Annelise Elaine Adolph, Health and Exercise Science major with Sports Medicine concentration
  Thesis title: Perception and Exercise: Can your Mentality Affect Your Body?
  Thesis adviser: Brian Butki, Health and Exercise Science

Katherine Agster, Biomedical Sciences major
  Thesis title: Obsessive Compulsive Disorder: A Look into Current Physiological and Psychological Knowledge and Treatment Options
  Thesis adviser: Leslie Stone-Roy, Biomedical Sciences

Jacob Alfieri, Biomedical Engineering and Electrical Engineering major with Mathematics minor
  Thesis title: Smart Well-Plate
  Thesis adviser: Thomas Chen, Electrical and Computer Engineering

Sarah Alfieri, Biochemistry major with General Biochemistry concentration and Biomedical Sciences minor
  Thesis title: Yeast Chromatin Remodeler SWR1 Interations With the Transcription Factor SPN1 Eluciate Potential Chromatin Remodeling Mechanisms
  Thesis adviser: Laurie Stargell, Biochemistry and Molecular Biology

Zachary Alwais, Business Administration major with Marketing concentration
  Thesis title: Martin Luther: Early, Original, and Consequential Truth Seeker
  Thesis adviser: Pamela Vaughan Knaus, Honors Program

Caroline Amann, Health and Exercise Science major with Health Promotion concentration
  Thesis title: Examining the Impact of Perceived Importance of Different Motivating Factors on Exercise Adherence in Different Age Groups
  Thesis adviser: Brian Butki, Health and Exercise Science

Connor Anderson, Mechanical Engineering major
  Thesis title: Data Acquisition for CSU FSAE Competition Team
  Thesis adviser: Chris Weinberger, Mechanical Engineering

Emma Atwell, Civil Engineering major
  Thesis title: Designing a Dam to Provide Water for Consumptive Need on the Front Range of Colorado
  Thesis adviser: Christopher Thornton, Civil and Environmental Engineering

Victoria Bachtell, Chemistry major with ACS Certified concentration and Global Environmental Sustainability minor
  Thesis title: Determining Stability of Novel Vanadium Schiff-Base Complexes for Exploratory Cancer Research
  Thesis adviser: Debbie Crans, Chemistry

Landon Baird, Business Administration major with Marketing concentration
  Thesis title: Rebranding Saint Frances Cabrini for the 21st Century: Littleton Youth Encounter Christ and His Community through Technology and Art
  Thesis adviser: Pamela Vaughan Knaus, Honors Program

Austin Banks, Chemical and Biological Engineering major and Mathematics minor
  Thesis title: Technoeconomic Assessment and Life Cycle Analysis of Algae Based Biofuels: Algae Cultivation to Lipid-Derived Biodiesel Production
  Thesis adviser: John Sheehan, Chemical and Biological Engineering
Nicholas Banks, Business Administration major with Finance concentration and Market Research and Data Analytics certificate
Thesis title: Market Analysis for Implementation of New Digital Bank
Thesis adviser: Burton Deines, Management

Gabriel Baranovsky, Mechanical Engineering major
Thesis title: 5-axis Robotic Additive Manufacturing
Thesis adviser: David Prawel, Mechanical Engineering

Joshua Lane Baumgardner, Horticulture major with Horticulture Business Management concentration and Business Administration minor
Thesis title: Nutrient and Water Requirements of Cannabis sativa ‘Cherry Wine’ During the Vegetative Phase
Thesis adviser: Bill Bauerle, Horticulture and Landscape Architecture

Chloe Ashley Beardsley, Chemistry major with ACS Certified concentration and Spanish minor
Thesis title: Chem-O-Meters for Kids: Development of a Culturally Relevant Education Kit to Teach Students about Paper-Based Microfluidics
Thesis adviser: Chuck Henry, Chemistry

Olivia Beck, Mathematics major with Applied Mathematics concentration and Statistics major with General Statistics concentration
Thesis title: Evaluating the Effects of the Safe Ride Anywhere Policy in Colorado State University’s RamRide Safe Ride Program
Thesis adviser: Ander Wilson, Statistics

Emilyn Bell, International Studies major with Latin American Studies concentration and Languages, Literatures, and Cultures major with Spanish concentration
Thesis title: U.S Detention Center Role and Function: Current Migration Issues
Thesis adviser: Andrea Purdy, Languages, Literatures and Cultures

J. Elizabeth Bennett, Journalism and Media Communications major and Ecosystem Sciences and Sustainability major
Thesis title: Exploring Health, Wellness, and Diet through Chronic Illness
Thesis adviser: Michael Humphrey, Journalism and Media Communication

Allie Benz, Psychology major with General Psychology concentration and Political Science minor
Thesis title: The Interaction Effects of Neuroticism and Conscientiousness on Predicting Stress Response
Thesis adviser: Gloria Luong, Human Development and Family Studies

Emily Bergum, Biomedical Engineering and Mechanical Engineering major
Thesis title: Quantifying Comfort - Quatro Socket Analysis Senior Design Team
Thesis adviser: Kirk McGilvray, Mechanical Engineering

Kara Billington, Biomedical Sciences major, Economics major and Microbiology minor
Thesis title: Feline Immunodeficiency Virus Incidence Rates and Standards of Care Worldwide
Thesis adviser: Susan VandeWoude, Microbiology, Immunology and Pathology
Allison Blue, Biological Science major with Biological Science concentration and Anthropology minor
  Thesis title: *Chronic Disease of Immigrants in the United States: A Review of Healthcare and Surveillance Systems*
  Thesis adviser: Maggie Clark, Environmental and Radiological Health Sciences

Mykaila Blumhardt, Biomedical Sciences major and Chemistry minor
  Thesis title: *Analysis of Impact of Influenza Infection During Pregnancy on Maternal and Fetal Health*
  Thesis adviser: Gerrit Bouma, Biomedical Sciences

Evan Bode, Communications Studies major and English, General Sociology and Film Studies minors
  Thesis title: *Completion of a Feature Length Motion Picture Screenplay*
  Thesis adviser: Scott Diffrient, Communication Studies

Krista Botkin, Fish, Wildlife and Conservation Biology major with Conservation Biology concentration
  Thesis title: *Something to Crow About: How Public Perceptions Influence Management Options in Human Conflicts with Corvids*
  Thesis adviser: Ann Randall, Fish, Wildlife and Conservation Biology

Casey Boyd, Chemistry major with ASC Certified concentration
  Thesis title: *Measurement of Halogen Structure and Dynamics in Metal Halide Perovskites Through Nuclear Quadrupole Resonance Spectroscopy*
  Thesis adviser: Joseph DiVerdi, Chemistry

Mackenzie Brigham, Business Administration major with Finance concentration and Apparel and Merchandising major with Merchandising concentration
  Thesis title: *Collaboration Within the Fashion Industry: lululemon x Vail Resorts*
  Thesis adviser: Ruoh-Nan Yan, Design and Merchandising

Madeline Brill, Biological Science major with Biological Science concentration and Business Administration minor
  Thesis title: *Navigating the College Transition With Type I Diabetes*
  Thesis adviser: Alan Schenkel, Microbiology, Immunology and Pathology

Cassandra Brown, Fish, Wildlife and Conservation Biology major with Conservation Biology concentration and Spatial Information Management minor
  Thesis title: *Direct and Indirect Effects of Herbivory by Acheta domesticus on Poa Pratensis in Light Polluted Environments*
  Thesis adviser: Brett Seymoure, Fish, Wildlife and Conservation Biology

Brooke Buchan, Journalism and Media Communications major and Business Administration and Spanish minors
  Thesis title: *Looking Through Green-Tinted Glasses. A Comparison of the Effectiveness of Photography Activism and the Impact of the Tool That Enables It*
  Thesis adviser: Steven Weiss, Journalism and Media Communication

Nolan Bunting, Zoology major
  Thesis title: *Molecular Response of the Eyestalk Ablated Blackback Land Crab, Gecarcinus lateralis, Under Conditions of Acute Thermal Stress*
  Thesis adviser: Donald Mykles, Honors Program
Maria Byers-Alexander, Political Science major, Ethnic Studies major and Legal Studies interdisciplinary minor
Thesis title: *Post-Dictatorship Environmental Policy in Chile and the Impacts on its Indigenous Population*
Thesis adviser: Ernesto Sagas, Ethnic Studies

Venus Cariaso, Mathematics major with Mathematics Education concentration
Thesis title: *An Investigation into the Bullying Epidemic: Exploring the Impact of Bullying Experiences on Colorado State University's Honors Community*
Thesis adviser: Christina Berg, CSU Health Network

Kailey Carlson, Fish, Wildlife and Conservation Biology major with Wildlife Biology concentration and Philosophy minor
Thesis title: *Using Spoor Count Data to Estimate Lion Prey Species Abundance in Amboseli Region, Kenya*
Thesis adviser: Kevin Jablonski, Forest & Rangeland Stewardship

Brenna Carter, Psychology major with Clinical/Counseling Psychology concentration, International Studies major with European Studies concentration and Russian Studies, Economics, and Political Science minors
Thesis title: *Resilience in Ballet Dancers: A Qualitative Study*
Thesis adviser: Alyssa Gibbons, Psychology

Ben Cartwright, Business Administration major with Finance concentration
Thesis title: *The Effects of Tariffs on the Automobile Industry*
Thesis adviser: Scott Roark, Finance and Real Estate

Si Chen, Business Administration major with Accounting and Finance concentrations
Thesis title: *Stock Valuation: Is Netflix a Good Investment*
Thesis adviser: Ellen Burnes, Finance and Real Estate

Taylor Christmann-Fishman, Human Development and Family Studies major with Pre-Health Professions concentration
Thesis title: *Advance Directives: The Talk That No One Wants to Have*
Thesis adviser: Jennifer Aberle, Human Development and Family Studies

Madison Cieciorka, Civil Engineering major
Thesis title: *A Micro-Mobility Study: Why It Isn't Working and How It Can Be Improved*
Thesis adviser: Christopher Thornton, Civil and Environmental Engineering

Natalya Clasen, Ethnic Studies major and Women's and Gender Studies major
Thesis title: *Border Camps as Racial Projects: An Archaeological Study in Whiteness*
Thesis adviser: Caridad Souza, College of Liberal Arts

Isabelle Clement, Apparel and Merchandising major with Product Development concentration and Business Administration minor
Thesis title: *Investigating Consumer Perceptions and Supply Chain Disruptions: Case of Fashion Rental Subscriptions*
Thesis adviser: Sonali Diddi, Design and Merchandising

Sarah Cleveland, Nutrition and Food Science major with Nutrition Sciences concentration
Thesis title: *Examining the Implications of Plant Based Meat Products of Impossible Foods and Beyond Meat*
Thesis adviser: Kimberly Cox-York, Food Science and Human Nutrition
Connor Craddock, Mechanical Engineering major
Thesis title: The Future of Using an Agricultural Remote Livestock Monitoring System
Thesis adviser: Wade Troxell, Mechanical Engineering

Rachel Croissant, Human Development and Family Studies major with Pre-Health Professions concentration
Thesis title: Prevalence of Body Dissatisfaction and Disordered Eating Patterns in Teens at Risk for Adult Obesity: Associations Among Dysfunctional Eating Patterns, Relationship Functioning, and Psychological Well-Being
Thesis adviser: Lauren Shomaker, Human Development and Family Studies

Morgan Crump, Fish, Wildlife and Conservation Biology major with Conservation Biology concentration and Environmental Affairs minor
Thesis title: Behavioral and Physiological Essay of Acheta domesticus Herbivory on Poa parentis Under Artificial Light Pollution
Thesis adviser: Brett Seymoure, Fish, Wildlife and Conservation Biology

Annaclaire Crumpton, Political Science major with Global Politics and Policy concentration and Journalism and Media Communication major
Thesis title: Soil and Gold: How Government Funds Impact the American and European Dinner Plate
Thesis adviser: Daniela Castillo, Journalism and Media Communication

Michelle Cruse, Biological Science major with Biological Science concentration
Thesis adviser: Pamela Vaughan Knaus, Honors Program

Desarae Cruz, Art major with Electronic Art and Photo Image Making concentrations and Computer Science minor
Thesis title: Home - An Autobiographical Exhibition of Photography and Electronic Art
Thesis adviser: Gary Huibregtse, Art and Art History

Makayla Dahl, Business Administration major with Marketing concentration, Entrepreneurship and Market Research and Data Analytics certificates and Entrepreneurship and Innovation minor
Thesis adviser: Dawn DeTienne, Management

Kendal Erin Davis, Zoology major and Chemistry minor
Thesis title: Impacts of Lead-Based Ammunition on Birds of Prey in Colorado: Perspectives of Hunters and Raptor Rehabilitators
Thesis adviser: Liba Goldstein, Fish, Wildlife and Conservation Biology

Elizabeth De Laurell, Health and Exercise Science major with Sports Medicine concentration
Thesis title: Comparison of Electrolyte Only Versus Electrolyte-Carbohydrate Solutions During Ingress Wildland Fire Hike
Thesis adviser: Jennifer Richards, Health and Exercise Science

Carlos Delgado, Business Administration major with Finance concentration, International Business certificate and French and Statistics minors
Thesis title: Pacing of Films Across Time
Thesis adviser: Ben Prytherch, Statistics
James DeMoss, Biological Science with Biological Science concentration, and Languages, Literature and Cultures major with Spanish concentration and Spanish for Animal Health Care certificate and Latin American and Caribbean studies minor
  Thesis title: *The Importance of Speaking Another Language in the Field of Veterinary Medicine*
  Thesis adviser: Maura Velazquez-Castillo, Languages, Literatures and Cultures

Malia Desmarais, Health and Exercise Science major
  Thesis title: *Changes in Balance, Strength and Sensory Function After a Rehabilitative Yoga Intervention in Neurologic Patients*
  Thesis adviser: Brian Tracy, Health and Exercise Science

Madison Driscoll, Biological Science major with Biological Science concentration and Biomedical Sciences minor
  Thesis adviser: Tod Clapp, Biomedical Sciences

Blake Charles Duff, Mechanical Engineering major
  Thesis title: *Plasma Diagnostic Measurements of a High-Voltage Laser Triggered Switch by Optical Emission Spectroscopy*
  Thesis adviser: Azer Yalin, Mechanical Engineering

Kaley Egan, Fish, Wildlife and Conservation Biology major with Wildlife Biology concentration and Philosophy minor
  Thesis title: *Understanding the Effects of Urbanization and Artificial Light at Night on the Presence of Coyotes (Canis latrans) and Red Fox (Vulpes vulpes) in Fort Collins, Colorado*
  Thesis adviser: Brett Seymoure, Fish, Wildlife and Conservation Biology

Paul Christian Eide, Nutrition and Food Science major with Nutrition Sciences concentration
  Thesis title: *Diet, Gut Microbiota, and the Gut-Brain Axis*
  Thesis adviser: Katriana Popichak, Microbiology, Immunology and Pathology

Lillian Esterl-Byrne, Equine Science major and Agricultural Business minor
  Thesis title: *CSU Right Horse Program Social Media Marketing Campaign and Adoption Showcase*
  Thesis adviser: Kristen Martell, Animal Sciences

Macy Falk, Neuroscience major with Cell and Molecular Neuroscience concentration
  Thesis title: *Effectiveness of Antisense Oligonucleotides on the Knockdown of the Mu Opioid Receptor*
  Thesis adviser: Shane Hentges, Biomedical Sciences

Austin Fearn, Mathematics major with Applied Mathematics concentration and Economic major and Philosophy minor
  Thesis title: *Modeling Vapor-to-Particle Ammonium Chloride Band Formation*
  Thesis adviser: Patrick Shipman, Mathematics

Roman Fedorak, Psychology major with Clinical/Counseling Psychology concentration
  Thesis title: *Safeguarding the Future: A Preventative Effort Focused on Self Care in Children*
  Thesis adviser: Lee Rosen, Psychology
Ryan Fenske, Civil Engineering major
Thesis title: Ram Autonomy and Drone Research Center Development
Thesis adviser: Christopher Thornton, Civil and Environmental Engineering

Reagan E. Fitzke, Psychology major with Clinical/Counseling Psychology concentration and Applied Statistics minor
Thesis title: Individual Factors Influencing Cannabis Non-Use Motives in American Indian Youth
Thesis adviser: Mark Prince, Psychology

Kinsey Flanders, Mechanical Engineering major and Business Administration minor
Thesis title: Ramskeller Brewhouse Automation Design
Thesis adviser: Anthony Maciejewski, Electrical and Computer Engineering

Paige Floyd, Mechanical Engineering major
Thesis title: Swing for the Stars
Thesis adviser: Sam Bechara, Mechanical Engineering

Mason Force, Applied Computing Technology major
Thesis title: Quantifying the Unquantifiable: The Social Challenges of an Increased Utilization of Artificial Intelligence
Thesis adviser: Anne Marie Merline, Honors Program

Benjamin Fox, Electrical Engineering major with Electrical Engineering concentration
Thesis title: Wireless Signal Characterization of Indoor Environments
Thesis adviser: Branislav Notaros, Electrical and Computer Engineering

Krista Frable, Art major with Graphic Design concentration and Business Administration major with Marketing concentration
Thesis title: Sips Coffee Official Business Plan
Thesis adviser: Jon Firooz, Marketing

Lauren Fredeen, Human Development and Family Studies major with Pre-Health Professions concentration and Biomedical Sciences minor
Thesis title: The Benefits of Adaptive Behavior of Employment and Postsecondary Education Among Individuals with Down Syndrome
Thesis adviser: Deborah Fidler, Human Development and Family Studies

Hannah Gambee, Music major with Music Education concentration
Thesis title: Pedagogical Practice at Work: Action Research in Music Education
Thesis adviser: Seth Pendergast, School of Music, Theatre and Dance

Yvette Garcia,
Thesis title: How the Affordable Care Act Changed the United States Healthcare System
Thesis adviser: James Stekelberg, Accounting

Adrienne Gaughan, Biomedical Sciences major and Spanish minor
Thesis title: Addressing Vaccine Education and the Rise of the Anti-Vaccination Movement
Thesis adviser: Ryan Maresh, Biomedical Sciences

Nathanael Gertner, Business Administration major with Finance and Accounting concentrations
Thesis title: Valuation and Financial Statement Analysis for Anheuser-Busch InBev (BUD)
Thesis adviser: Hong Miao, Finance and Real Estate
Dylan Giardina, Biomedical Engineering and Mechanical Engineering major
Thesis title: Monitoring Ozone and Associated Health Outcomes in Colorado Front Range
Thesis adviser: Shantanu Jathar, Mechanical Engineering

Leah Gibson, Mathematics major with General Mathematics concentration and Spanish minor
Thesis title: Listening to the Horse: Modifying Horsemanship Training Approaches to Effectively Train Rescue Horses
Thesis adviser: Melissa Edwards, Institute for Learning & Teaching

Elizabeth Giguere, Hospitality Management major
Thesis title: Understanding the Zoning Regulations of Short-Term Rentals in the Fort Collins Area
Thesis adviser: Eric Milholland, Food Science and Human Nutrition

Catherine Goolsby, Business Administration major with Accounting and Finance concentrations
Thesis title: Big Data in the Audit Industry
Thesis adviser: Eric Rapley, Accounting

Tyler Greear, English major with Creative Writing concentration, History major with General History concentration and Film Studies minor
Thesis title: Feature Film Screenplay
Thesis adviser: Scott Diffrient, Communication Studies

Thomas Griffin, Environmental Health major
Thesis adviser: Joshua Schaeffer, Environmental and Radiological Health Sciences

Hannah Hacker, Hospitality Management major and Business Administration minor
Thesis title: Coming Together During Corona: Planning a Student Event Among a Global Pandemic
Thesis adviser: Eric Milholland, Food Science and Human Nutrition

Olivia Hahn, Biomedical Engineering and Mechanical Engineering major and Mathematics minor
Thesis title: Quatro Socket Analysis Senior Design Project
Thesis adviser: Kirk McGilvray, Mechanical Engineering

Zachary Haigh, Biomedical Engineering and Chemical and Biological Engineering major with Mathematics minor
Thesis title: Integrating Motion Capture Software and Virtual Reality for Bayesian Inference Protocols
Thesis adviser: Brett Fling, Health and Exercise Science

Allyson Hamlyn, Interior Architecture and Design major and International Development minor
Thesis adviser: Stephanie Clemons, Design and Merchandising

Nicole Hardesty, Political Science major and Legal Studies minor
Thesis title: Comparative Health Care Systems
Thesis adviser: Gamze Cavdar, Political Science
Courtney Hardy, Biomedical Sciences major and Microbiology minor
   Thesis title: The Art of Prions
   Thesis adviser: Mark Zabel, Microbiology, Immunology and Pathology

Allison Hare, Neuroscience major with Behavioral and Cognitive Neuroscience concentration and Biomedical Sciences minor
   Thesis title: Take It One Step at a Time - The Nervous System's Bayesian Approach to Sensory Uncertainty
   Thesis adviser: Brett Fling, Health and Exercise Science

Kellen Harp, Business Administration major with Accounting and Finance concentrations and International Business certificate
   Thesis title: Are CLOs the New CDOs? A Look Into Whether Collateralized Loan Obligations Could Cause the Next Financial Crisis
   Thesis adviser: Sean Flynn Jr, Finance and Real Estate

Haleakala Harroun, Biological Science major with Biological Science concentration
   Thesis title: Knocking Out and Rescuing the ATP3 Gene in Arabidopsis Thaliana
   Thesis adviser: Dan Sloan, Biology

Charles Harvey, Biomedical Sciences major
   Thesis title: Interpreting How Fungiform Papillae Size and Shape Correlates with Tongue Sensitivity Using Electrotactile Stimulation
   Thesis adviser: Leslie Stone-Roy, Biomedical Sciences

Jenna Hattendorf, Biomedical Sciences major
   Thesis title: The Use of PCR for Antigen Receptor Rearrangement (PARR) to Distinguish and Diagnose Feline GI Lymphoma from Inflammatory Bowel Disease
   Thesis adviser: Anne Avery, Microbiology, Immunology and Pathology

Elena Haverluk, Anthropology major
   Thesis title: Art as Outreach: A Snapshot of Ancient Native American Lifeways in Colorado
   Thesis adviser: Jason La Belle, Anthropology and Geography

Hannah Heath, English major with Creative Writing concentration and Global Environmental Sustainability minor
   Thesis title: Exploring Different Perspectives Through Poetry
   Thesis adviser: Andrea Purdy, Languages, Literatures and Cultures

Devan Heinrichs, Biomedical Sciences major and Chemistry minor
   Thesis title: A Review on Maternal Mortality
   Thesis adviser: Gerrit Bouma, Biomedical Sciences

Caitlyn Helwig, Health and Exercise Science major with Sports Medicine concentration
   Thesis title: The Effect of Wear on Crumb Rubber's Vertical Mechanical Properties in Artificial Turf Fields
   Thesis adviser: Raoul Reiser, Health and Exercise Science

Brielle Hermstedt, Biomedical Sciences major
   Thesis title: Allocation Trade-offs Resulting From an Immune Challenge in Individuals of Different Metabolic Rates
   Thesis adviser: Dhruba Naug, Biology

Jenna Marie Elizabeth Herzog, Biochemistry major
   Thesis title: Illustrating the Impact of DNA Methylation on Breast Cancer Development
   Thesis adviser: Jeffrey Hansen, Biochemistry and Molecular Biology
Gabrielle Jordan Hess, Health and Exercise Science major with Sports Medicine concentration
Thesis title: An Analysis of the Dynamic Vertical Response and Stability Characteristics of the Lower Limb During the Drop Landing and Bilateral Hops Movement on Two Different Turf Surfaces
Thesis adviser: Raoul Reiser, Health and Exercise Science

Carter Hill, Political Science major and Communication Studies major
Thesis title: "Leading From Within: How Driving Performance Excellence Creates World Class Municipal Services
Thesis adviser: Ryan Scott, Political Science

Hannah Hinckley, Nutrition and Food Science major with Nutrition Sciences concentration
Thesis title: Nonprofit Restaurants: A Sustainable Solution to Reducing Food Insecurity and Increasing Longevity
Thesis adviser: Leslie Cunningham-Sabo, Food Science and Human Nutrition

Kyle Hobbs, Computer Science major with Computer Science concentration and Mathematics minor
Thesis title: Choose Your Own Adventure App
Thesis adviser: Laura Moreno Cubillos, Computer Science

Natalie Hodgman, Ecosystem Science and Sustainability major and Political Science minor
Thesis title: Where Are the Trees? The Potential Role of Forests in Article Six of the Paris Agreement
Thesis adviser: Ryan Scott, Political Science

Charles Hogenauer, Civil Engineering major
Thesis title: Railroad Bridge Replacement
Thesis adviser: Ryan Bailey, Civil and Environmental Engineering

Grace Hollis, Biochemistry major with American Society for Biochemistry and Molecular Biology concentration
Thesis title: Caffeine: Friend or Foe? The Chemical and Physiological Effects of Prolonged Caffeine Use on the Brain
Thesis adviser: Lubna Tahtamouni, Biochemistry and Molecular Biology

Dakota Horendeck, Biochemistry major with General Biochemistry concentration and Political Science minor
Thesis title: Cell Survival and DNA Damage Track Structure Correlation Using Proton Beam Radiation
Thesis adviser: Takamitsu Kato, Environmental and Radiological Health Sciences

William Maxwell Hostetter, Chemical and Biological Engineering major and Biomedical Engineering minor
Thesis title: Effects of Filamin-c Mutations on Heart Flow Characteristics in Zebrafish
Thesis adviser: Deborah Garrity, Biology

Margaret Howell, Equine Science major
Thesis title: Multiplex Fluorescent Immunocytochemistry Assay for the Diagnosis of Feline Infectious Peritonitis
Thesis adviser: Kelly Santangelo, Microbiology, Immunology and Pathology

Mary Howerton, Biomedical Sciences major
Thesis title: Impact of Chorionic Somatomotropin Deficiency on Expression of Fetal Hepatic Genes Regulating Glucose Metabolism
Thesis adviser: Russ Anthony, Biomedical Sciences
Teresa Hubbeling, Mechanical Engineering major
   Thesis title: *Caterpillar RCM Combustion Study*
   Thesis adviser: Anthony Marchese, Mechanical Engineering

Samuel Hudgens, Ecosystem Science and Sustainability major
   Thesis title: *Spatio-Temporal Dynamics of Human-Black Bear Interactions in a Fragmented Landscape*
   Thesis adviser: Lise Aubry, Fish, Wildlife and Conservation Biology

Daniel Hunt, Mechanical Engineering major
   Thesis title: *Baja SAE Senior Design Project Reflection*
   Thesis adviser: John Petro, Mechanical Engineering

Tori Hunter, Natural Resource Management major and Forestry major with Forest Fire Science concentration and Spatial Information Management minor
   Thesis title: *Opportunities for Beaver Dam Analogue Use in Rocky Mountain National Park*
   Thesis adviser: Jeremy Sueltenfuss, Forest and Rangeland Stewardship

Hannah Hurlbut, International Studies major with Asian Studies concentration, Communication Studies major and Chinese minor
   Thesis title: *Podcasts that Push Boundaries: How Feminism in China Prospers through Media Formats*
   Thesis adviser: Allison White, Political Science

Heidi Hutchins, Political Science major with Global Politics and Policy concentration and French minor
   Thesis title: *An Argument for a Runoff Democratic Party Presidential Primary System*
   Thesis adviser: Kyle Saunders, Political Science

Blake Jackson, Agricultural Business major with Agricultural Economics concentration
   Thesis title: *Irrigated Agriculture in Colorado: An Uncertain Future*
   Thesis adviser: Marshall Frasier, Agricultural and Resource Economics

Anna Jacobs, Biomedical Sciences major and Spanish minor
   Thesis title: *Creation of Ovine IUGR Model Using Lentiviral-oCSH CRISPR-Cas9*
   Thesis adviser: Russ Anthony, Biomedical Sciences

Kyra Jensen, Chemical and Biological Engineering major
   Thesis title: *Cell and Nuclear Morphology: Interrelations and Applications*
   Thesis adviser: Ashok Prasad, Chemical and Biological Engineering

Bradley Johnson, Agricultural Business major with Farm and Ranch Management concentration and Environmental and Natural Resource Economics minor
   Thesis title: *Collins Ranch: A Ranch Management Plan (Business Plan Format)*
   Thesis adviser: Marshall Frasier, Agricultural and Resource Economics

Andrew Jones, Mechanical Engineering major
   Thesis title: *Fuel Dithering on Stationary Natural Gas Engines and its Effects on Oxygen Storage in Three Way Catalysts*
   Thesis adviser: Daniel Olsen, Mechanical Engineering

Chelsea Jones, Nutrition and Food Science major with Dietetics and Nutrition Management concentration
   Thesis title: *The Potential Benefits of Mindful Eating on Overall Stress Levels and Wellbeing for the Overloaded College Student*
   Thesis adviser: Jeffrey Miller, Food Science and Human Nutrition
Rebekah Kammerer, Biomedical Sciences major
Thesis title: *Interactive Basic Biological Science and HIV Education for Ugandan Students*
Thesis adviser: Jennifer McLean, Microbiology, Immunology and Pathology

Kaleigh Katzer, Biological Science major with Biological Science concentration and Biomedical Sciences minor
Thesis title: *Lipedema and the Potential Role of Estrogen in Abnormal Adipose Tissue Distribution*
Thesis adviser: Michelle Foster, Food Science and Human Nutrition

Erin Kauffman, Soil and Crop Sciences major
Thesis title: *Benefits and Challenges of Rotational Grazing*
Thesis adviser: Joe Brummer, Soil and Crop Sciences

Tanya Kaufman, Art major with Graphic Design and Electronic Art concentrations and English minor
Thesis title: *A Bite of a Illustrative Graphic Novel*
Thesis adviser: John Gravdahl, Art and Art History

Joseph Keaveny, Environmental Engineering major with Ecological Engineering concentration
Thesis title: *Senior Engineering Design: In-Stream Flow Analysis and Diversion Structure Design*
Thesis adviser: Ryan Morrison, Civil and Environmental Engineering

Sheridon Kelly, Chemistry major with ACS Certified concentration and History major with General History concentration
Thesis title: *Choosing War: Why Soldiers and Citizens from the United States, Britain, and France Joined the Second World War*
Thesis adviser: Douglas Sheflin, History

Allyson Kempf, Biological Science major with Biological Science concentration
Thesis title: *A Guide to Teaching Consent and Healthy Relationships in the K-12 Experience*
Thesis adviser: Elizabeth Amoa-Awuah, Women & Gender Advocacy Center

Aleksandra Keyes, Business Administration major with Supply Chain Management concentration and Spanish minor
Thesis title: *Sustainable Packaging and its Effects*
Thesis adviser: Zac Rogers, Management

Conor Kimball, Biological Science major with Biological Science concentration
Thesis title: *An Exploration of Instant Aquaria: Business Plan and Startup Project*
Thesis adviser: Tom Dean, Management

Emily Kopal, Human Development and Family Studies major with Pre-Health Professions concentration
Thesis title: *Sustaining a Vegan and Macro-Friendly Diet*
Thesis adviser: Christopher Gentile, Food Science and Human Nutrition

Anna Kopatich, Human Development and Family Studies major with Pre-Health Professions concentration
Thesis title: *A Review of the Experiences of Females with Autism Spectrum Disorder*
Thesis adviser: Susan Hepburn, Human Development and Family Studies
Rachel Krieger, English major with English Education concentration  
Thesis title: The Reading and Writing Classroom  
Thesis adviser: Ricki Ginsberg, English

Kathryn Krupinsky, Microbiology major  
Thesis title: Mathematical Modeling for the Biologist  
Thesis adviser: Michael Lyons, Microbiology, Immunology and Pathology

Dacre Kurth, Psychology major with Clinical/Counseling concentration and Sociology minor  
Thesis title: The Effect of Mentor Family Attitudes on Mentee Outcomes  
Thesis adviser: Kimberly Henry, Psychology

Rachel Lana, Health and Exercise Science major with Sports Medicine concentration  
Thesis title: Muscles of Music: Using EMG To Increase Understanding of Playing An Instrument  
Thesis adviser: Brian Tracy, Health and Exercise Science

Jaelyn Larson, Art major with Graphic Design concentration and Business Administration minor  
Thesis title: Mobile Application Branding and Prototype  
Thesis adviser: Carl Burghardt, Communication Studies

Madeline Lasewicz, Animal Science major and Agricultural Literacy minor  
Thesis title: Education on Colorado Agricultural Cooperatives  
Thesis adviser: Michael Martin, Agricultural and Resource Economics

Samantha Lauth, Anthropology major with Cultural Anthropology concentration and Human Dimensions of Natural Resources major and International Development minor  
Thesis adviser: David Bunn, Natural Resource Ecology Laboratory

Cayley Lawhead, Natural Resource Management major and Political Science minor  
Thesis title: A Policy Analysis of Disposable Bag Fee Ordinances for the City of Fort Collins to Adopt Based on an Analysis of U.S. Municipalities with Disposable Bag Fee Ordinances  
Thesis adviser: Courtney Schultz, Forest & Rangeland Stewardship

Jerilyn M. Laws, Health and Exercise Science major with Sports Medicine concentration and Nutrition minor  
Thesis title: Validation of iPod Technology to Assess Postural Sway in a Remote Setting  
Thesis adviser: Brian Tracy, Health and Exercise Science

Fisher Layden, Health and Exercise Science major with Sports Medicine concentration  
Thesis title: Effect of Artificial Turf Compliance on Drop Jump Biomechanics  
Thesis adviser: Raoul Reiser, Health and Exercise Science

Samantha Diana Lewis, Dance major and Horticulture minor  
Thesis title: Harnessing Inspiration: An Investigation of How Humans Process and Grapple with Awe by Using it to Manifest Creation  
Thesis adviser: Chung-Fu Chang, School of Music, Theatre and Dance

Monica Lewton, Languages, Literatures, and Cultures major with Spanish concentration, Mathematics major with General Mathematics concentration and Linguistics and Culture minor  
Thesis title: Traducción de: El Clan de Los Gatos por Wenceslao Fernández Flóre  
Thesis adviser: Silvia Soler Gallego, Languages, Literatures and Cultures
Meijia Li, Ecosystem Science and Sustainability major
Thesis title: *Potential of UAS Remote Sensing to Characterize Cover Type Specific Fire Severity*
Thesis adviser: Wade Tinkham, Forest & Rangeland Stewardship

Wenhao Li, Computer Science major and Mathematics minor
Thesis title: *Apply Generative Adversarial Networks on Generating Original Cartoon Characters*
Thesis adviser: Chuck Anderson, Computer Science

Lacy Lichtenhan, Neuroscience major with Behavioral and Cognitive Neuroscience concentration
Thesis title: *Characteristics of Cannabis Intoxication & Use in College Students*
Thesis adviser: Deana Davalos, Psychology

Renee Elizabeth Lile, Ecosystem Science and Sustainability major and History minor
Thesis title: *Colorado Natural Resource Conservation and Outreach: Creating Educational Materials and Models of Engagement for the Colorado Natural Heritage Program to Further Develop and Promote the Conservation of Our State's Natural Resources*
Thesis adviser: John Moore, Ecosystem Science and Sustainability

Simon Lindley, Civil Engineering major
Thesis title: *Senior Design: City of Fort Collins Utility Design*
Thesis adviser: Jeffrey Niemann, Civil and Environmental Engineering

Miah Lingelbach, Biomedical Sciences major and Spanish minor
Thesis title: *Bilingual Pamphlet for Anatomy Camp*
Thesis adviser: Kenny Ivie Jr, Biomedical Sciences

Victoria Loeffler, Equine Science major
Thesis title: *Occupational Therapy in an Equine Environment for People with Autism Spectrum Disorder: A Literature Review*
Thesis adviser: Sharon Butler, Animal Sciences

Taylor Lofgren, Social Work major with Prevention and Intervention Science concentration
Thesis title: *Children and Youth with Autism: A Review of Current Research on Indicators and Interventions for Childcare Professionals*
Thesis adviser: Susan Hepburn, Human Development and Family Studies

Mitchell Stanley London, Biological Science major with Biological Science concentration and Business Administration minor
Thesis title: *At-Home Counterconditioning: Creating Positive Experiences for You and Your Pets*
Thesis adviser: Jennie Willis, Biology

Catherine Lopez, Biomedical Sciences major
Thesis title: *Online Dating Profile Pictures: The Impact of Posing with Cats on Perceived Attractiveness And Masculinity*
Thesis adviser: Lori Kogan, Clinical Sciences

Zachary Lustig, Mechanical Engineering major
Thesis title: *Measuring Fine Particle Emissions using Unmanned Aerial Vehicles*
Thesis adviser: Shantanu Jathar, Mechanical Engineering
Riley Lynch, Watershed Science major and Environmental Affairs minor
Thesis title: River Water Quality Injustice in the Contiguous United States
Thesis adviser: Matthew Ross, Ecosystem Science and Sustainability

Sarah A. Maclean, Biomedical Engineering and Electrical Engineering major
Thesis title: Optical Neurolink for a High Data Rate Brain-Computer Interface
Thesis adviser: Kevin Lear, Electrical and Computer Engineering

Lilia Maeda, Biomedical Sciences major and Microbiology minor
Thesis title: The Role of the H2A Acidic Patch and H4 Tail Interaction in Chromatin Accessibility
Thesis adviser: Jeffrey Hansen, Biochemistry and Molecular Biology

Louisa Markow, Fish, Wildlife and Conservation Biology major with Wildlife Biology concentration and Mathematics minor
Thesis title: Automating Species Recognition in Acoustic Recordings
Thesis adviser: George Wittemyer, Fish, Wildlife and Conservation Biology

Zachary Marquardt, Computer Science major and Computational Mathematics concentration and Mathematics major with Computer Science concentration
Thesis title: Storytelling in Incremental Games
Thesis adviser: Russell Wakefield, Computer Science

Jordan Marsh, Animal Science major and Biomedical Sciences minor
Thesis title: Development of Animal Welfare-Oriented Standards for an "American Wool Assurance" (AWA) program for the American Sheep Industry (ASI) Association
Thesis adviser: Jason Ahola, Animal Sciences

Isabella Martinez, Communications Studies major and Creative Writing minor
Thesis title: Blood is Thicker than Water: Representations and Effects of Sister Relationships in Horror Cinema
Thesis adviser: Scott Diffrient, Communication Studies

Thomas Mayer, Civil Engineering major
Thesis title: ASCE Concrete Canoe
Thesis adviser: Christopher Thornton, Civil and Environmental Engineering

Tatum Mccallum, Art major with Graphic Design concentration
Thesis title: The Brand X Challenge: Experience Design as a Team
Thesis adviser: Jason Frazier, Art and Art History

William McCormick, Biomedical Engineering and Mechanical Engineering major
Thesis title: AlloSource Biomedical Engineering Senior Design Capstone
Thesis adviser: Matt Kipper, Chemical and Biological Engineering

Mercedes McCue, Animal Science major and Agricultural Literacy minor
Thesis title: Focal Points of Quieted Experiences
Thesis adviser: Michael Martin, Agricultural and Resource Economics

Kayla Mccurry, Sociology major with Criminology and Criminal Justice concentration and Political Science major with U.S. Government, Law and Policy concentration and Legal Studies minor
Thesis title: Humans of Fort Collins: Defeating the Single Story of Homelessness
Thesis adviser: Anne Marie Merline, Honors Program
Cassandra McDonald, Equine Science major
Thesis title: *The Effect of Dairy Cow Longevity on Milk's Environmental Footprints and Economic Potential*
Thesis adviser: Jasmine Dillon, Animal Sciences

David McDonald, Neuroscience major with Behavioral and Cognitive Neuroscience concentration
Thesis title: Investigating Patient Reported Satisfaction and its Correlation to Clinical Outcome Within U.S Hospitals
Thesis adviser: James Graham, Biomedical Sciences

Sara McMahan, Civil Engineering major and Global Environmental Sustainability and Sustainable Water interdisciplinary minors
Thesis title: *Redesign of Hickory Street Water Main and Stormwater Inlets*
Thesis adviser: Jeffrey Niemann, Civil and Environmental Engineering

Brenna McWhorter, Art major with Art History concentration and Business Administration and Italian Studies minors
Thesis title: *Piety and Reform: The Visual Transmission of Savonarolan Doctrine by Artists of the Italian Renaissance*
Thesis adviser: Catherine Dicesare, Art and Art History

Amanda Medearis, Human Development and Family Studies major with Pre-Health Professions concentration
Thesis title: *Unwavering Worth: A Lesson for Young Girls*
Thesis adviser: Karen Rattenborg, Human Development and Family Studies

Amanda Merkley, Computer Engineering major with General Mathematics concentration and Mathematics major
Thesis title: *A Deep Learning Model on Smartphones for Automatic Grading*
Thesis adviser: Ryan Kim, Electrical and Computer Engineering

Peter Meyer, Chemical and Biological Engineering major
Thesis title: *Unsaturated Diacids for the Synthesis of Bio-Enhanced Nylon 6,6*
Thesis adviser: Travis Bailey, Chemical and Biological Engineering

Mason Mill, Mechanical Engineering major and History minor
Thesis title: *Spaceport America Cup Rocket Team*
Thesis adviser: Anthony Marchese, Mechanical Engineering

Adrianna Miller, Mathematics major with Mathematics Education concentration
Thesis title: *Combatting Math Anxiety Through Growth Mindset and Metacognition*
Thesis adviser: Kelly Chappell, Mathematics

Aaron Moore, Business Administration with Accounting concentration
Thesis title: *Writing Fiction: Technique & Application*
Thesis adviser: Terrie Sandelin, English

Grace Morrow, Neuroscience major with Behavioral and Cognitive Neuroscience concentration and Biomedical Sciences minor
Thesis title: *Humans and Canids: Clinical Comparative Anatomy of Cranial Nerves of the Eye and Face*
Thesis adviser: Carolyn Meyer, Biomedical Sciences
Vladimir Munoz, Business Administration major with Finance concentration and Economics minor
  Thesis adviser: Frank Smith II, Finance and Real Estate

Melissa Ann Murphy, Business Administration major with Accounting and Finance concentrations
  Thesis title: *Every Word Has Value: An Examination of Natural Language Processing and Social Media's Impact Upon Financial Statements*
  Thesis adviser: Frank Smith II, Finance and Real Estate

Miranda Nabkel, Psychology major with Industrial/Organization Psychology concentration and Business Administration minor
  Thesis title: *The Effects of Paid Parental Leave on Job Satisfaction, Organizational Commitment, and Turnover Intentions in Pregnant, Working Women*
  Thesis adviser: Gwen Fisher, Psychology

Lyndsey Nold, Biomedical Engineering and Mechanical Engineering major
  Thesis title: *Magnetic Tweezers: An Analytical Device for Disease Prevention*
  Thesis adviser: Dave Bark, Mechanical Engineering

Theresa O'Donnell-Sloan, Civil Engineering major and Global Environmental Sustainability and minor
  Thesis title: *Shambhala Mountain Center Energy Master Plan*
  Thesis adviser: Christopher Thornton, Civil and Environmental Engineering

Hannah Olson, Health and Exercise Science major with Sports Medicine concentration and Chemistry minor
  Thesis title: *The Dark Side of Fitspiration: Investigating Social Media and Exercise Addiction*
  Thesis adviser: Brian Butki, Health and Exercise Science

Jennifer Olson, International Studies major with Middle Eastern and North African Studies concentration, Political Science major with Global Politics and Policy concentration and International Development and Arabic Studies minors
  Thesis adviser: Gamze Cavdar, Political Science

Michelle Ondrejka, Civil Engineering major
  Thesis title: *CDOT Structure G-21-A Hydraulic Model and Replacement Design*
  Thesis adviser: Christopher Thornton, Civil and Environmental Engineering

Brianna Osborn, Animal Science major
  Thesis title: *TBD*
  Thesis adviser: Lily Edwards-Callaway, Animal Sciences

Laura Osborn, Biomedical Sciences major
  Thesis title: *Consequences of Blue Light on the Eye: a Review of the Literature*
  Thesis adviser: Ryan Maresh, Biomedical Sciences

Santanna J. Pacheco, Business Administration major with a concentration in Corporate Finance & Investment Analysis
  Thesis title: *Analysis and Performance of Sustainable Investments*
  Thesis adviser: John Elder, Finance and Real Estate
Katie Paradis, Mechanical Engineering major and Technical and Science Communication minor
Thesis title: *Baja SAE Senior Design: An Exploration of Off-Road Suspension Design*
Thesis adviser: John Petro, Mechanical Engineering

Eric Paricio, Music major and Mathematics and Physics minors
Thesis adviser: Pamela Vaughan Knaus, Honors Program

Scott Parmelee, Mechanical Engineering
Thesis title: *Bioaerosol Detection with POPS*
Thesis adviser: Shantanu Jathar, Mechanical Engineering

Sydney Paul, Journalism and Media Communication major and English and Sports Management minors
Thesis title: *The Six Pack Attack*
Thesis adviser: Michael Humphrey, Journalism and Media Communication

Nicholas Penrose, Mechanical Engineering
Thesis title: *FSAE Intake Manifold Design*
Thesis adviser: Chris Weinberger, Mechanical Engineering

Claudia Perez, Communication Studies major and Legal Studies and Ethnic Studies minors
Thesis title: *The Role Communication Plays in Ending the Cycle of Harm: Why Understanding Multiculturalism is Essential to Criminal Justice Reform*
Thesis adviser: Tom Cavanagh, Ethnic Studies

Hannah Peters, Electrical Engineering major with Electrical Engineering concentration
Thesis title: *Ramskellar Brewery Automation and Design*
Thesis adviser: Anthony Maciejewski, Electrical and Computer Engineering

Erin Peterson, Psychology major with Psychology concentration and Philosophy minor
Thesis title: *A Goddamn Bitch of an Unsatisfactory Situation: The Adverse Effect of Poor Queer Representation on Adolescent Mental Health*
Thesis adviser: Sharon Grindle, English

Kelly Peterson, English major with English Education concentration
Thesis title: *Using Graphic Design to Leverage Civic Engagement in a Middle School English Classroom*
Thesis adviser: Ricki Ginsberg, English

Jamie Philp, Microbiology major and Chinese minor
Thesis title: *Using Flow Cytometry and Immunohistochemistry for the Differential Diagnosis of Mycobacterium abscessus and Mycobacterium avium*
Thesis adviser: Mercedes Gonzalez-Juarrero, Microbiology, Immunology and Pathology

Raven Pinto, Political Science major and Legal Studies minor
Thesis title: *Ìya!": Assessing Readiness for Indigenous Food Gardens: Perceptions of Indigenous Food Culture by the Urban Navajo Community*
Thesis adviser: Roe Bubar, Ethnic Studies

Bennett Platt, Mechanical Engineering major and Global Environmental Sustainability and Sustainable Energy minors
Thesis title: *Solar Hydronic Heating System*
Thesis adviser: Bonnie Roberts, Mechanical Engineering
Scott Powers, Chemical and Biological Engineering major and Chemistry minor  
Thesis title: *Fort Collins Food Waste Processing*  
Thesis adviser: John Sheehan, Chemical and Biological Engineering

Alyssa Proulx, Journalism and Media Communication major  
Thesis title: *Media Literacy and Body Image in College-age Women*  
Thesis adviser: Michael Humphrey, Journalism and Media Communication

Anthony Puga, Mechanical Engineering major  
Thesis title: *Trace measurements of Atmospheric Gases*  
Thesis adviser: Azer Yalin, Mechanical Engineering

Analia Quirk, Biomedical Engineering and Chemical and Biological Engineering major  
Thesis title: *Automated Device and Streamlined Process for Efficient Periosteum Removal*  
Thesis adviser: Ashok Prasad, Chemical and Biological Engineering

Brandon Randall, Journalism and Media Communication major and Business Administration minor  
Thesis title: *Social Media Content Portfolio*  
Thesis adviser: Daniela Castillo, Journalism and Media Communication

Sarah Raskin, Natural Resource Tourism major with Natural Resource Tourism concentration and Spanish minor  
Thesis title: *United States' Marketing Plan for Fairbnb*  
Thesis adviser: Alan Bright, Human Dimensions of Natural Resources

Hope Anne Raymond, Soil and Crop Sciences major and Organic Agriculture minor  
Thesis title: *Microbial Communities Associated with Drippy Blight in Colorado and Drippy Nut in California*  
Thesis adviser: Jane Stewart, Bioagricultural Sciences and Pest Management

Megan Reynolds, Neuroscience major with Behavior and Cognitive Neuroscience concentration  
Thesis title: *Exploring Vulnerability in Individuals with Williams Syndrome as a Result of Hyper-Sociability and Impaired Social Functioning*  
Thesis adviser: Lisa Daunhauer, Human Development and Family Studies

Spencer Rhea, Watershed Science major and Political Science major  
Thesis title: *Surface Water Quality Justice in the Contiguous United States*  
Thesis adviser: Matthew Ross, Ecosystem Science and Sustainability

Madeline Richards, Biological Science major with Biological Science concentration  
Thesis title: *Veterinary Staff - Professional Development and Job Satisfaction*  
Thesis adviser: Lori Kogan, Clinical Sciences

Natalie Rios, Chemical and Biological Engineering major  
Thesis title: *An Examination of Naloxone Pharmacokinetics in Humans Through the Use of a Physiologically Based Pharmacokinetic Model*  
Thesis adviser: Brad Reisfeld, Chemical and Biological Engineering
Lauren Rodgers, History major with Social Studies Teaching concentration  
Thesis title: *Research-Based and Engaging Education: An Eighth Grade Social Studies Unit Plan*  
Thesis adviser: Jessica Jackson, History

Addison Rzonca, Psychology major with Clinical/Counseling Psychology concentration  
Thesis title: *Relation Between Traumatic Events and Youth's Self Report of Resilience*  
Thesis adviser: CK Rizzo, Human Development and Family Studies

Daniel Sanchez, Civil Engineering major  
Thesis title: *Group 20: Whitewater Park Design for the City of Danville*  
Thesis adviser: Christopher Thornton, Civil and Environmental Engineering

Jacqueline Sanchez, Interior Architecture and Design major  
Thesis title: *Stay a While: A Study of "Third Place" and Coffeehouses*  
Thesis adviser: Stephanie Clemons, Design and Merchandising

Jordan Sandoval, Biomedical Sciences major and Spanish minor  
Thesis title: *Comparative Anatomy of Bovids and Camelids in Relation to High Altitude Disease*  
Thesis adviser: Christianne Magee, Biomedical Sciences

Alexandra Sands, Natural Resource Tourism major with Natural Resource Tourism concentration and International Development, Spanish and Business Administration minors  
Thesis title: *Social for Pathways: Human Dimensions of Wildlife Conference*  
Thesis adviser: Paul Layden, Human Dimensions of Natural Resources

Morgan Schackmuth, Neuroscience major with Cell and Molecular Neuroscience concentration and Chemistry and Biochemistry minors  
Thesis title: *Stress on the Brain: Exploring the Effects of Chronic Stress in the Frontal Cortices*  
Thesis adviser: Brent Myers, Biomedical Sciences

Margaret Schaub, Biological Science major with Biological Science concentration  
Thesis title: *Improving Patient Education Materials on AntibioticResistance*  
Thesis adviser: Jennifer McLean, Microbiology, Immunology and Pathology

Conrad S. Schelkopf, Animal Science major  
Thesis title: *Comparison of Two Different Colorimeters for Measuring Meat Color*  
Thesis adviser: Mahesh Narayanan Nair, Animal Sciences

Anna Kathleen Schofield, Microbiology major  
Thesis title: *Understanding of Vaccinations in the Day of Anti-Vaccinations*  
Thesis adviser: Tony Schountz, Microbiology, Immunology and Pathology

Claire Schreiber, Environmental Engineering major and Environmental Engineering concentration  
Thesis title: *Danville Whitewater Park: Hydraulic Drop Structure Design*  
Thesis adviser: Ryan Morrison, Civil and Environmental Engineering

Sydney Schwartz, Civil Engineering major with Japanese minor  
Thesis title: *PCI Big Beam Competition*  
Thesis adviser: Christopher Thornton, Civil and Environmental Engineering
**Ian Scott**, Fish, Wildlife and Conservation Biology major with Conservation Biology concentration and Zoology minor
Thesis title: *Investigating a Relationship Between Bee Diversity and Nonnative Plant Species in Camp Guernsey, Wyoming*
Thesis adviser: Mike Amato, CEMML

**Madeline Scott**, Human Development and Family Studies major with Prevention and Intervention Science concentration and Anthropology minor
Thesis title: *Professional Panel on Forensic Interviewing and Helping Abused Children*
Thesis adviser: Aimee Walker, Human Development and Family Studies

**Samantha Jo Scott**, Biological Science major with Biological Science concentration and Biomedical Sciences minor
Thesis title: *The Association Between Coping Strategies and Sleep: How Age May Make This Association Stronger*
Thesis adviser: Gloria Luong, Human Development and Family Studies

**Kyle Shetler**, Art major with Graphic Design and Arts Leadership and Administration minor
Thesis title: *The Methodology, Philosophy, and Systems within Design Thinking*
Thesis adviser: Jason Frazier, Art and Art History

**Amanda Shick**, Chemical and Biological Engineering major and Biomedical Engineering and Mathematics minors
Thesis title: *The Missing Link: ROS Impact on p53*
Thesis adviser: Ashok Prasad, Chemical and Biological Engineering

**Emily Sikora**, Biological Science major with Biological Science concentration and Spanish minor
Thesis title: *Mouth Listening: Exploring the Role of the Oral Cavity in Anuran Hearing*
Thesis adviser: Kim Hoke, Biology

**Haley Simpson**, Business Administration major with Accounting and Finance concentrations and Spanish minor
Thesis title: *The Impact of Standard of Living and Governance on the Extent of Adoption of International Financial Reporting Standards (IFRS) in Group of Twenty (G20) Countries: A Case Study*
Thesis adviser: Lisa Kutcher, Accounting

**Kieran Simske**, Biomedical Engineering and Mechanical Engineering major
Thesis title: *Optical Neurolink Project, Biomedical Engineering Senior Design*
Thesis adviser: Kevin Lear, Electrical and Computer Engineering

**Jessica Sloot**, Psychology major with Mind, Brain and Behavior concentration
Thesis title: *Guide to Creating a Bag Tag for the Mental Game of Golf*
Thesis adviser: Brian Butki, Health and Exercise Science

**Kirstyn Smith-LeCavalier**, Psychology major with Addiction Counseling concentration and Applied Statistics minor
Thesis title: *Item-Level Protective Behavioral Strategies as Mediators of the Relationship Between Marijuana Use Motives and Marijuana-Related Consequences*
Thesis adviser: Mark Prince, Psychology

**Gabriella Raine Smuts**, Zoology major
Thesis title: *Regulation of Anti-Reactive Oxygen Species (Anti-ROS) Proteins in the Moulting Gland (Y-organ) of the Blackback Land Crab, Gecarcinus lateralis*
Thesis adviser: Donald Mykles, Honors Program
Natalie Spencer, Environmental Health major and Food Science/Safety minor
Thesis adviser: Judy Heiderscheidt, Environmental and Radiological Health Sciences

Logan Stephenson, Statistics major with General Statistics concentration
Thesis title: Studying Snow Cover in California's Eastern Sierra
Thesis adviser: Julia Sharp, Statistics

Anna Marie Stewart, English major with Writing, Rhetoric and Literacy concentration
Thesis title: Copy Editing and Writing for Your Audience in News, Creative, and Technical Writing
Thesis adviser: Lisa Langstraat, English

Daniel Stone, Chemical and Biological Engineering major
Thesis title: BioPharma Team 1: Flu Vaccine Production in Plants
Thesis adviser: Christie Peebles, Chemical and Biological Engineering

Korissa Straub, Ecosystem Science and Sustainability major and Watershed Science minor
Thesis title: Spatiotemporal Nitrite, Nitrate, Ammonia and Sulfate Deposition Trends in Colorado Wastewater Effluent
Thesis adviser: Matthew Ross, Ecosystem Science and Sustainability

Jack Studer, Biological Science major with Biological Science concentration and Conservation Biology minor
Thesis title: Analysis of Genetic Diversity Among Cannabis Sativa Accessions Through Allele by Phenotype Association
Thesis adviser: John McKay, Bioagricultural Sciences and Pest Management

Merci Sugai, Human Development and Family Studies major and Prevention and Intervention Science concentration
Thesis title: Colorado State University Campus Tours: Comparing National Data and Other Research I Universities
Thesis adviser: Pamela Graglia, School of Education

Jonathon Sundeen, Business Administration major and Finance concentration and Entrepreneurship certificate
Thesis title: An Analysis of the Effect that Incidents Involving Sports Can Have on Stock Prices
Thesis adviser: D Todd Donavan, Marketing

Stephanie Talone, Political Science major and Legal Studies minor
Thesis title: The Importance of GIS in Managing Natural Disasters in the United States
Thesis adviser: Melinda Laituri, Ecosystem Science and Sustainability

Katelyn Tapia, Biological Science major with Biological Science concentration and Biomedical Sciences and Chemistry minors
Thesis title: A Comparative Study of the Reproductive Anatomy and Physiology Between Marsupial Mammals and Placental Mammals
Thesis adviser: Gerrit Bouma, Biomedical Sciences

Jenna Taylor, Health and Exercise Science major with Sports Medicine concentration and Biomedical Sciences minor
Thesis title: Skeletal Muscle Fatigue: Central and Peripheral Mechanisms with Clinical Application
Thesis adviser: Jennifer Richards, Health and Exercise Science
Madison N.Y. Taylor, Economics major, Political Science major with Global Politics and Policy Concentration, and Journalism and Media Communications major
   Thesis title: Shirked Responsibility to Protect: Are There Explanations for International Indifference?
   Thesis adviser: Allison White, Political Science

Wesley Taylor, Computer Engineering major
   Thesis title: The Cost of Thinking: Evaluating the Usage of the Computation to Enhance Hybrid-electric Vehicle Efficiency
   Thesis adviser: Sudeep Pasricha, Electrical and Computer Engineering

Reilly Terranova, Philosophy major with General Philosophy concentration
   Thesis title: Can the Sceptic Live a Good Life?
   Thesis adviser: Jeff Kasser, Philosophy

Ryan Thamert, Engineering Science major with Space Engineering concentration and Mechanical Engineering major and Mathematics minor
   Thesis title: Drone Based Remote Livestock Monitoring
   Thesis adviser: Wade Troxell, Mechanical Engineering

Zachary Van Handel, Computer Science major with Computer Science concentration
   Thesis title: Beerchain: Tracking Beer Supply Chain with Blockchain
   Thesis adviser: Joe Gersch, Computer Science

Matteo Vera, Computer Science major with Computer Science concentration and Mathematics minor
   Thesis title: Beerchain: Tracking Beer Supply Chain with Blockchain
   Thesis adviser: Joe Gersch, Computer Science

Leah Vick, Microbiology major
   Thesis title: Then and Now: The Events of the Black Death and a Projection for the Next Pandemic
   Thesis adviser: Jennifer McLean, Microbiology, Immunology and Pathology

Casandra Vigil, Biological Science major with Biological Science concentration
   Thesis title: Feasibility of Increasing Participation in Low-Income, Marginalized, and Underserved Populations in Genetic Studies
   Thesis adviser: Dan Sloan, Biology

Kayla Visscher, Business Administration major with Accounting concentration
   Thesis title: How to Legally Escape Taxes without Dying: Loopholes in the U.S. Tax System
   Thesis adviser: James Stekelberg, Accounting

Kyle Vorreiter, Mechanical Engineering major and Engineering Science major with Space Engineering concentration
   Thesis title: NASA Mining Robot
   Thesis adviser: Jianguo Zhao, Mechanical Engineering

Helena Voss, Psychology major with Mind, Brain and Behavior concentration
   Thesis title: Colorado Ski Resort Travel Blog
   Thesis adviser: Elizabeth Parks, Communication Studies

Dylan Wagner, Health and Exercise Science major with Sports Medicine concentration
   Thesis title: Comparing the Vascular and Performances Changes Between Grip Training Below vs Above Heart Level
   Thesis adviser: Jennifer Richards, Health and Exercise Science
Daria Walsh, Ecosystem Science and Sustainability major
Thesis title: *Analysis of Hochstetter's Frog Population with Relationship to Landscape Characteristics*
Thesis adviser: Steve Leisz, Anthropology and Geography

Alyssa Watts, Computer Science major with Computer Science concentration and Mathematics minor
Thesis title: *Ransomware: The Modern Bank Heist*
Thesis adviser: Joe Gersch, Computer Science

Valerie Taylor Weed, Chemistry major with ACS Certified concentration
Thesis title: *Teacher Identity- A Look Into What Motivates STEM Teachers to Teach and Their Perceptions of Recruiting Future Teachers*
Thesis adviser: Meena Balgopal, Biology

Elizabeth Weeks, Mathematics major with General Mathematics concentration and Japanese minor
Thesis adviser: Patrick Shipman, Mathematics

Shijin Wei, Ecosystem Science and Sustainability major
Thesis title: *Effects of Tropical Rainforest Drought on Plant Root Growth and Soil Carbon Storage*
Thesis adviser: Rich Conant, Ecosystem Science and Sustainability

Samantha M. White, Mechanical Engineering major
Thesis title: *EcoCAR Mobility Challenge - Hybrid Electric Vehicle Controller Development*
Thesis adviser: Jason Quinn, Mechanical Engineering

Tara Wickstrom, Interior Architecture and Design major
Thesis adviser: Leah Scolere, Design and Merchandising

Thomas Wilkinson, Electrical Engineering major with Electrical Engineering concentration and Mathematics minor
Thesis title: *Antenna Test Range in the Colorado State University Electromagnetics Laboratory*
Thesis adviser: Branislav Notaros, Electrical and Computer Engineering

Claire Wilson, Biomedical Sciences major and Leadership Studies minor
Thesis title: *Bridging The Gap: Dismantling Racial Health Disparities in Maternal and Infant Mortality*
Thesis adviser: Mark Brown, Clinical Sciences

Mikayla Woods, Business Administration major with Organization and Innovation Management and Marketing concentrations, and Market Research and Data Analytics and Leadership in Organizations certificates
Thesis title: *Mentoring and Professional Development: What Works*
Thesis adviser: Troy Mumford, Management
Delaney Worthington, Biological Science major with Biological Science concentration and Chemistry and Spanish minors
  Thesis adviser: Andrew Warnock, Education & Outreach Center

Wenrun Wu, Biochemistry major with General Biochemistry concentration
  Thesis title: *Characterization of the Transcription Termination Factor Responsible for Polarity in Archaea*
  Thesis adviser: Tom Santangelo, Biochemistry and Molecular Biology

Kan Xu, Ecosystem Science and Sustainability major
  Thesis title: *Optimizing the Computational Methods for Determining Appropriate Snow Melt Rates*
  Thesis adviser: Steven Fassnacht, Ecosystem Science and Sustainability

Abel Ykalo, Computer Science major with Computer Science concentration
  Thesis title: *Diversity in Engineering Education: It is Not a Pipeline Problem*
  Thesis adviser: Pamela Vaughan Knaus, Honors Program

Zoe Zakrzewski, Business Administration with Organization and Innovation Management and Marketing concentrations
  Thesis title: *Creating Sustainable Fashion in a Throw-away Culture*
  Thesis adviser: Susan Golicic, Management

Hu Zhang, Economics major and Business Administration major with Finance concentration
  Thesis title: *Are People Living in Tourist Cities Happier?*
  Thesis adviser: Martin Shields, Economics

Xinyi Zhang, Business Administration major with Finance concentration
  Thesis adviser: Ellen Burnes, Finance and Real Estate

Yunan Zhu, Ecosystem Science and Sustainability major and Economics major and Business Administration and Mathematics minor
  Thesis title: *Retrieval of Important Parameter of Evapotranspiration in Colorado Grassland Using the Operational Simplified Surface Energy Balance Algorithm*
  Thesis adviser: Wei Gao, Ecosystem Science and Sustainability

Grant Zimmerman, Biochemistry major with Health and Medical Sciences concentration
  Thesis title: *A Comparison of the 188 bp and 207 bp Variant Linker DNA Lengths in Chromatin Consensates*
  Thesis adviser: Jeffrey Hansen, Biochemistry and Molecular Biology

Hope Lynne Zupfer, Biomedical Sciences major and Microbiology minor
  Thesis title: *Probiotic Bacteria in Fermented Foods: Improving Treatment for Gastrointestinal Disease*
  Thesis adviser: Tiffany Weir, Food Science and Human Nutrition