COLLEGE OF SCIENCE
COLLEGE OF MINES AND EARTH SCIENCES
CONVOCATION

THE UNIVERSITY OF UTAH
COMMENCEMENT 2023
Candidates for degrees whose names appear in this program were applicants for graduation as of March 4, 2023.
Dear Class of 2023,

What a journey! The pandemic has made a long-lasting impact on each of us, and I know that we have all emerged with greater strength, compassion, and understanding of ourselves and of each other.

Earning a degree in science and mathematics is a monumental achievement. Your technical and quantitative backgrounds have prepared you to step into exciting, rewarding careers that will continue to foster your curiosity, creativity, and innovative spirit. Few of you will travel on a straight line, and your paths will unfold in ways that cannot be foretold, taking you to places only you – and you alone – can imagine. Many valuable discoveries await you.

Remember that you are, and will continue to be, part of the College of Science family. We want to hear about your successes, your new discoveries, your opportunities. As our world changes, I have no doubt you will find your place to make an impact.

Congratulations. You have my very best wishes for your future success.

Peter E. Trapa, Ph.D.
Dean, College of Science

College of Mines and Earth Sciences

Dear Graduates of the College of Mines and Earth Sciences,

I am honored to extend my congratulations to each of you. Your hard work, dedication, and perseverance have paid off, and you have earned a degree that will take you far in life. The faculty, staff, and alumni who came before you recognize the immense challenges you have overcome to be here today, and I am proud of all that you have achieved.

Your time in the College of Mines and Earth Sciences has equipped you with a broad and deep understanding of our planet and its systems, and the skills to apply this knowledge to real-world challenges. Your years here have also born witness to incredible levels of change and adaptation. By weathering these storms, you have proven your resilience and dedication, which will serve you well as you take on your next challenges. Whether you go on to pursue careers in academia, government, industry, or beyond, I am confident that you will make important contributions to your field and to society. Your passion for science, your curiosity, and your commitment to excellence will serve you well in all that you do.

As you go forth from this momentous occasion, I encourage you to keep in touch with your classmates, your professors, and the alumni network at the University of Utah. Congratulations once again on this tremendous accomplishment, and best wishes for a bright and fulfilling future.

Sincerely,

Darryl P. Butt, Ph.D.
Dean, College of Mines and Earth Sciences
Awards and Special Recognitions

Kendra Autumn, Graduate Student
School of Biological Sciences
University Teaching Assistantship
University of Utah Graduate School

Vahe Bandarian, Professor
Department of Chemistry
Fellow
American Association for the Advancement of Science

Yexalen Barrera-Casas, Student
Department of Chemistry
Research Scholar Award, Outstanding Undergraduate Research Award
College of Science and Office of Undergraduate Research

Ramón Barthelemy, Assistant Professor
Department of Physics & Astronomy
Fellow
American Physical Society

Christoph Boehme, Professor
Department of Physics & Astronomy
Fellow
American Physical Society

Gabriel Bowen, Professor
Department of Geology and Geophysics
Excellence in Research
College of Science

Cynthia J. Burrows, Distinguished Professor
Department of Chemistry
Founder’s Award
American Chemical Society

Sophie Caron, Associate Professor
School of Biological Sciences
Excellence in Teaching and Mentoring
College of Science

Thure Cerling, Distinguished Professor
Department of Geology & Geophysics and School of Biological Sciences
Rosenblatt Prize for Excellence
University of Utah

Kevin Davenport, Assistant Professor, Lecturer
Department of Physics & Astronomy
Distinguished Educator Award
College of Science

Claudia De Grandi, Associate Professor, Lecturer
Department of Physics & Astronomy
Early Career Teaching Award
University of Utah
Maria Garcia, Research Associate
Department of Atmospheric Sciences
Excellence in Safety
College of Science

Kenneth Golden, Distinguished Professor
Department of Mathematics
Calvin S. and JeNeal N. Hatch Prize in Teaching
University of Utah

Gannet Hallar, Professor
Department of Atmospheric Sciences
Undergraduate Research Mentor Award
Office of Undergraduate Research

Sean Howe, Assistant Professor
Department of Mathematics
Early Career Teaching Award
University of Utah

Jiyeon Hyun, Graduate Student
School of Biological Sciences
Curci Fellow Scholar
Curci Foundation

Erik Jorgensen, Distinguished Professor
School of Biological Sciences
Member
National Academy of Sciences

Selvi Kara, Postdoctoral Scholar, SRI Fellow
Department of Mathematics
Distinguished Service
College of Science

Sahana Kargi
Student Convocation Speaker

Kyle Kittelberger, Graduate Student
School of Biological Sciences
Graduate Research Fellowship
University of Utah Graduate School

Dylan Klure, Graduate Student
School of Biological Sciences
Outstanding Graduate Student
College of Science

Jan Miller, Distinguished Professor
Department of Material Science & Metallurgical Engineering
Fellow
The Minerals, Metals and Materials Society

Shelley D. Minteer, Distinguished Professor
Department of Chemistry
Fellow
Royal Society of Chemistry
Valeria Molinero, Distinguished Professor
Department of Chemistry
Member
National Academy of Sciences

Michael D. Morse, Distinguished Professor
Department of Chemistry
Appointed to rank of Distinguished Professor
University of Utah

Nalini Nadkarni, Professor Emeritus
School of Biological Sciences
Enduring Achievement Award
Advancing Research Impact in Society

Tino Nyawelo, Associate Professor, Lecturer
Department of Physics & Astronomy
Spirit of Abdus Salam Award
International Centre for Theoretical Physics

Baldomero Olivera, Distinguished Professor
School of Biological Sciences
Golden Goose Award
American Academy for the Advancement of Science

John Otero, Graduate Student
Department of Material Science & Metallurgical Engineering
Outstanding Teaching Assistant
College of Mines and Earth Sciences

Ofer Rog, Assistant Professor
School of Biological Sciences
Outstanding Undergraduate Research Mentor
University of Utah

Pratt Rogers, Assistant Professor
Department of Mining Engineering
Outstanding Teaching Faculty
College of Mines and Earth Sciences

Jennifer Shumaker-Parry, Professor
Department of Chemistry
Fellow
American Association for the Advancement of Science

Anurag Singh, Professor
Department of Mathematics
Fellow
American Mathematical Society

Kip Solomon, Professor
Department of Geology & Geophysics
Distinguished Research Award
University of Utah

Karrah Spendlove
Student Convocation Speaker
Effie Symeonidi, Postdoctoral Scholar
School of Biological Sciences
Outstanding Postdoctoral Researcher
College of Science

Alison Wang, Student
Department of Chemistry
Research Scholar Award, Outstanding Undergraduate Research Award
College of Science and Office of Undergraduate Research

Luisa Whittaker-Brooks, Associate Professor
Department of Chemistry
Presidential Scholar
University of Utah

Lingyao Xie, Graduate Student
Department of Mathematics
Graduate Research Fellowship
University of Utah Graduate School

Karen Zundel
School of Biological Sciences
Staff Excellence
College of Science

Doctorate of Philosophy Degrees

DEPARTMENT OF ATMOSPHERIC SCIENCES

Husile Bai
Teleconnection mechanisms associated with ecologically relevant climate dipoles

Kelsey Barber
Precipitation Phase Partitioning and the Lifetime of Clouds in the Southern Ocean

Rebecca Lynn Beal
Evaluation of Near-Surface and Boundary Layer Meteorological Conditions of Fog Formation with CFACT Observations

Jacob Boomsma
Using Numerical Models to Characterize Wintertime Cold Air Pool Events across the Western United States from 2000-2022

Gerardo Carrillo-Cardenas
Elucidating New Particle Formation in Complex Terrian

Thomas Dean Dewitt
The Vast Range of Cloud Sizes

Thorn Merrill
A New Method for Assessing the Effects of Soil Moisture on Dust Emission from Playas and Other Non-Vegetated Surfaces: PI-SWERL Evidence from Great Salt Lake Playa

James Terry Powell
Analysis And Forecast Skill Of Southern Utah Precipitation Events That Led To Flash Flood Events

Elizabeth Sterner
A Case Study on the Influence of Airmass History on Cloud Droplet Number (Nd) in Southern Ocean Clouds
Michael Wasserstein
*Characteristics of cool-season orographic precipitation extremes in northern Utah’s central Wasatch mountains*" 

**DEPARTMENT OF CHEMISTRY**

Amanda Bubas
*The unexpected chemistry of the early actinides studied by guided ion beam tandem mass spectrometry*

Eamonn Clarke
*Analytical methods in the development of immunometric diagnostics*

Hanna Clements
*Computational Chemistry and Data Science Tools for Predictive, Mechanistic Models of Biochemical Systems*

Andrew Jochimsen
*Studies of the Activation of Radical SAM Enzymes*

Roland Jones
*Formation of Five Versus Six-Membered Rings in Peptide Sequencing as Studied Using Mass Spectrometry*

Lorraine Linares Laguerre
*Analysis of variables that influence success in introductory chemistry courses: Relationship between affective variables and study habits with course performance*

Sahsa Moonitz
*Spectroscopic Investigations of the Influence of Interfacial Environments on the Dynamics of Biological Macromolecules*

Amy Morren
*Vibrational Circular Dichroism for Investigation of Chiral Plasmonic Mode Coupling with Molecular Vibrational Transitions*

Adam Pancoast
*Design and Application of 2,2′-Bipyrimidines for Non-Aqueous Redox Flow Batteries*

Ellyn (Ellie) Peters
*Data-Guided Design and Interrogation of Ligands for Transition Metal Catalysis*

Brandon Stevenson
*Investigations of the Gas-Phase Thermochemistry of Small Molecules using Guided Ion Beam Tandem Mass Spectrometry, Action Spectroscopy, and Ion Mobility Spectrometry*

Samantha K. Walker
*Thermodynamic and Structural Characterization of the Decomposition of Small Peptides in the Gas Phase Using Guided Ion Beam Tandem Mass Spectrometry*

Nipunika Samali Weliwatte
*Redox Polymers as a Versatile Approach to Modulate Bioelectrocatalytic Performance*

Fan Yang
*Thermochemistry and Structure Investigations of hydrated metal complexes: A fundamental study for the Rise of Environmental Issues*

Asylbek (AJ) Zhanserkeev
*On friendly interactions between electronic structure and molecular motion*

**DEPARTMENT OF GEOLOGY & GEOPHYSICS**

Hannah Finley
*Groundwater Nutrient Fluxes and Hydrological Dynamics in the Farmington Bay Wetlands.*
Riley Finnegan
Vibration Damage of Rock Landforms: Evaluating the Resonance Response of Sandstone Arches and Towers to Anthropogenic and Natural Energy Inputs

Ivan Gaichuk
Groundwater Nutrient Fluxes and Hydrological Dynamics in the Farmington Bay Wetlands

Mikelia Heberer
Hydrodynamics of ammonoid ontogeny

Eric Humphrey
Groundwater Age and Flux Using Natural and Artificial Tracers in the Nebraska Sand Hills and Great Basin National Park

Sean Hutchings
Simulation of Strong Ground Motion Data from the 18 March 2020 Mw 5.7 Magna, Utah, Earthquake to Evaluate the Wasatch Front Community Velocity Model (WFCVM)

Santiago Jurado
Superposition of Colloid-Surface Repulsion and Incomplete Pore Scale Mixing Explains Emergence of Fast-and Slow-Attaching Subpopulations From Identical Individuals, and Depletion of Fast-Attachers with Increasing Transport Distance Under Unfavorable Conditions

Ashley Morris
Characterization of continental breakup related dacite and a technical review of XRF-cs utility in IODP Expedition research

Raul Ochoa
Mudstone Heterogeneity - a Multi-scale Sedimentological and Sequence Stratigraphic Study: From Basin to Pore-scale

Daniel Wells
Examining Shallow Crustal Structure in the Intermountain West using Portable Seismic Arrays

DEPARTMENT OF MATERIALS SCIENCE AND METALLURGICAL ENGINEERING

Jarom Chamberlain
Methods for Reprocessing U02 Into Uranium Metal or Uranium Chloride

Bryce Ricks Jolley
The Correlative Analysis of Porosity in Additively Manufactured Metals Via X-Ray Computed Tomography and Mechanical Polish Serial Sectioning

Freddy Sime
Structural Features and Surface Chemistry Considerations in the Flotation of Carbonaceous Materials from Sulfide Ores

Chenguang Yang
Investigation of Energy Storage Capacities in Various Forms of Aligned Silicon Electrodes for Li-Ion Batteries

DEPARTMENT OF MATHEMATICS

Alexander Beams
Dynamics, Inference, and Simulation Studies in Epidemiology: Relating Transmission and Aetiology to Treatment for Infectious Organisms of Note

Elias D. Clark
Pharmacokinetic and Pharmacodynamic Effects of Medication Nonadherence

Trent DeGiovanni
Thermal cloaking, mimicking, and inversion
Sean Anthony Groathouse  
*Infinite Length Random Polymers*

Rebecca Hardenbrook  
*Mathematical modeling of polar sea ice processes*

Seungsu Lee  
*On singularities in positive and mixed characteristics*

Jacob B. Madrid  
*On the Limitations of Mean Field Approximations: Extreme First Passage Times and Stochastic Extinction*

Kees McGahan  
*Mathematical Models of Ion Channel Kinetics and Sensory Neuron Dynamics*

Vaibhav Pandey  
*Dependence of local cohomological dimension on characteristic, and consequences*

Claire Plunkett  
*Boundary Homogenization of Surfaces with Small Reactive Patches*

Ryan Schumm  
*Analytical and Monte Carlo methods for stochastic search processes with partially reactive domains*

Jose Ignacio Yanez Etcheberry  
*Application of Coxeter groups to the Kawamata-Morrison conjecture*

Qixian Zhao  
*Kazhdan-Lusztig algorithm for Whittaker modules with arbitrary infinitesimal characters*

**DEPARTMENT OF MINING ENGINEERING**

Elaheh Talebi Esfandarani  
*Novel Studies to Manage Fatigue of Haul Truck Operators*

Ishaan Kapoor  
*Can Blockchain Ledgers Improve Mineral Traceability Frameworks? An Exploratory Case Study of Evolving Technology and Roles of Mineral Provenance*

Lewis Oduro  
*Development of a Data Analytics and Machine Learning Tool for the Mining Industry*

Amy Richins  
*Workplace Culture and Health and Safety Management Systems - Assessing their Effects and Interactions in the U.S. Mining Industry*

Narmandakh Sarantsatsral  
*Evaluating Multiple Scenarios to Maximize the Value of Erdenet Copper Porphyry Surface Mine*

**DEPARTMENT OF PHYSICS & ASTRONOMY**

Tushar Bhowmick  
*Pressure Effect on Fermi Surface of Lithium and Electronic and Structural Characterization of Superconducting and Magnetic Material*

Jaspal Singh Bola  
*Study of Magnonic Properties of Metal-Organic Based Ferrimagnet and Photophysical Properties of Polyacetylene*

Dipak Khanal  
*Optical and magneto-optical studies of hybrid organic-inorganic 2D perovskite for optoelectronic applications*
Chuankun Liu  
Strain tunable magneto-transport study of graphene/hexagonal boron nitride heterostructures

Taniya Tennahewa  
Demonstration and Applications of Coherently Controlled Charge Carrier Sin States on Currents in ll-Conjugated Polymer Thin-Films at Low Magnetic Fields and Room Temperature Conditions

Fengwei Yang  
Novel Probes of New Physics Beyond Particle Standard Model

SCHOOL OF BIOLOGICAL SCIENCES

Alexander Cummins  
Dalekin is a mobile signal that confers abiotic stress resistance in Arabidopsis thaliana

Kyle Davis  
Population ecology of ectoparasites on urban and montane birds

Spencer Gordon  
Bringing Chromosomes Together: Exploring the Material Nature of the Synaptonemal Complex

Meiyuan Ji  
Genetic mechanisms underlying maize resistance to the two-spotted spider mite and mite adaptation to pesticides

Karen Kierstead  
Sodalis praecaptivus and nitrogen use: a species study from the Endobacterial genus Sodalis is a window into bacteria-ant endosymbiotic relationships

Dylan Klure  
Ecological, Microbiological, and Genetic Factors Underlying Dietary Toxin Tolerance in Herbivorous Mammals (Neotoma spp.)

Brian Mueller  
Molecular Architecture of the Neuronal Presynapse

Marlen Rice  
Ecological stressors to fish development

Madison Schrock  
Characterization of mRNA translation efficiency in Salmonella

Elaine Tan  
Colony founding biology in a genus of temperate social parasite ants with a focus on the western thatching ant Formica obscuripes

Keaton Tremble  
Identifying the drivers of fungal divergence and adaptation, from Boletus edulis to the Boletaceae.

Jessica Vincent-Mueller  
Cytoplasmic RNA decay and post-transcriptional regulation of gene expression in Arabidopsis thaliana

Julia Yang  
Photosynthetic response to environmental conditions in forests across spatiotemporal scales
STUDENT PROGRAMS

ACCESS Scholars
Rebecca Bassett
Shaistah Din
Tiffany Do
Mary Fairbanks
Sahar Kanishka
Sahana Kargi
Grace Siu
Lia Smith
Alexandra Strich
Elle Tanner

College of Science Ambassadors
Evan Carlson
Shaistah Din
Sahar Kanishka
Sahana Kargi
Chloe Kraft
Sydney Larsen
Shaya Moosavi
Vivek Vankyalapati

Science Research Initiative
Alison Bouck
Anila Jonnavithula
Thien Lam Nguyen
Seungwon Shin
Grace Siu
Isabelle Smith
Javiera Tracy
Claudia Wiese
Bailey Young

Learning Assistants
Mohammad Al-Rayess
Rebecca Bassett
Jasper Bradford
Rachel Carder
Madelin Duft
Palepoi Gilmore
Kallie Hoffman
Tanner Hoole
Cheongheon Lee
Hannah Lee
Nurlatifa Zahra Mohd Fuad
Angela Parker
Jessica Payton
Benjamin Preece
Samantha Roberts
Vian Rosal
Sophie Stephens
Elle Tanner
Marc Whiting
College of Science

Candidates for the Degree of Doctor of Philosophy
Alexander, Amanda Michelle, Mathematics
Almanzar, David Etienne, Biology
Ashok, Aishwarya, Physics
Barnett, Adam, Chemistry
Beams, Alexander Brown, Mathematics
Chabal, Kathryn Janice, Chemistry
Chabon-Taylor, Donald Tiago, Mathematics
Chu-Jon, Carlos A, Chemistry
Clarke, Eamonn Thomas, Chemistry
Clements, Hanna Danielle, Chemistry
Cummings, Dale Alan, Chemistry
Degiovanni, Trent, Mathematics
Digal, Lori Dumagan, Chemistry
Dumont Neira, Antoine Andre, Physics
Edwards, Joshua David, Chemistry
Eichberg, Rebekah, Mathematics
Flannery, Laura Joanne, Chemistry
Forrist, Dale Loren, Biology
Gordon, Spencer Gersh, Biology
Green, Austin, Biology
Grohouse, Sean Anthony, Mathematics
Hansen, Kameron Rex, Chemistry
Hardenbrook, Rebecca Lyn, Mathematics
Hill, Hunter James, Biology
Jochimsen, Andrew Scott, Chemistry
Jones, Roland Manning, Chemistry
Kaff, Arjun, Chemistry
Kerr, Kelly L, Biology
Keyes, Edgar Dalles, Chemistry
Khanal, Dipak Raj, Physics
Kirkeby, Emily K, Chemistry
Li, Guangjing, Chemistry
Linares Laguerre, Lorraine, Chemistry
Liu, Chuankun, Physics
Liu, Shuwan, Physics
Madrid, Jacob Brett, Mathematics
Mathewson, Nicole Jaclyn, Chemistry
May, Jason Michael, Physics
Mcgahan, Kees A, Mathematics
Myres, Grant Julian, Chemistry
Nguyen, Luong Bao Ngoc, Chemistry
Nguyen, Thuong, Mathematics
Noble, Katherine, Biology
Pandey, Vaibhav, Mathematics
Plunkett, Claire Elizabeth, Mathematics
Powell, Daniel Richard, Chemistry
Probst, Rodolfo da Silva, Biology
Ramirez, David Alejandro, Chemistry
Rhodes, Zayn Kevin, Chemistry
Rojas Bolivar, Randall Alfonso, Physics
Rossland, Steven Patrick, Physics
Schumm, Ryan Daniel, Mathematics
Smith, Sleight Robert, Chemistry
Stapleton, Tess Elizabeth, Biology
Su, Yinghua, Biology
Tennahewa, Taniya Hansika, Physics
Terry, Rebecca Sue, Mathematics
Wang, Qiaoyi, Chemistry
Wang, Ren-Bo, Physics
Weliwatte, Nipunika Samali Perera, Chemistry
Yanezetcheberry, Joseignacio, Mathematics
Yao, Yue, Physics
Zenes, Nicole Kathryn, Biology
Zhu, Judy, Chemistry

Candidates for the Degree of Master of Science
Allred, Mark Joel, Mathematics
Baldwin, Corbin William, Mathematics
Bares, Jacob Oliver, Biology
Bola, Jaspal Singh, Physics
Brodzeller, Allyson Fay, Physics
Chaudhry, Tayyaba Kausar, Mathematics
Engle, Shea Wesley, Mathematics
Firpo, James J, Mathematics
Gibson, Benjamin J, Physics
Gosney, Chelsea Joreen Frew, Biology
Gross, Sarah Ellen, Biology
Harich, Chrystina Marie, Mathematics Teaching
Janusz, Jordyn Nevada, Chemistry
King, Austin James, Physics
Ma, Rui, Mathematics
Nistler, Maggie Ann, Chemistry
Praggastis, Zoe Athanassiu, Biology
Rockow, Sara Lynn, Chemistry
Townsend, Lacie Mikayla, Chemistry
Wang, Chong, Mathematics
Yeager, Sage Alexander, Mathematics

Candidates for the Degree of Master of Science and Technology
Brunstetter, Duncan Matthew, Biotechnology
Erekson, Nathan J, Science Instrumentation
Fernandez, Florence De Guzman, Biotechnology
Frost, Andrew Spencer, Computational and Data Science
Goodman, Jordan, Biotechnology
Hurst, Alexandra Rae, Computational and Data Science
Lee, Nickolas Robert, Computational and Data Science
Malyn, Daniel, Biotechnology
Pasko, Christopher Paul, Biotechnology
Peabody, Ryley Jared Joseph, Biotechnology
Ramgire, Rohit, Computational and Data Science
Wiltsie, Ashley Raelynn, Biotechnology

Candidates for the Degree of Master of Statistics
Grohouse, Sean Anthony, Mathematics
Purdie, Austin, Mathematics
Candidates for the Degree of Honors Bachelor of Arts

Luong, Katie Ann, Biology
Young, Bailey Mckenna***, Biology

Candidates for the Degree of Honors Bachelor of Science

Al-Rayess, Mohammad Yaser*, Biology
Andersen, Kara Josephine, Biology
Austin, Maxwell Jack, Chemistry
Barrera, Yexalen, Chemistry
Batchu, Puja***, Biology
Billings, Alex, Biology
Caldwell, Robert Williams, Applied Mathematics
Casselman, Lillee K, Chemistry
Dhiman, Gareema, Biology
Ding, Victoria L, Chemistry
Do, Tiffany Huynh, Biology
Done, Vilhelmina, Biochemistry
Garzella, Erin Janet, Biology
Geisler, Emil S***, Mathematics
Guynn, Isaac Pierce Amel**, Biochemistry
Haerter, Natalie L’heureux, Biology
Halberg, Charles Harry, Mathematics
Hall, Karah Madison, Biology
Hansen, Mason, Chemistry
Hanson, Indiana Troy, Biology
Hoole, Tanner David*, Physics
Kargi, Sahana V, Applied Mathematics
Larson, Brooke***, Biology
Lawrence, Derek John, Biology
Loyola, Nicolas Mulbere, Biology
Lozada, Benvin Fan*, Mathematics
Marr, Jacob Rodolfo, Biology

Candidates for the Degree of Bachelor of Arts

Bares, Jacob Oliver, Biology
Bourgeault, Angeline R, Biology
Brauer, Markus**, Biology
Burton, Collin L, Biology
Christensen, Thomas Robert, Biology
Dezarn, Noah Robert, Biology
Drossel, Andrew P, Mathematics
Goodwin, Jeffrey Dale, Biology
Gray, Yvanna Marie, Biology
Haddadin, Helena Yasmin, Biology
Hanson, Indiana Troy, Biology
Hoole, Tanner David*, Physics
Joseph, Anne, Biology
Khalaji, Sophia Sheida, Biology
Krauel, Steven Peter*, Chemistry
Mackay, Jacob Powell, Biology
Odd, Stephen Isaac, Biology
Odoms, Jacob C, Physics
Petersen, Andrew Ian, Chemistry
Taylor, Jaclyn Marie, Biology

Candidates for the Degree of Bachelor of Science

Aamodt, Samuel E, Biology
Abunuwara, Teric Hampton, Biology
Addi, Faduma A., Biology
Adler, Jamie Brooke, Biology
Alicea Jorgensen, Taylor Nicole, Biochemistry
Alljassimi, Raghad, Biology
Alfred, Annie Elizabeth, Mathematics
Altherr, Alexander Joseph, Biology
Anderson, Alexander K, Biology
Anderson, Elijah Thomas, Applied Mathematics
Annigeri, Pooja Gururisiddappa, Biology
Arbab, Asfandyar, Applied Mathematics
Ashtijou, Yunus Mohammad, Biology
Atwal, Amarnpreet Kaur, Biology
Austin, Richard Ortell, Biology
Ball, Ryan P, Biology
Ballinger, Alex Jeremy, Biology
Barbera, Maloree Christine, Biology
Barker, Charles Ray, Physics
Barrios, Kainoa Steven Taylor, Mathematics
Bass, Chandler Allen, Physics
Bassa, Cherifatou Blessing, Biology
Baterdene, Bayasal, Biology
Baxter, Dawson R***, Chemistry
Bertram, Katherine Renee, Biology
Biddinger, Scott Richard, Biology
Bol, Eva, Biochemistry
Booth, Maxwell E***, Applied Mathematics
Bouck, Alison, Chemistry
Bounthot, Annie, Biology
Brabb, Kathleen, Biology
Bradford, Jasper Nofear, Physics
Bradley, Tanner Allen, Biology
Branch, Karli Ruth, Biology
Brandow, Jarom Alexander, Biology
Brewer, Shaylie, Chemistry
Cahoon, Elizabeth V, Physics
Call, Alexandra M, Biology
Carter, Daniel Charles, Biology
Caruso, Paul, Physics
Cash, Amber M, Mathematics
Castro, Kalista Tia, Physics Teaching
Chambers, Matthew Eugene Whitacre**, Biology
Chang, Joshua*, Biology
Chen, Todd Yata, Biology
Chiao, Avery Alexander, Mathematics
Christensen, Zachary Dale Preuer, Biology
Clark, Casey Hunter, Biochemistry
Clawson, Kathia Lisseth***, Biology
Connor, Aidan Randall**, Biology
Cook, Gregory Corbin, Chemistry
Cookson, Samuel Bowman, Physics
Coon, Mikayla Ann, Biology
Cottle, Natalie, Biology
Couey, Allen Anthony, Chemistry
Counterman, Elijah Drew**, Applied Mathematics
Counterman, Elijah Drew**, Biochemistry
Crane, Charles J, Biology
Crawford, Jakob R, Biology
Crawford, Michael Boyd, Mathematics
Croasmun-Adams, Zachary Ryan, Chemistry
Cutshall, Jordan, Biology
Dall, Jonathan Michael, Mathematics
Darling, Abagail Patricia, Biochemistry
Day, Lia Winnie, Biology
Dean, Jacob M, Biology
Dean, Wyatt Ashur, Applied Mathematics
Deboer, Sebastian S, Biology
Deford, Alexis Ann, Biology
Dennett, Paige Ryan*, Mathematics
Desjardins, Gabrielle Ann**, Biochemistry
Din, Shaistah S, Biology
Duft, Madeolin Gracie, Biology
Duncan, Tieker Silas***, Biology
Eatough, Zachary John, Physics
Edgington, Parker J, Biology
Edwards, Jamon Wallace, Biology
Ellis, Isabella M, Biology
Ellsworth, Jeffrey Shane, Applied Mathematics
Espinel, Cristian Estuardo, Biochemistry
Estrada, Jacqueline Jazmin, Biology
Fairbanks, Mary Christine, Biology
Fardos, Nicholas Edward, Biology
Fenton, Berkley Chure***, Biology
Fenton, Brighton Heather, Biology
Fenton, William Colt, Biology
Firth, Ethan Jeff, Chemistry
Flannagan, Meaghan Grace, Chemistry
Ford, Adam John, Biochemistry
Fowers, Tyler S, Biology
Frerichs, Daniel James, Mathematics
Fugal, Aaron, Physics
Gagon, Ryan Loran, Mathematics Teaching
Galloway, Saydra Jolsyn*, Biology
Galuia, Zineb, Biology
Garcia, Mckenna Marie, Biology
Garfield, Quayde Michael, Chemistry
Geurts, Gracie Caroline, Biology
Gilmore, Palepoi Nelson***, Biology
Goh, Ethan Jun Wei, Physics
Gonzalez Pureco, Alejandra, Applied Mathematics
Gooch, Braeden R, Biochemistry
Grace, Peyton Lawrence, Chemistry
Greer, Lily Grace, Biology
Gregorcy, Alex M, Biology
Grimm, Calvin James, Biology
Gustavus, Jacob, Biology
Haber, Ryan Andrew, Biology
Hannay, Kane N, Applied Mathematics
Hansen, Skylee Dongyue, Chemistry
Hardy, Austin Kenneth***, Biology
Harlan, Cooper Joshua, Chemistry
Harris, Preston William, Physics
Harrison, Donald Charles, Mathematics
Hart, Chase Austin*, Biology
Haskay, Savannah Skye, Biochemistry
Hassard, Brian R***, Physics
Haught, Maddison Brooks, Biology
Hawkes, Mia Kathleen, Biology
Heilman, Matthew L, Biology
Hendry, Samuel Gary*, Biology
Hickenlooper, Carter Vincent, Physics
Higgins, James Michael, Mathematics
Hill, Rachel, Biology
Hoffman, Kallie, Biology
Hogan, Amanda Michelle, Biology
Hong, Jungwook, Biology
Houghton, Madeline Elizabeth, Biology
Huenemann, Benjamin*, Mathematics
Hughes, Isabelle, Biology
Putz, Nicholas J, Biology
Ratchford, Grace Idella, Biology
Raymond, Nathan David, Biology
Redd, Ryan Zachary, Mathematics
Rich, Steven Mark, Biology
Ricks, Lyndsay Sierra, Biology
Robins, Tanner, Biology
Robinson, Ashlee Nicole, Applied Mathematics
Rohlf, Kilee Ann, Mathematics
Roman, Xavier, Biology
Romero-Resa, Mitzi Kimberly, Chemistry
Romrell, Rowdy Burton, Chemistry
Roque, Rhodleen Glorien Caturay, Applied Mathematics
Rosal, Vian F, Biochemistry
Rosiles Rodriguez, Stacy, Biology
Rosquist, Keaton Todd, Biology
Ross, Stockton T, Mathematics
Rowley, Michael Jared, Mathematics Teaching
Ryan, Elizabeth A, Biochemistry
Sabry, Amira Day, Biology
Salazar, Salvador David, Applied Mathematics
Santa Ana, Stella Rae, Biology
Satter, Von A, Biochemistry
Schiwal, Dana Elizabeth***, Biology
Schlamkowitz, Jack Aaron, Chemistry
Schneggenburger, Benjamin Robert, Biology
Schultz, Max Rudolph, Biology
Scott, Adam Lewis, Mathematics
Scovill, Myleigh, Biology
Sevison, Justin P, Chemistry
Shapiro, Andrew Robert, Applied Mathematics
Sharma, Jessica, Biology
Shelton, Haven Reed, Physics
Shin, Seungwon, Mathematics Teaching
Shipp, Isaiah, Biology
Simmons, Savannah, Mathematics
Siu, Grace J, Mathematics
Sjoblom, Ana E, Chemistry
Smith, Erik Preston, Biology
Smith, Isabelle Jane***, Chemistry
Smith, Kaitlyn R*, Biology
Smith, Lia K, Mathematics
Smith, Mary J, Mathematics
Soller, Summer Megan, Mathematics
Sorensen, Jayden N, Biology
Soucie, Jessica Lauren, Mathematics
Steckel, Sophie Anne, Chemistry
Stein, Alfred James, Applied Mathematics
Storm, Carson Parker, Mathematics
Stucki, Winston S, Mathematics
Sullivan, Harry Winston, Physics
Tako, Gnoulelein M, Mathematics
Tate, Ryan James, Biology
Tattini, Madison Elizabeth, Biology
Teets, Malia Rae, Biology
Tian, Bruce B, Biochemistry
Todaro, Angelena M, Biology
Tracy, Javiera Francisca, Biochemistry
Tran, Kathy, Biology
Trombley, Kara Nicole, Biology
Tsai, Ying-Jen, Biochemistry
Uddenberg, Julia Kelley, Biology
Valerio, Katharine L, Biochemistry
Vankayalapati, Vivek, Physics
Venz, Skyle Ray, Biology
Voeller, Derek Anthony, Physics
Votek, Amber Kay, Mathematics
Wagner, Lukas David, Chemistry
Wagner, Maya Mickelle, Applied Mathematics
Wahlen, Lily Jean, Biology
Walker, Clay Elliot Knobbe, Chemistry
Wan, Zihe, Biology
Wang, Zhenlong, Mathematics
Weakley, Hanna Leigh, Mathematics
Weiler, Ellen Kathryn, Biology
Weller, Caroline M**, Biology
Wesley, Cara Brooke***, Biology
Whitaker, Kimberly Ann, Biology
Whitehead, Laura, Biology
Whiting, Marc, Physics
Whittaker-Tademy, Aneasha Francheska, Biology
Williams, Taylor M, Biochemistry
Wilson, H Wyatt, Biology
Wilson, Lane Marshall***, Biology
Winder, Conner Philip, Physics Teaching
Woodrum, Mackenzie C, Biology
Worthen, Miles David, Chemistry
Wratten, Pierce Richard, Chemistry
Wright, Elias McConkie*, Biology
Wu, Emily Rosy, Biochemistry
Wu, Ya-Xuan, Biology
Yahyapour, Nadia, Biology
Yee, Elena Min, Biology
Zamudio-Frausto, Giselle, Biology
Zarandona, Nikolai Valdez, Biology
Zhao, Haidong, Mathematics
Zhou, Shengguang, Applied Mathematics
Zinn, Benjamin, Applied Mathematics

**Candidate for the Degree of Bachelor of University Studies**
King, Scott Clark, Anatomy and Physiology

**Certificates**

**Candidates for the Honors Certificate**
Andersen, Kara Josephine
Ding, Victoria L
Fowers, Tyler S
Guynn, Isaac Pierce Amel
Halberg, Charles Harry
Hansen, Skylee Dongyue
Hanson, Olivia Rosemary
Lame, Ethan J
Landrum, Jenna Mae
Lawrence, Derek John
Loyola, Nicolas Mulbere
Mallender, Zachary Charles
Mickelsen, Lauren Mckenzie
Munn, Jared Jackson
Peterson, Mikal Cole
Richardson, Brennan Dayn
Schultz, Max Rudolph
Tazehabadi, Tara
Ward, Bridget Ellie
Wiese, Claudia Louise

Candidate for the
Undergraduate Certificate in
Applied Positive Psychology
Owens, Kaitlin Ruth

Candidate for the
Undergraduate Certificate in
Criminology and Corrections
Coon, Mikayla Ann

Candidate for the
Undergraduate Certificate in
Geographic Information Science
Peterson, Connor Mark

Commissions

Graduates of the Reserve Officers’ Training Corps Being Presented a Commission as 2nd Lieutenant, United States Air Force
Crawford, Michael Boyd
Jackson, Nathan Thomas
Scott, Adam Lewis

Graduate of the Reserve Officers’ Training Corps Being Presented a Commission as Ensign, United States Navy
Ellis, Isabella M

Honor Societies

Student Elected to the
Honor Society of Beehive
Fernandez, Florence De Guzman

Students Elected to the
Honor Society of Golden Key
Fernandez, Florence De Guzman
Lee, Nickolas Robert

Student Elected to the
Honor Society of Omicron Delta Epsilon
Lozada, Benvin Fan

Student Elected to the
Honor Society of Phi Beta Kappa
Brauer, Markus

Students Elected to the
Honor Society of Phi Eta Sigma
Bass, Chandler Allen
Fowers, Tyler S
Gray, Yvanna Marie
Katsanevas, Lucas Kade
Kirkeby, Emily K
Langenecker, Maya K
Lee-Mesa, Palmer Curtis
Munn, Jared Jackson
Wiltse, Ashley Raelynn

Student Elected to the
Honor Society of Phi Kappa Phi
Beams, Alexander Brown

Students Elected to the
Honor Society of Pi Mu Epsilon
Beams, Alexander Brown
Geisler, Emil S

Students Elected to the
Honor Society of Sigma Alpha Pi
Fernandez, Florence De Guzman
Su, Yinghua

Scholars

Candidates for Undergraduate Research Scholar
Deford, Alexis Ann
Desjardins, Gabrielle Ann
Din, Shaistah S
Eatough, Zachary John
Ford, Adam John
Geisler, Emil S
Hassard, Brian R
King, Scott Clark
Kraft, Chloe M
Krauel, Steven Peter
Lee-Mesa, Palmer Curtis
Mallender, Zachary Charles
Marz, Steven Jeffrey
Perea III, Gary Cole
Prakash, Tejashree
Pugmire, Anne Eliza Pingree
Rosquist, Keaton Todd
Schiwal, Dana Elizabeth
Smith, Mary J
Tazehabadi, Tara

***Summa Cum Laude
**Magna Cum Laude
*Cum Laude
Candidates for the Degree of Doctor of Philosophy
Alnaser, Husain FFHs, Metallurgical Engineering
Amoakoh, Daniel Botchwey, Mining Engineering
Bai, Husile, Atmospheric Sciences
Bernau, Jeremiah Amen, Geology
Breeden III, Benjamin Thomas, Geology
Chamberlain, Jarom Lee, Metallurgical Engineering
Duncan, Casey James, Geology
Finnegan, Riley Mairead-Mahoney, Geophysics
Fischer-Femal, Brenden, Geology
Humphrey, Christopher Eric, Geology
Jolley, Bryce Ricks, Metallurgical Engineering
Jones, Clay Grant, Geology
Li, Xia, Atmospheric Sciences
Mitchell, Christopher John, Atmospheric Sciences
Moyes, Alexander Jay, Mining Engineering
Ochoa, Raul Ignacio, Geology
Rajagopal, Manikandan, Atmospheric Sciences
Roten, Dustin Dale, Atmospheric Sciences
Sarantsatsral, Naman, Mining Engineering
Sime, Marc Freddy, Metallurgical Engineering
Srinivasan, Ramana Murali, Metallurgical Engineering
Talebi Esfandarani, Elaheh, Mining Engineering
Wilmot, Taylor Y, Atmospheric Sciences
Xu, Zhuocan, Atmospheric Sciences
Yang, Chengangu, Metallurgical Engineering
Young, Aaron Samuel, Mining Engineering
Zhang, Zhixiao, Atmospheric Sciences

Candidates for the Degree of Master of Science
Atlas, Claire E, Geology
Bestul, Kimberly A, Atmospheric Sciences
DeMaria, Matthew Benjamin, Atmospheric Sciences
Ersen, Tolunay Recep, Geophysics
Finley, Hannah, Geology
Gaichuk, Ivan V, Geology
Hartley, Hannah Beth, Geology
Hirshorn, Noah Santo, Atmospheric Sciences
Kapoor, Ishaan, Mining Engineering
Kongolo Ilunga, Joel, Metallurgical Engineering
Lee, Shantae Hoi-Kui, Mining Engineering
Mcglynn, Paul Stephen, Atmospheric Sciences
Muller, Patrick, Metallurgical Engineering
Oduro, Lewis, Mining Engineering
Pletcher, Michael David, Atmospheric Sciences
Podder, Prasenjit, Metallurgical Engineering
Radwin, Mark Hager, Geology
Spencer, Francesca Louise, Geology
Stone, Luke L, Atmospheric Sciences
Thomas, leuan Jyn-Tow, Atmospheric Sciences
Wolvin, Savanna, Atmospheric Sciences
Yip, Jackson Paladin, Atmospheric Sciences

Candidates for the Degree of Master of Science and Technology
Carroll, Julian Robert, Environmental Science
Collins, Amy Leigh, Environmental Science
Karpous, Paraskevi, Environmental Science
O’Brien, Matthew Charles, Environmental Science
Schroeder, Eli Daniel, Environmental Science
Valko, Peyton Claire, Environmental Science

Candidates for the Degree of Honors Bachelor of Science in Geoscience
Cordova, Andreas G**
Festin, Madeleine Mary*
Spendlove, Karrah J***

Candidates for the Degree of Bachelor of Science in Atmospheric Sciences
Alden, Clinton Douglas
Buckley, Nicholas
Hofmann, Nicholas Sanders
Manning, Jameson H
Mondock, Olivia Sophie
Reuschel, Luke
Sherr, Cameron E
Stoddard, Johnathan F
Tarin-Olivas, Rochelle Zoe
Wagner, Isaiah Michel

Candidates for the Degree of Bachelor of Science in Earth Science Composite Teaching
Condon, Abby Jean
Tang, Edward Pokman

Candidates for the Degree of Bachelor of Science in Geological Engineering
Braning, Kali N
Gaines, Dustin Allen
Leberknight, Tristen Jerald
Manzo, Alan Daniel
Terlaga, Michael

Candidates for the Degree of Bachelor of Science in Geoscience
Bagge, Sam Rose
Barry, Chloe Alana**
Beukema, Alice Olivia
Brock, Stephanie Nicole
Clough, Bryce Robert**
Cocke, Ryan Michael
Denney, Megan Breeana
Fankhauser, Jessica Ann
Harbin, Dustin Joseph
Kirkpatrick, Kayleigh Elizabeth
Mancini, Gregory John
Matzke, Annie Elizabeth
Nicolodemos, Nathan
Payne, Lillianne Jayde
Peterson, Brennon Kyler*
Smart, Sarah Anne Bleiweiss
Sorensen, Lila L
Terlaga, Michael
Tessman, Audra Evalina
Williams, Michelle

Candidates for the Degree of Bachelor of Science in Metallurgical Engineering
Armstrong, Tristan Andrew
Moore, David
Sadler, Easton J
Samuel, James Davidraj
Schroeder, Benjamin David
Squire, Nickolas Grant

Candidates for the Degree of Bachelor of Science in Mining Engineering
Alaguzov, Aldiyar A
Brown, Zachary Ray
Campbell, Gates
Carson, Jared Lloyd
Christensen, Daniel Robert
Huish, Chad N
Lee, Shantae Hol-Kui
Lyddall, Benjamin J
Sawyer, David Charles*
Sullivan, Hunter Patrick
Trent, Harrison

Certificates
Candidate for the Honors Certificate
Cordova, Andreas G

Commissions
Graduate of the Reserve Officers’ Training Corps Being Presented a Commission as Ensign, United States Navy
Reuschel, Luke

Honor Societies
Student Elected to the Honor Society of Golden Key
Campbell, Gates

Students Elected to the Honor Society of Phi Eta Sigma
Campbell, Gates
Young, Aaron Samuel

Student Elected to the Honor Society of Tau Beta Pi
Campbell, Gates

Scholars
Candidates for Undergraduate Research Scholar
Bagge, Sam Rose
Spendlove, Karrah J

***Summa Cum Laude
**Magna Cum Laude
*Cum Laude