

# *Commencement*

**FALL 2022**  
Lubbock, Texas  
December 16-17



WILL ROGERS  
RIDING FROM THE SUNSET  
1879 - 1935



TEXAS TECH UNIVERSITY®

FALL 2022

# *Commencement*

Friday, December 16, 2022

2:00 p.m., 6:30 p.m.

Saturday, December 17, 2022

9:00 a.m., 1:30 p.m.

UNITED SUPERMARKETS ARENA  
LUBBOCK, TEXAS



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## MISSION

As a public research university, Texas Tech advances knowledge through innovative and creative teaching, research, and scholarship. The university is dedicated to student success by preparing learners to be ethical leaders for a diverse and globally competitive workforce. The university is committed to enhancing the cultural and economic development of the state, nation, and world.



# TEXAS TECH UNIVERSITY ADMINISTRATION

LAWRENCE E. SCHOVANEC, Ph.D.

*President;*

*Professor of Mathematics and Statistics*

RONALD L. HENDRICK, Ph.D.

*Provost and Senior Vice President;*

*Professor of Natural Resources Management*

JOSEPH HEPPERT, Ph.D.

*Vice President for Research & Innovation;*

*Professor of Chemistry*

NOEL SLOAN, J.D., CPA

*Senior Vice President for Administration & Finance;*

*Chief Financial Officer*

CAROL SUMNER, Ed.D.

*Chief Diversity Officer and Vice President of*

*the Division of Diversity, Equity & Inclusion*

## TEXAS TECH UNIVERSITY SYSTEM CHANCELLOR / BOARD OF REGENTS

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*Chancellor,*

*Texas Tech University System*

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*El Paso, Texas*

## ACADEMIC OFFICERS

MARK SHERIDAN, Ph.D.

*Vice Provost for Graduate and*

*Postdoctoral Affairs;*

*Dean, Graduate School;*

*Professor of Biology*

URS PETER FLUECKIGER, M.Arch.

*Dean, Huckabee College of Architecture;*

*Professor of Architecture*

JILL HERNANDEZ, Ph.D.

*Dean, Honors College;*

*Professor of Philosophy and Humanities*

JACK NOWLIN, Ph.D., J.D.

*Dean, School of Law;*

*Professor of Law*

TOSHA DUPRAS, Ph.D.

*Dean, College of Arts & Sciences;*

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*Dean, College of Human Sciences;*

*Professor of Hospitality Management*

GUY LONERAGAN, Ph.D.

*Dean, School of Veterinary Medicine;*

*Professor of Food Safety and Public Health*

MARGARET L. WILLIAMS, Ph.D.

*Dean, Jerry S. Rawls College of*

*Business Administration;*

*Professor of Management*

DAVID D. PERLMUTTER, Ph.D.

*Dean, College of Media & Communication;*

*Professor of Journalism and*  
*Creative Media Industries/Public Relations*

EARNSTEIN DUKES, M.L.S.

*Dean of Libraries;*

*Librarian*

JESSE PEREZ MENDEZ, Ph.D.

*Dean, College of Education;*

*Professor of Education*

MARTIN CAMACHO, D.M.A.

*Dean, J.T. & Margaret Talkington*

*College of Visual & Performing Arts;*  
*Professor of Music*

CINDY L. AKERS, Ed.D.

*Interim Dean, Davis College of Agricultural*  
*Sciences & Natural Resources;*

*Professor of Agricultural Communications*

STEPHEN BAYNE, Ph.D.

*Interim Dean, Edward E. Whitacre, Jr.*

*College of Engineering;*

*Professor of Chemical Engineering*

PATRICK C. HUGHES, Ph.D.

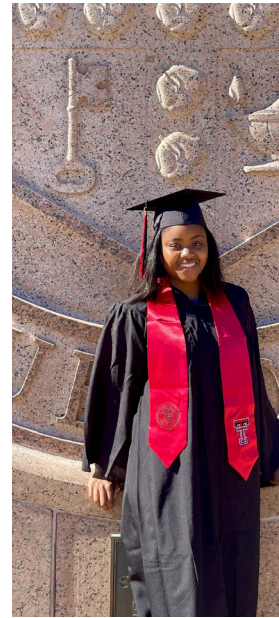
*Dean, University Studies;*

*Professor of Communication Studies*

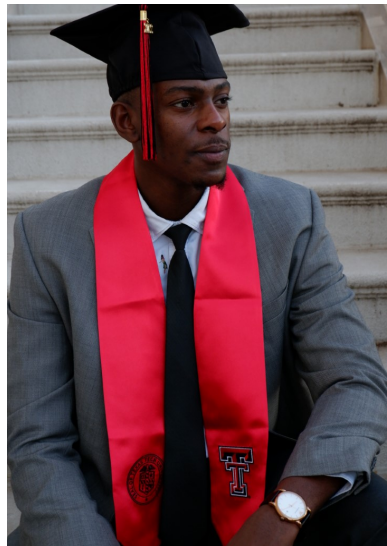
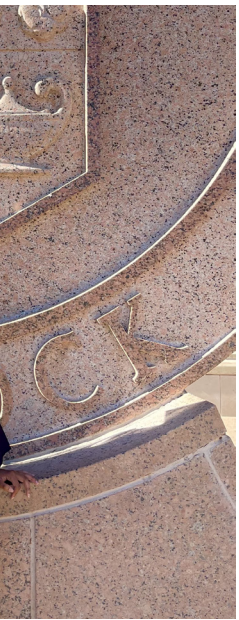
**FROM ITS VERY BEGINNING** the Texas Tech University community has had a sense of destiny and an awareness of the impact it could and would have on Texas and the wider world. Originally named Texas Technological College, Texas Tech opened in 1925 with six buildings, four schools (Agriculture, Engineering, Home Economics, and Liberal Arts), and an enrollment of 914. Texas Tech grew rapidly after World War II, and in 1969 the Texas legislature approved a name change to Texas Tech University. In the years since, Texas Tech has grown to become the largest comprehensive higher education institution in the western two-thirds of the state. The university is the major institution of higher education in a region larger than 46 of the nation's 50 states.

Today, Texas Tech continues to thrive, with more than 40,000 students enrolled in its 11 colleges: Davis College of Agricultural Sciences & Natural Resources, Huckabee College of Architecture, Arts & Sciences, Jerry S. Rawls College of Business Administration, Education, Edward E. Whitacre, Jr. College of Engineering, Honors College, Human Sciences, Media & Communication, J.T. & Margaret Talkington College of Visual & Performing Arts, and the Graduate School, as well as University Studies via the Office of the Provost.

Because of its educational scope and purpose, as well as the size of the region it serves, Texas Tech University operates in numerous Texas locations beyond the Lubbock campus. In all, the Texas Tech University System includes Texas Tech University, Angelo State University, Midwestern State University, Texas Tech University Health Sciences Center, and Texas Tech University Health Sciences Center at El Paso.















**S**INCE TEXAS TECH'S FIRST graduation ceremony in the spring of 1927, more than 200,000 undergraduate and graduate degrees have been awarded by the university. From these proud graduates have emerged captains of industry, world-renowned surgeons, noted authors, famous singers, acclaimed teachers and professors, attorneys, entrepreneurs, agronomists, scientists, professional athletes, and countless others who have claimed positions of service and responsibility in a rapidly changing world.

Texas Tech University alumni and graduates have governed states, flown in space, served as Presidential cabinet members, won Olympic gold medals, served as ambassadors to foreign countries, acted on Broadway stages, won Pulitzer Prizes, served in Congress, led Fortune 500 companies, and been watched by millions on network television news.

All Texas Tech graduates can point with pride to the solid academic preparation they received and the personal connections they made as Red Raiders. For beneath the spacious skies of West Texas and in the halls of brick and tile through which they strolled during their time on campus, generations of Texas Tech students have been provided a foundation for success that is without parallel. As they take their first steps into careers that will see many of them literally change the world, they can remember with certainty one important fact about Texas Tech University:

**From here, it's possible.**

# COMMENCEMENT CEREMONY

**Friday, December 16, 2022**

**2:00 p.m.**

Presiding	Dr. Lawrence Schovanec <i>President, Texas Tech University</i>
Processional*	Texas Tech Commencement Band <i>Dr. Sarah McKoin, Conductor</i>
National Anthem	Ms. Sarah Williams <i>Bachelor of Music, December 2022</i>
Welcoming Remarks	Mr. J. Michael Lewis <i>Board of Regents, Texas Tech University System</i>
Student Speaker	Mr. Elliott Radovan <i>Bachelor of Science in Microbiology, December 2022</i>
Conferring of Degrees	Dr. Lawrence Schovanec Dr. Ronald Hendrick <i>Provost and Senior Vice President</i>
Recognition of Outstanding Students Class of 2022	Dr. Ronald Hendrick
Charge to the Graduates	Dr. Lawrence Schovanec
Alma Mater <i>(Words on Back Cover)</i>	Mr. Carlos Correa <i>Bachelor of Music, December 2022</i>
Presentation of Degree Candidates	Dr. Tosha Dupras, <i>Dean, College of Arts &amp; Sciences</i>
Closing of Ceremony	

*\* Please remain seated during the Processional.*



# COMMENCEMENT CEREMONY

**Friday, December 16, 2022**

**6:30 p.m.**

Presiding	Dr. Lawrence Schovanec <i>President, Texas Tech University</i>
Processional*	Texas Tech Commencement Band <i>Dr. Sarah McKoin, Conductor</i>
National Anthem	Ms. Brittney Stainbrook <i>Bachelor of Music, December 2022</i>
Welcoming Remarks	Mr. J. Michael Lewis <i>Board of Regents, Texas Tech University System</i>
Student Speaker	Ms. Amanda Jo Zimmerman <i>Doctor of Philosophy in Plant and Soil Science, December 2022</i>
Conferring of Degrees	Dr. Lawrence Schovanec Dr. Ronald Hendrick <i>Provost and Senior Vice President</i>
Recognition of Outstanding Students Class of 2022	Dr. Ronald Hendrick
Charge to the Graduates	Dr. Lawrence Schovanec
Alma Mater <i>(Words on Back Cover)</i>	Mr. Eric Feldman <i>Bachelor of Music, December 2022</i>
Presentation of Degree Candidates	Dr. Mark Sheridan, <i>Vice Provost for Graduate and Postdoctoral Affairs;</i> <i>Dean, Graduate School</i>
Closing of Ceremony	

*\* Please remain seated during the Processional.*

# COMMENCEMENT CEREMONY

**Saturday, December 17, 2022**

**9:00 a.m.**

Presiding	Dr. Lawrence Schovanec <i>President, Texas Tech University</i>
Processional*	Texas Tech Commencement Band <i>Dr. Sarah McKoin, Conductor</i>
National Anthem	Ms. Olivia Currier <i>Bachelor of Music, December 2022</i>
Welcoming Remarks	Mr. J. Michael Lewis <i>Board of Regents, Texas Tech University System</i>
Student Speaker	Mr. Panashé Siachitema <i>Bachelor of Science in Architecture, December 2022</i>
Conferring of Degrees	Dr. Lawrence Schovanec Dr. Ronald Hendrick <i>Provost and Senior Vice President</i>
Recognition of Outstanding Students Class of 2022	Dr. Ronald Hendrick
Charge to the Graduates	Dr. Lawrence Schovanec
Alma Mater <i>(Words on Back Cover)</i>	Ms. Olivia Currier <i>Bachelor of Music, December 2022</i>
Presentation of Degree Candidates	Prof. Urs Peter Flueckiger, <i>Dean, Huckabee College of Architecture</i> Dr. David Perlmutter, <i>Dean, College of Media &amp; Communication</i> Dr. Cindy Akers, <i>Interim Dean, Davis College of Agricultural Sciences &amp; Natural Resources</i> Dr. Stephen Bayne, <i>Interim Dean, Edward E. Whitacre, Jr. College of Engineering</i>
Closing of Ceremony	

*\* Please remain seated during the Processional.*

# COMMENCEMENT CEREMONY

**Saturday, December 17, 2022**

**1:30 p.m.**

Presiding	Dr. Lawrence Schovanec <i>President, Texas Tech University</i>
Processional*	Texas Tech Commencement Band <i>Dr. Sarah McKoin, Conductor</i>
National Anthem	Ms. Alaina Galt Vasquez <i>Bachelor of Music, December 2022</i>
Welcoming Remarks	Mr. J. Michael Lewis <i>Board of Regents, Texas Tech University System</i>
Student Speaker	Ms. Katherine Pegany <i>Bachelor of Business Administration in Finance, December 2022</i>
Conferring of Degrees	Dr. Lawrence Schovanec Dr. Ronald Hendrick <i>Provost and Senior Vice President</i>
Recognition of Outstanding Students Class of 2022	Dr. Ronald Hendrick
Charge to the Graduates	Dr. Lawrence Schovanec
Alma Mater <i>(Words on Back Cover)</i>	Ms. Hannah Fox <i>Bachelor of Music, December 2022</i>
Presentation of Degree Candidates	Dr. Jesse Perez Mendez, <i>Dean, College of Education</i> Dr. Martin Camacho, <i>Dean, J.T. &amp; Margaret Talkington College of Visual &amp; Performing Arts</i> Dr. Patrick Hughes, <i>Dean, University Studies</i> Dr. Tim Dodd, <i>Dean, College of Human Sciences</i> Dr. Margaret Williams, <i>Dean, Jerry S. Rawls College of Business Administration</i>
Closing of Ceremony	

*\* Please remain seated during the Processional.*





Elliott Radovan began his time at Texas Tech as an honors student in the fall of 2019 and is graduating with a degree in microbiology. He has spent his time at Texas Tech actively involved in research and nonprofit work. He served as Event Coordinator for the JoyCentric Organization, which serves the local cancer patient population, as well as Health Information Officer for Raider Medical Screening Society, an organization that provides free health screenings to under- and un-insured patients in Lubbock. His research work was involved in developing a treatment for lupus, working side by side with both Dr. Peter Keyel in the Department of Biological Sciences at TTU and Dr. Bryan Sutton in the Department of Cell Physiology and Molecular Biophysics in the TTUHSC School of Medicine in their labs. After graduation, Elliott plans on taking the MCAT and applying to medical school.



Amanda Jo "AJ" Zimmerman has dedicated most of her life to academia and government service. She graduated with her B.S. from the University of Hawaii Hilo in 2007, completed her M.S. in Geology and Geophysics at LSU in 2010, and this year finishes her Ph.D. studying Environmental Soil Chemistry. Prior to her return to studies at Texas Tech, she worked at the Bureau of Ocean Energy Management for seven and a half years and taught at Delgado Community College in New Orleans, LA, for eight and a half years. Upon graduation, AJ is returning to government service and fulfilling her lifelong goal of working for the U.S. Geological Survey. She is a mom to four cats and loves turtles, knitting, crocheting, and adding to her rock collection.



Panashé Siachitema is originally from Zimbabwe and currently resides in Dallas, Texas. He will graduate with a Bachelor of Science in Architecture with a focus on real estate and entrepreneurship. At Texas Tech University, he was involved in numerous organizations that gave him leadership opportunities, including the Rawls College of Business' Real Estate Organization, Huckabee College of Architecture's Student Union, Huckabee College of Architecture's National Organization of Minority Architects, Huckabee College of Architecture's Diversity, Equity, and Inclusion Committee, and Huckabee College of Architecture's *CROP* Publication. After graduating, he will pursue graduate studies at Southern Methodist University's Cox School of Business.



Katherine Pegany is a finance and management student of the Rawls College of Business Administration at Texas Tech University. She is involved in various ways on and off campus, including Delta Gamma Fraternity—where she has held several leadership roles—Mortar Board, Student Business Council, and more. An avid listener and explorer of a range of music, Katherine enjoys attending performances around Lubbock and playing the piano and guitar. Originally from Austin, TX, Katherine is excited to relocate back to the area post-grad, where she will begin a career in Finance at Dell Technologies as a Financial Analyst in their Financial Development Program.

# ACKNOWLEDGEMENTS

## CONVOCATIONS COMMITTEE

Dr. Rhonda Boros, Chair  
Dr. Jhones Sarturi, Past Chair  
Mr. Josh Adamek  
Dr. Corey Brelsfoard  
Dr. Carla Davis Cash  
Dr. Yoojin Chae  
Dr. Julie Chang  
Ms. Morgan Chavez-Brannon  
Dr. Jon Crider  
Dr. Sara Dodd  
Dr. Kristi Gaines  
Ms. Brady Ganus  
Dr. Michael Giesselmann  
Ms. Maggie Gilchrest  
Dr. Lauren Griffith  
Dr. Alastair Hamilton  
Dr. Annette Hernandez  
Dr. Zach Hohman  
Mr. Nate Imai  
Dr. Molly Ireland  
Dr. Catherine Jai  
Dr. Babu John-Mariadoss  
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Ms. Nikki Kantelis  
Dr. Jacob Kirksey  
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Dr. Erin Marie Legacey  
Dr. Conrad Lyford  
Dr. Ann Mastergeorge  
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Mr. Max Noble  
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Dr. Cynthia Phelps  
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Dr. Sarah Schwintz  
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Dr. Leslie Thompson  
Dr. Susan Tomlinson  
Mr. Von Venhuizen  
Dr. Vijay Hedge  
Ms. Kim Walker  
Dr. Zhe Wang  
Ms. Jordan Dahl  
Ms. Amiee Dixon  
Ms. Abby Walton

## PROGRAM

This program was produced by the Office of the Provost in cooperation with the Convocations Committee and the Office of Official Publications at Texas Tech University, Lindsay Hallowell, Director, and Kaelene Hansen, Senior Editor.

*This program is an unofficial list of Fall 2022 graduates and should not be used to determine a student's academic or degree status. The actual award of honors reflected on a student's diploma will be determined by the student's final academic average. The university's official registry for conferral of degrees is the student's permanent academic record kept by the Office of the Registrar.*

## COLLEGE READERS

*Davis College of Agricultural Sciences & Natural Resources* – Dr. Erica Irlbeck  
*Huckabee College of Architecture* – Prof. Darrick Wade  
*College of Arts & Sciences* – Dr. Jorge Iber and Dr. Audra Day  
*Rawls College of Business Administration* – Mr. Derrick Ginter  
*College of Education* – Dr. Ana Torres  
*Whitacre, Jr. College of Engineering* – Dr. Tim Dallas  
*Graduate School* – Dr. Allison Childress and Dr. Jon McNaughtan  
*College of Human Sciences* – Dr. Bill Gustafson  
*College of Media & Communication* – Dr. Todd Chambers  
*University Studies* – Prof. Raynie Gibbs  
*Talkington College of Visual & Performing Arts* – Dr. Bill Gelber

## ADMINISTRATIVE REPRESENTATIVES

*Davis College of Agricultural Sciences & Natural Resources* – Mr. Michael Harper  
*Huckabee College of Architecture* – Ms. Amy Peterman  
*College of Arts & Sciences* – Ms. Kymberli Saldaña  
*Rawls College of Business Administration* – Ms. Geleah Sharp  
*College of Education* – Ms. Karen Noles  
*Whitacre, Jr. College of Engineering* – Ms. Patricia Rodriguez  
*Graduate School* – Ms. Vanessa Bara and Ms. Alyssa Reichert  
*Honors College* – Ms. Beth Scheckel  
*College of Human Sciences* – Ms. Shannon Tebo  
*College of Media & Communication* – Ms. Julia Heard Witt  
*University Studies* – Ms. Courtney Lynn  
*Talkington College of Visual & Performing Arts* – Mr. Aaron Chavarria

## STUDENT BANNER BEARERS

*Davis College of Agricultural Sciences & Natural Resources* – Ms. Alexandra Salinas  
*Huckabee College of Architecture* – Mr. Tomas Marin  
*College of Arts & Sciences* – Ms. Jordan Conger  
*Rawls College of Business Administration* – Mr. Chandler Tillman  
*College of Education* – Mr. Lucero Garcia  
*Whitacre, Jr. College of Engineering* – Mr. Jackson Kays  
*Graduate School* – Ms. Lauren Pokorzynski  
*College of Human Sciences* – Ms. Tyla Oliver  
*Honors College*  
2:00 p.m. – Ms. Leah Skelton  
9:00 a.m. – Ms. Sierra Delgado  
1:30 p.m. – Ms. Malaika Shinwari  
*College of Media & Communication* – Mr. Te'Rone Eaglin, Jr.  
*University Studies* – Mr. Cody Blake  
*Talkington College of Visual & Performing Arts* – Ms. Calista Renfro

## FACULTY BANNER BEARERS

2:00 p.m. – Alex Wang, Ph.D.  
*Professor of Mathematics and Statistics, College of Arts & Sciences*  
6:30 p.m. – Andrew Stetson, Ph.D.  
*Associate Professor of Trumpet, Talkington College of Visual & Performing Arts*  
9:00 a.m. – Chris Taylor, M.Arch.  
*Director of Land Arts of the American West; Associate Professor of Architecture, Huckabee College of Architecture*  
1:30 p.m. – Zinab Muñoz, Ed.D.  
*Adjunct Faculty in Educational Psychology, Leadership, & Counseling, College of Education*

## LIBRARY BANNER BEARER

2:00 and 6:30 p.m. – Sarah DeVille, Ed.D.



# PRESIDENTIAL MACE

**C**ROWNED BY A FLAME symbolizing the Light of Knowledge, the Texas Tech University Presidential Mace is the symbolic staff of the power and authority of the university. It is constructed of lathed and molded bronze that has been rubbed with a layer of 24K gold. The school crest is presented on either side directly under the flame. Hand-rubbed black walnut has been used for the connecting shafts. The mace was designed by Professor Robly A. Glover in the School of Art. Professor Glover's artwork is on display throughout the United States and included in the permanent collections of the Art Institute of Chicago, The Yale Silver Collection, and the Victoria and Albert Museum in London.



## MACE BEARERS

2:00 P.M., DECEMBER 16 .....	DANIEL NATHAN, Ph.D. <i>Professor of Philosophy, College of Arts &amp; Sciences</i>
6:30 P.M., DECEMBER 16 .....	ALEXANDER WISEMAN, Ph.D. <i>Professor &amp; Director of Educational Leadership Policy, College of Education</i>
9:00 A.M., DECEMBER 17 .....	LEO EKO, Ph.D. <i>Professor of Journalism &amp; Creative Media Industries, College of Media &amp; Communication</i>
1:30 P.M., DECEMBER 17 .....	LESLIE C. SOTOMAYOR, Ph.D. <i>Visiting Assistant Professor of Women's and Gender Studies, University Studies</i>

## CANDIDATES FOR MILITARY COMMISSIONS

The following students are being commissioned as Second Lieutenants in the United States Marine Corps:

Madison Lewis  
Andrew Talamantes

The following students are being commissioned as Second Lieutenants in the United States Air Force:

Frank Garibay  
Thomas Javins  
Joshua Lovett  
Christopher Rogers

The following student is being commissioned as a Second Lieutenant in the United States Army National Guard:

Nermin Isic

## CANDIDATES FOR TEACHER CERTIFICATION

Laura Abundes  
Beatriz Acosta  
Alexis Skyler Allen  
Lauren Marie Allen  
Abigail Grace Austin  
Tara Madison Barbee  
Neil Ian Andrei Ramirez Barrozo  
Brandon David Bigelow  
Zachary Ray Bixler  
Jamie Nicole Bottomley  
Braylee Marie Cantu  
Eric Chen  
Lauren Grace Cleath  
Hope Constance Cooksey

Kara Machel Copeland  
Carlos Antonio Chavez-Correa  
Aaron Ivan Cosse  
Joshua Benjamin Crawford  
Olivia Christine Currier  
Matthew Alexander Escobedo  
David Evans  
Eric Korn Feldman  
Hannah Elisabeth Fox  
Alexa Marie Frederick  
Alaina Galt Vasquez  
Lucero Natividad Garcia  
Madalyn Amorette Gonzalez  
Hailey Diane Gowens

Wendy Eunice Guerrero Nova  
Madison Rene Hilliard  
Travis Anthony Hyman  
Chappelle Ar'Nis Johnson  
Kandace Nycole Kerr  
Kaylee Alyssa Anela Knafelz  
Julia Lauryn Krawietz  
Abby Lillian Losos  
Marshall Gregory Mixon  
Fredrick Morales  
Dakota Senna Perelstein  
Mallory Paige Quinn  
Logan Davin Rivard  
Edna Rivera

Patrick John Rodenbaugh  
Katherine Elizabeth Kaori Rumbo  
Blanca Azucena Salas  
Olivia Suzanne Sanborn  
M'kayla R. Santos  
Adriana Silva  
Samuel Dean Sommer  
Ashton Paige Spence  
Diana Marie Tschoerner  
William Parker Twilligear  
Elaine Simona Unger  
Cameron Clarke Wolfe  
Misa M. Womack

## GRADUATION HONORS

Graduating seniors who have maintained an overall 4.0 GPA include the following:

Laura Abundes  
Lauren Marie Allen  
Shreyesh Shaju Arangath  
Aspen Mackenzie Atkins  
Abigail Grace Austin  
Vanalice Bailey  
Mary Grace Biggs  
Cody Randell Blake  
Lauren Marie Boleng  
Adam Jacob Buro  
Jordan Nicole Conger  
Ahnah Camille Denelsbeck  
Celeste Marie DeVilliers  
Laney Kaye Dixon  
Natalie Marie Dorondo  
Te'Rone Davis Eaglin, Jr.

Daniel George Eck  
Joshua Steven Euhus  
Lauryn Elizabeth Evans  
McKenzie Grace Flowers  
Ashley Michele Fuller  
Shelly Gerik  
Hailey Diane Gowens  
Nathan Raymond Gring  
Micayla Noelle Harris  
Holden John Heisser  
Tam Buu Khanh Ho  
Morgan Ashleigh Johnson  
Jackson Thomas Kays  
Alyssa Caroline Kramer  
An Lam  
Patricia M. Lillie

Grant Walker Linnstaedter  
Mariela Isabel Lomeli  
Francisca Leigh Lord  
Cori McDonald  
Jared Asher Melton  
Mikah Elizabeth Merrill  
Lizette Montero  
John Curtis Mueller  
Linh Song Thuy Nguyen  
Kayla Ann Nickel  
Noah Braiden Parker  
Jalyn Xavier Pedroza  
Isabella Raley  
Jennifer Leigh Ramos  
Brady Charles Ramsey  
Aarsh Pratik Ray

Whitney Addison Reinke  
Calista Noelle Suzanne Renfro  
Marley Elizabeth Roser  
Allyson Kathleen Schmitt  
Abigail Elizabeth Sink  
Samuel Dean Sommer  
Michael Scott Steward  
Matthew Jon Tiemann  
Chandler J. Tillman  
Megan Elizabeth Toscano  
William Parker Twilligear  
Mary Faith Vancura  
Alaina Galt Vasquez  
Peyton Grace Yarbrough

The **doctoral degree** is the most advanced earned degree conferred by American institutions of higher learning. The doctorate usually represents prolonged periods of advanced study culminating in a dissertation intended to contribute substantially to the body of knowledge on the subject. The most widely sought doctorate is the Doctor of Philosophy, which no longer has an implication of philosophy as the major field of study but represents advanced research in any of the major fields of knowledge.

The **master's degree** is an academic honor bestowed upon students who have successfully completed work beyond the baccalaureate. Both a thesis and an oral examination are usually but not always required. When applicable, the graduate's thesis topic is listed.

## DOCTOR OF EDUCATION

### AGRICULTURAL EDUCATION

Lisa Lucia

*Dissertation:* Examining Barriers to Implementing Web-based Technologies in Texas Secondary Agricultural Education Classrooms: A Modified Delphi Study  
*Major Professor:* John Rayfield

Cynthia Pierfax

*Dissertation:* An Exploration of Urban 4-Hers Career Choice after Implementation of a Culturally Relevant STEM 4-H Program  
*Major Professors:* Chanda Elbert and David Lawver

Michael Roy Welch

*Dissertation:* Servant Leadership and U.S. Air Force Intelligence Officer Leadership Candidates  
*Major Professors:* Barry Boyd and Amy Boren Alpizar

### EDUCATIONAL LEADERSHIP

Stacie A. Del Angel

*Dissertation:* Uncovering the Characteristics of Online Professional Development that Appeal to Secondary Content Teachers and Results in Changes to Institutional Practices  
*Major Professor:* Fernando Valle

Ricky Flores

*Dissertation:* Transforming the Student Experience in High Poverty Schools: Structured PLC's Research-based Instructional Strategies and Culturally Responsive Teaching  
*Major Professor:* Irma Almager

### HIGHER EDUCATION ADMINISTRATION

Stephanie Erin Legako

*Dissertation:* Exploring Latina Acculturation Stress Experiences while Studying Agriculture at a Hispanic-serving Institution  
*Major Professor:* Bryan Hotchkins

## DOCTOR OF MUSICAL ARTS

### MUSIC

Richard Laird Harris

*Dissertation:* Audition and Performance Practice for Orchestral Second Trumpet  
*Major Professor:* Andrew Stetson

Lauren Lise Pokorzynski

*Dissertation:* A Holistic Approach to Reframing Tension in Violin Performance  
*Major Professors:* Mark Morton and Annie Chalex Boyle

Yali Xie

*Dissertation:* Introduction and Application to "The High School of Cello Playing", 40 Etudes Op.73  
*Major Professor:* Jeffrey Lastrapes

## DOCTOR OF PHILOSOPHY

### ADDICTIVE DISORDERS AND RECOVERY STUDIES

Kelly M. Chrobak

*Dissertation:* The Effects of Substance Use on Violence  
*Major Professor:* Eugene Wang

Nicole Diane Hune

*Dissertation:* An Interpretative Phenomenological Analysis on the Interconnections and Disturbances of Connectedness between The Self and Others in Co-occurring Schizophrenia and Substance Use Disorder Recovery  
*Major Professor:* Thomas Kimball

### AGRICULTURAL AND APPLIED ECONOMICS

Qi Kang

*Dissertation:* Economic Analyses of Livestock Marketing and Production in China  
*Major Professors:* Chenggang Wang and Carlos Carpio

### ANIMAL SCIENCE

Rossy Lilibeth Bueno Lopez

*Dissertation:* Development and Implementation of Standardized Microbial Quantification-based Procedures for Process Control in Pork Operations  
*Major Professor:* Marcos Sanchez-Plata

## BIOLOGY

Md Fakhrul Azad

*Dissertation:* The Role of miRNAs in Carbon Metabolism and Stress Responses in *Arabidopsis thaliana* Mitochondrial Uncoupling Protein Mutants ucp1/2/3 and Activation-tagged Transcription Factor Allele Production of Anthocyanin Pigment/PAP1-D/MYB75  
*Major Professor:* Chris Rock

Yifan Cai

*Dissertation:* Co-overexpressing *AVP1/PP2A-C5* in Cotton to Enhance Cotton Abiotic Stress Tolerance and Fertilizer Use Efficiency  
*Major Professor:* Hong Zhang

Matthew Ryan Fox

*Dissertation:* The RNA-binding Protein Musashi-2 Regulates Sonic Hedgehog Signaling in the Developing Mammalian Palate  
*Major Professor:* Caleb Phillips

Roshan Thapa

*Dissertation:* Co-ordinated Mechanisms of Plasma Membrane Repair Responses Adopted by Mammalian Cells against Pore Forming Toxins  
*Major Professor:* Peter Keyel

## BUSINESS ADMINISTRATION

Scott Edward Hawkins

*Dissertation:* Management Accounting and Control: The Role of Ethical Reasoning, Goals, Climate, and Moral Disengagement on Unethical Behavior  
*Major Professor:* Gary Fleischman

## CHEMICAL ENGINEERING

Pedro E. Gonzalez Cruz

*Dissertation:* Repurposing Allergen-free Pollen Grains for Oral Vaccination: Microparticle Development, Mucoadhesive Properties, and Anthrax-vaccine Efficacy  
*Major Professor:* Harvinder Gill

I-Min Hsieh

*Dissertation:* Mitigation and Mechanism of Fouling and Scaling in Membrane Distillation for Produced Water Treatment  
*Major Professor:* Mahdi Malmali

## GRADUATE CANDIDATES

Bosong Lin

*Dissertation:* Using Membrane Distillation for Desalination: Understanding Energy Efficiency and Fluid Dynamics in the Spacer-filled Channel  
*Major Professor:* Mahdi Malmali

Michael David Sees

*Dissertation:* Advances in Modeling Adsorption and Adsorption Processes  
*Major Professor:* Chau-Chyun Chen

Md Mezbah Uddin

*Dissertation:* Mechanical Characterization of Alginate Microgel Beads  
*Major Professor:* Siva Vanapalli

### CHEMISTRY

Reza Amani

*Dissertation:* Solid-state NMR Methods and Techniques to Characterize Large Membrane Protein Complexes  
*Major Professor:* Benjamin Wylie

Vanessa Rae Charles

*Dissertation:* The Synthesis and Characterization of Metal Nanoparticles Using the Sol-Gel Epoxide-Addition Method with the Aid of Amide Structural Directing Agents in Tuning Morphological Features  
*Major Professor:* Louisa Hope-Weeks

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*Dissertation:* Biologically-active Natural Products from *Synadenium grantii* and *Withania obtusifolia*  
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### CIVIL ENGINEERING

Farhang Forghanparast

*Dissertation:* Machine Learning Methods for Modeling Streamflow in Intermittent Rivers and Ephemeral Streams  
*Major Professor:* Venky Shankar

Behnaz Jalili Jalalieh

*Dissertation:* Novel Reactors for Biological Treatment of High Strength Nitrogen and Carbon Wastewater  
*Major Professor:* Andrew Jackson

Kaylin Shea McDermott

*Dissertation:* Investigating PFAS Fate and Transport: Passive Sampling, Plan Uptake, and Trophic Transfer  
*Major Professor:* Andrew Jackson

Marzieh Shojaei

*Dissertation:* Quantification, Transformation and Recovery of Per and Poly Fluoroalkyl Substances (PFAS) during In Situ Treatment of Impacted Soils  
*Major Professor:* Jennifer Guelfo

### COMPUTER SCIENCE

Supadchaya Puangpontip

*Dissertation:* Bringing Energy into Data Analytics with Deep Learning: Modeling Energy Consumption and Measuring Uncertainty for Data Reliability  
*Major Professor:* Rattikorn Hewett

### COUNSELING PSYCHOLOGY

David Winograd

*Dissertation:* Work Family Conflict and Satisfaction in Work and Family Domains: The Moderating Role of Personal Growth Initiative  
*Major Professor:* Christine Robitschek

### COUNSELOR EDUCATION

Lori Kay Hollingsworth

*Dissertation:* Professional Counseling Conferences: Influence on Professional Identity of Counselor Education Doctoral Students  
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Diana Lynn Monsour

*Dissertation:* Co-occurring Substance Use Disorders and Eating Disorders: Experiences of Individuals in Recovery  
*Major Professor:* Loretta Bradley

Kumudu M. Witanapathirana

*Dissertation:* The Cultural Aspects of Grief Experiences Among Sri Lankans: A Phenomenological Study  
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### COUPLE, MARRIAGE, AND FAMILY THERAPY

Jared Mark Hawkins

*Dissertation:* A Phenomenological Analysis of Emerging Adults' Multiple Senses of Community  
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Ethan Ryan Jones

*Dissertation:* The Role of Spirituality in Black Couples' Relationship Satisfaction  
*Major Professor:* Carissa D'Aniello

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*Dissertation:* The Lived Experience of Functionality in Families with a Child Diagnosed with Autism Spectrum Disorder: An Interpretive Phenomenological Analysis  
*Major Professor:* Kristy Soloski

### CURRICULUM AND INSTRUCTION

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*Dissertation:* Teaching for Inclusion in Racialized America: A Multiple Case Study Using Culturally Responsive Pedagogy to Reach Antiracism in Secondary STEM Classrooms  
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*Dissertation:* The Family Literacy Interactions of Muslim Immigrant Mothers and Daughters as Revealed through a Symbolic Interactionism-Multiliteracies Framework  
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*Dissertation:* Science Capital: Where it Started, How it Relates to a Student's Performance, and Use in the Classroom  
*Major Professor:* Shirley M. Matteson

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*Dissertation:* Our Lucha Unites Us...and Our Cotidiano Reflects That: Studying Mujerista Literacies with Bilingual Teacher Alumni's Trenza Cotidiana Testimonios on passing the TExES 391  
*Major Professor:* René Saldaña

Zachary R. Urquhart

*Dissertation:* White Folks Walking: Exploring Bishop's Invitation into Diverse Books through Poetic Inquiry  
*Major Professor:* René Saldaña

### EDUCATIONAL LEADERSHIP

Alyssa Cervantes Benavides

*Dissertation:* Empowered Nepantleras: Borderland Latina Graduates' Perceptions of Effective Institutional Support from their Four-year Hispanic-serving Institutions  
*Major Professor:* Fernando Valle

Ramon Benavides, Jr.

*Dissertation:* Teacher Leadership in the Borderlands: An Autoethnography of a Science Teacher Leader's Evolutionary Process  
*Major Professor:* Fernando Valle

Andrea Nicole Moreno Juarez

*Dissertation:* Creating Equity in Texas Schools: A Qualitative Exploration of the Texas Equity Toolkit Policy  
*Major Professor:* Vanessa De Leon

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Zachary Lyle Stickley

*Dissertation:* Challenging the Two-for-One Assumption: A Novel Implementation of the Two-Method Planned Missing Data Design  
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*Dissertation:* A Monte Carlo Simulation on the Propensity Score Weighting with Principal Component Scores  
*Major Professor:* Jaehoon Lee

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### ELECTRICAL ENGINEERING

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*Dissertation:* Deep Learning for Smart Grid Applications

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*Dissertation:* Modeling of Non-linear Transmission Line Topologies as High-power Microwave Sources

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*Dissertation:* Smart Grid Energy Management: Blockchain-based P2P Energy Trading and Reinforcement Learning-based EV Charging

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*Major Professor:* Elissa Zellinger

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*Major Professors:* Jaclyn Cañas-Carrell and Paola Prada-Tiedemann

### EXERCISE PHYSIOLOGY

Luke D. Chowning

*Dissertation:* System and Joint Mechanical Differences Between Countermovement Vertical Jumps and Loaded Jumps

*Major Professor:* John Harry

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*Dissertation:* It's Kind of a Funny Story: A Narrative Intervention for Depression

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*Dissertation:* Green After Operating a Machine: Assessing the Impact of Varying Operator Task Demands on Attention Restoration

*Major Professors:* Martina Klein and Eric Greenlee

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*Dissertation:* Are You Aware? Role of Meta-awareness and Free-moving Thoughts in Mental Flexibility after Mindfulness Meditation

*Major Professor:* Miranda Scolari

### FAMILY AND CONSUMER SCIENCES EDUCATION

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*Dissertation:* Factors that Motivate the Interest of Parents and Unpaid Caregivers in Child Passenger Safety

*Major Professor:* Karen Alexander

Twyla D. Hough

*Dissertation:* Career and Education Planning as Experienced by Young Black Women in West Texas

*Major Professor:* Karen Alexander

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Alicia B. Caicedo-Cavazos

*Dissertation:* Health Information in NASM Accredited U.S. University Music Programs: Perceptions among Music Administrators, Piano Faculty, and Piano Students Regarding Available Resources and Assistance

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Deepika Dhiman

*Dissertation:* Using Autoethnography and Visual Storytelling to Examine How Identity is Informed by Social Normative Behavior in India and the United States

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*Dissertation:* Danza Assemblage: Prayerfully Dancing Spiritual & Cultural Mestizaje Identities

*Major Professor:* Andrew Gibb

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*Dissertation:* The Political Implementation of Title IX: How the Social Context Crafted by Title IX is Shaping Due Process in U.S. Higher Education

*Major Professor:* Valerie Paton

Thaddeus John Mantaro

*Dissertation:* Wellbeing Leadership in Higher Education: A Collective Case Study of Chief Wellness Officers

*Major Professor:* Valerie Paton

Luis Oscar Rohena

*Dissertation:* Uniformed Services University (USU) Enlisted to Medical Degree Preparatory Program (EMDP2): Predictive Factors of Student Success

*Major Professor:* Valerie Paton

William Adam Watkins

*Dissertation:* Game Development Program Women Graduates: Perceptions of Influential Factors and Faculty Behaviors that Influenced Success

*Major Professor:* Valerie Paton

### HIGHER EDUCATION RESEARCH

LaTricia Lee Phillips

*Dissertation:* Exploration of Black Student Veterans' Experiences at a Public Historically Black College and University: Civilian Transition to University Life

*Major Professor:* Valerie Paton

David Villarreal

*Dissertation:* Influences of Latino Male Military Veterans' Fluid Identity on Academic Path in Higher Education

*Major Professor:* Hugo Garcia

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Gretchen Fae Williams

*Dissertation:* "No somos gitanos": Cracking the Code of the Kale Blacksmiths of Early Modern Triana

*Major Professor:* Aliza Wong

### HUMAN DEVELOPMENT AND FAMILY SCIENCES

Christine Tuden Neugebauer

*Dissertation:* Examining the Emergence of Mother-Infant Synchrony in the NICU Context

*Major Professor:* Ann Mastergeorge

### LAND-USE PLANNING, MANAGEMENT, AND DESIGN

Milad Fereshtehnezhad

*Dissertation:* Employing Interdisciplinary Metrics for Measuring and Improving Equity in the Design of Public Urban Spaces: A Methodological Proof of Concept for Two Landscape Urbanist and New Urbanist Case Studies in Austin, TX

*Major Professor:* Hazem Rashed-Ali



## GRADUATE CANDIDATES

### MECHANICAL ENGINEERING

Rabin Dhakal

*Dissertation:* Wind Speed Prediction using Classical Time Series and Machine Learning Models: A Comparative Analysis

*Major Professor:* Hanna Moussa

Doruk Isik

*Dissertation:* Accuracy and Stability of Smoothed Particle Hydrodynamics in Fluid-structure Interaction Problems

*Major Professor:* Zhaoming He

Lin Lin

*Dissertation:* The Macro Stress Determination of Ultra-highly Strained Materials

*Major Professor:* Yanzhang Ma

Jeremy Keith Rogers

*Dissertation:* Understanding Piezoresistive Soft Composites as Applied to Multi-directional Tactile Sensing Arrays

*Major Professor:* Burak Aksak

Nayem Mohammed Reza Shah

*Dissertation:* Effect of Strain and Temperature on the Magnetic, Electronic, and Transport Properties of Nickel Oxide (NiO)

*Major Professor:* Changdong Yeo

Quan Tien Tran

*Dissertation:* Combustibility and Reactivity: A Diagnostic to Characterize Metal Fuel Oxidation

*Major Professor:* Michelle Pantoya

Alan Michael Williams

*Dissertation:* Advances on Stress-altered Aluminum Particle Combustion and Improvement of Reactive Projectiles

*Major Professor:* Michelle Pantoya

### MEDIA AND COMMUNICATION

Koji Brandon Yoshimura

*Dissertation:* The Role of Perceived Narrative Ambiguity in the Reception of Antihero Narratives

*Major Professor:* Glenn Cummins

### NUTRITIONAL SCIENCES

Mahsa Yavari

*Dissertation:* Metabolic and Central Effects of High Fat Diet and Fish Oil in an Amyloidogenic Mouse Model of Alzheimer's Disease

*Major Professor:* Naima Moustaid-Moussa

### PERSONAL FINANCIAL PLANNING

Matthew Leonel Jaramillo

*Dissertation:* Three Essays on Risk Willingness

*Major Professor:* Donald Lacombe

### PETROLEUM ENGINEERING

Olabode Thomas Ajibola

*Dissertation:* Reservoir Pressure Gradient Trend Prediction for the Potash Area of Delaware Basin Using Artificial Neural Network and Geophysical Log Cross Sections

*Major Professor:* James Sheng

Nelson Rufin Kuete Tatsipie

*Dissertation:* Asset Development and Sweet Spot Identification in Unconventional Reservoirs Using Machine Learning Approaches

*Major Professor:* James Sheng

### PHYSICS

Ishtiaque Ahmed

*Dissertation:* Fabrication of Sub-50 nm-Scale Subwavelength Gratings for High-density Silicon Photonics Integration

*Major Professor:* Sangsik Kim

Leopoldo Diaz III

*Dissertation:* First-Principles Study of Transition Metal Surfaces

*Major Professor:* Mahdi Sanati

Maik Reddiger

*Dissertation:* Towards a Probabilistic Foundation for Non-relativistic and Relativistic Quantum Theory

*Major Professor:* William Poirier

### PLANT AND SOIL SCIENCE

Amee Robin Bumguardner

*Dissertation:* Optimizing Fertilizer Management and Irrigation in Cotton Cropping Systems

*Major Professor:* Katie Lewis

Atinderpal Singh

*Dissertation:* Understanding Root Zone Soil Water Dynamics to Improve Root Water Uptake in Semi-Arid Cotton Systems

*Major Professor:* Sanjit Deb

Manpreet Singh

*Dissertation:* Biochar Effects on Soil Properties and Sweet Corn Production under Deficit Irrigation in a Semi-arid Environment

*Major Professor:* Sukhbir Singh

Cheng-Jung Sung

*Dissertation:* Geonomic and Economic Study for Improvement of Peanut Water Deficit Stress Tolerance

*Major Professor:* Mark Burow

Addisu Ferede Tesema

*Dissertation:* Enhancing the Marketability of U.S. Cotton through Fiber Length Distribution Improvement

*Major Professors:* Eric Hequet and Brendan Kelly

Amanda Jo Zimmerman

*Dissertation:* Speciation and Bioaccessibility of Arsenic in Drinking Water Filtration Waste: Environmental Implications for Soils and Human Health

*Major Professor:* Matthew Siebecker

### POLITICAL SCIENCE

Justin Michael Carter

*Dissertation:* Silver and Dowry Twenty Years On: Ethnic Disaggregation, Civil Society, Trust in Government, and Protest - A Comparative Political Analysis of 40 Ethnically Heterogeneous States

*Major Professor:* Frank Thames

### SPANISH

Jasmin G Euceda Torres

*Dissertation:* La pedofilia en el inconsciente del varón hispanoamericano a través de algunos autores

*Major Professor:* Genaro Pérez

### SPECIAL EDUCATION

Cyndi Shaneé Blount O'Toole

*Dissertation:* Examining the Impact of a Virtual Parent Training for Parents who have Children with Autism Spectrum Disorder

*Major Professor:* Jennifer Hamrick

Judy Karen Thetford

*Dissertation:* An Evaluation of Texas Secondary Special Education Professionals Perceptions Teaching Transition Skills to Individuals with Low Incidence Disabilities

*Major Professor:* Janna Brendle

### SYSTEMS AND ENGINEERING MANAGEMENT

Ramy Ismail Hindiye

*Dissertation:* Identifying Critical Process and Outcome-related Team Performance Antecedents that Characterize Overall Team Performance

*Major Professor:* Jennifer Cross

### TECHNICAL COMMUNICATION AND RHETORIC

Danielle Lyn Feldman Karr

*Dissertation:* The Case for Care: Applying Dynamic Care Thinking to Ethical Concerns in TPC

*Major Professor:* Steve Holmes

Marlene Galván

*Dissertation:* Decolonial Rhetoric in Texas Borderland Gardens

*Major Professor:* Beau Pihlaja

Hugh Pressley

*Dissertation:* Google's Classroom: (Marginalization), Rhetoric, Technology, and a Pandemic at a Title I High School

*Major Professor:* Jason Tham

David Christopher Ryan

*Dissertation:* Homer and the Art of Performative Technical Communication

*Major Professor:* Rich Rice

## GRADUATE CANDIDATES

### WIND SCIENCE AND ENGINEERING

Jinghui Huang

*Dissertation:* Assessment of Inelastic Performance of Wind-excited Tall Buildings with Effects of Biaxial Interaction, Degradation, P-Delta, and Uncertainty

*Major Professor:* Xinzhong Chen

Yanchi Wu

*Dissertation:* Extraction of Self-excited Forces and the Prediction of Aerodynamic Instability and Response of Wind-excited Flexible Structures

*Major Professor:* Xinzhong Chen

### MASTER OF AGRIBUSINESS

Steven Andres Rios

### MASTER OF ARCHITECTURE

#### ARCHITECTURE PROFESSIONAL

Haley Cooper

Aida Mohamed Ejroushi

David Gabriel Martinez

Edwin Montoya-Cruz

Robert Matthew Stevens

Travis Levi Whitehead

### MASTER OF ART EDUCATION

Cody Russell Beetler

### MASTER OF ARTS

#### ART HISTORY

Faith Sears

*Thesis:* Robert Filliou's Poetical Economy & Post War Spectacular City in the Context of Fourier's Revival

#### ECONOMICS

Umesh Gautam

#### ENGLISH

Aaron Bailin Albertson

Shannon E. Cearley

Winona Regina Doubrava

Brianna Marie Mitchelson

*Thesis:* The Deep and Savage Way: The Guidance of Charles Williams to C.S. Lewis and T.S. Eliot in Pivotal Post-War Depictions of Evil

#### EXPERIMENTAL PSYCHOLOGY

Irina Lavrova

### HERITAGE AND MUSEUM SCIENCES

Lama Abdullah S. Albasri

Kelsey Laurel Barnett

Lucchese Hamilton

Mattie Lea Sparks

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### HISTORY

Samuel Noah Easley

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*Thesis:* The Men of Echelon One: Comparative Analysis of Company Aid-Men in Pacific and European Theaters of World War II

### INTERDISCIPLINARY STUDIES

Kennedy Jewel Adams

Kari Dawn Barrow

Angela Danielle Contreras

Jaime Leigh Devenport

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Micah Benjamin Jimenez

Sydney Kaplin Manchester

Michelle Ann Morris

Shikha Neupane

Whitney Marie Nichols

*Thesis:* A Uses and Gratifications Approach to Travel Information Utilization: A Generational and Gender Analysis

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Anthony John Rodriguez

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Gracie Smith

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Zhidi Chong

*Thesis:* An Analysis of Doxastic Morality

Edward Oudanoh

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*Thesis:* Reformulating the Philosophy of Creativity: Expression and Generation of Non-standard Ideas within a Social Context

### POLITICAL SCIENCE

Dipak Banjade

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Chidera Azubike

Sarah Elizabeth Hirsch

Cody Lee Meyer

*Thesis:* Associations Between Loneliness, Emotion Dysregulation, and Hookup Behaviors During COVID-19

Katlin Moffis

Crystal E. Mylls

Mikaela R. Trussell

*Thesis:* The Effect of School-Based Sex Education and Pornography Consumption on Rape Myth Acceptance

Hannah B. Yoo

### SOCIOLOGY

Md Golam Rabbani

*Thesis:* Explaining the Victim-Offender Overlap of Cyberbullying Perpetration and Cyberbullying Victimization

Md Shahriar Sabuz

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### STRATEGIC COMMUNICATION AND INNOVATION

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Huimin Liu Backry  
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Allyssia Turton  
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Denise Villalobos  
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Jacquelin Ann Walsh  
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Carlos Manrique Perez  
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Rebecca Mooney Singley  
Jon Conor Vandygriff  
Leslie Michelle Vorndran

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Haley C. Davis  
Ashtyn M. Elder

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Artem Kapshuk  
Kayla C. Tucker

#### INSTRUCTIONAL TECHNOLOGY

Jonnica Danielle Heater

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Chika Crystal Asomugha  
Gail Catherine Avey  
Misti Ree Brock  
Andre Castro, Sr.  
Brigit Ann Coufal  
Kayla Jean Driscoll  
Audrea Esparza  
Kristen Taylor Nicole Franco  
Vianney Franco  
Clara R. Garcia  
Michella Janece Henry  
Audrey Kelley  
Elizabeth Rayna Lewis  
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Kimberly Dawn Maldonado  
Vanessa Kay McEligot  
Carrie McKeever  
Catherine A. Morris  
Raquel Guzman Mungia



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Christal Nicole Suson  
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Sunshine Corliss Valdilles  
Martha Y. Villegas De Oliver  
Ashley N. White  
Natalie Grassell Wise  
Ashley Nicole Yarwood

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Tara Marie Hinds  
Ghazal Jabarian Doraji  
Rajesh Kantumutchu  
Anusha Lepakshi  
Darshan Mattam Ramesh Reddy  
Ashwini Shrikrishna Mujumdar  
Melissa K. Negroni  
Yajaira Lizbeth Ramirez

### MASTER OF FINE ARTS

#### THEATRE ARTS

Jamison Driskill  
Rachel Anne Phillips

### MASTER OF MUSIC

Miri Park

### MASTER OF MUSIC EDUCATION

Claire Averi Entrekin  
Sylvia Nell Garza  
*Thesis:* From Moratorium to Auditorium: A Case Study of the Latino Immigrant/Undocumented Student in Secondary Music Education

### MASTER OF PUBLIC ADMINISTRATION

Robert Michael Barron II  
David Jacob Beller  
Douglas Anders Braches  
Chad A. Donnelly  
Leanne Draus  
Crystal Dynette Owens  
Austin Henry Piccolo  
Edith Berenice Ruiz  
Melanie Lynne Teague

### MASTER OF SCIENCE

#### AGRICULTURAL AND APPLIED ECONOMICS

Chanceuse Twagirimana  
*Thesis:* Possible Impacts of Cannabis Legalization on Taxation and Unemployment

#### AGRICULTURAL COMMUNICATIONS

Sierra Rene Day  
Teia Arlene Decarlo  
Kendall Ann Harshman  
Daniel Elisara Helsham  
Shelby Elizabeth Shank  
*Thesis:* A Phenomenological Investigation of Trust and Transparency Among Agricultural Influencers on Instagram

#### AGRICULTURAL EDUCATION

Mallory Fulmer Hall  
Larissa Michelle López

#### ANIMAL SCIENCE

Nancy Fabiola Acevedo León  
*Thesis:* Validation and Application of a Survey of On-Farm Spanish-Speaking Workers' Attitudes Towards Pig Euthanasia  
Hannah Elizabeth Cox  
Ashley Annette Hoffman  
*Thesis:* Management Strategies to Decrease Anti-microbial use and Liver Abscesses in Growing and Finishing Beef Cattle  
Deanna Marie Langenkamp  
*Thesis:* Effects of a Nutraceutical Blend and Major Protein and Fat Source on Health, Performance, and Apparent Nutrient Digestibility in Holstein Calves fed a Component-based Milk Formula  
Alejandra Massiel Lopez  
*Thesis:* Effects of Dietary Microbial Inoculants on Beef Cattle Feedlot Growth Performance and Carcass Traits, Apparent Nutrient Digestibility and Ruminant Characteristics  
Camron Joseph Rush  
*Thesis:* Strategic Feeding of a Direct-fed Microbial and Vitamin/Mineral Complex to Feedlot Cattle-calf-fed System  
John Chandler Sarchet  
*Thesis:* Evaluating the Ability of Rapid Evaporative Ionization Mass Spectrometry to Predict the Palatability of Long Aged Beef Cuts

#### ATMOSPHERIC SCIENCE

Hassanpreet Kaur Dhaliwal  
*Thesis:* Effect of Soot and Coal Fly Ash Particles on Human Lung Cells  
Jilliann Arlene Dufort  
*Thesis:* Improving the Short-Term Forecast Accuracy of Heavy Precipitation Events Using Time-Lagged Ensembles

### BIOENGINEERING

Mary Temitope Adepoju  
Ivan Elias Aguilar  
Raegan Bayleigh Conklin  
Ryan Andrew Davis

### BIOLOGY

Adrienne Stinson Dale  
*Thesis:* Movement Ecology of the Black Flying Fox (*Pteropus alecto*) in a Changing Landscape: Implications for Hendra Virus Spillover in Eastern Australia  
Samantha Noelle Garcia  
Danielle M. Husband  
*Thesis:* Odonate Assemblages of Four Wetland Types Varying in Salinity, Hydroperiod, and Water Chemistry in the Texas Panhandle  
Taiwo Oluwatobiloba Osoko  
*Thesis:* The Impact of Biochar on Soil Health and Cotton Yield in an Irrigated and Non-Irrigated Cropland in West Texas

### BIOTECHNOLOGY

Adedeji Daniel Ogunyemi

### COMPUTER SCIENCE

Neha Makarand Abhyankar  
Sai Durga Lakshmi Sadhana Adivi  
Burusoethman Ahiladas  
Viswanth Boyina  
Cristiano Eleutherio Caon  
*Thesis:* Effective Management of Time Series Data  
RaviKumar Chennupati  
Prastab Dhakal  
*Thesis:* Detecting COVID-19 Effectively With Transformers and CNN-Based Deep Learning Mechanisms  
Teja Gandham  
Justin Kalib Holmes  
Sai Prasanth Kumar Kesa  
Laxman Kishore Koppiseti  
P. Shiva Kumar  
Lawzeem Latif  
*Thesis:* Preventing User Radicalization by Automatically Detecting Misinformation Videos  
Chang Liu  
Jagadeesh Maddineni  
Rashmi Mamidi  
Nava Karthik Reddy Marri  
Kuldip Maurya  
Pulla Rao Mundru  
Vandana Priya Muppala  
Aarij Majid Nadroo  
Jagadeesh Nallani  
Ramyasri Nallani  
Sreshta Nelluri  
Oluwabusayo Oluwakanyinsola Oyekanmi  
Bipsa Paka  
Srija Pullakhandam  
Praveen Sappidi  
Akshay Kumar Singh  
Haneesha Reddy Tamma

## GRADUATE CANDIDATES

Vidya Reddy Vanga  
Mohammad Wasiuddin  
Siva Chandu Yadam

### COUPLE, MARRIAGE, AND FAMILY THERAPY

Mia Socorro Garcia

### DATA SCIENCE

Stephen Anthony Martin

### ENVIRONMENTAL DESIGN

Farzane Omid

### ENVIRONMENTAL TOXICOLOGY

Anna Sophia Longwell  
*Thesis:* An Evaluation of the Chronic Oral Toxicity of Fomtec Enviro USP, a Fluorine-Free Firefighting Foam, to Northern Bobwhite Quail (*Colinus virginianus*)

### FAMILY AND CONSUMER SCIENCES EDUCATION

Cayla Marie Young

### FOOD SCIENCE

Emily N. Delgado  
*Thesis:* Optimization of the PathogenDx Microarray for the Detection of *E. coli* O157:H7 and *Salmonella* in Ground Beef  
Reagan Lynne Jiménez  
*Thesis:* Validation of Novel Approaches for Physical and Chemical Interventions to Control Pathogens in Commercial and Simulated Meat Operations

### FORENSIC SCIENCE

Kaitlyn M. Haddock  
Ryan Isaiah Thompson  
*Thesis:* Evaluating the Impact of Environmental Conditions on the Cocaine Odorant Methyl Benzoate  
Katherine Claire Titus

### GEOGRAPHY

Mason Ryan Jones

### GEOSCIENCES

Kara McKenzie Naegeli

### HORTICULTURE SCIENCE

Holly Kristine Bergan  
Danielle Louise Browne  
Shelby Nicole Crysler  
Grant R. Gerald  
Chagal Lopez Marciano  
Jessica Nazario Murphy  
Makenzie Salyer

### HOSPITALITY AND RETAIL MANAGEMENT

Leigha Noel Freeman  
David Alexander Gonzales  
Peri Raine Jacobs  
Skye Eliza Knapen  
Loretta Ohenewaa Koranteng  
Joshua Gregory Misenhimer  
Sarah Elizabeth Vecera-King  
Xiangyu Weng  
Madison Leigh Wilkinson

### HUMAN DEVELOPMENT AND FAMILY SCIENCES

Allison Sylestine Poncho  
Audrey June Sebald  
Cynthia Torres-Sesmas

### INTERDISCIPLINARY STUDIES

Dilip Kumar Allaboina  
Jeremy Drayton Angenend  
Jace Allen Hassoldt  
Cody Ty Lyon  
Noel Henry Reese  
Aneesa Scott  
Thomas Sikes  
Amanda Clear Sykora  
Maria Lisa Valdez

### KINESIOLOGY

Daniel Scherrer

### MARKETING RESEARCH AND ANALYTICS

Tanya Nichole Teske

### MATHEMATICS

Md Mahmudul Bari Hridoy

### MICROBIOLOGY

Olivia Rae Austin  
Garrett Patrick Huddleston  
*Thesis:* Trichoderma and Fusarium Dynamics in Semi-arid West Texas Cotton Production Systems  
Alejandra Jacquez  
*Thesis:* Assessment of Microbial Communities on the Skin and in the Gut of the Gulf Killifish (*Fundulus grandis*) Exposed to Polycyclic Aromatic Hydrocarbons Associated with the Deepwater Horizon Oil Spill

### NUTRITION AND DIETETICS

Alejandra Frida Amezola-Velazquez  
Emily Allen Barrett  
Brienne Marie Bartels  
Courtney Renee Betsill  
Lauren Kathryn Binnig  
Natalie Kae Brenneman  
Kelsi Nicole Buckley  
Faith Elizabeth Burls Henderson  
Shin Shan Cho  
Tara B. Cook  
Cynthia Suzanne Davis  
Courtney Elizabeth Depa

Karina Paola Estrada  
Abigail Catherine Fletcher  
Nichole Ashley Heppner  
Gentry Rae Hicks  
Alexandria Leigh Huerta  
Luis A. Ledezma Loa  
Alexis Lauren Lopez  
Trenidad Lopez  
Shannon Leigh Martin  
Ana Laura Martinez Perales  
Mary Constance McCullough  
Alleigh Netz  
Lizette B. Ortiz  
Kamryn Blayre Phares  
Jessie Rike  
Savannah Christeen Rostetter  
Cameron Marie Schell  
Madeline Paige Sessions  
Isabelle Ruth Shamblyn  
Kyler A. Torres  
Rachael Marie Veith-Rossetti

### NUTRITIONAL SCIENCES

Tanisha Basu  
*Thesis:* Effect of a Novel Alternate Day Intermittent Energy Restriction Intervention vs. Standard Reduced Calorie Diet on Body Weight, Body Composition, and Resting Metabolic Rate in College Students with Overweight/Obesity: A Pilot Study  
Carolina Garcia  
*Thesis:* Food Security Status, Consumer Food Behavior and Mobility among Seniors in Lubbock County during COVID-19

### PERSONAL FINANCIAL PLANNING

Ferdous Ahmmed  
Jakob P. Brost  
Elise Kathleen Butler  
Brian Wade Knox  
Ashley McWhorter  
Jerry T. Trevino, Sr.  
Emily Noelle Wade

### PHYSICS

Aaron M. Mankel

### PLANT AND SOIL SCIENCE

Payton Lane Barbarito Martinez  
Maliha Marzana  
*Thesis:* FTIR Microspectroscopy as a Tool to Investigate the Origin of Seed Coat Fragment Generation and its Dependency on Cotton Cultivars  
Savannah York  
*Thesis:* The Influence of Selenium on: Selenium Uptake, Salt Stress, and Fluoxetine Uptake in Hydroponically Produced Indian Mustard (*Brassica juncea* cv. Red Giant)

## SPORT MANAGEMENT

Colin M. Clark  
 Laura N. Gentolizo  
 Antonio Gonzalez  
 Brett Michael Lobsinger  
 Christopher Blake McAbee  
 Carrington Rebekah Ream  
 Emily Joy Rice  
 Tatum Leigh Veitenheimer  
 Summer Emily White

## STATISTICS

Naima Alam  
 Ram D. Joshi  
 Md Saiful Islam Saif

## WILDLIFE, AQUATIC, AND WILDLANDS SCIENCE AND MANAGEMENT

Jacob George Harvey  
*Thesis:* Landscape Use and Activity Patterns of Feral Swine on Rangelands in North Texas  
 Cindi M. Hazelton  
*Thesis:* Consequences of *Cenchrus ciliaris* Invasion on Native Vegetation and Competition with Native Species in Semi-Arid Rangelands of South Texas  
 Kristin L. Kabat  
*Thesis:* Assessing Environmental DNA as a Detection Method for the Dunes Sagebrush Lizard (*Sceloporus arenicolus*)  
 Bailey Andrew Robertory  
*Thesis:* Effects of Invasive Piscivorous Brown Trout (*Salmo trutta*) on Native Fish Populations of the Jemez River, New Mexico  
 Jacob T. Wright

## MASTER OF SCIENCE IN ARCHITECTURE

### ARCHITECTURE POST-PROFESSIONAL

Laura Torres Mata  
*Thesis:* Preserving South El Paso Street, El Paso, Texas  
 Niloofar Zolghadrasli  
*Thesis:* Generating a Planned Community Based on an Unplanned Historic Village through Shape Grammar Methodology

## MASTER OF SCIENCE IN CHEMICAL ENGINEERING

Negar Shaghaghi  
 Siamoon Shah

## MASTER OF SCIENCE IN CIVIL ENGINEERING

Robert Adams III  
 Kushal Adhikari  
 Aashish Aryal  
 Kunal Bhausheb Autade  
 Vinod Kumar Bellam  
 Saroj Deuja  
 Bibek Ghimire  
 Fnu Muntasir  
 Raghavan Nagarajan  
 Sharmila Poranki  
 Luis Carlos Soares Da Silva Junior

## MASTER OF SCIENCE IN ELECTRICAL ENGINEERING

Afshin Balal  
 Roshan Barnwal  
 Muhammad Bilal  
 Nicholas Calvin Harrison  
*Thesis:* Design and Characterization of an Explosive Opening Switch for Flux Compression Generator Applications  
 Miguel Angel Herrera  
 Treya Smith Houston  
 Yang Liu  
*Thesis:* An Optimized Noncontact Vital Signs (NCVS) System for Potential Patient Monitoring Enabled by Robust Software Defined Radio (SDR)  
 Chibueze Henry Nkwo  
 Arjun Reddy Peereddy

## MASTER OF SCIENCE IN ENVIRONMENTAL ENGINEERING

Mauricio Daniel Gonzales  
 Alyssa Jovianne Mungaia

## MASTER OF SCIENCE IN INDUSTRIAL ENGINEERING

Chetan Dhananjay Bherde  
 David M. Booth  
 Rutvik Jitendra Deshpande  
 Chiranjeevi Devaraj  
 Samarth Gurudatt Gaikwad  
 Nitish Prasad Kulkarni  
 Breana Leal  
 Christopher M. McDermott  
 Daniel Steve Obando Jaimes  
 Ayobami Samson Odumuyiwa  
 Dhruv Paresh Patel  
 Sujit Tilakraj Thakur  
 Pavithran Venkataraman

## MASTER OF SCIENCE IN MECHANICAL ENGINEERING

Andrew Thomas Gansen  
 Aditi Kadam  
 Kolawole Lamidi  
*Thesis:* Patient Tracking Intravenous Pole: Design and Evaluation  
 Riley J. Nicks  
 Md Shah Rumman Ansary Rezvy  
 Jeremy Keith Rogers  
 Muhammad Waleed Saleem  
 Kamrynn Elizabeth Schiller  
 Randy Bryan Tudor Ardaya  
 Jonathan Matthew Walker  
 Yafeng Wang  
 Kyle Marshall Webb

## MASTER OF SCIENCE IN PETROLEUM ENGINEERING

Murray John Dighans, Jr.  
 Godfried Martinson Duodu  
 Suman Khanal  
 Nitin Kulkarni  
 Adomako Nyantekyi-Boahene  
 Nicolas Vargas Gutierrez

## MASTER OF SCIENCE IN SOFTWARE ENGINEERING

Joshua Ball  
 Grant Dean Henderson  
 Naga Mrudhula Chowdary Koya

## MASTER OF SCIENCE IN SYSTEMS AND ENGINEERING MANAGEMENT

Igbagbosanmi John Bamidele  
 Forest Kingfisher  
 Olivia Grace Owens

## PROFESSIONAL SCIENCE MASTERS

### ENVIRONMENTAL SUSTAINABILITY AND NATURAL RESOURCES MANAGEMENT

Clinton R. Carter  
 Royce Brenton Dunn  
 Marche' Aiko Vilorio Matsumura  
 Matthew Trae Moore



# CANDIDATES FOR UNDERGRADUATE DEGREES

The **bachelor's degree** represents completion of a four-year course of college-level study and is the oldest academic degree awarded by American institutions of higher learning.

**Graduation with Honors** is a distinction that is noted on diplomas and transcripts and receives special recognition at graduation ceremonies. Undergraduates who complete their work with a cumulative grade point average of 3.9 or above are graduated *Summa Cum Laude*; 3.7 to 3.89, *Magna Cum Laude*; 3.5 to 3.69, *Cum Laude*. Those who graduate from the Honors College after acquiring 24 Honors credit hours graduate "with Honors." Those who also complete an Honors thesis or project consisting of six additional hours graduate "with Highest Honors."



TEXAS TECH UNIVERSITY  
Agricultural Sciences & Natural Resources  
**Davis College**

## BACHELOR OF SCIENCE

### AGRIBUSINESS

Sterling Guy Friedrich  
Joseph Samuel Hanson  
Jax Aiden Weaver<sup>2</sup>

### AGRICULTURAL AND APPLIED ECONOMICS

Holden Dunham Adams  
Riley Baker Branson  
Taylor Ashley Bryan  
Colton Cogdell  
Mychal Ross Fry  
Payton Cole Galloway  
Austin Edward Haynes<sup>2</sup>  
Zachary Hebbard<sup>2</sup>  
Bryson Russell High  
Everett Allen Hutchison  
Tara Lynn Lane  
Blake Andrew Matzke  
Samuel Tyson Means  
Dylan Ward Murphy  
Kendall Denice Nalls  
Ryan Zane Oldfield  
Mackenzie Oliver  
Colin Craig Pope  
Delbert Weston Reynolds<sup>1</sup>  
Presley Wade Ridley  
William Paterson Rose<sup>1</sup>  
Carson Guy Rush<sup>1</sup>  
Tanner D. Sarabia  
Cole Christian Schrodel  
Michael Andrew Schulz  
Sayer Nicole Senter<sup>1</sup>  
*2nd Degree: General Business*  
Carly Jane Scott  
Mason Ryon Shipp  
Brandon Michael Stanton  
Rachel Belle Wade<sup>2,4</sup>  
*2nd Degree: General Business*  
Gianna Francesca Watson<sup>2</sup>  
*2nd Degree: General Business*  
Calli Ann West  
*2nd Degree: General Business*  
Trey Davis Wolff

### AGRICULTURAL COMMUNICATIONS

Lane Bradley Cahill<sup>1</sup>  
Morgan Ashleigh Johnson<sup>1</sup>  
*2nd Degree: Public Relations and Strategic Communication Management*  
Sarah Ann Linnartz<sup>1</sup>  
Emily Reña Matthews<sup>2</sup>  
Hunter Rae Rankin<sup>1</sup>  
Kelsey Lynn Syra<sup>2</sup>

### AGRICULTURAL EDUCATION

Morgan Anne Byrd  
Jaydon Grant Chambliss  
Bryce Tanner Cluff  
Trace Garrett Edmiston  
Hannah Elizabeth Jarvis<sup>1</sup>  
Alexandra Nicole Salinas<sup>1</sup>

### ANIMAL SCIENCE

Kinley Denae Adams  
Krystal Nicole Almond  
Krista Marie Althaus  
Taylore Mary Elizabeth Ashton<sup>3</sup>  
Jacob Reid Bagby<sup>2</sup>  
Iris Belle Baker<sup>3</sup>  
Clara Louise Barrington  
Rebeka Lee Benoy  
Jessica Nicole Black  
Jaci Leigh Brown<sup>2</sup>  
Aleksander David Burr  
Autumn Wild Burris  
Kylie Oecia Campbell  
Vianett Guadalupe Campos  
Cyann-Marie Jolanda Kawaikualani Canyon<sup>3</sup>  
Tanya Gisselle Castillo  
Kindle Gail Catching<sup>2</sup>  
Nicholas David Charo  
Kathryn Marie Coker  
Marshall Stockton Conde  
Arliss Omega Corliss  
Gabriela Alejandra Cortes Roman  
Mackenzie Nicole Cranford<sup>3</sup>  
Frank Cruz III  
Emily Lynn Davis<sup>2</sup>  
Alyssa Renae De Sisto  
Rieken Douglas  
Riley Ann Durbin  
Morgan Alyssa Elsworth  
Ethan David Etheredge  
Jenna Lee Evans  
Madison Lynne Fanelli  
Lauryn Sydney-Lee Flores  
Alexandria Taylor Freyburger  
Bunker Sterling Funderburgh  
Emily Carson Gamble  
Dominique Destinee Guillory  
Cheyenne Skye Hamilton  
Amanda Joy Hansen  
John R. Harrell<sup>2</sup>  
Bailey Nicole Henning<sup>2</sup>  
Magen Clara Holt  
Samantha F. Indra  
Laura Lizzette Jimenez<sup>2</sup>  
Rachel Jones<sup>2,4</sup>  
Karlee Denae Jones  
Katherine Rose Juhl<sup>2</sup>  
Shelby Delphyne Kinsey  
Kaitlyn Aloisia Klvac  
Karisa Kruger-Baumgarten  
Madison Avery Leach

Champ Hudson Lee  
Kali Mabe<sup>3</sup>  
Taylor Faith Manske  
Mallory Maxine McKinney  
Rylie Rene Melancon  
Tatijana Lalinda Mirsky<sup>3</sup>  
Jared Alan Nall<sup>3</sup>  
Amber Megan Olivares  
Mikayla Rhae Owens  
Ashlyn Kate Partain<sup>1</sup>  
Sarah Danielle Peters<sup>2</sup>  
Bailey DeeAnn Proctor  
Sarah Elaine Rasberry  
Chesney Marie Reeves  
Shelby Ann Rhoden  
Madison Taylor Rigby  
Zachary Wayne Roush  
Cassidy Nicole Sasser  
Sheldon Chastant Shroyer<sup>3</sup>  
Danielle Grace Simon  
Rance Reed Smith  
Tracy Andrea Danea Smith  
Cade Mitchell Snethen  
Jordan Alicia Spakes  
Tyler J. Stedje  
Madison Lee Tafolla  
*2nd Major: Agricultural Education*  
Preston Coby Twilligear<sup>2</sup>  
Kaitlyn Dane't Van De Weert  
Sergio Andres Vasquez, Jr.  
Lexi Ann Wagner  
Cade McKane Waldrup  
Matthew Eric Walraven<sup>3,4</sup>  
Tara Leah Wegner  
Darbi Williams<sup>3</sup>  
Caitlin Elizabeth Woolley

### CONSERVATION LAW ENFORCEMENT

Cody Alan Kelch  
Seth Graham Wallace

### FOOD SCIENCE

Kaitlin Elizabeth McNeill

### NATURAL RESOURCES MANAGEMENT

Chase Monroe Bergeron  
Payton Matthew Brown<sup>1</sup>  
Carson Lane Cobb  
Katelyn Ann Elizabeth Conley  
Ethan Yalja Contreras  
Beighlee Christine Franks<sup>1</sup>  
Jackson Paul Harris<sup>3</sup>  
Jordan Alaine Heivilin  
Jennifer Elizabeth Hemmingway  
Jocelyn Alyse Hernandez  
Morgan Shey Herzik  
Taylor Christene Hughes  
Hunter Aaron Johnson  
Kaitlyn Ann Johnson<sup>1</sup>  
Tanner Cole Johnson<sup>3</sup>

<sup>1</sup>Summa Cum Laude <sup>2</sup>Magna Cum Laude <sup>3</sup>Cum Laude <sup>4</sup>With Honors <sup>5</sup>With Highest Honors

# UNDERGRADUATE CANDIDATES

Trevor Kantunda  
Joseph Quinn Ledgard  
Erin Eliza Lowenberg  
Cecilia R. Martinez  
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Derek Avery Ornelas  
Rosser Meeks Orr  
Andrew Joseph Parrish  
John Cole Rainer  
Alejandro Eligio Rivas  
Mikayla Lindsay Rojas  
Jared Theodore Salzman  
Amaris Danila Shammaa<sup>2</sup>  
Juan Miguel Solis  
Corbin Tyler Solt  
Ty Braiden Stice<sup>1,4</sup>  
Anna Stasia Torres  
Robert Gabriel Torres  
Ryan Clark Westbrook  
John Legier White  
Camden Jayce Wienecke  
Travis D. Wilkerson  
Eric Yen  
Blake Thomas Youngblood

## PLANT AND SOIL SCIENCE

Sam Gage Addison  
Daniela Nallely Alonzo Saucedo  
Erick Austin Barkowsky  
Esiquiel Pecos Boyd Bilger  
Amelia Josie Butler<sup>2</sup>  
Ruben Chaparro  
Jacquelyn Nichol Douglas<sup>2</sup>  
Garrett Lee Johnson  
Jorge Luis Mendoza  
Lauren Lee Milton  
Roland Rodriguez<sup>1</sup>  
Samantha Sanchez<sup>3</sup>  
Kassidy Ranitta Sawvell  
Sutton Charles Senter  
Joshua Lane Truelove  
Jessica Nicole Watson<sup>2</sup>  
William Joseph Windham  
Sarah Elizabeth Rose Yockey



TEXAS TECH UNIVERSITY  
Architecture

Huckabee College

## BACHELOR OF SCIENCE

Christian Main Colorado  
Tomas Cordoba Marin  
*2nd Degree: Civil Engineering*  
Diana De La Trinidad Anaya  
Diego Noel Diaz  
Holton M. Dickerson  
Ivan Espino-Nunez  
Pablo A. Garcia  
Richard M. Lindenmuth  
Lily M. McKay  
Calder M. McCarthy  
Apollo M. Nyoma  
Panashe M. Siachitema  
Dasha Alexie Velasquez



TEXAS TECH UNIVERSITY

College of Arts & Sciences

## BACHELOR OF ARTS

### ANTHROPOLOGY

Marisa Lynn Chapa  
*2nd Degree: General Studies*  
Victoria Paige Hernandez  
Abigail Nicole Kiesling<sup>2</sup>  
*2nd Major: Sociology*  
Brittany Koryn Lara<sup>2</sup>  
Chloe' Elise Pruitt  
Jorge Luis Salas Sifuentes  
Abigail Elizabeth Sink<sup>1</sup>

### BIOCHEMISTRY

Keegan M. Scherдин

### CHEMISTRY

Nicole Amarachukwu Akukoro<sup>1</sup>  
Derek Alamilla Utrilla  
Charmaine Rangarirai Mandaza  
*2nd Degree: General Studies*  
Addison Jade Nichols  
MaryClara Chidinma Onyedima<sup>1,4</sup>  
Landon Lee Smith

### ECONOMICS

Keith Paul Donaghe  
Hayden Garrett Flowers  
Hannah Jailene Miranda  
Walter Diego Sandy  
*2nd Major: Mathematics*  
Allen Townsend Winmill  
*2nd Degree: General Studies*  
Tyler Sebastian Wurtele  
*2nd Degree: General Studies*

### ENGLISH

Ashley Elizabeth Abitz<sup>1</sup>  
Hannah Rose Allard  
Jordan Nicole Conger<sup>1</sup>  
Cheyann Nicole Earls  
Jojadys Hernandez Rivera<sup>2</sup>  
Matthew Joseph Mahoney  
Darcy Ann Meier<sup>2</sup>  
Melenna Kaisha Montgomery<sup>2</sup>  
Jennifer Leigh Ramos<sup>1</sup>  
Iridasy Rascon-Vizcarra<sup>2</sup>  
*2nd Major: Psychology*  
Jenna Lorna Spry<sup>2</sup>  
Megan E. Strawn<sup>1</sup>  
Matthew Jon Tiemann<sup>1</sup>  
Amy Elizabeth Tullos<sup>3</sup>  
Jewelina Danielle Villarreal  
John Douglas Warren, Jr.<sup>1</sup>

### GEOGRAPHY

Camden Blake Edwards<sup>2</sup>  
McKenna Reese Jones  
Preston Sloan Nored

### GLOBAL STUDIES

Isabella Marie Leal  
*2nd Major: Political Science*  
William Patrick Peters<sup>3,4</sup>  
*2nd Major: Political Science*  
Megan Flora Schmitz<sup>2,4</sup>  
*2nd Degree: General Studies*  
Andrew Anthony Talamantes<sup>2</sup>

### HISTORY

Timothy Zachary Adams  
Jackson Davis Birdwell<sup>3</sup>  
Spencer C. Churchill  
Giancarlo A. Dominguez  
Robert Thomas Farrer  
Jonathon Paul Fredrick Gabehart  
Tristan Abel Garza  
*2nd Major: Political Science*  
Nayeli Francisca Inoa  
Sara Elizabeth Jacobs  
Javier Ricardo Emiliano Jimenez  
Gordon Ray Lewis II<sup>1</sup>  
*2nd Degree: General Studies*  
Steven Ray Lindsey  
Benancio Steven Loya<sup>2</sup>  
Kaylee Sierra Presley  
Marley Elizabeth Roser<sup>1</sup>  
Abigail Rose SoRelle<sup>1,4</sup>  
Joseph Garrett Waddle  
Wren Avery Watson  
Clark Mitchel Zinsmeyer

### LANGUAGES AND CULTURES

Patricia Marie Gordon  
*2nd Major: Psychology*  
Nathan Raymond Gring<sup>1</sup>

### MATHEMATICS

Jonathan Daniel Guerra<sup>3</sup>  
Jonathan Pete Molina<sup>1</sup>  
*2nd Degree: Music Bachelor of Arts*  
Iyerusalem Negash

### PHILOSOPHY

Caleb Scott Chasteen  
*2nd Degree: Finance*  
Adison Neeley Denham<sup>1</sup>  
Elijah J. Lackey  
Ryland Keelan Qualls<sup>2</sup>

### POLITICAL SCIENCE

Olamide Olive Afolabi  
Nathan G. Avara  
Victor Hugo Banuelos  
Hope Elizabeth Boniol<sup>2,4</sup>  
Joshua I. Bowers  
Madyson H. Charles<sup>2</sup>  
Michael James Cook<sup>1</sup>  
Natalie Marie Dorondo<sup>1</sup>  
Marley Carr Gamble<sup>3</sup>  
Phoebe A. Greening<sup>1</sup>  
James Rowland Guinn, Jr.  
Hayley Gabriella Lavagnino  
Skylar Rein Layman  
Henry David Love  
Marya Arlenne Lujan-Acosta  
Amari Symone McZeal  
Ian Andrew Michelson<sup>3</sup>  
Braulio Ivan Nieto  
Justin Anthony Osburn<sup>1,4</sup>  
Zachary Perkins  
Nicholas Randolph  
Omar Rezk<sup>1</sup>  
Zamira Sanchez  
Hunter James Thomas  
Sergio R. Velasquez  
Jose Luis Villafuerte  
Jalynn Elise Villarreal<sup>2</sup>  
Chase R. Walden

<sup>1</sup>Summa Cum Laude <sup>2</sup>Magna Cum Laude <sup>3</sup>Cum Laude <sup>4</sup>With Honors <sup>5</sup>With Highest Honors

## UNDERGRADUATE CANDIDATES

Jessica Nicole Wheeler  
Kevin James Wood<sup>2</sup>  
Mbouh Mpongo Yakum

### PSYCHOLOGY

Chiemeka Roy Abanonu  
Kynadie Brooke Adkins  
McKenna Grace Alsobrooks  
Madison Anae Arredondo<sup>3</sup>  
Aspen Mackenzie Atkins<sup>1</sup>  
Savanna Haley Berg<sup>1</sup>  
Avery Lauren Bishop  
Jordan Marscel Breedlove  
Tristan J. Britz  
Dixon Luke Brusewitz<sup>2</sup>  
*2nd Degree: Advertising*  
Kayla Rae Canales<sup>2</sup>  
Danniela C. Cariaga  
*2nd Degree: General Studies*  
Alicia Ariana Castaneda  
Andrea Cepeda  
Marian Edith Chavez  
Spencer Andreah Clopton<sup>2</sup>  
Nylah Kiara Coleman  
Megan Dawn Couch<sup>3</sup>  
Espn Rey Curiel<sup>2</sup>  
Morgann Bailee Davis  
Annie Renell Delaney  
Monique Lorraine Delgado  
Logan Michelle DiCristofalo<sup>2</sup>  
Jude Mitchell Domingue  
Michelle Domit<sup>2</sup>  
Alex Dorado  
Kelsey Anne Dunn  
Charles Everingham  
McKenna Anne Foster<sup>3</sup>  
Ashley Michele Fuller<sup>1</sup>  
Jasmine Julie-Anne Garcia<sup>2</sup>  
Lea Astyn Garcia<sup>2</sup>  
Sebastian Diego Garcia  
Zulekha Ghalgan<sup>3</sup>  
Grace Katherine Gittinger<sup>1</sup>  
Emily Nicole Gonzales  
Juan Andres Gonzalez-Spitaleri  
Mercedes Danielle Gutierrez  
Peyton Nicole Harder  
Ashlyn Makenzie Harper  
Ethan Harper  
McKenna Rose Harris  
Skye Cymone Henderson<sup>3</sup>  
Adrian Roberto Hernandez<sup>2</sup>  
Jacqualine Lynn Hernandez  
Avery Suzanne Hoganson  
Rylee Keegan Holder<sup>2</sup>  
Crystal Valerie Holguin  
Emmanuella Naa Adaku Hyde<sup>3,4</sup>  
Olivia Brooke James  
Hayley Marie Jones  
Crimson Michelle Kirby<sup>2</sup>  
Kacie Kouth  
Kacie Nicole Lancaster<sup>2</sup>  
Lauren Taylor Leal  
Madison Lynn Lux<sup>2</sup>  
Laura Jane Lynch  
Emma Elizabeth Mankowski<sup>2</sup>  
Jasmine V. Martinez  
Ryley Jean Matthews  
Gillian Grace McCreedy  
Ashley Danielle Medina  
Alesandra Belissa Medrano

Miranda Nicole Minjarez<sup>3</sup>  
Kellye Vanessa Miranda  
Hannah Marie Mitchell  
Kelli Frances Nary  
Eric Jermaine Nelson, Jr.  
*2nd Degree: General Studies*  
Madelyn Paige O'Brien<sup>3</sup>  
De'Andra Nkemakolem Ogala<sup>1</sup>  
Eluron Adams Osiebo  
Allyson Makynna Owens<sup>2</sup>  
Isha Jayant Patel<sup>3,4</sup>  
Damara Sage Patterson  
Danielle Isabella Peña  
Azael Perez  
Diego Eleazar Perez  
Katy Cristina Posada<sup>3</sup>  
Ashley Lynn Pritchett<sup>4</sup>  
Averi Nicole Quick<sup>3</sup>  
Katia Paola Ramirez  
Shyanna Rose Ramirez  
Macy Nicole Reed  
Alicemarie Renteria<sup>2</sup>  
Erica Lechelle Richardson<sup>3</sup>  
Ren Robertson  
Karla K. Rodarte<sup>3</sup>  
Kylie Faith Rogers<sup>3</sup>  
Rachel Marie Romero  
Kambryn Emily Rowlett<sup>1</sup>  
Micaela Irma Ruiz  
Amanda Brooke Rutzen  
Allyson Kathleen Schmitt<sup>1</sup>  
Emily Marie Schramm<sup>2</sup>  
Nicole Dimetra Serafini  
Tara Shainizadeh  
Carli Jade Shields  
Kassidy Kiera Shuaib<sup>1</sup>  
Leah Kay Skelton<sup>1,4</sup>  
Elisabeth Rose Stoner<sup>3</sup>  
Brooke Elizabeth Streicher  
Cambrie Pearl Swafford  
Barbara Jean Swopes<sup>3</sup>  
Ryan M. Sykora  
Robert L. Teer  
Grayson Marie Trumbull  
Chrystal Olivia Tunstall  
Samantha Leeann Upton<sup>3</sup>  
Gabriela Rose Vargas<sup>3,4</sup>  
Christy Wambui Wachira  
Arielle Sydney Waterman  
Jared Ryan White  
Antwan Xavier Williams  
Kieahn Shandrika Wilson  
Tiantian Wu  
Brenna Paige Yarbrough  
Peyton Grace Yarbrough<sup>1</sup>  
*2nd Major: Sociology*  
Emma Elizabeth Yarrow

### SOCIAL WORK

Tessa Nicole Aragon  
Selena Brianna Ayala  
Heather Makayla Barnes<sup>2</sup>  
Andres Cantu, Jr.<sup>3</sup>  
Abigail Lola Cecilia  
Isabel Chacon  
Emily Aminah Haider<sup>3</sup>  
Malasia Lyonne Spain<sup>3</sup>  
Avery Faith Stavinoha<sup>2</sup>

### SOCIOLOGY

Mary Katherine Adami  
Rachel Black  
Aliyah M. Bollegar<sup>3</sup>  
Breanna Branch  
Abbigail Elana Brown  
Connor Lane Burgin  
Adam Jacob Buro<sup>1</sup>  
Payton K. Cayea<sup>2</sup>  
Lacey Rae Gibson<sup>2</sup>  
Selena Guillen  
Carli Fayth Haugen  
Gracie Jay Hefner<sup>2</sup>  
Brence Xavier Jasso  
Maranda Nykel Jenkins  
Hanna L. Kissinger  
Vondee C. Langehennig  
*2nd Major: Global Studies*  
Joel Garcia Lopez  
Annette Marinez  
Gabriela Mejia Luna  
Angel Isaac Nunez<sup>2</sup>  
Paul Edward Proctor III  
Abigale Lynn Rhodes<sup>2</sup>  
Mathew Joseph Rodela  
Briana Nicole Rogers  
Hailey Romero  
Jose G. Seguin  
Alyssa Nichole Wells<sup>3</sup>  
Marc Williams II  
Syann Aesia Chavadia Wombwell<sup>2</sup>  
*2nd Degree: Microbiology*  
Macy Claire Woodby<sup>3</sup>

### SPANISH

Nour Eyad Al-sweiti  
Lauren Marie Boleng<sup>1,4</sup>  
*2nd Degree: Cell and Molecular Biology*  
Payton Renee Clough  
Alyssa Caroline Kramer<sup>1,4</sup>  
*2nd Degree: Biology*  
Emma Elizabeth Lancaster<sup>1</sup>  
*2nd Degree: International Economics*  
Luis F. Lopez Muniz  
Angelica Nicole Reyna  
Kira Ann Ripley<sup>2</sup>  
*2nd Degree: Biochemistry*  
Jocelyn Sanchez-Badillo  
*2nd Degree: Nutrition*

### TECHNICAL COMMUNICATION

Jose Benjamin Carreon  
Brady Charles Ramsey<sup>1</sup>

### BACHELOR OF GENERAL STUDIES

Fernanda Aira  
Olaide Damilola Alaka  
*2nd Degree: Sport Management*  
Brenden L. Allen  
Kori Jill Ashton<sup>2</sup>  
Savanna Kristen Rose Bearden  
Ryan H. Bentz  
Logan Bene't Blocker  
Marissa Lee Botello  
Marissa Leigh Bresko  
Hannah Lyn Brunner  
Marcos Antonio Bustos  
Justin Lee Butler<sup>2</sup>

<sup>1</sup>Summa Cum Laude <sup>2</sup>Magna Cum Laude <sup>3</sup>Cum Laude <sup>4</sup>With Honors <sup>5</sup>With Highest Honors



## UNDERGRADUATE CANDIDATES

Danniela C. Cariaga  
*2nd Degree: Psychology*  
 Brandon Lee Castillo  
 Jeanette R. Cerda  
 Marisa Lynn Chapa  
*2nd Degree: Anthropology*  
 Alyssa Nicole Claridy  
 William Christopher Connolly  
 Naomi Daniel  
 Aaliyah Noel Davis  
 Bailey Addison Dent  
 Laney Kaye Dixon<sup>1</sup>  
 Everette Dodd  
 Brice Joseph Driver  
 Linh P. Duong  
 Louis Flores  
 Adrian D. Gamez-Trevino<sup>2</sup>  
 Yazmin Garay  
 Joe Nathan Garcia<sup>3</sup>  
 Kaylyn Jarnae Gipson  
 Ethan Talyn Goswick  
 Roselle Arlene Graskey  
 Triston T. Griego  
 Marisa Alison Gunstanson  
 Stephen Anthony Gutierrez  
 Danielle Nicole Harper  
 Jacob Harper  
 Dominique R. Hernandez  
 Sydney Elisabeth Hicks-Grant  
 Katherine McKenzie Hockenberry  
 Jorgann Lea Holgersen  
 Jenna Leigh Horn  
 William Cody Hubbard<sup>2</sup>  
 Courtney Brianne Jase  
 Anastasia Subin Kim<sup>2,4</sup>  
 Pilar C. Kuramoto<sup>3</sup>  
 Vivian McGee LaFleur<sup>3</sup>  
 Gordon Ray Lewis II<sup>1</sup>  
*2nd Degree: History*  
 Patricia M. Lillie<sup>1</sup>  
 Jamie Pettyjohn Linker  
 Breanna Nicole Lozano  
 Charmaine Rangarirai Mandaza  
*2nd Degree: Chemistry*  
 Skylar Michele Mauricio  
 Priscilla Mejia  
 Elizabeth Ann Moreno  
 Israel Moreno  
 Douglas Edward Moyer  
 Adalyss Beatriz Muniz  
 Eric Jermaine Nelson, Jr.  
*2nd Degree: Psychology*  
 Kelly Elizabeth Newman<sup>3</sup>  
 Sunny Jay Ogle<sup>3</sup>  
 Mia Caterina Olivo  
 Sofia Yolanda Olvera  
 Abigail Titilayo Omotayo  
 Adaku T. Otuonye  
 Rhianna Skye Palmiter  
 Tyler Kent Parker  
 Tristan Connor Perry  
 Isabella Raley<sup>1</sup>  
 Lori Jean Ramirez<sup>2</sup>  
 Jonna Michelle Rangel  
 Adam James Ray  
 Ryan Romero  
 Laney Jayne Schleifer  
 Megan Flora Schmitz<sup>2,4</sup>  
*2nd Degree: Global Studies*  
 Nathan Yanaura Scrivener<sup>3</sup>

Ashley Simiyu  
 Kalyn Grace Smalley  
 Michael Lane Smith  
 Brandon Scott Stevenson  
 Preston Howard Sullivan  
 Melissa Kae Thomas  
 Sitasma Timalsina  
 Jose Maria Torres IV  
 Hector Manuel Trevino  
 Victoria A. Trevino<sup>2</sup>  
 Jessica Bailee Viertel  
 Katlyn R. Watkins  
 Allen Townsend Winmill  
*2nd Degree: Economics*  
 Tyler Sebastian Wurtele  
*2nd Degree: Economics*

### BACHELOR OF SCIENCE

#### BIOCHEMISTRY

Alexis May Garcia  
 Sabrina M. Relph  
 Kira Ann Ripley<sup>2</sup>  
*2nd Degree: Spanish*

#### BIOLOGY

Miles G. Berg  
 Gabrielle Elizabeth Blowers<sup>2,4</sup>  
 Frances Ann Bowers<sup>2</sup>  
 Blythe Evan Bradley<sup>3</sup>  
 Kyler Lane Bursleson  
 Leslie Vianey Bustos Esteban  
 Caden Casanova  
 Chyanna Nicole Caton  
 Johnnie Olivia Cordell  
 Denise I. Coronado  
 Kylie Corinne Cox  
 Kiera Chanel Davis  
 Morgan Blaine Dixon  
 Anyssa Lea Downing  
 Katelyn Elizabeth Eaton<sup>3</sup>  
 Brandon Nathaniel Fell<sup>2</sup>  
 Quentin Franklin Fleming  
 Karmilena Dey Gonzales  
 Alexis Marie Gonzalez  
 Stephanie Marie Granados<sup>4</sup>  
 Aylin Guzmán  
 Abigail L. Hill  
 Ja'Niya Gwendolyn Hill  
 Rylee Jade Ignacio<sup>3</sup>  
 Crystal James  
 Bryce Joshua Keith  
 Nicole Kim  
 Madeline Helen Kiss<sup>3</sup>  
 Alyssa Caroline Kramer<sup>1,4</sup>  
*2nd Degree: Spanish*  
 Jordann Daniell Lawson<sup>3</sup>  
 Leticia Leverne Loredó  
 Allison Renee Maguire  
 Gabriel Nicomedes Marina-Vargas  
 Beatriz Adriana Melendez<sup>1</sup>  
*2nd Degree: Nutrition*  
 Nayeli Aolanis Miranda  
 Kayla Mackenzie Morren<sup>2</sup>  
 Desiree Elise Munoz  
 Amanda Nicole Newman  
 William Lucas Ngo<sup>3</sup>  
 Linh Song Thuy Nguyen<sup>1</sup>  
 Ethan A. Oliva<sup>2</sup>  
 Jessica Nicole Oney

Titiloye Naomi Oyedepo  
 Austin Parthie  
 Tuong-Linh Lynn Phan  
 Emily Grace Phelps  
 Brian Truong Quach  
 Cynthia Angilee Rebollar<sup>1</sup>  
 Kinsey Ashton Rich<sup>2</sup>  
 Celeste Rivas Aguilar<sup>2</sup>  
 Krissie Pualani Roberts  
 Blake Ismael Rodriguez<sup>3</sup>  
 Jesús Rojas  
 Abigail Dominique Romero  
 Tyler Lane Schouten<sup>3</sup>  
 Genesis Brynn Shealy  
 Michael Scott Steward<sup>1,4</sup>  
 Jake Adam Strickland  
 Michael John Thomas<sup>3</sup>  
 Tate Anise Tschirhart<sup>1,4</sup>  
 Rose Anna Webb  
 Kyle Fox Whitney  
 Amber Itzel Zavala

#### CELL AND MOLECULAR BIOLOGY

Lauren Marie Boleng<sup>1,4</sup>  
*2nd Degree: Spanish*  
 My Yen Doan<sup>4</sup>  
 Maci Dawn Oestreich<sup>3</sup>  
 Orson Tyler Robertson<sup>3</sup>

#### CHEMISTRY

Lucas Nicolas Almeida Aguirre  
 Katherine A. Eads  
 Nermin Isic  
 Chandeni Rajesh Kassen<sup>1,4</sup>  
 Torrey Logan Stubblefield<sup>2</sup>

#### ECONOMICS

Paige Marie Adelman<sup>1</sup>  
 Bryce Kole Hernandez  
 Shrushti Sanjay Kenekar<sup>2</sup>  
*2nd Degree: Computer Science*  
 Olivia Leary<sup>1</sup>  
 Matthew Ethan Quijano  
 Aarij Anthony Rahman<sup>1,4</sup>  
 Erich Thomas Von Heuvel

#### GEOSCIENCES

Katherine Anne Coyle<sup>2,4</sup>  
 Tristanna Lynn Crapo  
 Bryce Michelle McElvogue

#### KINESIOLOGY

Austin Taylor Abney  
 Daxon Jo Allen  
 Haleigh Dawn Archer<sup>3</sup>  
 Robert Eric Arredondo  
 Jackson Scott Baggett  
 Vanallice Bailey<sup>1</sup>  
 Brandon Alexander Barker  
 Chandler William Brown  
 Madison Alise Brown  
 Cora Rose Christensen<sup>2</sup>  
 Sophie Ann Creech  
 Payton Raileigh Cutting  
 Brendan G. Daly  
 Anisa Hana Daou<sup>2</sup>  
 Delsea Hanna Davenport  
 Taylor Elise Davis<sup>3</sup>  
 Natalie Layne Dillard  
 Lauren Nicole Dodson<sup>1</sup>  
 Lindsey Renae Dodson<sup>2</sup>

<sup>1</sup>Summa Cum Laude <sup>2</sup>Magna Cum Laude <sup>3</sup>Cum Laude <sup>4</sup>With Honors <sup>5</sup>With Highest Honors

## UNDERGRADUATE CANDIDATES

Annalise Marie Downing  
Morgan Chiara Eberle<sup>3</sup>  
Renina Esther Erdner<sup>2,4</sup>  
Anastasia N. Espinosa  
Cameron Kyle Finch<sup>3</sup>  
Madison Danea Furman  
Abby Nicole Grimes  
Ethan Luke Guimbarda  
Ana Cristina Gutierrez Bustamante<sup>3</sup>  
Zachary Steven Hale  
Attison Kate Hall  
Micayla Noelle Harris<sup>1</sup>  
Elizabeth Hewitt  
Caleb Z. Hightower  
Brianna Marie Ibarra<sup>3</sup>  
Aliza Jade Jaime  
Chase Bradford Keeler  
Caden Hunter Kiesling  
Randi Renee King  
Nancy Kipulu  
Christian LaValle<sup>2</sup>  
Grant Walker Linnstaedter<sup>1</sup>  
Gabriela Longoria<sup>3</sup>  
Francisca Leigh Lord<sup>1</sup>  
Keely Elizabeth Martinez  
Kelsi Mae McCall  
Sadie Gayle McCambridge  
Dalton Matthew Meinzer  
Alexaz Paige Meredith  
Mikah Elizabeth Merrill<sup>1</sup>  
David Miramontes  
Triston Dee Montgomery  
Kayla Ann Nickel<sup>1</sup>  
Alexandra Rae Nunez  
Jacob O'Dell  
Catherine Susanne Parker<sup>1</sup>  
Megyn Bryce Perez  
Don Pham<sup>3</sup>  
Bradley Allen Pinkerton<sup>3</sup>  
Tyler Daniel Porterfield  
Gustavo Ramirez  
Cassi L. Reeher<sup>2</sup>  
Whitney Addison Reinke<sup>1</sup>  
Ashlynn L. Rhoades  
Katherine Jane Richerson  
Timothy James Richey<sup>3</sup>  
Tyler Douglas Rodriguez  
Eduardo Ron<sup>2</sup>  
Abigail Hannah Rose  
Mason Andrew Russell  
Francesca Renee Saenz  
Mallory Marie Scott  
Molly Erin Slowick<sup>2</sup>  
Zaida Jaqueline Soto Toca  
Morgann Sarah Stokes  
Kaitlyn Ashley Swain  
Natalie Renee Tejada  
Garrett Paul Tongate<sup>3</sup>  
Lauren Rose Underwood<sup>3</sup>  
Abigail Van Cleave  
Bryce Marie van der Valk<sup>3</sup>  
David Alejandro Vizcaino<sup>2</sup>  
Alexandra Tapley Wahl  
Alyssa Elizabeth Young<sup>3</sup>  
Jessica Liliana Zuniga

### MATHEMATICS

Hannah Elisabeth Allred  
Shreyesh Shaju Arangath<sup>1</sup>  
*2nd Degree: Computer Science*  
Michael Anthony Garcia

Riley Colin Helbert  
Hans Heinrich Hummel<sup>2</sup>  
*2nd Degree: Computer Science*  
Hunter S. Kloiber  
Austin Cody Lloyd  
Megan Brooks Lorfin<sup>1,4</sup>  
Cora Papoccia-Pyse  
Keely Brianna Patelski<sup>2,4</sup>  
William Watson Sorrells  
Chase G. Stearns

### MICROBIOLOGY

Denise Barrientos  
Elana Michelle Breslav<sup>1,4</sup>  
Savanah C. Bryan  
Sami Suhail Daye<sup>2,4</sup>  
Trang Kieu Minh Doan  
Lauryn Elizabeth Evans<sup>1</sup>  
Paden Christopher Gallardo  
Alexsis Garcia  
Lucero Garcia  
Ranim I. Ismail  
McKinley Elizabeth Newman<sup>3</sup>  
Elliott Ford Radovan<sup>3,4</sup>  
Aarsh Pratik Ray<sup>1,4</sup>  
Hannah Elizabeth Stevens  
Syann Aesia Chavadia Wombwell<sup>2</sup>  
*2nd Degree: Sociology*

### PHYSICS

Saval Bhail  
Juan Angel Cano  
*2nd Major: Mathematics*  
Alexandria Fay Clark<sup>1,4</sup>  
Cutter Garrett Firm  
Eric Lee Murray<sup>3</sup>  
*2nd Major: Mathematics*  
Anthony Pearce<sup>2</sup>  
Jose De Jesus Perez  
Chance David Willis  
*2nd Major: Mathematics*

### RENEWABLE ENERGY

Jacob Michael Garcia  
William Forrest Simpson<sup>2</sup>

### SPORT MANAGEMENT

Olaide Damilola Alaka  
*2nd Degree: General Studies*  
Yasmine Elena Armendariz<sup>2</sup>  
Harrison Lee Barsanti<sup>3</sup>  
Brent Charles Beitel  
Andrew Scott Cantu  
Cason Matthew Carte  
Ava Grayson Dimit  
Erika Renee Goggan-Contreras  
Logan Paul Greene  
Hunter Matthew Haskins  
Hallie Nicole Huysmans  
Angel Max Jimenez  
Carson Grace Lecroy<sup>1</sup>  
Jayson Brice Legan  
Cayden Henry Lopez  
Jacob Kyle McMillen<sup>2</sup>  
Marco Bakole Mwamba, Jr.  
Ryan Lynn Pinkerton  
Joe Augustine Ramirez  
Connor Lloyd Siebert  
Kory Farris Sparks<sup>3</sup>  
Kolton Wright Trimmier  
Skylar Ashleigh Wilson  
Jacob David Woody

### WIND ENERGY

Eric Alexander Beam  
Hector Alberto Garcia  
*2nd Degree: Mechanical Engineering*  
Noah Matthew Gonzalez  
Jake Wallace Guerrero<sup>3</sup>  
Garrett Stephen Hackmaster  
Brian Zachary Hoskinson  
Eric Bryce Thames<sup>3</sup>  
Jake C. Zitrus

### BACHELOR OF SCIENCE IN INTERNATIONAL ECONOMICS

Jelson Gaspar  
Emma Elizabeth Lancaster<sup>1</sup>  
*2nd Degree: Spanish*  
Sheharyar Zain Murtaza  
Gregory Allen Ochoa  
Giovanni Pansera  
Cindy Sigala  
Thomas Edward Wiggins, Jr.  
*2nd Degree: Supply Chain Management*



TEXAS TECH UNIVERSITY

Rawls College of Business

### BACHELOR OF BUSINESS ADMINISTRATION

#### ACCOUNTING

Brett Tyler Anderson  
Carly D. Baker  
Madeline Grace Barr  
Jaide Sierra Bennett<sup>2</sup>  
Adrienne Diana Bratcher<sup>2</sup>  
Kalan Dyan Copeland  
Adriana Michelle Cowan  
Taylor A. Crow  
Nathan Maxwell Epstein<sup>3</sup>  
Alexander Jack Freyman  
Kade Jarron Fryar<sup>3</sup>  
Catherine Rose Georgoulakos  
Savannah Lynn Hansen  
Yazmeen Alexis Hari  
Chase Ryan Hoodenpyle  
Sofia Marie Joyner  
Bronwyn Lauren McLaurin Kong  
Dillon Jeffrey Morrison<sup>2</sup>  
Mikah Tyler Nguyen  
Noah Braiden Parker<sup>1</sup>  
*2nd Major: Finance*  
Aaron Ray Pesqueda  
Cristina Rangel  
Julian Isaac Sanchez<sup>2</sup>  
Luis Alberto Sanchez  
Garrett Nicholas Serafine  
James Brodie Sparkman  
Austin James Stander  
Mary Alison Tannos  
Chantelle Jolie Vallejo  
Riley Allen Vandehey  
Kyle Austin Wittmer  
Ryan Everett Wooley  
Kaitlyn Yates  
Ronnie Woo Yi<sup>2</sup>

<sup>1</sup>Summa Cum Laude <sup>2</sup>Magna Cum Laude <sup>3</sup>Cum Laude <sup>4</sup>With Honors <sup>5</sup>With Highest Honors

## UNDERGRADUATE CANDIDATES

### ENERGY COMMERCE

Zachary Daniel Adams  
*2nd Major: Finance*  
 Rocky Mason Machacek  
 Samuel Tosh Murray  
 Jess Brock Ritter<sup>3</sup>  
 Ian Thomas Walker

### FINANCE

Tabina Zaman Adra  
 Jonathan James Alfonso<sup>4</sup>  
 Edgar Alain Baeza  
 Frank Aaron Balaszi  
 Alexander John Blakeley<sup>1</sup>  
 Dalton Wayne Briege  
 Collin Joseph Briggs  
 Tanner James Bundick  
 Elliot Aaron Burgess<sup>1</sup>  
 Brent Ryan Butcher  
 Juan Sebastian Cabal Trejos  
 Giancarlo Calderon<sup>1</sup>  
 Sven Cepus  
 Caleb Scott Chasteen  
*2nd Degree: Philosophy*

Ramiro Chavez  
 James Lyle Clifton  
 Cade Freeman Cogburn  
 Brandon Wayne Cooper  
 Joshua J. Cotten  
 Kaden Wade Dalton  
 Leo Aston Diegel  
 Jacob Ryan Duncan  
 Jacob E. Dunn  
 Joshua Ray Ellington<sup>1</sup>  
 Alejandra Esparza  
 Amanda Paige Evans<sup>3</sup>  
 Zachary Ryan Evans  
 Andrew P. George  
 Tyler James Hamilton<sup>1</sup>  
 Michael Wayne Haveman  
 William Tait Herbig  
 Cristian James Hernandez  
 Jackson Fielding Hicks  
 Tony Aubrey Jackson  
 Kason Ray Johns  
 Jake Adams Johnson  
 Justin Xavier Johnson  
 Mark Wallis Johnson  
 Jordan Mohommad Khalil  
 Colton Dane Kuenzi  
 Peyton Abigail Lee  
 Lauden Grey Lewis  
 Heitor Cesar Cunha De Paula Lima  
 Shelby Rose Yan Little<sup>3</sup>  
 Branden Pierce Mackie  
 Ryan Elijah Margo  
 Ian Thomas Marshall  
 Katherine Erin Massingale<sup>2</sup>  
*2nd Major: Accounting*  
 Austin D. McAlister  
 Chas Logan McAllister  
 Jared Asher Melton<sup>1</sup>  
 Kendall Renee Meyer  
 John Curtis Mueller<sup>1</sup>  
 Grant Alexander Muery  
 Jager Thomas Thor Mundheim  
 Travis Anh Duy Nguyen  
 Olivia Ozioma Chisom Ofoegbu  
 Jordan Vincent Olivas

Katherine Anne Pegany<sup>2</sup>  
*2nd Major: Management*  
 Christian Anthony Pinto  
 Maira Itzel Plascencia<sup>3</sup>  
 Samuel John Ratliff  
 Charles Peyton Rushing  
 Laura Yolanda Sanchez  
 James Gregory Segura<sup>3</sup>  
 Margaret Marie Shaner  
 Joseph Reilly Smith  
 Chase Matthew Steward<sup>1</sup>  
 Jackson James Sutter<sup>3</sup>  
 Jack Braden Tarr  
 Trey Logan Terry<sup>2</sup>  
 Turner Reid Torres  
 Mark Ethan Van De Walle<sup>1</sup>  
 Josue David Ventura  
 Brennon Dallas Walsh  
 Kamar A'von Washington  
 Sutton Wilson Weaver<sup>3</sup>  
 Tylor Marquell Whitesel  
 Evan Spencer Williams

### GENERAL BUSINESS

Hannah Katharine Brock<sup>2</sup>  
*2nd Degree: Family & Consumer Sciences Education*  
 Joshua Henry Lapuszynski<sup>2</sup>  
 Brandon C. O'Higgins<sup>4</sup>  
 Liberty Victoria Frances Sanchez<sup>2</sup>  
 Sayer Nicole Senter<sup>1</sup>  
*2nd Degree: Agricultural & Applied Economics*  
 Rachel Belle Wade<sup>2,4</sup>  
*2nd Degree: Agricultural & Applied Economics*  
 Gianna Francesca Watson<sup>2</sup>  
*2nd Degree: Agricultural & Applied Economics*  
 Calli Ann West  
*2nd Degree: Agricultural & Applied Economics*

### INFORMATION TECHNOLOGY

Chase Robert Ables<sup>3</sup>  
 Stephen Efiog Akwaowo  
 Johnathan Robert Battle  
 Chase Ryan Breckenridge  
 Garrett Matthew Brown  
 Stephan Mark Brown  
 Nathan Edward Buba  
 Jaime C. Cabassa  
 Cory William Cady  
 Logan Joseph Carboni  
 Christian Carroll  
 JunHyuk Choi<sup>2</sup>  
 Matthew Lee Dadson  
 Sofia Vanessa Davis<sup>3</sup>  
 Elys Andrea Enriquez  
 Hayden Thomas Fears<sup>3,4</sup>  
 Jacob Daniel Gillette  
 Trace Ellison Glanville  
 Jacob Judilla Gonzaga  
 Samuel Thomas Hall<sup>2</sup>  
 Yoonkyung Han<sup>3</sup>  
 Holden John Heisser<sup>1</sup>  
 Victor Lev Hopman  
 Samuel Andrews Hopson  
 Jason Alan Jones  
 Kenny Liu  
 Sam Dauphinais Lyness<sup>3</sup>  
 Nathan Daniel Lyons<sup>1</sup>  
 Matthew Robert Martinez  
 Michael Alain Maxwell  
 Will Leifeste Moore  
 Kapil Nepal<sup>2</sup>

James Olumide Olabamiji  
 Radhika Sanjay Patel  
 Jacob Daniel Raich  
 Evan Jarrett Reimer<sup>2</sup>  
 Samuel Noah Schomer  
 Noah Trenton Strange  
 James Patrick Wagner, Jr.

### MANAGEMENT

Ryan Andrew Adair  
 Matthew James Adams  
 Rachel Elizabeth Akin  
 Zachary Paul Anderson  
 Adrian Eduardo Arce Torres  
 Connor Glenn Atkinson  
 Reece Jefferson Bailey  
 Brooks Glover Bednarcik<sup>3</sup>  
 Shane Alan Benson  
 Garrett Reed Billingsley  
 Rob Erick Blanco  
 Geoffrey Lawrence Bohanon, Jr.  
 Lindsey Morgan Brent  
 Blake Lee Brown  
 Linsey Marie Brown<sup>1</sup>  
 Cassidy Lee Caddell  
 Talya Ly Carney  
*2nd Major: Marketing*  
 Tyler Thomas Cawley  
 Christopher Bailey Frances Chisholm  
 Logan Thomas Cobb<sup>2</sup>  
 Lauren Contreras  
 Austin Murat Copps  
 Cole Conner Cranston  
 Joshua Alexander Dale  
 Abigail Lynn Davenport  
 Siri B. Deaton  
 Ahnah Camille Denelsbeck<sup>1</sup>  
 Dalton Major Duckett  
 Victoria Dawn Eller  
*2nd Degree: Interior Design*  
 Cody David Farhat  
 Julio Cesar Ferrufino, Jr.  
 McKenzie Grace Flowers<sup>1</sup>  
 Bryce Jered Foutz  
 Nicholas Eric Froeschner  
 Joseph Andersen Gaines  
 Clayton Lane Galyean  
 Kyle Matthew Garcia  
 Aric Joe Garza  
 Matthew Dale Gibbs  
 Jacob Evan Glass  
 Colton Andrew Glosson-Fuson  
 Sager Tomas Gonzalez<sup>2</sup>  
 Christopher Joseph Gromek  
 Allison Schae Halfmann<sup>1</sup>  
 Bayleigh Madison Hall  
 Dylan Travis Hare  
 Payton Matthew Harris  
 Reyna Lupe Harris<sup>3</sup>  
 Cody James Harris-Abel  
 Tye Ryan Haskell  
 Kylie Reese Hatfield  
 Connor Michael Haynes  
 Griffin Dane Hebert  
 Logan Andrew Dalton Henke  
 Patrick D'Anthony Herrera<sup>3</sup>  
*2nd Major: Marketing*  
 Steven Josh Hightower  
 Zachary Alexander Hill  
 Theresa Mai Truc Hoang  
 Hayden Davis Hudson<sup>3</sup>

<sup>1</sup>Summa Cum Laude <sup>2</sup>Magna Cum Laude <sup>3</sup>Cum Laude <sup>4</sup>With Honors <sup>5</sup>With Highest Honors



## UNDERGRADUATE CANDIDATES

Pierre Iskander  
 Britney Danielle Juarez<sup>3</sup>  
*2nd Major: Accounting*  
 Braden Cole King  
*2nd Major: Marketing*  
 Christian Devin Kiser  
 Malachi Steven Kneisel<sup>3</sup>  
 Arish F. Lalani<sup>3</sup>  
*2nd Major: Marketing*  
 Ashley Mae Leaks  
 Spencer Howard Lewis  
 Layne Elizabeth Lohse  
 Morgen Tayler Lopez<sup>2</sup>  
 Connor Scott Maier  
 Travis Ross Malone<sup>2</sup>  
 William T. Mania  
 Bradi Lee Marshall  
 Adalberto Martinez III  
 Logan Scott Maxey<sup>3</sup>  
 Kailey Alexandria Paige Meece  
 Molly Lynn Meldau<sup>2</sup>  
 Kaleb Alexander Mendoza  
 Travis Leigh Mester  
 Paige Allison Millard<sup>3</sup>  
 Jake Thomas Miller  
 Jillian Leslie Miller  
 Colton Michael Mitchell  
 Parker A. Napp  
 Amparo Yolanda Orona  
 Evan John Owen  
 Garret Milton Pearson  
 Ashley Adele Pedraza<sup>3</sup>  
 Taylor J. Penland  
*2nd Major: Marketing*  
 Romi Isabelle Perdue  
 Max Elliott Persellin  
 Jada Alicia Pierce  
 Braden Philip Pohlmeier<sup>3</sup>  
 Jordan Isaiah Potter  
 Stephanie Puente<sup>1</sup>  
 Mitchell James Reagan  
 Dawson Paul Reinis  
 Jose Reyes  
 Kayla Jo Rhoads<sup>2</sup>  
 Brendan Michael Riley  
 Kellsey Breann Rodrick  
 Judith Vanessa Rojas  
 Carson Andrew Rowlett  
 London Paul Savala  
 Emily Kathryn Saywell<sup>2</sup>  
 Marcus Anthony Scafidi  
 Madeline M. Sechler  
 Riddhi Sharma  
 Malaika Shinwari<sup>1,4</sup>  
 Tyson David Smelley  
 Cameron Stouffer Smith  
 Isaiah Lincoln Smith  
 Raedon Joe Smith  
 Zachary William Smith  
 Erica Leann Speer  
 Cole Ryan Spillar  
 Spencer William Stanush  
 Roland Walker Stehr  
 Haley Christine Stewart  
 Jacob Ryan Thomas<sup>2</sup>  
 Tommy Leo Thomas III  
 Chandler J. Tillman<sup>1</sup>  
 Jacob Isaac Trevino  
 Luke Andrew Lewis Turner

Ana Mercedes Urrutia<sup>2</sup>  
*2nd Major: Marketing*  
 Katelyn E. Vail<sup>2</sup>  
 Kurt R. Wetsel<sup>2</sup>  
*2nd Major: Marketing*  
 Thomas Andrew Williams  
 Alexis Nicole Wood  
 Christopher Joseph Wyskiel<sup>2</sup>  
 Lauren Rachel Zawadzki  
 Clayton Burditt Zuber

### MARKETING

Adara Patrice Adams  
 Natasha Michelle Allen<sup>2</sup>  
 Colby Lee Altom  
 Nathan Robert Babb  
 Madison Marie Barta  
 Zachary Stephen Bilello  
 Carlee Brooke Bollinger  
 Madison Jo Brittain  
 Megan Nichole Brue<sup>2</sup>  
 Alyssa Marie Cantu  
 Catherine Capote<sup>3</sup>  
*2nd Degree: Media Strategies*  
 Smith Noble Carlton  
 Madeleine Faye Castillo<sup>2,4</sup>  
 Branden Reed Clay  
 Griffin John Cly  
 Carson Scott Coburn  
 Jeremy David Codoluto  
 Cameron Lane Cole  
 Alejandro Coronel<sup>3</sup>  
 Nicholas Ricardo Davila<sup>3</sup>  
*2nd Major: Management*  
 Daniel Wilson Davis  
 Chase Buchanan Demming<sup>2</sup>  
*2nd Major: Management*  
 Brooke Lauren Dickerson  
 James Benigno Escobar  
 Nicholas Evan Featherstone  
 Kaitlin Marie Foy<sup>2</sup>  
 Ethan James Armstrong Franklin  
 Katelyn Elizabeth Gambrel  
 Jacob Lester Garrett  
 Felix Garza  
 Olivia Marie Gilland  
 Taylor Renae Griffis  
 Matthew Thomas Guerra  
*2nd Major: Management*  
 Seung Ho Han<sup>2</sup>  
 Edward B. Heard  
 Travis David Herberger  
 Hope Kaitlyn Herington  
 Joseph Noel Herrera  
 Alyssa Blair Holdridge<sup>3</sup>  
*2nd Major: Management*  
 Annie Elizabeth Holland  
 Jonathan D. Hurley  
 Kyle Edward Isaacs  
 Cristian James Jimenez  
 Channing Leanne Jordan  
 David C. Kegg  
 Joseph Ryan Kelley<sup>3</sup>  
*2nd Major: Management*  
 Ty Connor Kocian  
 Zachary Joseph Kontor  
 John Edward Kuehne  
 Theodore Miles Kurlander<sup>3</sup>  
 Yazmin Luna Luna Sanchez  
 Guadalupe Macias<sup>1</sup>  
 Madison Ramsey Maddocks-Casada<sup>1,4</sup>

Jason Erik Malmquist, Jr.  
*2nd Major: Management*  
 Emily Marie Martin  
 Lysvette Martinez  
 Ryan Tyler Martinez<sup>3</sup>  
 Corbin Ryan McBride  
 Andre Mendez  
 Gunner Wayne Miller  
 Thomas Michael Miller  
*2nd Major: Management*  
 Blake Thomas Mosher  
 Kaitlin Faye Neri<sup>3</sup>  
 Kayla Aaliyah Omukawila  
 James Cooper Peavey  
 Jordyn Remi Rizzuto<sup>2</sup>  
 Brett Michael Robinson  
 Madeline Rose Saylor<sup>3</sup>  
 Trevor R. Schott  
 Alayna Lee Sims<sup>2</sup>  
 Nicholas Mark Smith  
 Daniela J. Solano  
 Jacob Ray Spivey  
 Sarah Nicole Steele  
 Matthew Harlen Taylor<sup>3</sup>  
 Riley Mackenzie Taylor  
 Christopher Ryan Thias<sup>3</sup>  
 Sidney Taylor Thompson  
 Justin Ryan Thornhill  
 William Baron Truelock  
 Evan Blake Wade<sup>3</sup>  
 Kennedy Brooke Walker  
 Megan Jenelle Walser  
 Cole S. Walther  
 Norman-Graeson Chase Ward  
 Grayson Philip Wunderlich Waterman<sup>3</sup>  
 Jessica Grace Watson  
 Alexis Brook Western  
 Blake Bair Wierwille  
 Grant Christopher Wills

### SUPPLY CHAIN MANAGEMENT

Matthew Delgado  
 Cullen M. Dickerson  
 Charles Braden Ferguson<sup>2</sup>  
 Alexis Sha Gearn  
 Gregory Morrissey Gordon  
 Blake Anthony Herman  
*2nd Major: Management*  
 Eduardo Alejandro Hermoso<sup>2</sup>  
 Luke Jesse Hooker  
 Matthew Keith Kline  
 Kelly Jo Lampman<sup>1,4</sup>  
 Dianne Rose Gloria Mana-Ay<sup>2</sup>  
 Chase Robert Martin  
 Jared Lucas Mason<sup>2</sup>  
 Michael James Moggre  
 Michael Thomas Norsworthy  
 Spencer Evan Oseguera  
 John Ross Ramey  
 Logan Pahl Rohloff  
 Dillon Matthew Salinas  
 Kelsey Ann Seidel<sup>3</sup>  
 Asher Daniel Stevens<sup>2</sup>  
 Cody Wayne Tabor<sup>3</sup>  
 Justin Daniel White  
 Thomas Edward Wiggins, Jr.  
*2nd Degree: International Economics*

<sup>1</sup>Summa Cum Laude <sup>2</sup>Magna Cum Laude <sup>3</sup>Cum Laude <sup>4</sup>With Honors <sup>5</sup>With Highest Honors

# UNDERGRADUATE CANDIDATES



TEXAS TECH UNIVERSITY  
College of Education

## BACHELOR OF SCIENCE

### EDUCATION

Alexis Syler Allen<sup>3</sup>  
Lucero Natividad Garcia<sup>1</sup>  
Gisel Na Garza<sup>3</sup>  
Madalyn Amorette Gonzalez<sup>2</sup>  
Madison Rene Hilliard<sup>2</sup>  
Edna Rivera<sup>3</sup>  
Blanca Azucena Salas<sup>1</sup>  
Adriana Silva<sup>2</sup>  
Ashton Paige Spence<sup>2</sup>



TEXAS TECH UNIVERSITY  
Edward E. Whitacre Jr.  
College of Engineering

## BACHELOR OF SCIENCE

### CHEMICAL ENGINEERING

Joseph Hunter Beene  
Jennifer Chinelo Ezeagwuna  
Thomas Allen Javins<sup>1</sup>  
Scott Jacob Parker<sup>3</sup>  
Dylan Drake Schwab<sup>3</sup>  
S M Jarif Tahmeed<sup>2</sup>

### CIVIL ENGINEERING

Karla Elizabeth Arellano  
Mira Banerji  
Emma Gail Beckett  
On Kin Kenny Cheang  
Tomas Cordoba Marin  
*2nd Degree: Architecture*  
Chase Jacob Davidson  
Celeste Marie DeVilliers<sup>1,4</sup>  
Roosevelt Arinzechukwu Ekeh  
Homer Talmadge Fillingim V  
Jarod Lee Frantz  
Joshua Reece Gadson  
Lisa Alejandra Gallegos  
Laura Montserrat Garcia Palau  
Jaime Gomez, Jr.  
Adrianna Hilaria Gonzalez<sup>3</sup>  
Manuel Antonio Gonzalez  
James Carter Hanson  
Zhaolong He  
Barrett Jackson Jenkins  
Modou Lamin Jobarteh<sup>3</sup>  
Lamont William Jones  
Michael Samir Kerolos  
Louis Henry Lutz  
Christopher Brett Maniloff  
Mayra Elizabeth Marquez  
Eduardo Martinez De Santiago  
Gustavo Adolfo Moeller Perez  
Justin Mark Mraz  
Patrick James Mullaly  
Spencer Scott Murrey<sup>3</sup>  
Adeola Okikiola Abdulfatai Omoloja<sup>3</sup>  
Ayodeji Ifeoluwa Olopade  
Victor Ian Perez  
Elena Isabel Rea  
Manuel Salvador Rodriguez

Daniel Santiago Romero  
Cesar Israel Saucedo  
Tanner Michael Schmitt  
Kyle Mathew Short  
Daniel Alejandro Silva  
Brendan Lawrence Sweet  
Aldo Ivan Trejo Rojas  
Adam Chandler Turbeville  
Jaime Ramirez Veloz, Jr.  
Thomas Luke Welch  
James Corbin Wheelis

### COMPUTER ENGINEERING

Folusakin Irunola Abiola<sup>2</sup>  
Mojolajesu Victoria Adeeso  
Cassandra Jessenia Baquero  
Brendan Craig Blacklock<sup>2</sup>  
David Gomez  
Hayden Lee Grandy  
Ejiroghene Paul Greg-Amahwe  
Jared James Hughes  
Shawn Robert Isbell  
Daniel Brice Kamghem Kom<sup>2</sup>  
Jackson Thomas Kays<sup>1,4</sup>  
Chase Thomas Ohlenburger  
Giulia Piombo<sup>3,4</sup>  
Kathryn Cristalle Scutt  
Brandon Antonio Villalobos

### COMPUTER SCIENCE

Anshul Raj Acharya  
Wuraola Paula Alli  
Shreyesh Shaju Arangath<sup>1</sup>  
*2nd Degree: Mathematics*  
David Arciniegas Salas<sup>2</sup>  
Michael Thomas Bolla  
Blane Michael Brown<sup>1</sup>  
Eric Zachary Carrillo<sup>2</sup>  
Kevin Brock Chavarin  
Christopher Emanuel  
Christian Fernando Gonzalez<sup>2</sup>  
Jett Ward Graham  
Michael Alan Gumm<sup>2</sup>  
Mackenzie Skye Hamlett<sup>2</sup>  
Tam Buu Khanh Ho<sup>1</sup>  
Justin Kalib Holmes  
Nicholas Franklin Housden  
Hans Heinrich Hummel<sup>2</sup>  
*2nd Degree: Mathematics*  
Osasenaga Success Irabor  
Shrushti Sanjay Kenekar<sup>2</sup>  
*2nd Degree: Economics*  
Hunter Austin King  
Jose Antonio Bumba Kinjango<sup>3</sup>  
Saraka Chris-Charles Emmanuel Kouame  
An Lam<sup>1</sup>  
Garrett Scott Loucks  
Dylan James Lowman<sup>2</sup>  
Sachita Sachin Mane  
Carlos Eduardo Martinez Salazar  
Joseph Daniel McClaine<sup>3</sup>  
Alonso Isai Montelongo  
Matthew Lee Morse<sup>3,4</sup>  
Aidan Warren Mullins  
Tyler Brian Nee  
Bri'Aunna Nkem Okwor  
Mckinley Parker  
Nathan Rey Ramirez<sup>2</sup>  
Christopher Rayas  
Minoshun Dilip Renganathan<sup>3</sup>  
Matthew James Rice

Monica Adaly Romero<sup>2</sup>  
Adam Taylor Rusaw  
Jakob Samuel Saldaña  
Nadine Salem  
Abraham Santana Flores  
Andrew Ray Sena  
Matthew Silva<sup>3</sup>  
Victoria Valdivieso<sup>2</sup>  
Valentina Villarreal  
William Edward Warren  
Jarod Daniel-Acuna Wellinghoff

### CONSTRUCTION ENGINEERING

John Evan Earhart<sup>1</sup>  
Connor B. Higgins  
Colin A. Horton  
Reece Smith Mcdaniel  
Jack Tolbert Mudie<sup>2</sup>  
Cooper Michael Ogerly  
Christopher Stephen Proodian  
Juan Ignacio Robles  
Jose Francisco Sandoval  
Emily Alexandra Shaw  
Kevin Torres-Morales

### ELECTRICAL ENGINEERING

Hunter Christian Adams  
Cody Don Baker<sup>1</sup>  
Roderick George Chisholm  
Steven Kyle Fox  
Joshua Michael Herndon  
Seth Houston Melton<sup>3</sup>  
William Cloud Moon<sup>1</sup>  
Michael David Morris<sup>3</sup>  
William Bratton Mynatt  
Aaron Boyd Norfolk  
Bertram Chidiebere Nwohiri  
Diekoloreoluwa Omorinsola Ogundana  
Akinbolaji Oluwatowoju Oni  
Josiah Ramirez  
Madison Avery Shumate<sup>2</sup>  
Blane Prescott Tanley  
Joshua Logan Taylor  
William Fielding Tolson  
Rogelio Vera  
Cain Alexander Villanueva  
Yuhang Yao

### ENVIRONMENTAL ENGINEERING

Mauricio Daniel Gonzales  
Alyssa Jovianne Munguia

### INDUSTRIAL ENGINEERING

Andres Alvarado  
Jad Imad Atwi  
Victor Andres Bacarreza Turner  
Benjamin Daniel Byerly  
Fayed Chaaban<sup>3</sup>  
Sameer Ahmed Chowdhury  
Nicholas Alexander Conrad  
Gatlin Bryce Couch  
Sierra Rose Delgado<sup>2,4</sup>  
Shaina Michaela Dunnam<sup>3</sup>  
Vicente Garofalo Martinez<sup>3</sup>  
Raynor Shoung Ren Goh  
Madison Anne Hanson<sup>2</sup>  
Julian Homberger<sup>3</sup>  
Jophy Benny Joseph  
Hugo Meyjonade  
Liliana Moreno<sup>3</sup>  
Alejandro Muñoz<sup>3</sup>

<sup>1</sup>Summa Cum Laude <sup>2</sup>Magna Cum Laude <sup>3</sup>Cum Laude <sup>4</sup>With Honors <sup>5</sup>With Highest Honors

## UNDERGRADUATE CANDIDATES

Christopher Ifunanya Nwankwo  
Christa Lynne Olivier  
Mobisola Aderinola Oyewole  
Ruben Anthony Subia<sup>1</sup>  
Andrew James Torrance  
Kyle Robert Torrance  
Journey Walker  
Naoufal Taha Zangui

### MECHANICAL ENGINEERING

Dawson Bray Abernethy  
Layth Tahrr Al Saegh  
Adila Antara Ali<sup>2</sup>  
Dulce Yiveny Arambula Sanchez  
Keegan Alexander Barnett  
Marcos Alejandro Barrera<sup>2</sup>  
Adam Paul Barthold  
James Lloyd Bentley  
Mathew Connor Borneman  
Igor Brambila Stanguerlin  
Derek Redmond Cafferata<sup>3</sup>  
Thomas James Campbell  
Dominic S. Chacon  
William Jacob Clearman  
Justice Elijah Curlee  
Satyakam Das  
Braden Boyd Deines  
Alexandre Della Maestra<sup>2</sup>  
Pranav Nitin Dhavalikar<sup>3</sup>  
Vimal Eappen Mathew  
Daniel George Eck<sup>1</sup>  
Darian Gabriel Escorza  
Alejandro Espejo  
Robert John Michael Estes  
Kolton Chase Everett<sup>2</sup>  
Cooper Allen Freeman  
Justin Ray Furber  
Hector Alberto Garcia  
*2nd Degree: Wind Energy*

Frank Nathan Garibay<sup>3</sup>  
Joshua Cole Garza  
Ryan James Gibson  
Juan Eduardo Gonzalez  
Juan Ramon Gonzalez  
Merrell Augusta Goza  
Sheldon Kavon Guerin<sup>2</sup>  
Luke Harrison Hawkins  
Ryan Douglas Henke  
Trevor Rayce Hickok<sup>1</sup>  
Zachary Raine Hixson  
Bright Arinzechukwu Ilochi  
Jacob Owen Johnson<sup>2</sup>  
Peter Timothy Keller<sup>1</sup>  
Shakil Ahmed-Zoha Khan<sup>2</sup>  
Kabita Khanal  
Antonio Kheir  
Logan Henry King  
Crystal Jeanene Kinsinger  
Casey Michael Kirk<sup>3</sup>  
Mason Edward Kneisley<sup>1</sup>  
Nobila Christian Kouda  
Chancellor Coe Lamb  
Joshua James Lawson  
Joshua Treat Lovett  
Matteo Giovanni Macri  
Joshua Justin Maddox  
James Devon Manders  
Emma Faith Martinez  
Ryan Joseph McCabe  
Dylan Blake McClellan  
Spencer Joseph Mckitrick

Tomas Elias Seidler Mendes<sup>3</sup>  
Romel Sam Muqattash  
Dylan Najvar  
Duong Huu Trung Ngo  
Spencer David Nichols  
Anais Celia Marle Nnang Nnang  
Bradley B. Norton  
Uchenna Daryl Nwabueze<sup>3</sup>  
Yobesh Ogari Okero  
Nikesh Pandit<sup>2</sup>  
Marcel Luis Pereda<sup>3</sup>  
Jennifer Marie Peterman  
Jose Guadalupe Pineda  
Carlos Ponce Herrera  
Javier Alfonso Ramirez  
Caden Lee Riggs<sup>3</sup>  
Logan Matthew Riley  
Anchal Rimal  
Desirae Janai Rocha  
Christopher Thomas Rogers  
Elijah Noe Rosas<sup>4</sup>  
Hashem Hani Nehad Saker<sup>3</sup>  
Caroline Delaney Schilling  
Victor Hugo Soto  
Abedelrahman Ahmad Taha  
Joseph Thomas Tatum  
Brandon Craig Taylor  
Summer Grace Thigpen  
Ryan Craig Thornburg  
Marco Antonio Torres  
Mary Faith Vancura<sup>1</sup>  
Travis Robert Wright  
Abraham Zuniga

### PETROLEUM ENGINEERING

Victor Kwaku Amavi  
Diego Guerrero Lopez  
Bryceten Leo Noble  
*2nd Major: Civil Engineering*  
Robert Weissel



TEXAS TECH UNIVERSITY

College of Human Sciences\*

### BACHELOR OF APPLIED ARTS AND SCIENCES

#### RESTAURANT, HOTEL, AND INSTITUTIONAL MANAGEMENT

Olubunmi Victoria Oliyide  
Bobbi Rachel Scribner<sup>2</sup>

#### BACHELOR OF INTERIOR DESIGN

Victoria Dawn Eller  
*2nd Degree: Management*

### BACHELOR OF SCIENCE

#### COUNSELING AND ADDICTION RECOVERY SCIENCES

Sydney Gabrielle Gholston<sup>3</sup>  
Patrick Steven Horton  
Skylar Eryn Johnson<sup>3</sup>  
Anahi Yvette Ozuna<sup>2,4</sup>  
Salvador Sifuentes  
Mckenzie Marie Stephens<sup>2</sup>  
Daniel Neal Wooldridge

### EARLY CHILDHOOD EDUCATION

Tara Madison Barbee<sup>2</sup>  
Braylee Marie Cantu  
Mallory Paige Quinn

### FAMILY AND CONSUMER SCIENCES EDUCATION

Hannah Katharine Brock<sup>2</sup>  
*2nd Degree: General Business*

### HUMAN DEVELOPMENT AND FAMILY SCIENCES

Hannah Grace Brown<sup>3</sup>  
Monique Alexandria Caso<sup>2</sup>  
Madison Nicole Chandler  
Madeleine Lakshmi Chetty<sup>1,4</sup>  
Caitlin Leigh Clemmons<sup>2</sup>  
Emma Ruth Compton<sup>2</sup>  
George A. Gegbe  
Laney Elizabeth Graham  
Georgia Lang Haden<sup>2</sup>  
Kara Brooke Harmon  
Addie Caroline Harpold<sup>2</sup>  
Chloe Alexis Hearn  
Ian Paul Hoffmann  
Courtlyn Bre'Ann Judah<sup>1</sup>  
Kiersten Marie Langley<sup>2</sup>  
Skylar Marie Lara<sup>1</sup>  
Hannah Francisca Limones  
Mikaila Shae Martinez<sup>3</sup>  
Taylor Sue Mercer  
Alyssa K. Nicholson  
Sydney Claire O'Guinn  
Hannah Renee O'Brien  
Savannah Alyse McIntyre Pannell<sup>1</sup>  
Shiloh Elizabeth Peaden<sup>2</sup>  
Avery Nicole Pieper  
Kairah Nicole Reid<sup>3</sup>  
Marissa Ann Reyna  
Carson Jane Rogers<sup>2</sup>  
Rocio Roman Gamarras  
Gianna Isabella Romo  
Caroline Elizabeth Saltzman<sup>2</sup>  
Kirsten Ashley Smith  
Camille Joanna Stroud<sup>3</sup>  
Makenna Deann Thigpen  
Presley Faith Underwood<sup>3</sup>  
Jessica Marie Utz  
Abigail Kathryn Vuduris  
Gabrielle Claudine White  
Acacia Brigance Wiley<sup>3</sup>  
Alma Meagan Williams<sup>3</sup>  
Kathryn Sue Wolf<sup>3</sup>

### HUMAN SCIENCES

Berkley Louise Akeroyd<sup>2</sup>  
Hannah Leigh Anderson<sup>2</sup>  
Alexis Arredondo  
Ignacio Ascencio  
Daytona D. Austin<sup>3</sup>  
David-Godwin Ikechukwu (King) Awhen, Jr.  
Breanna Donielle Baldwin  
Miranda Lynn Beall  
Karigin ReAnn Bird  
William David Bishop  
Hana Elizabeth Blackman  
Ana Marie Boatman  
Daniel Lewis Boatner  
Briana Borrego<sup>3</sup>  
Emily Ann Boyer

<sup>1</sup>Summa Cum Laude <sup>2</sup>Magna Cum Laude <sup>3</sup>Cum Laude <sup>4</sup>With Honors <sup>5</sup>With Highest Honors



## UNDERGRADUATE CANDIDATES

Morgan Ciara Brooks<sup>2</sup>  
 Meagan Brooke Brouillette  
 Alyssa Mackenzie Brown  
 Natasha Loriesha Brown Filipe  
 Amy Catherine Brandt<sup>3</sup>  
 Jade Kennedy Bryant  
 Amanda Lauren Burklund  
 Sidney Michelle Cadena  
 Aubrey Michelle Calvert  
 Jason Lee Calvert<sup>1</sup>  
 Adonis Gabriel Campos  
 Kyra Campos  
 Hilda Castaneda  
 Molly Kay Castleberry<sup>2</sup>  
 Leilani Alize' Cazares  
 Alianna Cedillo  
 Morgan Renee Chambliss<sup>3</sup>  
 Kylie Marie Childers  
 Shyanna Lynn Clay<sup>2</sup>  
 Kasidy Paige Craig  
 Alexcis Star Conder  
 Katelyn Edith Corwin<sup>2</sup>  
 Lanisa Gay Dehn  
 Lauren Rose Dishong  
 Victoria Michele Eavenson  
 Gracie Mae English  
 Whitney Chinenyenwa Ife Ezenwa  
 Kaylei Rose Fannon<sup>3</sup>  
 Ava Elizabeth Ferguson<sup>3</sup>  
 Zavian Ornelas Florez  
 Samantha N. Fulgium<sup>3</sup>  
 Alisa Marie Garcia  
 Natalie Lynn Garcia  
 Brittany Nicholle Gibson<sup>1</sup>  
 Madison Summer Gonzales<sup>2</sup>  
 Emily Elaine Hammerle  
 Ivonne Elizabeth Hernandez<sup>2</sup>  
 Samantha Mia Hernandez  
 Bethaney Makaela Hussey  
 Kayla Denise Johnson<sup>2</sup>  
 Makenna Christine Johnson<sup>2</sup>  
 Meredith Leigh Johnson<sup>3</sup>  
 Megan McKenzie Keasler<sup>3</sup>  
 Shea Marie Keithley  
 Halle Jo Kellar  
 Virginia Elizabeth Kerley  
 Sarah Beth King  
 Wanjiku B. Kinyanjui  
 Emma Elizabeth Kitten  
 Katheryn Shelby Klubak<sup>3</sup>  
 Kortney Marie Koenig  
 Landry Noel Kotara Magna<sup>3</sup>  
 Oluwaseyi Rebekah Ladapo<sup>3</sup>  
 Cameron Kaye LeCates<sup>3</sup>  
 Kristen Nicole Linville  
 Rocio Loreda<sup>1</sup>  
 Stephanie Marie Loewen  
 Olivia Kathryn Lohmiller<sup>2</sup>  
 Marikos Prestone Lujan  
 Amber D. Lynn  
 Yolanda Mata  
 Linzey Maxcey<sup>2</sup>  
 Madelyne Grace McKinney  
 Diana Marie McPherson  
 Danielle Janie Melchor  
 Erin Ann Melito<sup>2</sup>  
 Saidee Katalina Mendoza<sup>3</sup>  
 Jaime Sue Milbern  
 Taylor Le Ann Moore<sup>3</sup>  
 Nixsy Jasmin Morales Mejia

Aldo Manuel Navarrete  
 Juliet Rose Newton  
 Kenny-Viet Van Nguyen  
 Salmwet Ocbazgi  
 Suzan Olubunmi Olaniran  
 Tyla Brenae Oliver<sup>3</sup>  
 Omodolapo Deborah Oladele  
 Alexandria Nneoma Opara  
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 Sydnee Nicole Southall<sup>3</sup>  
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 China Tiana Victores  
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 Kindal Paitan Young  
 Morgann Elizabeth Young

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 Casen Christian Bigham  
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 Raegan Michelle Coursey<sup>3</sup>  
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 Anna June Javins<sup>3</sup>  
 Libby Kate Lanham  
 Beatriz Adriana Melendez<sup>1</sup>  
*2nd Degree: Biology*  
 Oluwadunsin Princess Olanrewaju  
 Lei Andrea Fabula Ramirez<sup>4</sup>  
 Jocelyn Sanchez-Badillo  
*2nd Degree: Spanish*  
 Matthew Khang Ta<sup>2</sup>  
 Nicholas James Vu<sup>1,4</sup>

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Justin Alonzo Chavez<sup>1</sup>  
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 Travis C. Fountain  
 Mallory Summerlin Lowrie<sup>2</sup>  
 Chyanne Marie Mausser<sup>3</sup>  
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 Luke Davis Ray  
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 Kyler Kinsman Smith<sup>1</sup>  
 Jaxon Trevor Sweet<sup>2</sup>  
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 Racheal Cecile Bellingier  
 Megan Marie Covington  
 Christopher Kyle Drake  
 Maya Ashley Johnson<sup>2</sup>  
 Zeynep Kardes<sup>1</sup>  
 Logan Reed LaDieu<sup>2</sup>  
 Sahil Mukesh Patel  
 Elle Ryan Schroeder<sup>3</sup>  
 Brian Allen Scott  
 Olivia Grace Wilson<sup>1</sup>

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Christian Joseph Courtois  
 Taylor Brooke Espinoza<sup>3</sup>  
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 Erek Castro  
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 Claire Allyse Cunningham  
 Sydney Mae Delavan<sup>2</sup>  
*2nd Major: Public Relations*  
 Te'Rone Davis Eaglin, Jr.<sup>1</sup>  
 Sam Brennan Fereday<sup>2</sup>  
 Kendall Elizabeth Ford<sup>2</sup>  
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Ethan K. Lilly  
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Taylor Kingsley Renfroe<sup>3</sup>  
Alexander F. Silva  
Chance Reese Szychulski<sup>2</sup>  
Aaron D. Thompson  
Noah David Tijerina

### COMMUNICATION STUDIES

Ilias Mustafa Adam  
Abril Alvarado<sup>1</sup>  
*2nd Major: Public Relations*  
Kenaya Rochelle Anderson<sup>1</sup>  
Alexis Elizabeth Atencio  
Morgan Ciara Balderston  
Mary Grace Biggs<sup>1</sup>  
Kyle Logan Blankenship  
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Maycie Lynn Degenhardt  
Gavin Christopher Douglas  
Peyton Meredyth Enck  
Whitney Chae Gilliam  
*2nd Major: Public Relations & Strategic Communication Management*  
Holly Nicole Glasgow<sup>2</sup>  
Elizabeth Rose Gunderson  
Daquisha Houston  
Blake Patrick Hyland<sup>2</sup>  
Alexis Marie James  
Gabrielle June Kasprzak  
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Kyle Ulysses Rodriguez

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Bryan Arellano  
Elijah Jordan Bajoyo  
Richard Kyle Baskerville  
Zeth Christian Burton<sup>1</sup>  
Tricia M. Carter<sup>3</sup>  
Abigail Paige Coons  
John Elijah Coronado<sup>3</sup>  
Myles Vasco Delgado  
Dain Matthew Denham<sup>3</sup>  
Alyssa Shi Dotson  
Burke Morgan Francis  
Kennedy Nichole Fratt  
Nicholas Joaquin Frausto<sup>2</sup>  
Dyan Raylene Gruber<sup>2</sup>  
*2nd Major: Advertising*  
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Kyu Young Im  
Erin Rachel Johnston  
Ian Lee Matthews<sup>3</sup>  
Lizette Montero<sup>1</sup>  
Taylor Christopher Moore  
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Destiny Nichole Dilleshaw  
Courtney Kristin Hays<sup>3</sup>  
Shazia Husain<sup>2</sup>  
Katherine Elizabeth Northup<sup>3</sup>  
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Alyana Tovar<sup>2</sup>  
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Jabari Patrick Dawkins  
Madison Faith Douglass<sup>3</sup>  
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Donovan Young

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Kenneth James Bohuslav  
Catherine Capote<sup>3</sup>  
*2nd Degree: Marketing*  
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Matthew William Finney  
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Dennis Jefferson Bowles III  
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Jonathon Matthew Cao  
Natalia Saraih Ceja-Ramirez  
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Tristan Malakai Cushway  
Mackenzie Leigh Earls  
Sydni Claire Ellisor  
Greer Ren'E Franklin  
Karoline Louise Fromme<sup>2</sup>  
Gwendolyn E. Hall  
Stephanie Renee Hartnett  
Madison Nicole Hayes  
Kenadee Alexis Hess<sup>1</sup>  
Morgan Ashleigh Johnson<sup>1</sup>  
*2nd Degree: Agricultural Communications*  
Madison Jones<sup>2</sup>  
Kayla Irena Kunkel<sup>2</sup>  
Emily Joy Mathson<sup>2</sup>  
Tea Victoria McGilvray  
Avery Elizabeth Muckey  
Sabrina Elizabeth Ritchie  
Fernando Santos  
Petra Firas Shaban  
Dalton John Stokes  
Kendall Rene' Tanner  
Aubree Shay Traylor  
Kailee Grace Walters<sup>1</sup>

<sup>1</sup>Summa Cum Laude <sup>2</sup>Magna Cum Laude <sup>3</sup>Cum Laude <sup>4</sup>With Honors <sup>5</sup>With Highest Honors



TEXAS TECH UNIVERSITY  
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Janismae Erika Tyus

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Jonathan Pete Molina<sup>1</sup>  
*2nd Degree: Mathematics*  
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Jack Casey Terry

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Corynne May Anderson<sup>3</sup>  
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### THEATRE ARTS

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Laura Abundes<sup>1</sup>  
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Zachary Ray Bixler<sup>2</sup>  
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Chappelle Ar'Nis Johnson<sup>3</sup>  
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## COLLEGE BANNERS

The banners displayed at Texas Tech University commencement ceremonies are patterned on military, political, and trade guild insignia that date back to the Middle Ages and beyond. Known as gonfalons, they most closely resemble the flags created by Italian city states before and during the Renaissance. The Texas Tech University flags were individually designed to display symbols and colors that represent the areas of interest of each unit.

The **Faculty Banner** displays the university colors, red with black, and features the university seal encircled by the words “Seal of Texas Tech University.” The seal was designed by William Ward Watkin, the original campus master planner, in 1924. The shield is a black escutcheon quartered by a red cross, on which are arrayed 10 cotton bolls, symbolic of the importance of cotton to West Texas and representing

Lubbock County and the nine surrounding cotton-producing counties. These symbols also reflect one of the original missions of Texas Technological College: “To provide students with a thorough education in textiles and technical engineering.” The shield features emblems that evoke the university, community, state and nation. In the upper-left quadrant, a book symbolizes religion and academic traditions. A star in the upper-right corner stands for the Lone Star State of Texas. In the lower left a key represents home, and in the lower right the lamp of knowledge indicates the primary mission of Texas Tech University: “To develop and advance knowledge.” Above the shield, an eagle, the national bird of the United States, spreads its wings. Mindful of the claims of all these constituencies, the faculty of the university create, transmit, and preserve knowledge.

The **Davis College of Agricultural Sciences & Natural Resources** is proud to be unveiling a new banner design in

honor of the generous gift of Gordon W. Davis and Texas Tech’s centennial year. The background of the banner is black, accented with scarlet chevrons and the Double T, representing Texas Tech University. The banner is bordered by maize, the intercollegiate color for the agricultural disciplines. The placement



of the maize indicates the foundational nature of our college as one of the four founding schools of Texas Tech. In the center of the banner is a globe flanked by stalks of wheat reflecting the global scope of modern agriculture and natural resources management. The new banner was designed by Maeley Herring and Tristin Campbell.

### The Huckabee College of Architecture at Texas Tech University

originated as the Department of Architectural Engineering within the College of Engineering in 1927. In 1968, this department became the College of Architecture and moved into its current building on campus. In November 2022, the College of Architecture was renamed Huckabee College of Architecture and a new banner was created. The banner now reflects the new college name, the Double T logo, and a classic black and red theme. The banner was designed by the TTU Office of Communications & Marketing.



The blue background color of the **College of Education** banner reflects the light blue color designated for education by the Intercollegiate Code and is also seen in the velvet border of education master’s and doctoral hoods



and doctoral gowns. The upper area of the banner carries a school building encircled by the words “College of Education” and “Scholarship, Leadership, Service” to represent the primary roles of the college as a unit dedicated to preparing teachers and furthering educational scholarship, leadership, and service. The Double T logo appears at the bottom of the banner.

### The Jerry S. Rawls College of Business Administration

banner was designed through a collaborative effort of the staff in the college’s Undergraduate Services Center. The background color of the banner is drab. The central image on the banner is a map of the world centered on Lubbock with the Texas Tech University



Double T symbol rising from a focal point in the South Plains. The banner symbolizes the impact of globalization in the modern business environment.

### The College of Arts & Sciences

banner was redesigned in 2014 by Randy Lacy, unit coordinator in the college. Crafted with classical typography and bold lines, the banner replaces the previous college seal with the famous Double T logo. The red and black colors appropriately represent the largest and most diverse college in the university.



The **Graduate School** banner is blue. Imposed on this background is a white circle within a light blue one. These circles contain the image of a golden open book and a burning lamp. The open book symbolizes knowledge and the lamp represents a light by which to study. The banner was designed by the late Associate Dean



Thomas Langford and Ms. Beth Cain, who was a Graduate School staff member and artist for many years.

The banner of the **Edward E. Whitacre, Jr. College of Engineering** features the seal of the college set on a field of orange, the academic color for engineering. The seal of the college, inspired by a 2009 design by chemical engineering student Unwana Essien, is encircled with a border of red, white, and black, symbolizing the spirit of Texas Tech University and the Red Raiders. The two stars represent the ethical duty of engineers to themselves and society. The four symbols in the center of the seal stand for the foundations of engineering:

- The light bulb, surrounded by a ribbon and questions, represents the inspiration of engineers to answer questions and solve problems.
- The square and globe represent the engineer's work as building blocks for the world.
- The hammer and screwdriver represent the practical application of the engineer's work.
- The atomic figure surrounding the beaker represents the confluence of math, science, and technology in the mind of the engineer.

The **Honors College** banner features a sky blue field onto which is placed a silhouette of one of the Administration Building bell towers in dark blue. Superimposed on the silhouette is the Honors College emblem in gold: an open book that transforms into a bird taking flight. This symbol represents how learning stimulates human creativity. At the bottom of the banner are the words in gold: "University Honors College."



The **College of Human Sciences** banner was redesigned in 2016 and adapted



from an original design by former faculty member Dr. Ben Goh. The design depicts an adult, an adolescent, and a child. The diversity of faces and ages represents the families and communities served by the college in its mission to improve and enhance human lives through teaching, research, and outreach. The image of the globe represents the goal of not only serving the lives of those in the local community but also connecting with the global community.

The **College of Media & Communication** banner illustrates waves of information emanating from a single point—one voice heard by many.



The banner is white with a crimson background framing waves of information reaching the public. Crimson is the color assigned by the Intercollegiate Code to journalism, the common core subject area of the college. The white field represents honesty, decency, and purity. Beneath the crimson is the name of the college.

The banner for **University Studies** exhibits the colors of Texas Tech with a red background trimmed in black. The focus of the banner is the silhouette of the Administration Building's bell tower, which is an iconic symbol of Texas Tech. Just as the university is comprised of many parts, University Studies integrates multiple programs from colleges across the university. The traditional Double T placed in a window of the tower signifies the future that awaits students who



complete these programs in preparation for successful careers.

The **J.T. & Margaret Talkington College of Visual & Performing Arts** banner is designed to represent the three schools



that make up the college. The abstract design inspires intellectual skill, artistic ability, and creative thinking, representing the students emerging from the college. Subtle shapes hint at lines in reading music, sound waves for

theatre and dance, and line and shape to include the arts. Chloe Walser, an artist, graphic designer, and graduate from the School of Art, designed the banner for her commencement ceremony in May 2022.

The symbols on the **Texas Tech University Libraries'** banner reinforce the idea that the Library is the center of knowledge on campus. As such, it is the guardian and giver of knowledge and information. The key in the foreground



of the banner symbolizes the Libraries' role as guardian and safe keeper of all ideas. In the not too distant past, knowledge was considered sacred or something that was best kept locked away, thus the symbolism

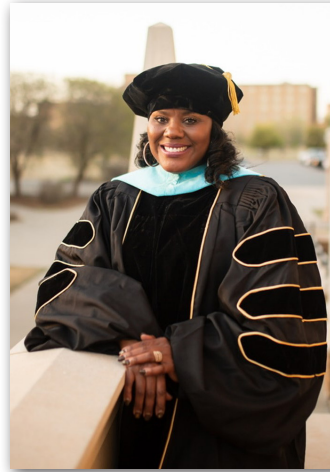
of the key. The flames symbolize the Libraries' other and equally important role as the giver of knowledge, providing access to wisdom. For centuries, the use of fire was believed to be man's first step on the path to civilization; one characteristic of fire is its ability to spread, which represents the Library's role as purveyor of knowledge. The colors of the flames symbolize the three broad branches of knowledge; scarlet for humanities, gold for sciences, and the purple flame for social sciences.



## ACADEMIC DRESS AND PROCESSION



**MASTER'S ROBE:** Velvet facing around the neck corresponds to color representing the field of study; hood lining represents the colors of the institution that conferred the degree.



**DOCTORAL ROBE:** Velvet facing on front of robe and three bars on sleeve correspond to color representing the field of study; hood lining represents the colors of the institution that conferred the degree.



Wearing academic dress at commencement ceremonies dates from the early history of the oldest universities created during the twelfth and thirteenth centuries. Because educated people were almost always of the clergy, the black gown is an adaptation of the “cope,” a long mantle or cloak of silk or other cloth worn by church dignitaries in processions and on other occasions. The long gown and cowl (similar to the academic hood of today) were worn by priests and monks for warmth in the cold medieval buildings.

In the early centuries, a great diversity of color and style of cap, gown, and hood appeared in different universities of Europe. The European custom of wearing academic dress was later introduced at American colleges. Not until after 1895 was a uniform academic code of dress adopted by most U.S. colleges and universities. Today, the black robe, hood, and cap are worn at most institutions of higher learning. Some institutions have authorized doctoral gowns in colors other than the customary black.

The gowns used in American academic ceremonies vary according to the highest degree awarded to the wearer. Usually the bachelor's robe has long pointed sleeves and the master's has oblong sleeves, square at the end with a slit at the elbow. The doctoral gown is a more elaborate robe faced down the front with velvet and across the bell-shaped sleeves with three bars of velvet. The velvet facing and bars may be of the color distinctive to the field of study.

The doctoral hood has side panels and is slightly longer than the one worn for the master's degree. The color used in the velvet border of the hood indicates the field of study. The velvet border is widest on the doctor's hood, and the colors of the lining indicate the college or university that conferred the degree.

For example, those who have received advanced degrees from Texas Tech University wear hoods lined with red and black.

The Oxford—the so-called mortarboard—is black and has a long tassel fastened to the center. The tassel is usually worn with the pendant over the left front of the cap. Different colored tassels are often worn on the bachelor's and master's caps to indicate the type of degree. The tassel on the cap of the doctoral candidate, except for professional degrees, is either gold or black. The doctoral degree holders may also wear the velvet tam with a gold tassel.

Candidates for the undergraduate degree will wear the tassel on the right side of the cap at commencement. After the degrees have been conferred, baccalaureate degree recipients will turn the tassel to the left side of the cap, thus showing that they are now graduates. Those graduates who have the official Texas Tech Alumni Association class ring are invited to turn their rings at this time.

Candidates wearing red cords have earned the Latin designations of cum laude, magna cum laude or summa cum laude based on a minimum 3.5 cumulative grade point average. Candidates wearing kite-shaped medallions are Honors College graduates earning a minimum of 24 hours of Honors coursework. Medallions with red ribbons indicate a notation of “With Honors” (non-thesis) and gold ribbons indicating a notation of “With Highest Honors” (thesis).

Phi Beta Kappa students may wear their membership key as well as the society's dark blue honor stole and/or pink and blue honor cords. Members of Phi Kappa Phi, Mortar Board, and other honor societies may likewise display their societies' medallions and honor cords. Texas Tech University has five university-wide honoraries: Golden Key, Mortar Board, Omicron Delta Kappa, Phi Beta Kappa, and Phi Kappa Phi.



## COLORS REPRESENTING FIELDS OF STUDY

The following is a list of colors established by the Intercollegiate Code representing departments of learning and fields of study:

Maize | Agriculture  
Blue-Violet | Architecture  
White | Arts, Letters and Humanities  
Drab | Business Administration  
Lilac | Dentistry  
Copper | Economics  
Light Blue | Education  
Orange | Engineering  
Brown | Fine Arts  
Russet | Forestry  
Maroon | Human Sciences  
Crimson | Journalism  
Purple | Law  
Lemon | Library Science  
Green | Medicine  
Pink | Music  
Apricot | Nursing  
Silver Gray | Oratory (Speech)  
Olive Green | Pharmacy  
Dark Blue | Philosophy  
Sage Green | Physical Education  
Peacock Blue | Public Administration  
Salmon Pink | Public Health  
Gold-Yellow | Science  
Citron | Social Work  
Scarlet | Theology or Divinity  
Gray | Veterinary Science

## HONOR CORDS / MEDALLION

The following is a list of honor cords/medallions issued by colleges.

Agricultural Sciences & Natural Resources | Green  
Architecture | White and Gold  
Arts & Sciences | Royal Blue  
Business Administration | Royal Blue and Gold  
Education | Jade Green and Violet  
Engineering | Orange  
Honors | Honors Medallion  
Human Sciences | Maroon  
Media & Communication | Crimson  
University Programs | Red  
Visual & Performing Arts | Brown  
Wind Energy | Blue and Green



**UNDERGRADUATE ROBE:** A red stole displaying the Double T and seal of Texas Tech University distinguishes students receiving baccalaureate degrees. Degree candidates wearing red cords will graduate with honors designations based on a minimum 3.5 GPA.

## TEXAS TECH COMMENCEMENT ANNOUNCEMENTS

### GRADUATE PHOTOGRAPHS

A professional photographer will be taking photos of graduates as they receive their diplomas. You may view and order photos online at [www.candidcolorphotography.com](http://www.candidcolorphotography.com). Click on "view proofs" and then "graduations." Images will be posted within 48 hours of the ceremony. Photographers also will be available after the ceremony for photos of friends and family with the graduates. Photographers will be located outside the arena near the north parking lot. There is no charge or obligation for having these photos taken.

### COMMENCEMENT DVD

The Texas Tech Alumni Association encourages graduates to order a Texas Tech Commencement DVD to commemorate their achievement. The \$45 purchase also will include a one-year Texas Tech Alumni Association gift membership. This membership will help graduates stay connected to Texas Tech. To reserve a copy of today's ceremony, complete and mail an order form located at one of the tables in each corner of the concourse. Do not leave the forms on the tables. Please mail them to the address on the form. To learn more about the Alumni Association, visit [www.TexasTechAlumni.org](http://www.TexasTechAlumni.org) or call 806.742.3641.

## RECEPTIONS AND OTHER CEREMONIES

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### INDIVIDUAL COLLEGE RECEPTIONS

*Immediately After Commencement Ceremony, Unless Otherwise Indicated*

**Davis College of Agricultural Sciences & Natural Resources** | Texas Tech Dairy Barn

Saturday, December 17, 10:30 a.m. – 1:00 p.m.

**Huckabee College of Architecture** | Architecture Gallery, 1st Floor of College of Architecture

**College of Arts & Sciences** | Holden Hall, Room 104 | Friday, December 16, 2:30 – 5:30 p.m.

**Jerry S. Rawls College of Business Administration** | McCoy Atrium | Saturday, December 17, 11:30 a.m. – 1:00 p.m.

**College of Education** | Diploma Distribution, First Floor Staircase, College of Education

**Edward E. Whitacre, Jr. College of Engineering** | Livermore Center | Saturday, December 17, 11:00 a.m. – 1:00 p.m.

**College of Human Sciences** | El Centro, Human Sciences Building | Saturday, December 17, 2:30 – 4:30 p.m.

**College of Media & Communication** | Ballroom, Student Union Building

**J.T. & Margaret Talkington College of Visual & Performing Arts** | Maedgen Theatre Building

Saturday, December 17, 4:00 – 6:00 p.m.

**University Studies** | Red Raider Lounge, Student Union Building | Saturday, December 17, 1:30 – 4:00 p.m.

### MILITARY COMMISSIONING

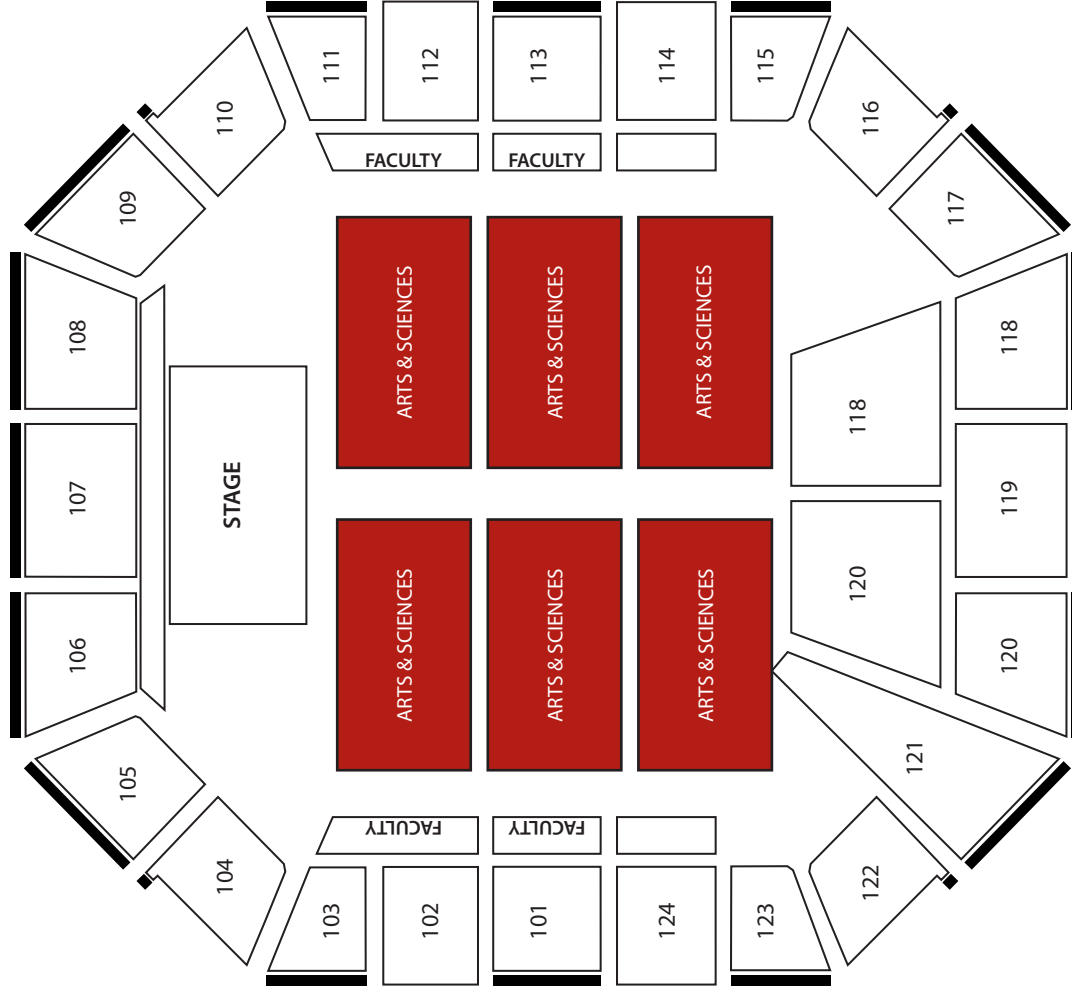
**Army ROTC** | Army ROTC/MILS Offices, Weeks Hall | Monday, December 19, 10:00 a.m.







FRIDAY, DECEMBER 16, 2:00 p.m.

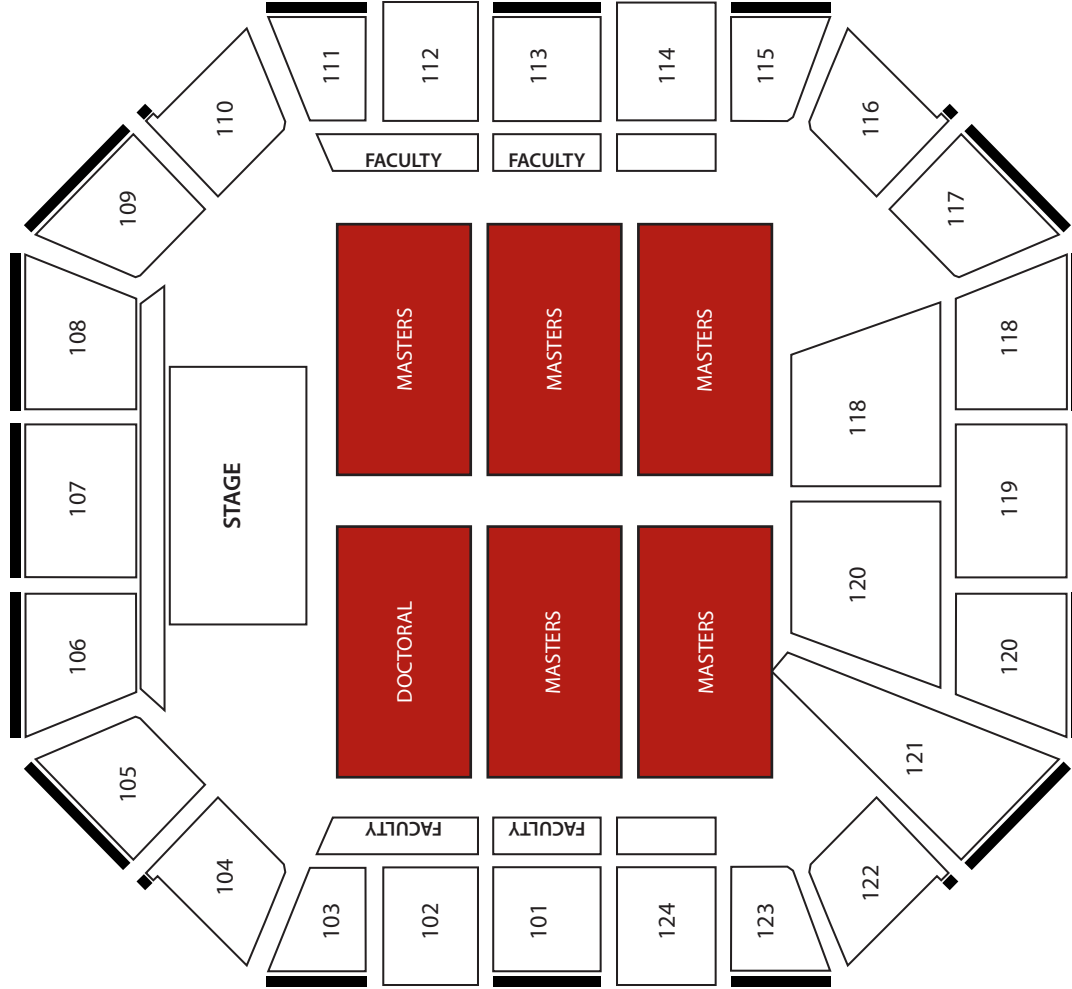


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FRIDAY, DECEMBER 16, 6:30 p.m.



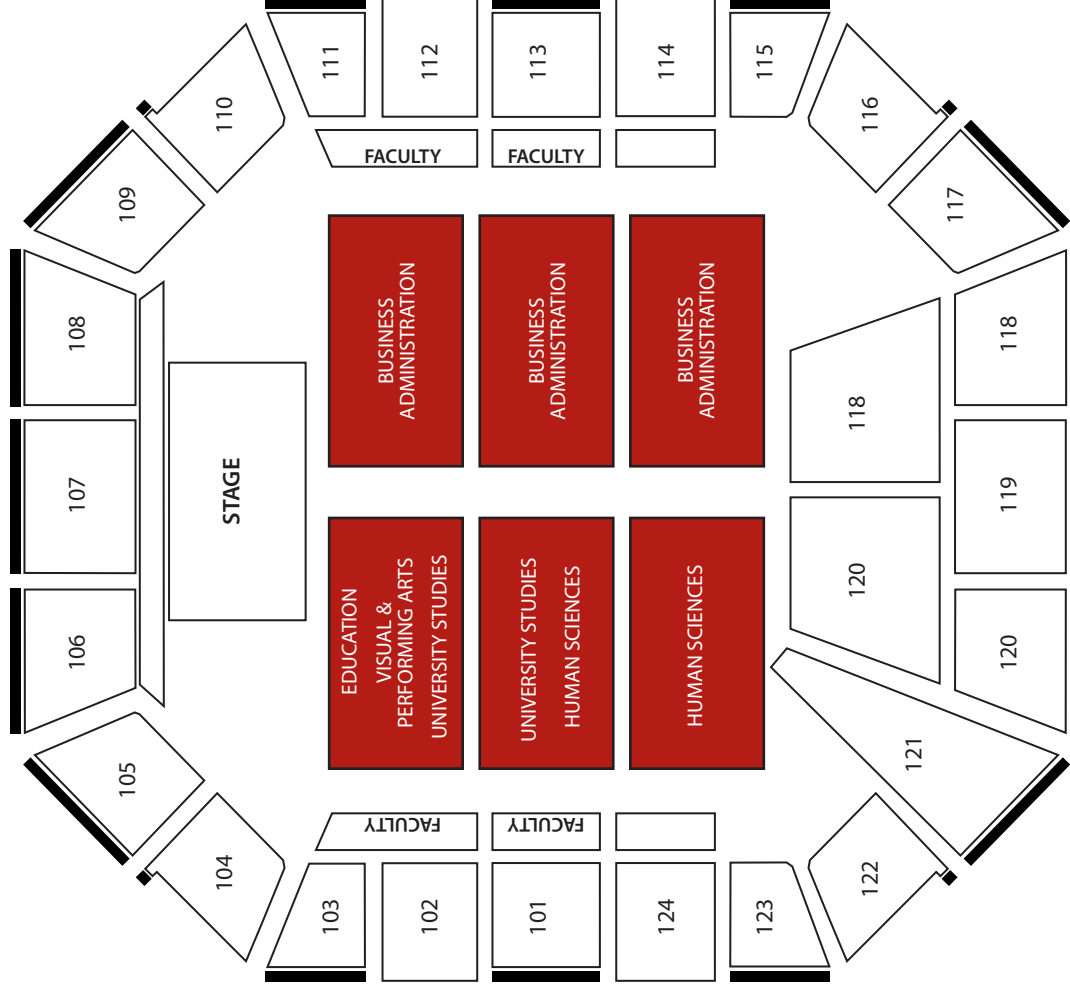
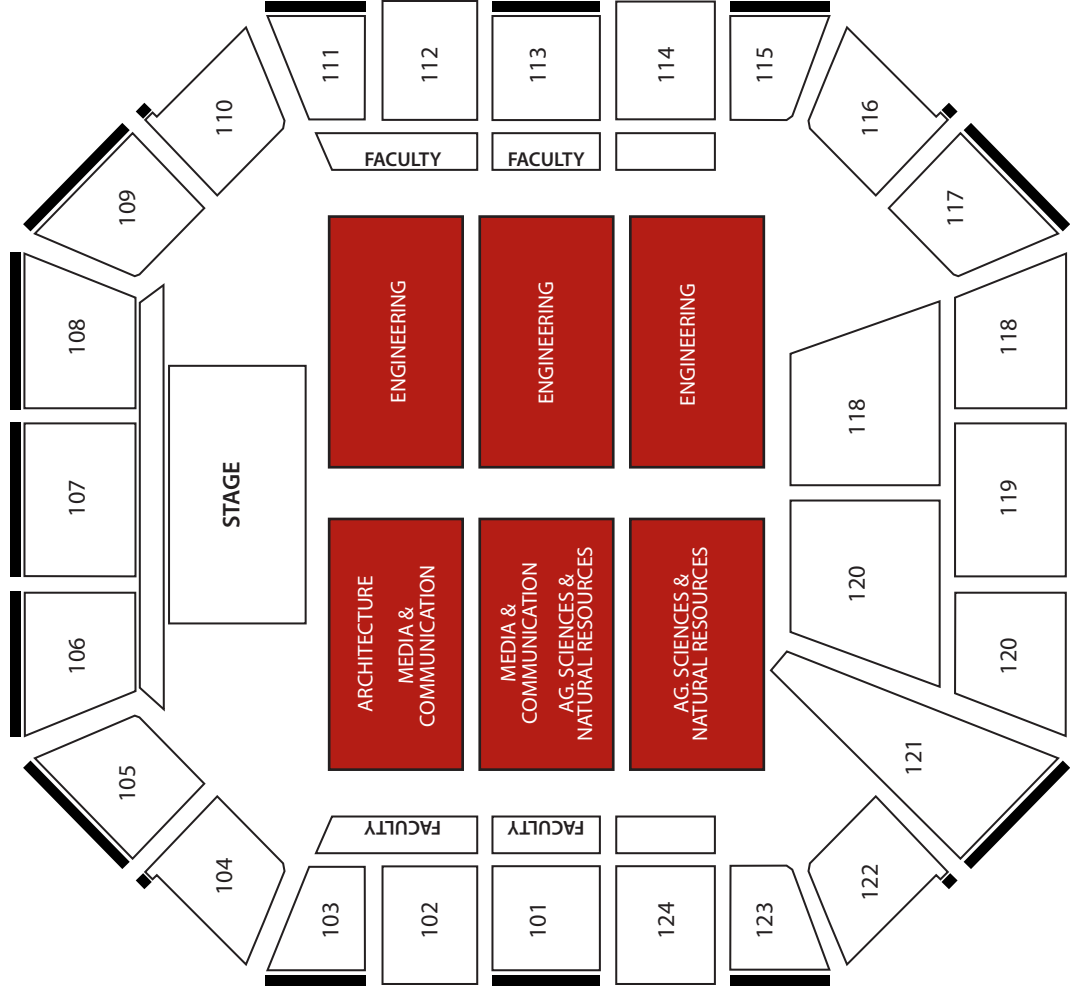
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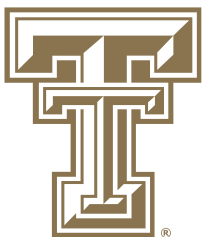


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SATURDAY, DECEMBER 17, 9:00 a.m.

SATURDAY, DECEMBER 17, 1:30 p.m.





# TEXAS TECH UNIVERSITY®

The first athletic teams of the university were known as the Matadors, a name that reflected the Spanish architectural influence on campus. The change from Matadors to Red Raiders occurred after a *Lubbock Avalanche-Journal* writer commented on the red uniforms and strong season of the 1932 football team, saying “the Red Raiders from Texas Tech” were the “terror of the Southwest Conference.” The name caught on and by 1936 the team was renamed the Red Raiders. No changes were ever made to the lyrics of the school song, which was penned in 1930. Page from 1936 Student Handbook courtesy of the Southwest Collection.

WORDS BY  
R. C. MARSHALL  
STUDENT 1930  
TEXAS TECH COLLEGE

## MATADORS

MUSIC BY  
HARRY LEMAIRE  
BANDMASTER  
TEXAS TECH COLLEGE

Voice

Fight Mat-a-dors for Tech. Songs of love we'll  
sing to thee. Bear our ban-ners far and wide.  
Ev-er to be our pri-de. Fear-less cham-pions ev-er be.  
Stand on heights of vic-tor-y. Strive for hon-or  
ev-er more. Long live the Mat-a-dors