Coffin**, Biomedical Sciences major with Microbiology and Infectious Diseases concentration and Entomology minor
Thesis title: *The Use of Ivermectin-treated Bird Seed for Mosquito Population Control*
Thesis adviser: Brian Foy, Microbiology, Immunology and Pathology

- Madeline Colvin**, Biological Science major with Biological Science concentration and Chemistry minor and Neuroscience major with Behavioral and Cognitive Neuroscience concentration
Thesis title: *Directly reprogrammed microglia to study protein expression in conjunction with cognitive function*
Thesis adviser: Thomas LaRocca, Health and Exercise Sciences
- Janael Copeland**, Psychology major with General Psychology concentration
Thesis title: *Exploring the Social, Environmental, and Economic Benefits of Increasing Public Transportation in Austin: An Alternative to the Interstate 35 Expansion*
Thesis adviser: Anne Merline, University Honors Program
- Grant Correll**, Computer Science major with Computer Science concentration and Business Administration minor
Thesis title: *Staying Off the Hook: A Practical Guide to Spotting and Avoiding Phishing Attacks*
Thesis adviser: Indrakshi Ray, Computer Science
- Tomas Dardis**, Fish, Wildlife and Conservation Biology major with Wildlife Biology concentration
Thesis title: *Undergraduate research at the Bird Genoscape Project*
Thesis adviser: Kristen Ruegg, Biology
- Kyra Dart**, Human Dimensions of Natural Resources major
Thesis title: *A Klamath Salmon's (Ney-puy) Journey from River to Sea and Back again*
Thesis adviser: Sarah Walker, Human Dimensions of Natural Resources
- Rose Delaney**, History major with General History concentration and Psychology major with General Psychology concentration
Thesis title: *"To Run Straight for the Finish Line, Unswerving": The Triumphant Life of Marcus Aurelius, Roman Emperor and Stoic Philosopher*
Thesis adviser: Kristin Heineman, History
- Caroline Denison**, Psychology major with Clinical/Counseling Psychology concentration and Human Development and Family Studies minor
Thesis title: *In Search of Lumenta: A Divine River's Call*
Thesis adviser: Pam Vaughan Knaus, University Honors Program
- Olivia Detry**, Psychology major with Industrial/Organizational Psychology concentration and Business Administration minor
Thesis title: *Lab interaction, mentoring, and loneliness in STEM doctoral students*
Thesis adviser: Gwenith Fisher, Psychology
- Rachel Dillon**, Zoology major
Thesis title: *Educating Veterinary Hospitals on How to Incorporate Sustainable Practices*
Thesis adviser: Jennifer McLean, Microbiology, Immunology and Pathology
- Riley Dils**, Fish, Wildlife and Conservation Biology major with Conservation Biology concentration and Fisheries and Aquatic Sciences concentration
Thesis title: *I. Progression of Renibacterium salmoninarum through Chinook Salmon Oncorhynchus tshawytscha tissues using histology and qPCR*
Thesis adviser: Dana Winkelman, Cooperative Fish and Wildlife Resea
- Cierra Dobney**, Biomedical Sciences major with Anatomy and Physiology concentration and Spanish minor
Thesis title: *The Exploration of Alzheimer's Disease Through the Development of Pre-Clinical Animal Models*
Thesis adviser: Kimberly Jeckel, Biomedical Sciences
- Olivia Doehr**, Civil Engineering major and Mathematics minor
Thesis title: *Project #35: Larimer County Canal Rehabilitation*
Thesis adviser: Christopher Thornton, Civil and Environmental Engineering
- Lynnea Doty**, Business Administration major with Managing Human Resources certificate and Leadership in Organizations certificate and Entrepreneurship certificate
Thesis title: *Perceived Organizational Support (POS): Effects of Employer Practices on Employees*
Thesis adviser: Lynn Shore, Management

Vanessa Duarte-munoz, Sociology major with Criminology and Criminal Justice concentration and Legal Studies minor

Thesis title: *Immigration Policies and Practices: Affects Immigrants and First-Generation Children*

Thesis adviser: Janelle Viera, Sociology

Parker Dunham, Chemical and Biological Engineering major

Thesis title: *Caterpillar Methanol Marine Engine Reactor Design*

Thesis adviser: German Parada, Chemical Engineering

Keegan Dunnington, Political Science major and Philosophy minor

Thesis title: *The Market and Degrowth: Two approaches to the Climate Crisis*

Thesis adviser: Gamze Cavdar, Political Science

Meagan Eickelbeck, Biomedical Sciences major with Anatomy and Physiology concentration

Thesis title: *Review Of The Current Gaps Veterinary Students Face Concerning The Underdeveloped Virtual Equine Anatomy Programs*

Thesis adviser: Dean Hendrickson, Clinical Sciences

Abigail Elliott, Biological Science major with Biological Science concentration and Spanish minor

Thesis title: *Exploring Language Bias in Healthcare: A Systematic Review*

Thesis adviser: Alyssia Miller, Languages, Literatures and Cultures

Dani Elliott, Biological Science major with Biological Science concentration and Chemistry minor

Thesis title: *Expressions of the Living World: The Developmental Basis of Branching Arrangements in Nature*

Thesis adviser: Zachariah Grochau-Wright, Biology

Erin Ellis, Early Childhood Education major and Spanish minor

Thesis title: *It Takes a Village: Building Community in Oversized Classrooms*

Thesis adviser: Angela Lewis, School of Education

Maddie Engeman, Theatre major with Costume Design and Technology concentration and History minor

Thesis title: *Rendering to Costume: An exploration of design*

Thesis adviser: Erin Carignan, School of Music Theatre Dance

Caroline Fagan, Biological Science major with Biological Science concentration

Thesis title: *Chronic Wasting Disease: What is it? What is being done? What can you do to help?*

Thesis adviser: Candace Mathiason, Microbiology, Immunology and Pathology

Kayla Fairweather, Biomedical Sciences major with Anatomy and Physiology concentration and Biomedical Engineering minor and Spanish minor

Thesis title: *Delivery of Lipoteichoic Acid to Promote an Anti-Tumor Macrophage Response in the Treatment of Osteosarcoma*

Thesis adviser: Nicole Ehrhart, Clinical Sciences

Camille Fancy, Biomedical Sciences major with Environmental Public Health concentration and Food Science/Safety minor

Thesis title: *Feral and Stray Cats: A Population Crisis Study*

Thesis adviser: Debbie Lee, Environmental and Radiological Health Sciences

Peyton Farnum, Art major with Printmaking concentration

Thesis title: *The Perpetual Paws Memorial Project*

Thesis adviser: Nicole Vieira, University Honors Program

Grace Feuerborn, Communication Studies major and General Sociology minor

Thesis title: *The Intersectionality of Communication and Health for Intimate Young Adult Relationships*

Thesis adviser: Karyl Sabbath, Communication Studies

Emma Fike, Zoology major

Thesis title: *Evaluating the effects of avian malaria and its significance for songbird conservation*

Thesis adviser: Nicole Vieira, University Honors Program

- Tatum Flatt**, Biomedical Sciences major with Environmental Public Health concentration and Food Science/Safety minor
Thesis title: *Neuropathological Changes in the Aged Canine with Canine Cognitive Dysfunction*
Thesis adviser: Julie Moreno, Environmental and Radiological Health Sciences
- Jessica Forster**, Psychology major with General Psychology concentration
Thesis title: *Advocating For Neurodiversity: Forming Identity as an Individual with IDD from Diagnosis to Adulthood*
Thesis adviser: Deborah Fidler, Human Development and Family Studies
- Emma Fortman**, Environmental and Natural Resource Economics major and Sustainable Water minor
Thesis title: *Review of School Gardens and Community Resilience from Academic and Personal Perspectives: My Time Serving Irish Elementary*
Thesis adviser: Anne Merline, University Honors Program
- Dagny Frankenthaler**, Biological Science major with Biological Science concentration
Thesis title: *Social and Environmental Cues that Affect Climate Change Attitudes*
Thesis adviser: Anne Merline, University Honors Program
- Jewel Gander**, Biological Science major with Biological Science concentration
Thesis title: *Dog Behavior Picture book*
Thesis adviser: Jennie Willis Marko, Biology
- Tess Gardner**, Environmental Engineering major
Thesis title: *Rerouting Bulwark Ridge Trail and Redesigning Lookout Mountain Trailhead*
Thesis adviser: Christopher Thornton, Civil and Environmental Engineering
- Marissa Gay**, Biological Science major with Biological Science concentration and Statistics minor
Thesis title: *The Use of Nanopore Technology in Diagnostic Testing and Sequencing Feline Immunodeficiency Virus*
Thesis adviser: Mary Nehring, Microbiology, Immunology and Pathology
- Charlotte George**, Environmental Engineering major
Thesis title: *Aquatic Organism Passage on the South Fork Cache la Poudre River*
Thesis adviser: Christopher Thornton, Civil and Environmental Engineering
- Aliya Getchell**, Business Administration major with Marketing concentration and Economics and Media Studies minors and Marketing Communication and Branding certificate
Thesis title: *Marketing Strategies Used in the World of Fine Arts to Convey Different Motifs*
Thesis adviser: Gina Slejko, Marketing
- Alayna Gilbert**, Chemical and Biological Engineering major
Thesis title: *Chemical Analysis of Bio-oils for Potential use as Sustainable Aviation Fuels*
Thesis adviser: Bret Windom, Mechanical Engineering
- Sydney Graul**, Biomedical Engineering major and Chemical and Biological Engineering major
Thesis title: *Introduce a Girl to Engineering: Broadening Education for Women in Engineering*
Thesis adviser: Sara Pharazyn, Walter Scott, JR., College of Engineering, Dean's Office
- Lillian Gruman**, Health and Exercise Science major with Health Promotion concentration
Thesis title: *The Science of the Marathon*
Thesis adviser: Kimber Finan, Health and Exercise Sciences
- Kyle Grumet**, History major with General History concentration and International Studies major with Latin American Studies concentration and Languages, Literatures and Culture major with Spanish concentration
Thesis title: *Coatlucue and Ancient Aztec Gender Construction*
Thesis adviser: Jared Orsi, History
- Grace Gulig**, Zoology major and Spanish minor
Thesis title: *The Secret Lives of Colorado's Wildlife: Maximizing wildlife data collection from camera traps in western Colorado*
Thesis adviser: Nicole Vieira, University Honors Program

- Elizabeth Gumper**, Business Administration major with Marketing concentration and Business-to-Business Selling certificate and Youth Mentoring certificate
Thesis title: *When There's a Will There's an "A" - But at What Cost?*
Thesis adviser: Christopher Berry, Marketing
- Thalia Gustina**, International Studies major with Middle East and North African Studies concentration
Thesis title: *International Made Local: Student and Administrator Responses Since October 7*
Thesis adviser: Peter Harris, Political Science
- Emma Halaburt**, Forest and Rangeland Stewardship major with Rangeland and Forest Management concentration and Global Environmental Sustainability minor
Thesis title: *Frontlines of Climate Change: Teaching Climate-Adaptation in Colorado*
Thesis adviser: Caroline Havrilla, Forest and Rangeland Stewardship
- Sarah Hallberg**, Biomedical Sciences major with Anatomy and Physiology concentration
Thesis title: *Breaking the Cycle: Understanding and Addressing Period Poverty in our Community*
Thesis adviser: Julie Taylor-Massey, Human Development and Family Studies
- Eleigha Hamari**, Biomedical Sciences major with Anatomy and Physiology concentration
Thesis title: *The Intersectionality of Communication and Health for Intimate Young Adult Relationships*
Thesis adviser: Karyl Sabbath, Communication Studies
- Jaclene Hanson**, Biological Science major with Biological Science concentration
Thesis title: *Waxen Wings of the Caduceus: A Creative Review of Mental Health in Veterinary Medicine*
Thesis adviser: Camille Dungy, English
- Taylor Harr**, Political Science major and Media Studies minor
Thesis title: *Establishing Identity as an Upcoming Professional Sports Organization*
Thesis adviser: Darrell Blair, Journalism Media Communication
- Brayden Harris**, Biomedical Sciences major with Environmental Public Health concentration and Food Science/Safety minor
Thesis title: *Human Impact on the Environmental and Ecological Health of National Parks*
Thesis adviser: Nicole Vieira, University Honors Program
- Thomas Hasler**, Philosophy major with General Philosophy concentration and Music minor and Political Science major
Thesis title: *Substance and Perception as Force: What a force ontology reveals about Leibniz's philosophy of mind*
Thesis adviser: Domenica Romagni, Philosophy
- Maddy Hasstedt**, Fish, Wildlife and Conservation Biology major with Conservation Biology concentration
Thesis title: *Queer Representation in Fairy Tale Retelling Graphic Novels*
Thesis adviser: Ashley Davies, English
- Nizhoni Hatch**, Biomedical Sciences major and Indigenous Studies minor and Chemistry minor
Thesis title: *Identifying Plasma Biomarkers for ALS Utilizing Human and SOD1G93A Mouse Model*
Thesis adviser: Phillida Charley, Microbiology, Immunology and Pathology
- Grace Hatheway**, Biomedical Sciences major with Anatomy and Physiology concentration
Thesis title: *Systems of the Human Body Pyrography*
Thesis adviser: Emily Morgan, University Honors Program
- Taylor Haun**, Psychology major and Exercise Science minor with General Psychology concentration and Health
Thesis title: *Improving Motivation in Teams*
Thesis adviser: Danielle Gardner, Psychology

- Elena Heins**, Zoology major and Spanish minor
Thesis title: *Tu guía para tener una mascota*
Thesis adviser: Shannon Zeller, Languages, Literatures and Cultures
- Faith Hemry**, Zoology major
Thesis title: *Pawsitively Perfect: A Study of the Attributes of Successful Doggie Daycares and Recommendations for Optimal Business Practices*
Thesis adviser: Jennie Willis Marko, Biology
- Clarissa Hernandez Jeppesen**, Nutrition and Food Science major with Nutrition and Fitness concentration and Dietetics and Nutrition Management concentration
Thesis title: *Analysis of Adolescent Alliance During Mindfulness Intervention Tasks: Implications for Promoting Nutrition*
Thesis adviser: Lauren Shomaker, Human Development and Family Studies
- Spencer Hicklin**, Mechanical Engineering major
Thesis title: *1. Formula SAE Mechanical Engineering Senior Design Project*
Thesis adviser: Christopher Weinberger, Mechanical Engineering
- Ethan Ho**, Computer Engineering major with Networks and Data concentration and Computer Science minor
Thesis title: *5G Technologies Senior Design*
Thesis adviser: Chandrasekaran Venkatachalam, Electrical and Computer Engineering
- Madeline Hoffmann**, Biomedical Engineering major and Mechanical Engineering major
Thesis title: *Dual Lumen Steerable Microcatheter Design for use at Coronary Artery Bifurcations*
Thesis adviser: Ellen Brennan-Pierce, Walter Scott, JR., College of Engineering, Dean's Office
- Tanner Holbrook**, Art major with Drawing concentration and Graphic Design concentration and History minor
Thesis title: *Kill Money - A Brand Development Project*
Thesis adviser: Roberto Muntoreanu, Art and Art History
- Kajsa Holland-Goon**, Geology major with Geophysics concentration and Geospatial Information Science minor
Thesis title: *Evaluating snow depth measurement accuracy in the boreal forest: Comparing ground-penetrating radar, probes, and trench data*
Thesis adviser: Daniel McGrath, Geosciences
- Brianna Honeycutt**, Human Development and Family Studies major with Pre-Health Professions concentration and American Sign Language minor
Thesis title: *Sensory Processing, Temperament, and Maladaptive Behaviors in Children with Down Syndrome*
Thesis adviser: Deborah Fidler, Human Development and Family Studies
- Izabelle Hood**, English major with Creative Writing concentration and Global Studies minor
Thesis title: *Burnt Songs*
Thesis adviser: Dan Beachy-Quick, English
- Jessica Hughes**, English major with Literatures concentration and Creative Writing concentration and Criminology/Criminal Justice minor
Thesis title: *Media Romanticizing Criminality*
Thesis adviser: Jeffrey Nowacki, Sociology
- Hannah Hurst**, Art major with Graphic Design concentration and Entrepreneurship and Innovation minor and Art History certificate
Thesis title: *American Modern Art -- A Children's Book*
Thesis adviser: John Gravdahl, Art and Art History
- Rebecca Isaac**, Biomedical Sciences major with Anatomy and Physiology concentration
Thesis title: *Assessing the Benefits and Challenges of Transitioning to a Raw Ferret Diet*
Thesis adviser: Nicole Vieira, University Honors Program

- Jake Isley**, Computer Science major with Computer Science concentration and Business Administration minor
Thesis title: *Developing a Linux From Scratch Operating System*
Thesis adviser: Sudipto Ghosh, Computer Science
- Jason Jackson**, Biomedical Engineering major and Mechanical Engineering major
Thesis title: *Open Insulin*
Thesis adviser: Ellen Brennan-Pierce, Walter Scott, JR., College of Engineering, Dean's Office
- Kyla Jacobs**, Neuroscience major with Cell and Molecular Neuroscience concentration and Spanish minor
Thesis title: *Intracranial ventricular injection of neuropeptide Y suppresses luteinizing hormone pulses in female mice*
Thesis adviser: Richard McCosh, Biomedical Sciences
- Anika Johnson**, Psychology major with Industrial/Organizational Psychology concentration
Thesis title: *Student Athlete Burnout: A Coach's Role in Supporting Athletes Against Burnout*
Thesis adviser: Gwenith Fisher, Psychology
- Hope Johnson**, Zoology major and Conservation Biology minor
Thesis title: *Kits and curriculum for Colorado State University Biology Collections education outreach*
Thesis adviser: Nicole Vieira, University Honors Program
- Isabelle Johnson**, Biomedical Sciences major with Microbiology and Infectious Disease concentration and Anatomy and Physiology concentration
Thesis title: *Fueling the Future Microbiologists*
Thesis adviser: Nicole Kelp, Microbiology, Immunology and Pathology
- Kyndal Johnson**, Human Development and Family Studies major with Pre-Health Professions concentration
Thesis title: *Pamphlets for Stork Support of Northern Colorado*
Thesis adviser: Samantha Brown, Human Development and Family Studies
- Sydney Johnson**, Neuroscience major with Cell and Molecular Neuroscience concentration and Chemistry minor
Thesis title: *Bacterial Metabolites and Their Effects on Autistic Individuals*
Thesis adviser: Katriana Popichak, Microbiology, Immunology and Pathology
- Tyler Johnson**, Biomedical Sciences major with Anatomy and Physiology concentration
Thesis title: *Investigation into the perceived effects of sodium, potassium, and added sugar intake on hypertension pathogenesis as compared to current literature and commonly consumed foods.*
Thesis adviser: Kimberly Jeckel, Biomedical Sciences
- Anya Kaplan-Hartnett**, Political Science major and Music minor and Environmental Affairs minor
Thesis title: *The Campus Speech Ecosystem: Challenges and Opportunities for Deliberation.*
Thesis adviser: Elizabeth Sink, Communication Studies
- Cecilia Kastner**, Apparel and Merchandising major with Apparel Design and Production concentration and Women's Studies minor
Thesis title: *The Role of Apparel In Socioeconomic Subordination*
Thesis adviser: Kristen Morris, Design and Merchandising
- Abbey Kelleher**, Business Administration major with Management and Innovation concentration with Leadership in Organizations certificate
Thesis title: *Exploring the Impact of Christian Identity on the Psychological Well-being, Resilience, and Stress Management of Collegiate Athletes.*
Thesis adviser: Frances Glycener, University Honors Program
- Anna Kenyon**, Interior Architecture and Design major and Construction Management minor
Thesis title: *Capstone Reflection*
Thesis adviser: Leah Scolere, Design and Merchandising
- Emma Kessel**, Health and Exercise Science major with Sports Medicine concentration
Thesis title: *Creating Community in the Classroom Through Religious Literacy Education*
Thesis adviser: Carolin Aurian, Ethnic Studies

- Iris Kessler**, Mechanical Engineering major with Aerospace Engineering concentration
 Thesis title: *Electron Beam Emission from Satellites with Charge Mitigation Using an On-board Plasma Source*
 Thesis adviser: John Williams, Mechanical Engineering
- Katie Kilzer**, Health and Exercise Science major with Sports Medicine concentration
 Thesis title: *Youth Sports Related Concussions: Diagnosis, Treatment, and Prevention*
 Thesis adviser: Kimberly Burke, Health and Exercise Sciences
- Mica Kimmett**, Zoology major
 Thesis title: *Encouraging Coloradans to Become Involved in Ocean Conservation*
 Thesis adviser: Sarah Zwick-Tapley, University Honors Program
- Jo Kindsfater**, Biomedical Sciences major with Anatomy and Physiology concentration and Spanish minor
 Thesis title: *High Temperature Vapor Silylation and Reduced HACTA Particle Diameter as a Means of Generating Greater Percent Yield of the Polar Biomaterial Silyl Hyaluronan Cetyltrimethylammonium (SHACTA)*
 Thesis adviser: Susan James, Vice Provost for Faculty Affairs
- Julianne Kindsfater**, Biomedical Sciences major with Anatomy and Physiology concentration and French minor
 Thesis title: *Synthesis and Characterization of Pure Hyaluronic Acid Films for Biological Compatibility Assessment* ^[1] _[SEP]
 Thesis adviser: Susan James, Vice Provost for Faculty Affairs
- Devin Kircher**, Economics major with Criminology and Criminal Justice concentration and Legal Studies minor and Sociology major
 Thesis title: *The Economic Impact of Taylor Swift*
 Thesis adviser: Martin Shields, Ecosystem Science and Sustainability
- Sophia Kirk**, Biological Science major with Biological Science concentration
 Thesis title: *A how to of establishing women's health programs in a rural community*
 Thesis adviser: Anne Merline, University Honors Program
- Ethan Kruse**, Business Administration major with Organization and Innovation Management concentration and Entrepreneurship certificate
 Thesis title: *The Giving Game: The Complex Relationship between Athletic Success, Endowments, Giving, and the Emergence of Name, Image, and Likeness (NIL) in College Sports*
 Thesis adviser: D Todd Donovan, Marketing
- Addison Lambert**, Biomedical Engineering major and Mechanical Engineering major
 Thesis title: *Understanding Fibrosis Through the Mechanical Stretching of NIH-3T3 Fibroblasts*
 Thesis adviser: Soham Ghosh, Mechanical Engineering
- Joshua Langhorne**, Neuroscience major with Behavioral and Cognitive Neuroscience concentration
 Thesis title: *Auditory Entrainment as a Therapeutic Mechanism for Treating Behavioral Dysfunction and Loss of Motor Control*
 Thesis adviser: Patricia Davies, Occupational Therapy
- Sam Lappin**, Business Administration major with Marketing concentration
 Thesis title: *Community Outreach Program with Poudre Fire Authority*
 Thesis adviser: Gina Slejko, Marketing
- Katie Lennie**, Environmental Engineering major
 Thesis title: *USFS Greyrock Trail and Trailhead Design Proposal*
 Thesis adviser: Christopher Thornton, Civil and Environmental Engineering
- Paeton Lesser**, Journalism and Media Communication major and Sports Management minor
 Thesis title: *Reviving the Aurora Sentinel and other Local Newspapers with the Listen Local Campaign*
 Thesis adviser: Samuel Tham, Journalism Media Communication

- Elle Lewis**, English major with English Education concentration
Thesis title: *Let's Get Creative (Writing)*
Thesis adviser: Emily Morgan, University Honors Program
- Luna Li**, Zoology major and Conservation Biology minor
Thesis title: *Preliminary Study on the Relationship between Engagement Behavior and Length of Stay in Shelter Cats (Felis catus)*
Thesis adviser: Jennie Willis Marko, Biology
- Claire Lindsey**, Business Administration major with Supply Chain Management concentration and Leadership in Organizations certificate
Thesis title: *Exploring Generational Shifts in Consumer Values Through Gen Z Consumption of Apparel Items*
Thesis adviser: Zachary Rogers, Management
- Kathryn Lopez**, English major with Writing, Rhetoric and Literacy concentration
Thesis title: *Microbial Geomorphology and Climate Change: A Rhetorical Analysis*
Thesis adviser: Erika Szymanski, English
- Claire Lundstrom**, Biochemistry major with American Society for Biochemistry and Molecular Biology concentration and Bioinformatics minor and Sustainable Water minor
Thesis title: *Expanding the Toolset: Engineering a Sensor to Detect Ubiquitinated Epidermal Growth Factor Receptor*
Thesis adviser: Tingting Yao, Biochemistry and Molecular Biology
- Ashlynn Lutz**, Biological Science major with Biological Science concentration and Chemistry minor
Thesis title: *Protein Misfolding in Neurodegenerative Diseases*
Thesis adviser: Michael Tamkun, Biomedical Sciences
- Ashlynn Madril**, Neuroscience major with Behavioral and Cognitive Neuroscience concentration
Thesis title: *A Shellfish Journey: Characterizing an Inhibitory Receptor in the Crustacean Molt Cycle*
Thesis adviser: Donald Mykles, Biology
- Zachary Marcolina**, Biomedical Sciences major with Anatomy and Physiology concentration and Chemistry minor and Biomedical Engineering minor
Thesis title: *Accessibility In STEM*
Thesis adviser: Katherine Hutcheson, Health and Exercise Sciences
- Victoria Mariano**, Business Administration major with Marketing concentration
Thesis title: *Honors Website Redesign*
Thesis adviser: Emily Morgan, University Honors Program
- Anais Markwood**, English major with Writing, Rhetoric and Literacy concentration and Creative Writing concentration and Arabic Studies minor
Thesis title: *Veiled Beauties and Vicious Brutes: Gender in Orientalist Literature*
Thesis adviser: Aparna Gollapudi, English
- Alexander Marsh**, Mathematics major with General Mathematics concentration
Thesis title: *Finding A Non-Fourier Universal Basis for Images*
Thesis adviser: Christopher Peterson, Mathematics
- Avery Marsh**, Psychology major with General Psychology concentration and American Sign Language minor
Thesis title: *Mental Health Treatment for the Deaf and Hard of Hearing: Best Practices*
Thesis adviser: Sara Garvey, Psychology
- Maya Matsubara**, Biomedical Sciences major with Anatomy and Physiology concentration
Thesis title: *Implementing Interventions in Female NCAA DI Student-Athletes with Burnout*
Thesis adviser: Brian Butki, Health and Exercise Sciences
- Elizabeth Mayr**, Business Administration major with Finance concentration and Human Resource Management concentration and Marketing Communication and Branding certificate
Thesis title: *Significance of Student Engagement on Campus*
Thesis adviser: William Shuster, Management

- Maddie McCabe**, Equine Science major
Thesis title: *Ocular Inflammatory Cytokines Can Be Used as a Predictor for Horse With Equine Recurrent Uveitis*
Thesis adviser: Kathryn Wotman, Clinical Sciences
- Brynn McCall**, English major with Creative Writing concentration and Religious Studies minor
Thesis title: *Working Words in Red and White: Knitting Narratives of Sexual Assault and Sisterhood in Ovid's "Tereus, Procne, And Philomela"*
Thesis adviser: Zachary Hutchins, English
- Becca McDonald**, Zoology major with Botany concentration and Conservation Biology minor and Biological Science major
Thesis title: *Educational Tools for Northern Colorado Wildlife Center*
Thesis adviser: Graham Peers, Biology
- Tabby McMichael**, Psychology major with Addictions Counseling concentration and Chemistry minor
Thesis title: *Monthly Simultaneous Alcohol and Marijuana Use: Effects on Depression, Anxiety, and Stress in Male and Female College Students*
Thesis adviser: Hollis Karoly, Psychology
- Rachel McMillan**, Biomedical Sciences major with Microbiology and Infectious Disease concentration and American Sign Language minor
Thesis title: *An Analysis of the Quality of Deaf/HoH Patient Experiences*
Thesis adviser: Nicole Kelp, Microbiology, Immunology and Pathology
- Brittani Meis**, Soil and Crop Sciences major and Global Environmental Sustainability minor and Chemistry minor
Thesis title: *Carbon Mineralization: A Periodic Review*
Thesis adviser: Meagan Schipanski, Soil & Crop Sciences
- Johanna Merkel**, Biological Science major with Biological Science concentration and Music minor and Chemistry minor
Thesis title: *Examining the potential of entomopathogenic fungi as a biological control agent for wheat stem sawfly; *Cephus cinctus* (Hymenoptera: Cephidae)*
Thesis adviser: Punya Nachappa, Agricultural Biology
- Kayla Miller**, Early Childhood Education major and Human Development and Family Studies minor
Thesis title: *From Learning to Read to Reading to Learn: How early working memory support can prevent the "fourth-grade slump"*
Thesis adviser: Angela Lewis, School of Education
- Amanda Mills**, Animal Science major
Thesis title: *Diversifying the Pipeline for Improved Animal Health*
Thesis adviser: Ivette Roman-Muniz, Animal Sciences
- Nathan Mitchell**, Data Science major with Computer Science concentration
Thesis title: *Type M Error: Consequences of Selection Bias when the Null Hypothesis is False*
Thesis adviser: Benjamin Prytherch, Statistics
- Sydnee Monson**, Fish, Wildlife and Conservation Biology major with Wildlife Biology concentration
Thesis title: *Quantifying Anthropogenic Influence on Behavioral Dynamics in Wildlife: A Statistical Investigation of Habituation in Urban Ecosystems*
Thesis adviser: Justin Reeves, University Honors Program
- Andrew Moore**, Biochemistry major with Data Science concentration
Thesis title: *Characterization of Bacterial Dynamics within the *Caenorhabditis elegans* Intestine*
Thesis adviser: Erin Nishimura, Biochemistry and Molecular Biology
- Alissa Morgan**, Computer Science major with Networks and Security concentration
Thesis title: *Database Creation with Exports for Nontechnical Professionals*
Thesis adviser: Indrakshi Ray, Computer Science

Jared Morimoto, Zoology major

Thesis title: *1. Cannabidiol's Efficacy in the Treatment of Canine Osteoarthritis, a Research Paper*

Thesis adviser: Kathryn Wilsterman, Biology

Tanara Morrell, Biomedical Engineering major and Mechanical Engineering major

Thesis title: *Emergency Pediatric Scale*

Thesis adviser: Ellen Brennan-Pierce, Walter Scott, JR., College of Engineering, Dean's Office

Carina Morroni, Mechanical Engineering major

Thesis title: *The Arduino Farm*

Thesis adviser: Bert Vermeulen, Walter Scott, JR., College of Engineering, Dean's Office

Soleil Muhammad, Psychology major with Mind, Brain and Behavior concentration and Chemistry minor

Thesis title: *Breaking Down Barriers: Enhancing Access to Resources for Refugees through Community-Based Approaches*

Thesis adviser: Mary Elkins, University Honors Program

Christopher Mullen, Civil Engineering major

Thesis title: *USFS Trailhead and Trail Reroute Design: Lookout Mountain and Bulwark Ridge Trail*

Thesis adviser: Christopher Michalos, Civil and Environmental Engineering

Morgan Murphy, Human Dimensions of Natural Resources major and Diversity and Inclusion minor

Thesis title: *Impact of a Wildlife Conservation Immersion Event on BIPOC Youth*

Thesis adviser: Anna Lavoie, Human Dimensions of Natural Resources

Katie Myers, Data Science major with Neuroscience concentration

Thesis title: *Understanding Young Adults Perceptions of Data Privacy on Social Media*

Thesis adviser: Indrakshi Ray, Computer Science

Ri Nabbefeld, Computer Science major with Computer Science concentration and Design Thinking certificate

Thesis title: *"100 Days Behind You", A Story on Grief*

Thesis adviser: Dana Masden, English

Jordan Navarro, Biomedical Sciences major with Anatomy and Physiology concentration and Chemistry minor and Zoology major

Thesis title: *Constructing a Supplemental Activity for MIP 342*

Thesis adviser: Justine Liepkalns, Microbiology, Immunology and Pathology

Veronica Neujahr, Biomedical Sciences major with Environmental Public Health concentration and Food Science/Safety minor

Thesis title: *Dr.*

Thesis adviser: Joshua Schaeffer, Environmental and Radiological Health Sciences

Tam Nguyen, Biological Science major with Biological Science concentration

Thesis title: *Supporting Science Success: High-Risk Students*

Thesis adviser: Kara Coffino, School of Education

Skylar Nollenberger, Biomedical Sciences major with Anatomy and Physiology concentration

Thesis title: *International Infant Mortality: An Examination of Influences on Death Rates*

Thesis adviser: Ryan Maresh, Biomedical Sciences

Ben Norby, Mechanical Engineering major and Machine Learning minor

Thesis title: *Advanced Actuation Valve*

Thesis adviser: Daniel Wise, Mechanical Engineering

Teegan Obenshain, Biomedical Engineering major and Mechanical Engineering major and Mathematics minor

Thesis title: *Eco-Friendly Materials for Laparoscopic Surgery Training Platform*

Thesis adviser: Ellen Brennan-Pierce, Walter Scott, JR., College of Engineering, Dean's Office

- Anika O'Brian**, Biomedical Engineering major and Chemical and Biological Engineering major
Thesis title: *Optimizing Protein Crystal Stability Using a Network of Disulfide Bonds*
Thesis adviser: Christopher Snow, Chemical Engineering
- Kristina Oddo**, Zoology major
Thesis title: *Zoological Design: An Illustrated Guide to Earth's Creatures*
Thesis adviser: Nicole Vieira, University Honors Program
- Marceli Ollervidez**, Business Administration major with Finance concentration and Legal Studies minor
Thesis title: *Constitutional Clash on Women's Reproductive Rights: A Comparative Analysis of Roe v Wade and Dobbs and Jackson Women's Health Organization*
Thesis adviser: Holly Panetta, Social Work
- Laiken O'Rourke**, Civil Engineering major
Thesis title: *Aquatic Organism Passage on the South Fork of the Cache la Poudre River*
Thesis adviser: Christopher Thornton, Civil and Environmental Engineering
- Courtney Oser**, Psychology major with General Psychology concentration and Spanish minor
Thesis title: *The Relationship Between Early Developmental Milestone Acquisition and The Likelihood of Later Cooccurring Autism Symptomatology in Young Children with Down Syndrome*
Thesis adviser: Deborah Fidler, Human Development and Family Studies
- Kade Pait**, Physics major with Physics concentration
Thesis title: *Construction, measurement and efficiency of a prototype DARPA muon detector exposed to a wake-field accelerated electron beam*
Thesis adviser: John Harton, Physics
- Addie Pajor**, Health and Exercise Science major with Sports Medicine concentration
Thesis title: *Evaluating the adverse effects of fear-avoidance behaviors on rehabilitation from anterior cruciate ligament reconstruction: a literature review*
Thesis adviser: Jaclyn Stephens, Health and Exercise Sciences
- Anna Parry**, Biochemistry major with American Society for Biochemistry and Molecular Biology concentration and Languages, Literatures and Cultures major with Spanish concentration
Thesis title: *Induced epigenetic diversity and plasticity in crops to confer climate change resiliency*
Thesis adviser: Corey Rosenberg, Biochemistry and Molecular Biology
- Benjamin Pauletto**, Electrical Engineering major with Electrical Engineering concentration
Thesis title: *Novel MRI Technologies*
Thesis adviser: Branislav Notaros, Electrical and Computer Engineering
- Cassidy Payne**, Biological Science major with Biological Science concentration and Mathematical Biology minor and Conservation Biology minor
Thesis title: *An Examination of the Sustainability of Breeding Programs in AZA Accredited Zoos*
Thesis adviser: Dale Lockwood, School of Global Environmental Sustainability
- Madison Pelletier**, Biological Science major with Biological Science concentration
Thesis title: *Characterization of Biogenic Amine Receptors in Two Decapod Crustaceans*
Thesis adviser: Donald Mykles, Biology
- Evelyn Pidcock**, Mathematics major with General Mathematics concentration
Thesis title: *An Investigation of Tropical Hurwitz Theory and Moduli Spaces*
Thesis adviser: Renzo Cavalieri, Mathematics
- Santiago Pinedo**, Biomedical Sciences major with Anatomy and Physiology concentration and Languages, Literatures and Cultures major with Spanish concentration
Thesis title: *An Evaluation of the Effectiveness of the Caminos Program in Encouraging Students towards Postsecondary Education through a Focus on Cultural Wealth and Ideas to Improve Effectiveness*
Thesis adviser: Antonette Aragon, School of Education

- Daniel Pirbhai**, Business Administration major with Supply Chain Management concentration and International Business concentration
Thesis title: *Utilization and improvement of supply chains to improve food security in sub-Saharan Africa*
Thesis adviser: Paul Vanderspek, Management
- Sekar Prasetya**, Electrical Engineering major with Electrical Engineering concentration and Mathematics minor
Thesis title: *Telemedicine*
Thesis adviser: Branislav Notaros, Electrical and Computer Engineering
- Hannah Prinzi**, English major with Writing, Rhetoric and Literacy concentration and Global Studies minor and Political Science major with Global Politics and Policy concentration
Thesis title: *Creating and Preserving Affordable Housing in Fort Collins: A Housing Policy Portfolio*
Thesis adviser: Peter Harris, Political Science
- Elisa Randazzo**, Psychology major with Industrial/Organizational Psychology concentration and Philosophy minor
Thesis title: *Flourishing at Work: Integrating Philosophical and Psychological Perspectives to Reach Worker Fulfillment*
Thesis adviser: Stephanie Moreira, SLICE
- Emma Rattie**, Business Administration major with Organization and Innovation Management concentration and Marketing concentration
Thesis title: *Make-A-Wish: The impacts of receiving a lifechanging wish*
Thesis adviser: Samantha Conroy, Management
- Madison Rattler**, Environmental and Natural Resource Economics major and Global Environmental Sustainability minor
Thesis title: *Impacts of Consumer Sustainability Preferences on Producer Production and Supply Chain Transparency in the Fashion Industry*
Thesis adviser: Hayley Chouinard, Agricultural and Resource Economics
- Kayleigh Rees**, Biomedical Sciences major with Environmental Public Health concentration
Thesis title: *An Evaluation of Disinfection Methods at a Local Daycare*
Thesis adviser: Debbie Lee, Environmental and Radiological Health Sciences
- Taylor Reeves**, Health and Exercise Science major with Sports Medicine concentration
Thesis title: *Oncology healthcare professionals and cancer survivors' perspective on acute effects of exercise on cancer related fatigue.*
Thesis adviser: Heather Leach, Health and Exercise Sciences
- Hayley Reish**, Psychology major with General Psychology concentration
Thesis title: *Conceptualization Case – An In-Depth Analysis of Dissociative Identity Disorder*
Thesis adviser: Sara Garvey, Psychology
- Cait Remington**, Biological Science major with Biological Science concentration and Chemistry minor
Thesis title: *Science: Its Importance in Educating and Exciting the Next Generation*
Thesis adviser: Catherine Ratliff, English
- Genevieve Reyland-Slawson**, Mechanical Engineering major
Thesis title: *Hydroponic Greenhouse*
Thesis adviser: Olivera Notaros, Electrical and Computer Engineering
- Daniel Rice**, Fish, Wildlife and Conservation Biology major with Wildlife Biology concentration and Geospatial Information Science minor
Thesis title: *Green Pathways: Drawing Connectivity Between Forest Habitats for Endangered Species Management*
Thesis adviser: Sara Bombaci, Fish Wildlife and Conservation Biology
- Naomi Richman**, Health and Exercise Science major with Sports Medicine concentration
Thesis title: *Harnessing Human Motion*
Thesis adviser: Daniel Baker, Civil and Environmental Engineering

- Aidan Riley**, Mechanical Engineering major with Aerospace Engineering concentration
Thesis title: *Keck Automatic Balancing System*
Thesis adviser: Mitchell Stansloski, Mechanical Engineering
- Abigail Robitaille**, Communication Studies major and Legal Studies minor
Thesis title: *Support for Ukraine: How The Fate of One Country Lies In The Hands of Many*
Thesis adviser: Sarah Zwick-Tapley, University Honors Program
- Savannah Rockwell**, Psychology major with General Psychology concentration and Film Studies minor
Thesis title: *ANXIETY HAPPENS – a PSA Trilogy*
Thesis adviser: Sara Garvey, Psychology
- Isabel Rodriguez Acosta**, Zoology major and Spanish minor
Thesis title: *Día con un Veterinario*
Thesis adviser: Andrea Purdy, Languages, Literatures and Cultures
- Adrianna Rotondi**, Zoology major and Conservation Biology minor
Thesis title: *The Effects of Invasive Plants on African Bush Elephant Body Condition in Randilen WMA, Tanzania*
Thesis adviser: Shane Kanatous, Biology
- Taylor Rowe**, Biological Science major with Biological Science concentration and Fishery Biology minor
Thesis title: *A Glimpse into the lives of Student-Athletes. Is it all Fun and Games?*
Thesis adviser: S Mahoney, Sociology
- Lucas Roy**, Watershed Science major and Geospatial Information Science minor
Thesis title: *Forest to Faucets: A Watershed Science-Based STEM Kit for Middle and High School Students*
Thesis adviser: Andrew Warnock, Education and Outreach Center
- Sophie Russell**, Sociology major with Criminology and Criminal Justice concentration and Business Administration minor
Thesis title: *No More Silence: Comparative Research of Sexual Misconduct in College Universities*
Thesis adviser: Michael Hogan, Sociology
- Sebastian Ruterbories**, Physics major with Physics concentration and English minor
Thesis title: *Coulomb Repulsion in the ICARUS LArTPC*
Thesis adviser: Michael Mooney, Physics
- Margaret Salter**, Animal Science major
Thesis title: *A guide for the nutritional health of one's pet*
Thesis adviser: Shawn Archibeque, Animal Sciences
- Julia Sanders**, Biological Science major with Biological Science concentration and Spanish minor
Thesis title: *Fiber Arts as a Feminist Outlet*
Thesis adviser: Leah Holz, University Honors Program
- Meghan Scaggs**, Social Work major and Languages, Literatures and Cultures major with Spanish concentration
Thesis title: *Undocumented Latiné Survivors' Rights and Resources*
Thesis adviser: Andrea Purdy, Languages, Literatures and Cultures
- Matteo Selvaggio**, Computer Science major with Computer Science concentration and Japanese minor
Thesis title: *The Internet of Things and College Campus Networking Solutions*
Thesis adviser: Ibrahim Meftah Ibrahim Lazrig, Computer Science
- Maddie Shafer**, Biomedical Engineering major and Mechanical Engineering major
Thesis title: *Emergency Pediatric Scale Design Development and Use Trials*
Thesis adviser: Ellen Brennan-Pierce, Walter Scott, JR., College of Engineering, Dean's Office
- Abigail Shaffer**, Business Administration major with Marketing concentration and Market Research and Data Analytics certificate
Thesis title: *Non-Profit Marketing: A Qualitative Study*
Thesis adviser: D Todd Donovan, Marketing

- Mena Sherer**, Fish, Wildlife and Conservation Biology major with Conservation Biology concentration
Thesis title: *Inspiring Conservationists: Fortification of Conservation Outreach at Cheyenne Mountain Zoo*
Thesis adviser: Nicole Vieira, University Honors Program
- Emma Sherrets**, Art major with Graphic Design concentration and Business Administration minor
Thesis title: *Designing for Community*
Thesis adviser: Roberto Muntoreanu, Art and Art History
- Mo Sherrier**, Zoology major and Fish, Wildlife and Conservation Biology major with Wildlife Biology concentration
Thesis title: *Before You Squash*
Thesis adviser: Charles Harp, Agricultural Biology
- Alison Sherwood**, Business Administration major with Human Resource Management concentration and Management and Innovation concentration and Computer Science minor and Leadership in Organizations certificate
Thesis title: *Unveiling Fairness: Exploring the Perspectives of HR Hiring Managers on Hiring Individuals with Criminal Records*
Thesis adviser: Christine Henle, Management
- Alec Shields**, Environmental Engineering major
Thesis title: *Greyrock Trail and Trailhead Reroute*
Thesis adviser: Christopher Thornton, Civil and Environmental Engineering
- Nisha Shrestha**, Biological Science major with Biological Science concentration and Biomedical Sciences minor and Chemistry minor
Thesis title: *Effectiveness of Phototherapy on ESKAPE Pathogens*
Thesis adviser: Martha Mehaffy, Microbiology, Immunology and Pathology
- Julia Siegel**, Neuroscience major with Cell and Molecular Neuroscience concentration and Biomedical Sciences minor and Chemistry minor
Thesis title: *Disruptions in Tight Junctions at the Blood Brain Barrier Correlated to Neurological Disorders*
Thesis adviser: Tingting Yao, Biochemistry and Molecular Biology
- Alex Silverhart**, Biomedical Sciences major with Anatomy and Physiology concentration and Spanish minor
Thesis title: *Queer Sex Education for the Greater Fort Collins Area*
Thesis adviser: Jennifer Reinke, Human Development and Family Studies
- Matthias Simmons**, Neuroscience major with Behavioral and Cognitive Neuroscience concentration and German minor
Thesis title: *Evaluating Interventions used in Out-of-Hospital Cardiac Arrests and Their Contribution with Neurologically Intact Survival: a comprehensive review of literature.*
Thesis adviser: Jaclyn Stephens, Occupational Therapy
- Dallen Simske**, History major with General History concentration and English minor
Thesis title: *Mistruth In Education*
Thesis adviser: Anne Merline, University Honors Program
- Lydia Sinanian**, Nutrition and Food Science major with Nutrition Sciences concentration and Spanish minor
Thesis title: *Functional Hypothalamic Amenorrhea: Pathophysiology, Outcomes, and Treatments*
Thesis adviser: Colleen Burke, Food Science and Human Nutrition
- McKenna Skokos**, Ecosystem Science and Sustainability major and Global Environmental Sustainability minor
Thesis title: *Upcycled Foods*
Thesis adviser: Anne Merline, University Honors Program

- Ashlyn Smith**, Biological Science major with Biological Science concentration and American Sign Language minor
 Thesis title: *Inclusion Body Disease: Differential Effects on Boas and Pythons*
 Thesis adviser: Rachel Mueller, Biology
- Chloe Smith**, Biological Science major with Biological Sciences concentration and Biomedical Sciences minor and Chemistry minor
 Thesis title: *The Effect of Formic Acid Concentration and Exposure Time on CWD Infected and Uninfected Tissue-Samples*
 Thesis adviser: Glenn Telling, Microbiology, Immunology and Pathology
- Sarah Smith**, Sociology major with Criminology and Criminal Justice concentration and Psychology major with General Psychology concentration
 Thesis title: *The Experiences, Attitudes, and Recommendations of Undergraduate Students at Colorado State University Pertaining to Academic Accommodations Through the Student Disability Center*
 Thesis adviser: Sara Garvey, Psychology
- Abi Somers**, Biomedical Sciences major with Anatomy and Physiology concentration and Languages, Literatures and Cultures major with French concentration
 Thesis title: *Improving the Language Barrier Between French Speakers and American Physicians*
 Thesis adviser: Gretchen O'Dell, Languages, Literatures and Cultures
- Kelsey Sonius**, Fish, Wildlife and Conservation Biology major with Wildlife Biology concentration
 Thesis title: *Wildlife Conservation in La Bendición: exploring the role of Indigenous-led stewardship and knowledge sharing in shaping conservation in the tropics of Guatemala*
 Thesis adviser: Sara Bombaci, Fish Wildlife and Conservation Biology
- Tanya Sopkin**, Sociology major with General Sociology concentration and English minor
 Thesis title: *Landmarks of the Heart: Exploring Nature's Significance in the Rockies*
 Thesis adviser: Harrison Fletcher, English
- Bodie Spinner**, Ecosystem Science and Sustainability major and Geospatial Information Science minor
 Thesis title: *Thermal and microspatial variation, not food availability, affect mass in a hibernating squirrel*
 Thesis adviser: Caitlin Wells Salerno, Fish Wildlife and Conservation Biology
- Jana Stich**, Ecosystem Science and Sustainability major and Geospatial Information Science minor
 Thesis title: *Site Suitability Analysis and Feasibility of Forestry Carbon Offset Projects in Larimer County, CO*
 Thesis adviser: Elizabeth Tulanowski, Ecosystem Science and Sustainability
- Isabella Stumpf**, Sociology major with Criminology and Criminal Justice concentration and French minor
 Thesis title: *A Scoping Review of American, English, and Scandinavian Prison Systems*
 Thesis adviser: Tara Opsal, Sociology
- Tori Thompson**, Languages, Literatures and Cultures major with French concentration and Zoology minor
 Thesis title: *An Exploration of the Breeding, Training, and Impact of Service Dogs*
 Thesis adviser: Leah Holz, University Honors Program
- Cameron Tolar**, Ecosystem Science and Sustainability major and Watershed Science minor
 Thesis title: *Spatial Analysis of 2017-2018 Drought and its impact on Aspen tree populations in southwest Colorado*
 Thesis adviser: Jason Sibold, Anthropology and Geography
- Krist Tran**, Biological Science major with Biological Science concentration and Business Administration minor
 Thesis title: *A New Normal: How the End of the National Health Emergency Has Impacted Healthcare Insurance*
 Thesis adviser: Ellen Burnes, Finance and Real Estate

- Maas Van De Graaf**, Civil Engineering major
Thesis title: *Soldier Creek Trail Design*
Thesis adviser: Nicole Ellison, Civil and Environmental Engineering
- Olivia Van de Kerkhove**, Biomedical Sciences major with Anatomy and Physiology concentration and Legal Studies minor
Thesis title: *Posthumous Human Rights*
Thesis adviser: Sarah Zwick-Tapley, University Honors Program
- Jacob VanArsdale**, Physics major and Mathematics minor with Physics concentration
Thesis title: *Development and Transfer of Frequency Standards for Precision Measurement Experiments*
Thesis adviser: Samuel Brewer, Physics
- Braden Vande Plasse**, Biological Science major with Biological Science concentration
Thesis title: *Patterns Among Reptiles Tolerant of Urban Environments: What makes them different?*
Thesis adviser: Jennifer Neuwald, Biology
- Sam Vaughan**, Civil Engineering major
Thesis title: *Alta Vista Stormwater Project: An H&H Analysis*
Thesis adviser: Christopher Thornton, Civil and Environmental Engineering
- Imani Vontoure**, Zoology major and Creative Writing minor
Thesis title: *A Girl Like*
Thesis adviser: Dana Masden, English
- Trevor Wahl**, Construction Management major and Business Administration minor
Thesis title: *Opportunities for Improving Water Efficiency on LBC Projects in Semi-Arid Climates: Colorado Case*
Thesis adviser: Rodolfo Valdes Vasquez, Construction Management
- Sophie Wasem**, Neuroscience major with Behavioral and Cognitive Neuroscience concentration
Thesis title: *Executive Function Following Acquired Brain Injury*
Thesis adviser: Jaclyn Stephens, Health and Exercise Sciences
- Rachel Washburn**, Health and Exercise Science major with Health Promotion concentration and Gerontology minor
Thesis title: *"Explore and Learn: Tech Skills for Older Adults" - A Class Series to Support Older Adults with Technology*
Thesis adviser: Christine Bubien, Human Development and Family Studies
- Kristin Weninger**, Biomedical Sciences major with Environmental Public Health concentration and Microbiology and Infectious Disease concentration and Music minor
Thesis title: *Neurotoxicity Induced by Urinary Tract Escherichia coli Infection Results in Neuroinflammation in a Guinea pig Model*
Thesis adviser: Julie Moreno, Environmental and Radiological Health Sciences
- Mackenzie Widmer**, Biomedical Sciences major with Anatomy and Physiology concentration and Spanish minor and Chemistry minor
Thesis title: *Surfactant Replacement Therapy in Neonates*
Thesis adviser: Russell Anthony, Biomedical Sciences
- Mackenzie Wienke**, Biological Science major with Biological Science concentration
Thesis title: *Characterization of modes and kinetics in mutation accumulation models in Saccharomyces cerevisiae*
Thesis adviser: Juan Argueso, Environmental and Radiological Health Sciences
- Eja Willis**, Neuroscience major and Anthropology minor and Behavioral and Cognitive Neuroscience concentration
Thesis title: *The Use of Probiotics as Treatment for Alzheimer's Disease: A Review*
Thesis adviser: Katherine Hebert, Psychology

Emily Wilson, Animal Science major

Thesis title: *The Impact of Personality Traits on the Susceptibility of Dairy Calves to Sickness*

Thesis adviser: Mary Cramer, Animal Sciences

Evan Wilusz, Sociology major with Criminology and Criminal Justice concentration and Business Administration minor

Thesis title: *Human Trafficking, Education, and Resource Effectiveness on a College Campus*

Thesis adviser: Michael Hogan, Sociology

Kathryn Worrell, Biomedical Sciences major with Microbiology and Infectious Diseases concentration

Thesis title: *Spontaneous Prion Diseases and Prion Therapeutics*

Thesis adviser: Alan Schenkel, Microbiology, Immunology and Pathology

Lizzie Worsham, Zoology major

Thesis title: *Social Media and the Exotic Pet Trade*

Thesis adviser: Nicole Vieira, University Honors Program

Hallie Scrivener, Zoology major and Conservation Biology minor and Global Studies minor

Thesis title:

Thesis adviser: ,

Ewan Wummel, Journalism and Media Communication major and Japanese minor

Thesis title: *Boogie Wonderland*

Thesis adviser: Sarah Zwick-Tapley, University Honors Program

Peyton Wyman, Communication Studies major and Film Studies minor

Thesis title: *Cinematography Video Essay*

Thesis adviser: Usama Alshaibi, Communication Studies

Callan Zink, Art major with Drawing concentration and Business Administration minor

Thesis title: *The Effects of Art in the Public Landscape: Community Directed Mural Creation*

Thesis adviser: Ajean Ryan, Art and Art History