

# *Commencement*

FALL 2018

Lubbock, Texas

December 14-15





TEXAS TECH UNIVERSITY®

FALL 2018

# *Commencement*

Friday, December 14, 2018  
Saturday, December 15, 2018  
UNITED SUPERMARKETS ARENA

3:00 p.m. and 7:00 p.m.  
9:00 a.m. and 1:30 p.m.  
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*

MICHAEL L. GALYEAN, Ph.D.

*Provost and Senior Vice President;  
Horn Professor; Thornton Chair in Animal and Food Sciences*

JOSEPH HEPPERT, Ph.D.

*Vice President for Research;  
Professor of Chemistry*

NOEL SLOAN, J.D., CPA

*Vice President for Administration & Finance,  
Chief Financial Officer*

CAROL SUMNER, Ed.D.

*Vice President for Diversity, Equity and Inclusion*

## TEXAS TECH UNIVERSITY SYSTEM CHANCELLOR / BOARD OF REGENTS

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Texas Tech University System*

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## ACADEMIC OFFICERS

MARK SHERIDAN, Ph.D.

*Vice Provost for Graduate and  
Postdoctoral Affairs;  
Dean, Graduate School;  
Professor of Biology*

W. BRENT LINDQUIST, Ph.D.

*Dean, College of Arts & Sciences;  
Professor of Mathematics*

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*Dean, College of Human Sciences;  
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Institutional Management*

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

*Dean, School of Law;  
Professor of Law*

MARGARET L. WILLIAMS, Ph.D.

*Dean, Jerry S. Rawls College of  
Business Administration*

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*Dean, College of Media & Communication;  
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Electronic Media/Public Relations*

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Sciences & Natural Resources; Professor,  
Animal and Food Sciences*

ROBIN LOCK, Ph.D.

*Acting Dean, College of Education;  
Professor of Special Education*

NOEL ZAHLER, D.M.A.

*Dean, J.T. & Margaret Talkington  
College of Visual & Performing Arts;  
Professor of Music*

JIM WILLIAMSON, M.Arch.

*Dean, College of Architecture;  
Professor of Architecture*

AL SACCO, JR., Ph.D.

*Dean, Edward E. Whitacre, Jr.  
College of Engineering;  
Professor of Chemical Engineering*

BELLA KARR GERLICH, Ph.D.

*Professor and Dean of Libraries*

MICHAEL SAN FRANCISCO, Ph.D.

*Dean, Honors College;  
Professor of Biology*



**F**ROM 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. As the only campus in Texas that is home to a major university, law school, and medical school, 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 38,000 students enrolled in its 11 colleges: Agricultural Sciences & Natural Resources, 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 Programs via the Provost's Office. The institution's goal is to enroll 40,000 students by 2020.

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—which includes Texas Tech University, Angelo State University, Texas Tech University Health Sciences Center, and Texas Tech University Health Sciences Center at El Paso—has more than 44,000 students enrolled.















**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 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.

Not all graduates will achieve fame and fortune in equal measure, but 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 14, 2018**  
**3:00 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. Anissa Garcia <i>Graduating with a Bachelor of Music</i>
Welcoming Remarks	Mr. John Esparza <i>Board of Regents, Texas Tech University System</i>
Introduction of Commencement Speaker	Dr. Lawrence Schovanec
Commencement Address	Mr. Edward E. Whitacre, Jr. <i>Former Chairman &amp; CEO, General Motors Company; Chairman Emeritus, AT&amp;T Inc.</i>
Conferring of Degrees	Dr. Lawrence Schovanec Dr. Michael Galyean <i>Provost and Senior Vice President</i>
Presentation of Bachelor's Degree Candidates	Dr. W. Brent Lindquist <i>Dean, College of Arts &amp; Sciences</i>
Recognition of Outstanding Students Class of 2018	Dr. Michael Galyean
Charge to the Graduates	Dr. Lawrence Schovanec
Alma Mater <i>(Words on Back Cover)</i>	Mr. Gabriel Treviño <i>Graduating with a Bachelor of Music</i>
Recessional*	Texas Tech Commencement Band

*\* Please remain seated during the Processional and Recessional*



# COMMENCEMENT CEREMONY

**Friday, December 14, 2018**  
**7:00 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	Mr. Fabian Griffith <i>Graduating with a Master of Music</i>
Welcoming Remarks	Mr. John Walker <i>Board of Regents, Texas Tech University System</i>
Introduction of Commencement Speaker	Dr. Lawrence Schovanec
Commencement Address	Mr. Edward E. Whitacre, Jr. <i>Former Chairman &amp; CEO, General Motors Company; Chairman Emeritus, AT&amp;T Inc.</i>
Conferring of Degrees	Dr. Lawrence Schovanec Dr. Michael Galyean <i>Provost and Senior Vice President</i>
Presentation of Doctoral and Master's Degree Candidates	Dr. Mark Sheridan <i>Vice Provost for Graduate and Postdoctoral Affairs; Dean, Graduate School</i>
Recognition of Outstanding Students Class of 2018	Dr. Michael Galyean
Charge to the Graduates	Dr. Lawrence Schovanec
Alma Mater <i>(Words on Back Cover)</i>	Mr. Fabian Griffith <i>Graduating with a Master of Music</i>
Recessional*	Texas Tech Commencement Band

*\* Please remain seated during the Processional and Recessional*

# COMMENCEMENT CEREMONY

**Saturday, December 15, 2018**  
**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. Marissa Garcia <i>Graduating with a Bachelor of Music</i>
Welcoming Remarks	Mr. John Walker <i>Board of Regents, Texas Tech University System</i>
Introduction of Commencement Speaker	Dr. Lawrence Schovanec
Commencement Address	Mr. Edward E. Whitacre, Jr. <i>Former Chairman &amp; CEO, General Motors Company; Chairman Emeritus, AT&amp;T Inc.</i>
Conferring of Degrees	Dr. Lawrence Schovanec Dr. Michael Galyean <i>Provost and Senior Vice President</i>
Presentation of Bachelor's Degree Candidates	Dr. Margaret Williams <i>Dean, Jerry S. Rawls College of Business Administration</i> Dr. William Brown <i>Dean, College of Agricultural Sciences &amp; Natural Resources</i> Dr. Patrick Hughes <i>(presenting University Studies and Wind Energy degrees)</i> <i>Associate Vice Provost for University Programs and Student Success</i> Dr. Brian Steele <i>Associate Dean, J.T. &amp; Margaret Talkington College of Visual &amp; Performing Arts</i>
Recognition of Outstanding Students Class of 2018	Dr. Michael Galyean
Charge to the Graduates	Dr. Lawrence Schovanec
Alma Mater <i>(Words on Back Cover)</i>	Mr. Gabriel Treviño <i>Graduating with a Bachelor of Music</i>
Recessional*	Texas Tech Commencement Band

*\* Please remain seated during the Processional and Recessional*



# COMMENCEMENT CEREMONY

**Saturday, December 15, 2018**  
**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. Marissa Garcia <i>Graduating with a Bachelor of Music</i>
Welcoming Remarks	Mr. Tim Lancaster <i>Chairman, Board of Regents, Texas Tech University System</i>
Introduction of Commencement Speaker	Dr. Lawrence Schovanec
Commencement Address	Mr. Edward E. Whitacre, Jr. <i>Former Chairman &amp; CEO, General Motors Company; Chairman Emeritus, AT&amp;T Inc.</i>
Conferring of Degrees	Dr. Lawrence Schovanec Dr. Michael Galyean <i>Provost and Senior Vice President</i>
Presentation of Bachelor's Degree Candidates	Dr. Al Sacco, Jr. <i>Dean, Edward E. Whitacre, Jr. College of Engineering</i> Dr. Michael San Francisco <i>Dean, Honors College</i> Dr. Robin Lock <i>Acting Dean, College of Education</i> Prof. Jim Williamson <i>Dean, College of Architecture</i> Dr. Tim Dodd <i>Associate Dean, College of Human Sciences</i> Dr. David Perlmutter <i>Dean, College of Media &amp; Communication</i>
Recognition of Outstanding Students Class of 2018	Dr. Michael Galyean
Charge to the Graduates	Dr. Lawrence Schovanec
Alma Mater (Words on Back Cover)	Ms. Jordan Sanchez <i>Graduating with a Bachelor of Music</i>
Recessional*	Texas Tech Commencement Band

*\* Please remain seated during the Processional and Recessional*



Ed Whitacre, Jr. joined General Motors as chairman when the new company launched in July 2009, and held that position until the end of December 2010. He also served as chief executive officer from December 2009 through August 2010. In his expanded leadership role, Whitacre set a clear vision for GM: Design, build, and sell the world's best vehicles.

As chairman and CEO of AT&T from 1990 until retiring in June 2007, Whitacre led then-SBC Communications (SBC) on a disciplined growth strategy and through a series of industry-changing mergers and acquisitions, including the 2005 acquisition of AT&T Corp., after which the company adopted the venerable name, AT&T Inc. (AT&T).

Under Whitacre's leadership, SBC made significant domestic and international investments. In addition, SBC established several groundbreaking strategic partnerships with companies such as Yahoo! and EchoStar, enabling SBC to set the pace for DSL sales as well as enter the video market. SBC joined with BellSouth to create Cingular Wireless, which in 2004 acquired AT&T Wireless. SBC and the new AT&T have been repeatedly named by *Fortune* magazine as the most admired telecommunications company in America and the world. *Forbes* magazine named AT&T "Company of the Year" for 2006.

Whitacre previously served as a member of The Business Council, the President's National Security Telecommunications Advisory

Committee, and the boards of the Institute for International Economics, Anheuser-Busch Companies, Burlington Northern Santa Fe Corporation, Exxon Mobil Corporation, and the PGA Tour.

Born on November 4, 1941 in Ennis, Texas, he graduated from Texas Tech University in 1964 with a bachelor's degree in industrial engineering. He began his career with Southwestern Bell Telephone Company in 1963 as a facility engineer in Lubbock, Texas.

Whitacre's leadership extends into the community, where he has been actively involved with the Boy Scouts of America, the Board of Regents of Texas Tech University, Texas Tech University Health Sciences Center, and United Way.

In recognition of his commitment to business and community, Whitacre was named one of the Top 25 Executives of the Year by *BusinessWeek*. He also has earned a number of awards for his contributions to business and civic affairs, including the Corporate Leadership Award from the National Minority Supplier Development Council and the Obelisk Leadership Award.

His book, "American Turnaround — Reinventing AT&T and GM and the Way We Do Business in the USA," with Leslie Cauley, was released in February 2013.

He holds an honorary Doctor of Humane Letters from University of Incarnate Word in San Antonio, Texas, and an honorary Doctor of Laws from University of the Pacific in Stockton, California.

Mr. Whitacre is married to Linda Whitacre, and they have two married daughters and four grandchildren.



# ACKNOWLEDGEMENTS

## CONVOCATIONS COMMITTEE

Ms. Heidi Winkler, Chair  
Dr. Courtney D Gibson, Co-Chair  
Mr. Ian Barba  
Ms. Shelley Barba  
Mr. Jacob M. Baum  
Dr. Shane Blum  
Dr. Rhonda Boros  
Dr. Valerie Borum  
Dr. Alec Cattell  
Ms. Luciana C. Cavazos  
Dr. Julie Chang  
Dr. Danny Choi  
Mr. Don Collier  
Dr. Fanni Coward  
Dr. John A. Dawson  
Dr. Audra Day  
Ms. Esther De Leon  
Ms. Amiee Dixon  
Prof. Genevieve Durham  
Dr. Nadia Flores  
Ms. Jordan Frierson  
Dr. Kristi Gaines  
Dr. Michael Giesselmann  
Mr. Ben Haugland  
Dr. Vijay Hegde  
Ms. Laura Heinz  
Dr. Annette Hernandez  
Ms. Markicia Horton  
Dr. Catherine Jai  
Mr. Jesse Jou  
Ms. Jessica Kirschner  
Dr. Belinda Kleinhans  
Dr. Erin Marie Legacey  
Dr. Jonathan Marks  
Dr. Barent McCool  
Ms. Sheon Montgomery  
Dr. Mark Moore  
Mr. Damian Pantoya  
Dr. Michelle Pearson  
Ms. Gabi Perez-Hunt  
Mr. Tom Rohrig  
Dr. Jhones Sarturi  
Ms. Courtney Seely  
Dr. Walter Smith  
Ms. Stephanie Soto  
Ms. Carrye Syma  
Mr. Jake Syma  
Dr. Marcus Tanner  
Dr. Leslie Thompson  
Dr. Susan Tomlinson  
Mr. Von Venhuizen  
Dr. Jian Wang  
Mr. Seth Warren-Crow  
Dr. Richard Watson  
Dr. Lynn Whitfield  
Ms. Feruzan I Williams  
Dr. Aliza Wong  
Ms. Kiley Yonavich

## MUSIC ENSEMBLE

The commencement music ensemble is comprised of students from the Texas Tech University School of Music under the direction of Dr. Sarah McKoin. Their participation is funded through the auspices of the Office of the President, Texas Tech University.

## COLLEGE READERS

*College of Agricultural Sciences & Natural Resources* – Dr. Erica Irlbeck  
*College of Architecture* – Mr. David Isern  
*College of Arts & Sciences* – Dr. Jorge Iber  
*Rawls College of Business Administration* – Mr. Derrick Ginter  
*College of Education* – Dr. Peggy Johnson  
*Whitacre, Jr. College of Engineering* – Dr. Tewodros Ghebrab  
*Graduate School* – Dr. Bill Gelber  
*Honors College* – Dr. Tewodros Ghebrab  
*College of Human Sciences* – Dr. Bill Gustafson  
*College of Media & Communication* – Dr. Todd Chambers  
*University Programs and Wind Energy* – Mr. Matthew Saldaña  
*Talkington College of Visual & Performing Arts* – Dr. Carolyn Cruse

## ADMINISTRATIVE REPRESENTATIVES

*College of Agricultural Sciences & Natural Resources* – Ms. Savannah Chambers  
*College of Architecture* – Ms. Anna Martinez-Lopez and 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. Tonette Rittenberry  
*Graduate School* – Ms. Vanessa Bara and Ms. Katie Chapman  
*Honors College* – Ms. Cheyenne Belew  
*College of Human Sciences* – Ms. Ashlee Brown  
*College of Media & Communication* – Ms. Julia Heard Witt  
*University Programs* – Ms. Kacey Marshall and Ms. Rachel Frazier  
*Talkington College of Visual & Performing Arts* – Ms. Kathy Nordstrom

## PROGRAM

This program was produced by the Office of the Provost in cooperation with the Convocation Committee and the Office of Official Publications at Texas Tech University, Garrett McKinnon, Director, and Lindsay Hollowell, Administrator.

## STUDENT BANNER BEARERS

*College of Agricultural Sciences & Natural Resources* – Ms. Rachel Little  
*College of Architecture* – Ms. Allison Brown  
*College of Arts & Sciences* – Ms. Caroline Gressett  
*Rawls College of Business Administration* – Ms. Kasey Self  
*College of Education* – Ms. Samantha Sharer  
*Whitacre, Jr. College of Engineering* – Ms. Carli Cassel  
*Graduate School* – Ms. Kembra Albracht-Schulte  
*College of Human Sciences* – Mr. Jacob Gurock  
*Honors College*  
3:00 p.m. – Ms. Anna Zimmerman  
9:00 a.m. – Ms. Katherine Holder  
1:30 p.m. – Ms. Kyleigh Richardson  
*College of Media & Communication* – Ms. Alexandra Oscarson  
*University Programs* – Mr. Derek Fairweather  
*Talkington College of Visual & Performing Arts* – Ms. Paige Nolan

## FACULTY BANNER BEARERS

3:00 p.m. – Alessandra Corsi, Ph.D.  
*Assistant Professor of Physics,*  
*College of Arts & Sciences*  
7:00 p.m. – Courtney Meyers, Ph.D.  
*Associate Professor of Agricultural Education and Communication, College of Agricultural Sciences & Natural Resources*  
9:00 a.m. – Lora Deahl, Ph.D.  
*Professor of Piano and Keyboard Literature,*  
*J.T. & Margaret Talkington College of Visual & Performing Arts*  
1:30 p.m. – Stephen Bayne, Ph.D.  
*Professor of Electrical and Computer Engineering and Associate Chair for Graduate Studies,*  
*Edward E. Whitacre, Jr. College of Engineering*

## LIBRARY BANNER BEARERS

3:00 p.m. – Mr. Joshua Salmans  
9:00 a.m. – Ms. Camille Thomas  
1:30 p.m. – Ms. Sara Schumacher

*This program is an unofficial list of Fall 2018 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.*

# 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



Professor Robly A. Glover carries the Presidential Mace he designed for Texas Tech University

### Graduate School Ceremony

7:00 P.M., DECEMBER 14 ..... TRENT SELTZER PH.D.  
*Associate Professor of Public Relations,  
Associate Dean of Graduate Studies  
College of Media & Communication*

### Undergraduate Ceremonies

3:00 P.M., DECEMBER 14 ..... BENJAMIN OWEN, PH.D.  
*Professor of Physics and Astronomy  
College of Arts & Sciences*

9:00 A.M., DECEMBER 15 ..... PETER WESTFALL, PH.D.  
*James and Marguerite Niver and Paul Whitfield Horn Professor of Statistics  
Jerry S. Rawls College of Business Administration*

1:30 P.M., DECEMBER 15 ..... KUHN PARK, M.ARCH.  
*Associate Professor of Architecture  
College of Architecture*

## GRADUATION HONORS

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

Carli R. Cassel  
Brooke Gabrielle Denesik  
Erica B. Donnelly  
Lauren Elisabeth Edwards  
Omar Diab El Arab  
Chad Ryan Evans  
Derek Fairweather  
Kathryn Cox Farrell  
Caroline Elizabeth Gressett

Maria Del Carmen Guerrero  
Chandler Court Harrison  
Lacey Nicole Jesko  
James Keenan Judge  
Rachel Sosebee Little  
Lauryn Shay Lusher  
Emily Louisa McCabe  
Gerardo Tueme Mendoza  
Jacy Lyn Mitchell

Sheedeh Motamedi  
Alexandra Kristina Oscarson  
Megan Ryan Pate  
Colleen Elizabeth Pert  
Thi Ha Giang Phan  
Daniel Blaine Powell  
Sydney Nicole Reagan  
Lexie Ann Schaefer  
Paige Hannah Schick

Jayme Danielle Schumacher  
Kasey Amanda Self  
Samantha Jayne Sharer  
Kaleb S. Teverbaugh  
Adan Noel Tijerina  
Megan M. Tupa  
Lan Ventura  
Renae Jean White  
Jeffrey Nichols Wise

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

Erin Kirsten Gorter

*Dissertation:* Exploration of Global Perspectives, Teacher Passion, and Professional Commitment of Second Stage Agriculture Teachers in the Western United States

*Major Professors:* Scott Burris and Julie Harlin

Leigha Dyan Pate

*Dissertation:* A Qualitative Study of Agricultural Lessons Used by Texas Teachers in Elementary Classrooms

*Major Professor:* Scott Burris

### HIGHER EDUCATION ADMINISTRATION

Joel Franklin Dykstra

*Dissertation:* Pre and Post Entry Factors that Affect Persistence at a Military Junior College

*Major Professor:* Fred Hartmeister

## DOCTOR OF MUSICAL ARTS

Sterling Hunter Fry

*Dissertation:* Teaching Beginning Saxophonists: The Pedagogical Approach of Five Middle School Band Directors in Texas

*Major Professor:* David Dees

Lucas Kristian Halley

*Dissertation:* Models of Successful Saxophone Studio Teaching: Three Interviews on Background, Process, and Teaching Philosophy

*Major Professor:* David Dees

Chong Wang

*Dissertation:* A New Training Technique for Using the Bel Canto Method to Sing Chinese Songs

*Major Professor:* Gerald Dolter

## DOCTOR OF PHILOSOPHY

### AGRICULTURAL COMMUNICATION AND EDUCATION

Gipsy Eliana Bocanegra Ochoa

*Dissertation:* The Effectiveness of Social Media as a Teaching Tool with Millennials

*Major Professor:* Todd Brashears

Magogo Juma Riziki

*Dissertation:* Price Transmission and Integration of African Indigenous Vegetables Markets: The Case of Narok and Kajiado Counties, Kenya

*Major Professor:* David Lawver

Cheryl Angela Williams

*Dissertation:* How Gender Groups Respond to Training in Reduction of Post-harvest Loss Reduction of Cassava: A Mixed Methods Study of Dewein and Senjeh Districts in Bomi County, Liberia

*Major Professor:* Amy Boren Alpizar

### BIOLOGY

Howard M. Huynh

*Dissertation:* Taxonomic Delimitation and Natural History of some Mammals in Atlantic Canada

*Major Professor:* Caleb Phillips

Sumit Mukherjee

*Dissertation:* Understanding the Role of Ergosterol Synthesis in *Leishmania* Major Stress Responses

*Major Professor:* Kai Zhang

Jennifer Rae Wallace-Smith

*Dissertation:* Overexpression of *RCA* and *AVP1* in Cotton Enhances Drought-, Heat-, and Salt-tolerance

*Major Professor:* Hong Zhang

### CHEMICAL ENGINEERING

Yifan Hao

*Dissertation:* Association Nonrandom Two Liquid Segment Activity Coefficient Model

*Major Professor:* Chau-Chyun Chen

Ashwin Ravichandran

*Dissertation:* Predicting Interaction Parameters of Thermodynamic Models from Simulations: Bridging Classical and Molecular Thermodynamics

*Major Professors:* Chau-Chyun Chen and Rayesh Khara

Naureen Shoukatali Suteria

*Dissertation:* Microfluidic Manometry and Rheology of Complex Fluids

*Major Professor:* Siva Vanapalli

Md Jasim Uddin

*Dissertation:* Allergen-free Pollen Shell as a Novel Biomaterial for Oral Vaccine Delivery: Development, Characterization in Vivo Efficacy and Mechanistic Insight

*Major Professor:* Harvinder Singh Gill

Songjing Yan

*Dissertation:* Applications of Passive Sampling Technology in HOCs Contaminated Sediment Management and Remediation

*Major Professor:* Danny Reible

### CHEMISTRY

Xiaoxia Gong

*Dissertation:* Development of Low Temperature Plasma Desorption/Ionization Mass Spectrometry for Organic Molecules Analysis from Exhaled Breath and Surfaces

*Major Professor:* Gerardo Gamez

Veronica Jane Lyons

*Dissertation:* The Study of the Role of the Human Transferrin Receptor (CD71) in Affinity Cell Separations for Pan-cancer Diagnosis and Subsequent Analyses

*Major Professor:* Dimitri Pappas

Josmalen Milagros Ramos-Lewis

*Dissertation:* Pericyclic Reactions and Pseudopericyclic Reactions: A Study of [1,5]-Sigmatropic Rearrangements in a Constrained System

*Major Professor:* David Birney



## GRADUATE CANDIDATES

Jayan Sathpura Pahan Ukwatta

*Dissertation:* Comparative Physiological and Transcriptomic Analysis Reveals the Salt Tolerance Mechanisms in Sorghum

[*Sorghum Bicolor (L.) Moench*]

*Major Professor:* Huazhong Shi

### CIVIL ENGINEERING

Ritesh Sevanthi Dilipan

*Dissertation:* Sustainable Resource Recovery in a Closed Loop System

*Major Professor:* Andrew Jackson

### COMPUTER SCIENCE

Mario Alberto Pitalua Rodriguez

*Dissertation:* Dynamic Clustering and Visualization of Variable Diffusion in Big Data

*Major Professor:* Susan Mengel

### COUNSELOR EDUCATION

Brandy Anne Mounts

*Dissertation:* The Influence of Education Regarding the International Adoption Process in United States Adoptive Parents

*Major Professor:* Loretta Bradley

Wendy Marie Risner

*Dissertation:* Non-suicidal Self-injury: Self-efficacy of Secondary School Counselors

*Major Professor:* Charles Crews

Logan Brooke Winkelman

*Dissertation:* University Career Counselors' Perceptions of Counseling International Students

*Major Professor:* Charles Crews

### COUPLE, MARRIAGE, AND FAMILY THERAPY

Natali Gonzalez Castañeda

*Dissertation:* Surviving Sex Trafficking: A Coping Journey

*Major Professor:* Jaclyn D. Cravens

Cody Robert Heath

*Dissertation:* The Relation Between "Outness" and Resilience among Sexual Minority Youth: The Moderating Effects of Family Support

*Major Professor:* Jaclyn D. Cravens

### CURRICULUM AND INSTRUCTION

Audrey Christine Meador

*Dissertation:* Environmental Variables for STEM Degree Interest and Goal Persistence: Examining the Experiences of Minority Students in the Rural Context

*Major Professor:* Shirley Matteson

Lesia Newman Presley

*Dissertation:* The Use of Evidence-based Instructional Practices in the Context of Undergraduate Biology: A Case Study

*Major Professor:* Aaron Zimmerman

Laura Beth Schisler

*Dissertation:* Teaching Engineering Self-efficacy of Elementary Teachers

*Major Professor:* Walter Smith

Tracee Ann Tomlinson

*Dissertation:* Navigating the Early College High School Experience: An Exploration of Social Capital on College Readiness of Underrepresented Students in a High School in the Southwest Region

*Major Professor:* Jeong-Hee Kim

Sheri L. Warren

*Dissertation:* Bringing Best Practices for Special Education Transition Services to Low Population Areas

*Major Professor:* Shirley Matteson

William Todd Witt

*Dissertation:* Effect of a Standards Based Informal Science Experience on Elementary Science Learning

*Major Professor:* Walter Smith

Minju Yi

*Dissertation:* Influence of van Hiele Theory-based Interventions on Elementary Preservice Teachers' Knowledge and Practice of Teaching 2-Dimensional Shapes: A Mixed Methods Study

*Major Professors:* Jian Wang and Raymond Flores

### ECONOMICS

Syed Muhammad Ishraque Osman

*Dissertation:* Essays in Labor and International Economics

*Major Professor:* Jan Duras

Hongjie Qiang

*Dissertation:* Three Essays on Pricing Strategies

*Major Professor:* Michael Noel

### EDUCATIONAL PSYCHOLOGY

Audrey Beth Heron

*Dissertation:* Exploring Relationships Between Student Perceptions in the Distance Learning Environment and Affective, Cognitive, and Motivational Learning Outcomes

*Major Professor:* William Lam

Shari Ann Kvashny

*Dissertation:* Principal Perceptions of School Psychologists Roles and Responsibilities in Texas Schools

*Major Professor:* Tara Stevens

Rachael Karen Phillips

*Dissertation:* Implicit Impact: An Experimental Study of Subtle Gender Bias in Undergraduate Teacher Candidates

*Major Professor:* Kamau Siwatu

Richelle Denise Whittaker

*Dissertation:* Exploring Factors that Predict African-American Middle and High School Boys' Academic Engagement

*Major Professor:* Kamau O. Siwatu

Haeni Alecia Young

*Dissertation:* The Relationship Between Preservice Teachers' Motivational Beliefs and Commitment to the Teaching Profession

*Major Professor:* Kamau O. Siwatu

### ELECTRICAL ENGINEERING

Kevin Lee Matlock

*Dissertation:* Algorithms Addressing Heterogeneity in Anti-cancer Drug Sensitivity Prediction Studies

*Major Professor:* Ranadip Pal

### ENGLISH

Chen Chen

*Dissertation:* Your Emergency Contact Has Experienced an Emergency: Poems and Your Grief is Also Your Resistance: Essays

*Major Professor:* Curtis Bauer

Joya Andaleeb Mannan

*Dissertation:* Colonial and Post-colonial Adaptations of Shakespeare in the Bengal and Indian Regions

*Major Professor:* Kanika Batra

### ENVIRONMENTAL TOXICOLOGY

Juliette Teresa Jordan

*Dissertation:* Determination of Carbon Nanotubes Effects on Plant Phenotype, Plant Physiology and Bollworm Development

*Major Professor:* Jaclyn Cañas-Carrell

Michelle Marie McManus

*Dissertation:* Neonicotinoid in the Aquatic Environment

*Major Professor:* Jaclyn Cañas-Carrell

Kelsey Nicole Thompson

*Dissertation:* In Search of Biomarkers of Acid Rock Drainage: Assessment of the Impact of Mining Activities and Remediation on Microbial Communities in Fresh and Brackish Water Ecosystems

*Major Professor:* Gregory Mayer

FAMILY AND CONSUMER  
SCIENCE EDUCATION

Shelliann Barnum

*Dissertation:* The Value of Family and Consumer Sciences Programs in the Public-school Curriculum in Utah: A State-wide Research Project  
*Major Professor:* Karen Alexander

Amanda Kathleen Holland

*Dissertation:* Family and Consumer Sciences Teachers' Perceptions Pertaining to their Recruitment, Confidence, and Persistence in the Profession  
*Major Professor:* Karen Alexander

Morgan Eliese House

*Dissertation:* Determining the Educational Needs and Attitudes of Nursing Home Professionals in Dealing with the Sexuality of their Residents  
*Major Professor:* Barbara Allison

Natalie Dawn Knesek

*Dissertation:* An Investigation of Family and Consumer Sciences Educators' Perceptions of Sibling Aggression and Bullying  
*Major Professor:* Karen Alexander

## GEOSCIENCES

Nicholas Houston Smith

*Dissertation:* A Sensitivity Study on Wind Ramp Events in the Columbia River Basin  
*Major Professor:* Brian Ancell

## HIGHER EDUCATION RESEARCH

Christine Self

*Dissertation:* Parent-College Student Conversations about Sexual Violence  
*Major Professors:* Valerie Paton and Fred Hartmeister

## HOSPITALITY ADMINISTRATION

Helena Alexandria Williams

*Dissertation:* Sustainable Gastro-tourism Destination Development  
*Major Professor:* Natalia Velikova

HUMAN DEVELOPMENT AND  
FAMILY STUDIES

Chinagorom Akwugo Duru

*Dissertation:* Socio-Emotional and Cognitive Outcomes of Children Born Preterm and Low Birth Weight  
*Major Professor:* Wonjung Oh

Yaolin Pei

*Dissertation:* Children's Educational Disparity, Intergenerational Relationships, and Older Adults' Psychological Well-being in Rural China  
*Major Professor:* Jean Pearson Scott

## INDUSTRIAL ENGINEERING

Hoyeol Kim

*Dissertation:* Investigation on Compatibility of Laser Additive Based Remanufacturing for AISI 4140 Alloy Steel Substrate: Bonding Behavior and Failure Mechanism  
*Major Professor:* Hong Chao Zhang

## MATHEMATICS

D Mudiyanseelage Pansujee Vidwanshani  
Dissanayaka

*Dissertation:* Statistical Analysis of Binocular Eye Gaze Trajectories  
*Major Professor:* Jingyong Su

Manjari Dissanayake

*Dissertation:* An Empirical Saddlepoint Approximation Method for Smoothing Survival Functions Under Interval-censoring and Classification of *C. Elegans* using Functional Data Analysis Methods  
*Major Professor:* Alex Trindade

## MECHANICAL ENGINEERING

Zhonglue Hu

*Dissertation:* Controllable Nanoshaping of Metallic Glass through Thermoplastic Drawing  
*Major Professor:* Golden Kumar

Amar Kamalnayan Patel

*Dissertation:* A Study on Navigation and Locomotion of Undulatory Micro-locomotors: A Study Inspired by *Caenorhabditis Elegans*  
*Major Professor:* Jerzy Bławdziewicz

Al Maqsudur Rashid

*Dissertation:* Estimation of Absorbed Dose to Adipose Tissue from Full Field Digital Mammogram Using Monte-Carlo Simulation  
*Major Professor:* Hanna Moussa

Ming Xu

*Dissertation:* Simulation-based Assessment for Biomechanical Behavior of Scoliotic Human Thoracolumbar Spine  
*Major Professor:* James Yang

Kailiang Zhang

*Dissertation:* Transapical Coaptation Plate for Functional Mitral Regurgitation: An In-vitro Study  
*Major Professor:* Zhaoming He

## MEDIA AND COMMUNICATION

Alexander Moe

*Dissertation:* "Are you hurt or are you injured?": Explaining the Effects of Narrative Communication Toward Underlying Normative Sentiments Pertaining to Health Perspectives within the Sport of Football  
*Major Professor:* R. Glenn Cummins

## NUTRITIONAL SCIENCES

Kembra Dawn Albracht-Schulte

*Dissertation:* Hepatoprotective Mechanisms of Eicosapentaenoic Acid in High-fat Fed Mice and Identification of Biomarkers for Non-alcoholic Fatty Liver Disease in Humans  
*Major Professor:* Naima Moustaid-Moussa

Yujiao Zu

*Dissertation:* Anti-obesity Effects of Adipose-targeting Resveratrol Nanocarriers  
*Major Professor:* Shu Wang

## PERSONAL FINANCIAL PLANNING

Eakamon Oumtrakool

*Dissertation:* Three Essays on the Time Use and Well-being of Retirees  
*Major Professor:* Charlene Kalenkoski

## PETROLEUM ENGINEERING

Yao Zhang

*Dissertation:* Air Injection EOR and its Application in Shale Oil Reservoirs  
*Major Professor:* James Sheng

## PLANT AND SOIL SCIENCE

Vimal Kumar Balasubramanian

*Dissertation:* Understanding the Genetic Factors Involved in Cell Wall Biosynthesis and Biomass Production  
*Major Professor:* Venugopal Mendu

Jaspreet Kaur

*Dissertation:* Explaining the Dynamics of Rare Plant Populations by Coupling Climatic, Edaphic and Microbial Constraints  
*Major Professor:* Jyotsna Sharma

SYSTEMS AND ENGINEERING  
MANAGEMENT

Armando Elizondo Noriega

*Dissertation:* A Dynamic Cost of Quality Study of Innovation in an Industrial Environment  
*Major Professors:* Mario Beruvides and David Güemes-Castorena

## GRADUATE CANDIDATES

Robert Tyler McClary

*Dissertation:* Systemic Archetype for High Reliability Organizations  
*Major Professors:* Mario Beruvides and Jamie Cantu

Oluwatosin Ogundare

*Dissertation:* An Analysis of Electrocardiograms in Developing Statistical Learning Models for Instantaneous Sleep Quality and Sleep Potential Prediction  
*Major Professor:* Dongping Du

Linh Ngoc Phan

*Dissertation:* Confirmatory Research of Minsky's Financial Instability Hypothesis for the 1945-2017 Era  
*Major Professor:* Mario Beruvides

Matthew B. Phelps

*Dissertation:* Hailstone and Freezer Iceball Mechanics and Damage Profiles  
*Major Professors:* Clifford B. Fedler and Milton L. Smith

Maureen August Short

*Dissertation:* Bias and its Effect on Situation Awareness  
*Major Professor:* Mario Beruvides

Naveen Tiruvengadam

*Dissertation:* Verification of the Adaptation of Total Productivity Management to Financial Data for Firm-level Productivity Evaluation  
*Major Professor:* Mario Beruvides

### TECHNICAL COMMUNICATION AND RHETORIC

Patricia R. Fausset

*Dissertation:* The Image and the Outbreak: An Epidemiological Approach to Visual, Textual and Content Analysis of a Photomicrograph of the Ebola Virus as Presented to Digital Audiences Across Multiple Genres and Cultures During a Global Health Crisis  
*Major Professor:* Kelli Cargile-Cook

Sarah Elizabeth Martin

*Dissertation:* UX for Mission Readiness: An Ecological, User-centered Design Approach to U.S. Government Acquisition  
*Major Professor:* Brian Still

### WIND SCIENCE AND ENGINEERING

Changda Feng

*Dissertation:* Estimations of Building Response to Stationary and Nonstationary Winds with Consideration of Inelastic and Aeroelastic Effects  
*Major Professors:* Xinzhong Chen and Daan Liang

### MASTER OF AGRIBUSINESS

Mary Failla

Jose Benjamin Gomez Mayorquin  
Brooke Camille Johnson  
Ashton Marie Katusak  
Ganesh Natarajan  
Pierre Emmanuel Koue Nibaud

### MASTER OF ARCHITECTURE

Samuel Antonio Angel  
Alejandro D. Arroyo  
Phyre Quickly Burns  
William Giovanni Cormier  
Ashleigh T. Daniel  
Juan Ricardo De Leon  
Ryan Philip Andre Dumas  
Ian Michael duPont  
Joshua Emmanuel Evans  
Joshua Dillon Hafel  
Taylor Alexis Hanttula  
Faith Ann Hardcastle  
Stephanie Lynn Helmberger  
Jorge Adan Ituarte-Arreola  
Oluwaseyi Emmanuel Mafi  
Nicole Michelle Nations  
William Logan Patton  
Matthew Jeva Royce  
Salvador Tito Sanchez  
Rodolfo Sigala Zubia

### MASTER OF ART EDUCATION

Christina Moorehead Brandt  
Carrie Paige Hubbard Gates  
Candace Yvette Printz

### MASTER OF ARTS

#### COMMUNICATION STUDIES

Taylor Marie Bingham  
Ma. Angela San Luis Labador  
*Thesis:* A Critical Examination of Decolonization and Cultural Transition  
Austin Tyson  
Elizabeth Jasmine Ureño Frank  
*Thesis:* Critical Examinations of Cultural Identity, Communication, and Empowerment in Multicultural Contexts

#### EXPERIMENTAL PSYCHOLOGY

Ashley Alexandra Garcia  
Sage Maliepaard

### HERITAGE AND MUSEUM SCIENCES

Shannon Kelsey Carr  
Andrew Scott DeJesse  
*Thesis:* Designing a Provenance Evaluation System for the Antiquities Market  
Ivana Alejandra Montenegro  
Jessica Elizabeth Stepp  
*Thesis:* The Viability of 3D Technologies to Increase Access to Museum Collections  
John-Henry Richard Voss  
*Thesis:* Museum Collections Management with Google Earth and GIS  
Hannah Joan Wilson

### HISTORY

Michael Scott Dennis  
*Thesis:* Plowshares in Swords: The Reactivation of the Iowa Class Battleships in the 1980s  
Philip Webster  
*Thesis:* Australian Armor in Vietnam: To What Extent Was It Critical?

### INTERDISCIPLINARY STUDIES

Taylor Willson Fidler  
Jacob Levi Gore  
D'Ann Holubec  
Jacquelyn L. Manz

### LANGUAGES AND CULTURES

Sumaia Ahmed Aldubaikhi  
Ghadi Matouq Alkabkabi

### MASS COMMUNICATIONS

Karla Estefanía Acero Vergara  
Ernesto J. Castillo  
Abby Elizabeth Hill  
Marisa Danyelle Hohensee  
Grace Katherine Kalka  
Lila Helen Lowe  
Joseph Michael Allen Marcades  
Alexander Olshansky  
*Thesis:* Conspiracy Theorizing and Religious Motivated Reasoning: Why the Earth 'Must' Be Flat  
Jaycee Ellen Syra  
T'Nay Jordyn Taylor  
Jordan Michelle Warren  
Maurice L. Washington  
MiKenna Leigh Williams  
Hannah Michele Woodfin  
Callie Leigh Yardley

### PHILOSOPHY

Christopher M. Corbin  
Mohammad Amin Rabinia  
*Thesis:* Privacy in Information Technology



## GRADUATE CANDIDATES

### PSYCHOLOGY

Daisy Marie Aceves  
Alexandra Claire Brown  
Kiyra Alexandra Laine Crooks  
Hossein Eslami  
Lauren A. Pascarella  
*Thesis:* Mother-Child Discrepancies on Children's Anxiety Symptoms: Relations with Maternal Depression, Anxiety, and Time Spent with the Child  
Taylor Randall Ramler  
Nicole Elyse Seymour  
*Thesis:* Bondage and Discipline, Dominance and Submission, and Sadomasochism Activity and Thwarted Interpersonal Needs: The Moderating Role of Disclosure

### ROMANCE LANGUAGES

Daniela Macias  
Maria Laura Rieder Sanjurjo

### SOCIOLOGY

Chelsey Nichole Tucker  
*Thesis:* Fundamentalism and Hate: A Look at Fundamentalist Evangelical Christianity and Islamophobia

### STRATEGIC COMMUNICATION AND INNOVATION

Katrina Sharlene Barrilleaux  
Elizabeth Rose Campbell  
Amy Elizabeth Clayborn  
Amy Sue Donnerberg  
Abby Breanne Dye  
Jessica Alece Evans  
Desirae Ann Favela  
Sarah Leanne Fullwood  
Rhiannon Michelle Harrison  
Lorian Nicole Hopcus  
Caitlin Elizabeth Jones  
Frances Grace La Rue  
Melissa Martinez  
Robert Leonard Meier  
Michael Ernest Montez  
Katherine D. Montgomery  
Christopher Murrell  
Ainsley Williams Nelson  
Samantha Jeanne Nicks  
Lisa Gayle Rampy  
Wesley Taylor Smith  
Zoé Michele Villanueva  
Jeremy Mark Windham

### TECHNICAL COMMUNICATION

Victoria Lynn O'Hara

### MASTER OF BUSINESS ADMINISTRATION

Lilly Lucia Adame  
Anthony Emmanuel Aguilar Ardiles  
Jildardo Arias  
Corey Bryan Beasley  
Kendra Isom Burris  
Peyton Ward Cannedy  
George Cao  
Emily Elizabeth Carlson  
Dennis Ramon Carrizales  
Michelle Leigh Carson  
Drew Ryan Carter  
Nicholas Thomas Diminture  
Brandon Isaac Edminster  
Stephen C. Erdmann  
Charles Hudson Fisher  
Whitney D. Frazier  
Jeremy Nathaniel Frisa  
Jose Carlos Gonzalez  
Peyton Travis Grant  
Kirk Lane Griffin  
Christopher Berkay Hall  
Brandi Sue Harris  
Benjamin Jay Hart  
Robert Bryan Ioppolo  
Jarrod Lloyd Jones  
DyAna Marie Kerr  
Monica Lezlie Knox  
Evan Edward Langston  
Thu Anh Le  
Brice Adrian Letcher  
Sophie Ray Loika  
Isabella Macy Luna  
Everardo John Macias  
Andrew Ameche Maduneme  
Srinidhi Marka  
James Jared Mayers  
Michael Sean McCabe  
Cristian Eduardo Millares-Rosiles  
Nicole Michelle Nations  
Garrett Walker Ocon  
Brian David Ratcliffe  
Taylor Renee Reasoner  
Ryan Douglas Roach  
Angelica Maria Rodriguez-Widman  
Daniel Olufisayo Rosiji  
Rodolfo Benjiman Samarripas  
Isaac Leon Scott  
Garret Michael Seghers  
Billy Van Seibel  
Ryan Michael Smith  
Blake Alan Steadman  
Tori Catherine Syptert  
Zachary Thomas Tatum

Troy Joseph Tobey  
Andrew Louis Venincasa  
Christian Ryan Walker  
Harrington Paige Walter  
Matthew Braden Wersonske  
Justin Lee White  
Ryan Michael Wombough

### MASTER OF EDUCATION

#### COUNSELOR EDUCATION

Dyan Lee Covington  
Troy Don Odom  
Andrew Clark Pacanowski  
Timothy Wayne Wheeler

#### CURRICULUM AND INSTRUCTION

Reagan LaRoy Doyal  
Mellanei S. Gentry  
Ronessa Dewana Hollingsworth  
Tedka Sheneek McDonald  
Cathrine Nicki Prenot  
Laura Ashli Quile

#### EDUCATIONAL LEADERSHIP

Marissa L. Cormier

#### EDUCATIONAL PSYCHOLOGY

Bridget Sue Morgan  
Evelyn Valenzuela

#### INSTRUCTIONAL TECHNOLOGY

Cheryl Marie Butler  
Brian Dean Enderson  
Andrea Dreyer Forest  
Tiegh Layne Henderson

#### SPECIAL EDUCATION

Isabel Aragon  
Tabitha Sims Ash  
Kristin Barbour  
Madison Michelle Bible  
Sarah Danielle Boswell  
Bailey Ann Brittingham  
Casey Wallace Brown  
Crystal Lynn Burns  
Kimberly April Camacho  
Jeremy Michael Coleman  
Patrice Zonae Cookhorne  
Audra Dor'Anne Davis  
Kelsey Marie de la Torre  
Haley D'Ann Deaver Taylor  
Kathryn Alisse DeLange  
Kelleen Marie Donahue

## GRADUATE CANDIDATES

Michelle Beth Dunnam  
Pamela Winningham Earwood  
Karen René Ford  
Shari Lynn Forsythe  
Lana Jane Foss  
Erin Elizabeth Franklin  
Megan Elizabeth Fulbright  
Molly Elizabeth Gamboa  
Hector Jaylon Garza  
Sarah Elizabeth Gonzalez  
Emily Marie Grundy  
Amber Rigby Hand  
Sarah Dylan Handley  
Bailey Marie Huckins  
Ashley Dawn Jones  
Sarah Land  
Kelsi Nicole Laningham  
Jennifer Erin Liles  
Melanie Beatriz Luna  
Tabrisha A. McCoy  
Stacey Jackson Mullane  
Meagan N. Oldigs  
Loyda Cristina Phipps  
Frances Amie Sanchez  
Winnie LaVonne Schoeneberg  
Ashlea Nicole Shierry  
Michelle Lee Sutton  
Elizabeth Louise Tidwell  
Andrea Lauren Ward  
Demarius Washington  
Allison Christian Yeomans

### MASTER OF ENVIRONMENTAL ENGINEERING

Darby Rae Adams  
Shelby Mae Cason  
Carli Renee Cassel

### MASTER OF FINE ARTS

#### ART

Amy Kim

#### THEATRE ARTS

Anthony Clay Burton  
Kevan Bryan Dunkelberg

### MASTER OF MUSIC

Fabian Edwin Griffith  
Jill Lynn Grove  
Brittany Lynn Hoff

### MASTER OF MUSIC EDUCATION

Kevin Michael Still  
*Thesis:* Comparing Rehearsal Preparation  
Practices between Experienced and  
Novice Band Directors

### MASTER OF PUBLIC ADMINISTRATION

Christopher James O'Dell  
Nafiseh Shah Hosseini  
Wai Sum Stephanie Wong

### MASTER OF SCIENCE

#### AGRICULTURAL AND APPLIED ECONOMICS

Aura Estefania Lujan Padilla  
Barclay Wayne White

#### AGRICULTURAL COMMUNICATIONS

Delaney Leann Howell  
Kayla Marie Jennings  
*Thesis:* Testing the Effects of Values in Beef  
Messaging on Purchasing Behavior  
Lauren Elizabeth LaGrande  
*Thesis:* Trust in Agricultural Messages:  
A Moment-to-Moment Analysis  
Blair Eden McCowen  
*Thesis:* Identifying Media Content  
Preferences Among Individuals in  
the Cooperative Cotton Industry  
Katherine Grace McKinley  
Rexanna Elizabeth Powers  
*Thesis:* Consumer Knowledge of and  
Willingness to Pay for Shell Eggs  
with Animal Welfare-related Labels

#### AGRICULTURAL EDUCATION

Tanner L. Choate-Kiker  
*Thesis:* An Evaluation of the Agricultural  
Educators Mentor Program in Texas  
Amy Marie Kress

#### ANIMAL SCIENCES

Lucas Barbosa Kondratovich  
*Thesis:* Effects of Fibrolytic Enzyme on Ruminant  
Fermentation Characteristics of Beef Steers Fed  
High- and Low-quality Growing Diets  
Cesar Augusto Sepulveda Cossio  
*Thesis:* Effect of Cooking Method and Quality  
Grade on the Juiciness, Tenderness, and  
Flavor of Beef Strip Loin Steaks  
Aaron Robert Teixeira

### ARCHITECTURE

Maryam Kouhirostami  
*Thesis:* Natural Ventilation through Window  
(CFD Analysis Cross Ventilation of Asymmetric  
Opening: Impact of Wind Direction and  
Louvers Design)

### ATMOSPHERIC SCIENCE

Kelley Margaret Murphy  
*Thesis:* Assessing Lightning Risk in  
Vulnerable Outdoor Environments  
Jacob Tyler Vancil  
*Thesis:* Identification of Downdraft Generated  
Near-surface Vertical Vorticity Using TTUKa  
Radar Data and Idealized Numerical Simulations

### BIOENGINEERING

Patrick Michel Dumas

### BIOLOGY

Haley Jean Hale  
Elizabeth Jeannine Rogers  
*Thesis:* Seasonal Flexibility in Lipid Metabolism  
in Brazilian Free-tailed Bats

### BUSINESS ADMINISTRATION

Andrew David Augustine  
Kyle Ryan Bell

### COMPUTER SCIENCE

Abdullah Ejaz  
Yan Mu  
Khalid Talal Mursi  
Amitsingh Chandansingh Pardeshi  
Geoffrey Rathina Pandi  
Ruonan Wu  
Praneeth Yerramotheu

### DATA SCIENCE

Kevin Andrew Harmon  
Zachary Lee McNutt  
Berihun Mebratie Mekonnen

### FAMILY AND CONSUMER SCIENCE EDUCATION

Allissa Jamie Huffaker  
Maggy Jayne Mulholland

### FOOD SCIENCE

Savannah Jayne Forgey  
*Thesis:* Presence of Presumptive and  
Antimicrobial Resistant Shiga-toxin  
Producing *Escherichia coli* and *Salmonella*  
Isolated from Sheep During Harvest in  
Honduras After Food Safety Training

## GRADUATE CANDIDATES

### FORENSIC SCIENCE

Thy Thanh Nguyen

*Thesis:* A Novel Method for the Creation of Canine Explosive Detection Training Aids using an Olfactometer

Amanda Louise Patrick

*Thesis:* Analyses on Condom Evidence: Condom Brand Profiling via HS-SPME-GC/MS and Temperature-brand Effect on Condom Fingerprint Development

Madeline Melissa Scotch

### GEOGRAPHY

Ryan C. Jost

*Thesis:* Detection of Black-tailed Prairie Dogs Through the Use of High Resolution Aerial Imagery and LiDAR Data

### GEOSCIENCES

Miles Allen Rand

*Thesis:* Seismic Investigation of the Matador Arch and Central Basin Platform

Daniel Asher St. Germain

*Thesis:* Fusulinid Occurrence Density Maps to Assess Paleogeographic Models of the Northwest Shelf of the Delaware Basin Region

### HORTICULTURE SCIENCE

Jonathan Clint Lancaster

Katlynn Emmaline Winterstein

### HOSPITALITY AND RETAIL MANAGEMENT

Bandar Ali Salem Altalhi

Brianna Tayla Ellison

Hunter Ryan Griffin

Brooks William Gustafson

Sarah Noelle Lawrence

Kannan Marie Pittcock

Alexandra Rivera

Mary Elizabeth Susan Schultze

*Thesis:* A Preliminary Examination of Young Adults' Attitudes and Perceptions of Cannabis Tourism

Hannah Shirley

Kylie Elizabeth Wright

### HUMAN DEVELOPMENT AND FAMILY STUDIES

Kristi Peters McLeod

### INTERDISCIPLINARY STUDIES

Samuel M. Brito

Jacorian Kevon Duffield

Carlos Gerardo Favela

Sarah Lynn Garcia

John Andrew Moretti

*Thesis:* The Vertebrate Fauna of Macy Locality 100: Exploring Late-Pleistocene Community Composition in Non-analog North America

Onaye Alexandra Parker

### KINESIOLOGY

Vanessa Carranza

Shawn Taylor Fortney

Zackary Allen Noland

Dylan Robert Plants

Julia Maria Vasquez

### MATHEMATICS

Md Shah Alam

Amin Nikakhtar

*Thesis:* A Dynamic Approach for Separable Concave Quadratically Constrained Programming Problems

### MICROBIOLOGY

Matthew Stephen Smith

*Thesis:* Variations in Antibiotic Resistance of *Aeromonas* Observed Across Lubbock Canyon Lake System

### NUTRITION AND DIETETICS

Catherine DeAnne Arcaro

Danielle Lina Beaudoin

Santiago Capetillo-Gutierrez

Stephen Todd Gilmore

Nadia L. Gonzalez

Tori Faith Gray

Elena Y. Hannush

Arturo Jaime

Moronkeji Theresa Kolawole

Kaitlyn E. Macha

Taylor Ashley McClelland

Analicia Tina Mireles

Hannah Katherine Pfohl

Katie Elizabeth Russo

Jackson Ryan Scharf

Cassidy Corrine Turner

Kathryn Marie Vietti

Madalyn Grace Wieberg

### PERSONAL FINANCIAL PLANNING

Amber Monique Castro

Mark Aaron Lee Evers

John Samuel Harris

Victor Kushal Heetai

Matthew Leonel Jaramillo

Aubrie Lynn Johnson

Yi Liu

Yan Lu

Joanna Ramirez

Taylor Renee Reasoner

Zachary Walker Sampson

Richard Sanchez

Dongning Shen

Charles Matthew Wood

### PHYSICS

Leopoldo Diaz

Liyang Lou

Samila Maduranga De Silva Muthumuni

*Thesis:* Methods to Search for New Physics in Proton-proton Collisions at the LHC - Same Sign Dimuon Final State for Lepton Number Violation Process

Manuel De Jesus Pichardo Marcano

Charles Lewis Ramey

*Thesis:* The Transformation of an Upper-division Lab and Comparative Analyses of Two Scientific Writing Activities

### PLANT AND SOIL SCIENCE

Jake M. Gendron

*Thesis:* Genetic Network Rewiring Configures a Novel Dehydration Stress Tolerant Phenotype in Transgressive Recombinant Inbreds of Rice (*Oryza Sativa L., indica*)

Md Mahbubul Islam

Sherah Brooke Mills

Jasmine Neupane

*Thesis:* Cotton Yield Variability in Relation to Irrigation Rates, Soil Physical Properties and Topography

Abir Raihan

*Thesis:* Surface Soil Moisture Estimation Using Unmanned Aerial System and Satellite Images

### SPORT MANAGEMENT

Britton A. Gregg

Carla Sofia Heredia Serrano

Omar Hernandez

Johann Kobus Kurfurst

Michael David Landrum

Romeo Ricardo Mortera

Carson Adrian Phillips



## GRADUATE CANDIDATES

### STATISTICS

Ahmed Belhad  
Mai Huynh Phuong Dao

### WILDLIFE, AQUATIC AND WILDLANDS SCIENCE AND MANAGEMENT

Cade Benjamin Bowlin  
*Thesis:* An Evaluation of Coyote Diets on the Rolling Plains Quail Research Ranch, Texas, Across La Niña versus El Niño Weather Patterns  
Brian Alan DeSanti  
Shea D'lynne Mullican  
*Thesis:* Breeding Ecology of American Kestrels in the Llano Estacado of Texas

### MASTER OF SCIENCE IN ACCOUNTING

Neftali Caleb Adame  
David Iyanuoluwa Biola Babatope  
Colton Joseph Bretton  
Theresa R. Collins  
Lizbeth Contreras  
Han Dai  
Dylan Andrew Dusek  
Abigail Jane Farrell  
Kathryn Cox Farrell  
Travis Kane Haworth  
Patrick Simmons Larvin  
Taylor Diane Neal  
Lexie Ann Nieman  
Joseph William Shreve  
Kaylee Rae Stockton  
Alyssa Morgan Tidwell  
Ryan Matthew Watts

### MASTER OF SCIENCE IN CIVIL ENGINEERING

Kushal Adhikari  
Anas Kaleemullah  
Cody Tyler Karp  
Liang Li  
Saeed Moradi  
Jaelen Elizabeth Roberts

### MASTER OF SCIENCE IN ELECTRICAL ENGINEERING

Shamsul Arefeen  
Anthony Flores-Nigaglioni  
Muhammad Hasan Ajaz Khawaja  
Fabrice Mugomoka  
Jerry Varghese Paul  
*Thesis:* Analysis of Environment-coupled Noise Terms in Inertial Sensor Data  
Using Allan Variance  
Ricardo Isaac Rodriguez-Molina  
*Thesis:* Current Response Capability of Bond Wires under Pulsed Power Conditions  
An Thien Tran  
Nicholas Andrew Wilson  
*Thesis:* Investigation of Gallium Nitride Photoconductive Semiconductor Switches

### MASTER OF SCIENCE IN INDUSTRIAL ENGINEERING

Abdelrahman Alaaeldin Aboueldahab  
Shweta Gawali

### MASTER OF SCIENCE IN MECHANICAL ENGINEERING

Kenneth Ryan Bratton  
Joseph Maverick White

### MASTER OF SCIENCE IN PETROLEUM ENGINEERING

Justin P. Andrews  
Nelson Rufin Kuete Tatsipie  
Nur Wijaya  
Khalil Zarifsadr

### MASTER OF SCIENCE IN SOFTWARE ENGINEERING

Patrice Fote Fote  
Marcel F. Heimlich  
*Thesis:* Unit Testing Local Variables  
Dian Li

### MASTER OF SCIENCE IN SYSTEMS AND ENGINEERING MANAGEMENT

Adeniyi Olalekan Adeaga  
Robert Barry Cornell  
Richard Douglas Culver  
Megan Elizabeth Heinz  
Channing Leah Sparks

### MASTER OF SOCIAL WORK

Rebeca Silva Llanas

### PROFESSIONAL SCIENCE MASTER'S

### ENVIRONMENTAL SUSTAINABILITY AND NATURAL RESOURCES MANAGEMENT

Madison Samantha Gordey  
Wayne Edward Swink  
William Odell Ward

# 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

College of Agricultural Sciences  
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Ryan Gregory Ford  
Ryan Alexander France  
Corbin Adair Freeman  
Connor Shaun Gallagher  
Samuel Douglas Garger  
Blaine Wilson Gillespie

<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

Adrian Hernandez Gomez  
Austin Reid Grant  
Tyler Joseph Gully  
Nils Gunnar Roy Gustafson  
Devin Wayne Hale  
Yogendra Hamal<sup>1</sup>  
Yunbin Hao  
Jessica Nicolette Hernandez Rebolloa  
Adrianna Brenae Hicks  
Blake Ealy Hopper  
Gregory Jordon Huber<sup>1</sup>  
Dylan Lockhart Jackson<sup>3,4</sup>  
Aaron Michael Jacobs  
Trina Lynnrice Jefferson  
Garcia Mpango Joao  
Nathan Jared Jocius  
Kristen Michelle Johnson  
Mitchell Warner Johnson  
Trevor Kay  
Nicholas L. Keller<sup>2</sup>  
Morgan Markley Kemp  
Ibrahim Abdullah Khawajah  
Drissa Kone  
Matthew Gordon Kubesh  
Karli Ann Kuhler-Pigg  
Toritseju A. Kuyatsemi  
Brian Kwok<sup>3</sup>  
Idris Babattunde Lawal  
Emily Marie Lemmons  
Saul Luna  
Logan Allen Marder  
William Martinez  
Cole Matthew Maryak  
Cody Lee Maupin  
Preston Ray McClendon  
Zachary Christopher McCord  
Gail Marie McGehee  
Andrew Mecheal Benjamin Mehany  
George MacFash Mercer  
Justice Lawrence Miller<sup>1</sup>  
Julio J. Moguel  
Brayden James Mooney  
Sarah H. Nashabe<sup>1</sup>  
Dai Vu Phuong Nguyen<sup>1</sup>  
Kyle Jacob Noakes  
Chukwuemeka Nelson Nwauche<sup>3</sup>  
Ogechukwu Jennifer Odita  
Raphael Chisom Ohazurike  
Chiderah S. Onuoha  
Isaac Ivan Osorio  
Jacob Michael Owens  
Binod Raj Pangani<sup>3</sup>  
Evan Andrew Paskow  
Andrew Kennedy Prather  
Youssef Rami  
Jacob Andrew Renteria  
Jace Logan Rhodes  
James McFarland Robinson<sup>2</sup>  
Caleb Scott Rodenbeck  
Erik G. Romero  
Nathan James Ross<sup>3</sup>  
Andrea Katherine Ruiz Marque  
Toby Gene Sanders  
Eduardo Santana Flores  
Kacie Alex Schiaffino<sup>2</sup>  
Drew Bailey Schneider<sup>3</sup>  
Brendon Charles Schreiber  
Cayden Michael Scoggins  
James Warren Settles  
Corey Edward Slaughter<sup>1</sup>  
Ryan Taylor Smith

Margaret Lois Swiatlowski<sup>3</sup>  
Joshua Michael Szymanski  
Kaylin Elizabeth Szymanski  
Nabeeh Tawalbeh  
Thomas Grayson Taylor  
Aaron Frank Thompson  
Brendon Charles Tillett<sup>3</sup>  
Saul Torres  
Mariah Donna Trimble  
Jacob Allen Vogt<sup>2</sup>  
Jordan Dale Washburn  
Thomas Blake Weber  
Tiffany Amber Weis  
Shelby Nicole White<sup>2</sup>  
Sean Allen Wilson  
Trent Gregory Wilson<sup>3</sup>  
Aaron Sydney Zeriali

## PETROLEUM ENGINEERING

Ramiz R. Kaiser  
Samson Rabbi Lotigo<sup>1</sup>  
*2nd Major: Civil Engineering*



TEXAS TECH UNIVERSITY  
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## BACHELOR OF ARTS

### HONORS ARTS AND LETTERS

Elizabeth Mercedes Barrera<sup>5</sup>  
KyLeigh Michelle Richardson<sup>2,5</sup>



TEXAS TECH UNIVERSITY  
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## BACHELOR OF SCIENCE

### APPAREL DESIGN AND MANUFACTURING

Kennedy Taylor Cox  
Amairany Mendoza  
*2nd Major: Retail Management*

### COMMUNITY, FAMILY, AND ADDICTION SCIENCES

Raven Marie Garza<sup>2</sup>  
Kathryn Elyse Jackson<sup>3</sup>  
Autumn Lee Koenig<sup>2</sup>  
Carlye Kopp<sup>3</sup>  
Alyssa Monique Puente  
Madeline Grace Willis

### EARLY CHILDHOOD

Taylor Keeauna Roberson  
Victoria Caroline Schoch<sup>3</sup>  
Megan Rae Whisenhunt

### FAMILY AND CONSUMER SCIENCES

Erin Nicole Fontana  
Victoria Lynn Patton<sup>3</sup>

### HUMAN DEVELOPMENT AND FAMILY STUDIES

Nada H. Abdu<sup>3</sup>  
Lindsey Carol Adams

Alexandria Tate Bailey  
Trace Bartley<sup>3</sup>  
Andrea Dolores Beltran  
Alyssa Leigh Bernier<sup>2</sup>  
Hannah Marie Berry  
Sarah Elizabeth Borcik  
Kelsey Nicole Bowen  
Elaine Madison Brown  
Mari Carmen Carrillo<sup>3,4</sup>  
Bailey Lukezc Carter  
Kumbirai Millicent Chigwedere  
Ty Joseph Cowan  
Tyler Andrew Dews  
Lauren Elisabeth Edwards<sup>1</sup>  
Aine Ibyduni Ekoh  
Irinia Yaricssa Fernandez  
Madison Nikole Fountain  
Meranda Alecia Franklin  
Mackenzie Ann Gerard<sup>3</sup>  
Kelby Lynn Greene  
Brooke Nicole Haddad  
Katie Ann Halsell  
Tara Karin Haugvoll<sup>3</sup>  
Kendall Erica Heindold  
Katlyn Dyann Hicks  
Holly Rebecca Jessen  
Kelsey Denise Kelleher  
Shelby Christine Klement  
Matthew Mark Koehl<sup>1,5</sup>  
Ashleigh Rochelle Lindsay  
Allyson Lummus  
Devyn Michelle Makofski  
Margaret Elizabeth McGowan  
Rodney L. McKinney  
Taylor Paige Owens<sup>3</sup>  
Emily Frances Peikert  
Julienne Dana Reasonda  
Sarah Carolyn Redding  
Taylor Renay Redmond<sup>1,4</sup>  
Lizeth Salvador  
Levi William Savage  
Taylor Rebekah Silvas  
Caroline Marie Smith  
Reagan Katherine Smyer  
Brianna Hope Stecklein  
Victoria Shae Stephenson<sup>1</sup>  
Kelly Kathleen Swisher<sup>2</sup>  
Simona Tesfaldet  
Erika Estrella Valencia  
Caroline Haythorn Walsh<sup>2</sup>  
Logan Drucilla Welch  
Rachel M. Winnubst<sup>2</sup>

### HUMAN SCIENCES

Ahmad Walid Abderrahman  
Adriana Natalie Almudova  
Shannon Alteri  
Diana Marie Ayala  
Sierra Elizabeth Bassett  
Caitlin Emma Beer  
Gisselle Alexis Beltran  
Haley Lynn Bortnem<sup>2</sup>  
Jacob Thomas Brown  
Julianna Marie Browne  
Cambry Alexis Burt  
George Tanner Buxton  
Guadalupe Chavez  
Dustin Crocker<sup>2</sup>  
Anabell Marie Cruz  
Claire Catherine Dallmeyer  
Donna Kaye Dorman

<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

Tiffany Nicole Evans  
Dixie Williams Everett  
Hannah Danielle Fernandez  
Christopher Flynn  
Serena Marie Frausto  
Dionne Yvette Garza  
Mary Theresa Heiberger <sup>1</sup>  
Leslie Abderrahman Hetland  
Trey Thomas Hutchings  
Zaneta Olivia Adenike Iroko  
Mary Emily Jameson  
Zkia Monique Johnson  
Callan N. Lee <sup>1</sup>  
Madison Nicole Lemons  
Karl Raymond Mauch  
Candice Janet Miller <sup>3</sup>  
Caroline Mya Mitchell  
Berenice J. Molina  
Cayla Von Napper  
Emily Morgan Norrell  
Giovanny Olvera  
Melissa Sue Owens  
Ezgi Ozturk  
Tammy Lynn Pitts <sup>3</sup>  
DeMarquis Montrey Polite-Bray  
Cameron William Potratz  
Bryana Nicole Pruitt  
Luke Richard Rivera  
Ashley Jenise Rocha  
Kelsey Faith Rowden <sup>3</sup>  
Candice Erica Salas  
Macy M. Sanders  
Rhianna Scarbrough  
Stephanie Marie Schmidt  
Emily Claire Schulman  
Michaela Margaret Sever  
Carrie Ann Sharp  
Rebecca Paige Sheehy  
Narmin Shenghi  
Brittanie Michelle Shock  
Meagan Danielle Sojka <sup>3</sup>  
Eric Tenuta  
Annett Tonche  
Monique Vargas  
Rebeca Velasquez Vasquez  
Madison Nicole Walker <sup>2</sup>  
Erika Danielle Wallace  
Elizabeth Shelby Walter  
Brittany Diane Woods  
Shon Deray Woods

### NUTRITION

Nimotallah Eniola Abdurrazak  
Alee Lyndell Adams  
Brianna Jessica Bellamy  
Nolan Michael Carter  
Gabriella Ann Chesnut <sup>3</sup>  
Marcos Gabriel Cojulan Lopez  
Cassandra I. Conarty  
Kaitlyn Ann Cramer  
Annabel Donjuan  
Cecilia Andrea Fonseca Pijuan  
Madison Henry  
Baylee Kristin Jenkins  
Michael Anthony Lawler  
Robbie Lee Muenster  
Connor Jayhee Oh  
Veronica Elise Orta <sup>2</sup>  
Allyson Briann Padron  
Mason William Sweeden  
Kassandra Salinas Terrazas

Priscilla Hong Tran  
Daniel Ross Vaughn  
Kolyn Grant Waldrop  
Mallorie Diane Wilson

### NUTRITIONAL SCIENCES AND DIETETICS

Allison Grier Carroll <sup>1</sup>  
Kelli Nicole Christian  
Ericka Cristina Duran <sup>3</sup>  
Argenis Gutierrez  
Keyra Nichole Hernandez <sup>2</sup>  
Lauryn Shay Lusher <sup>1</sup>

### PERSONAL FINANCIAL PLANNING

Colton Elser Baysinger  
Galen Bearden  
Monica Nicole Bustillos  
Adam Cervantes  
Mason Chandler Clark <sup>2</sup>  
Tyler West Clearman  
Chase Campbell Crighton  
Scott Charles Crisp  
Amy Elizabeth Daniel  
Darby Lynn DePauw  
Mohamed Marteen Olamide David Ewumi  
Joshua Jacobi Garcia  
Courtney Taylor Grusendorf <sup>3</sup>  
Jacob Alan Gurock <sup>1</sup>  
Jacob Brick Holguin  
Dimitrian Patrick Jimenez  
Alexander Andres Keefe  
Cameron Martinez  
Clayton Cade McKenzie  
Jorge Luis Morales  
James Benjamin Palmer  
Michela Ann Palmer  
Robert Abraham Posadas  
Nicholas Price  
Mark William Rizvi <sup>2</sup>  
Linda Marie Rodriguez  
*2nd Degree: Spanish*  
John David Slice  
Evan John Smith  
Harrison Keith Smith  
Kathryn Alison Staples <sup>2</sup>  
Preston Allen Tharp  
Mykel Devon Warrick  
Barrett Wells  
Caira Lillian Albertine White

### RESTAURANT, HOTEL, AND INSTITUTIONAL MANAGEMENT

Cristofer Nicholas Amundson  
Joshua Adan Aparicio  
Sergio Gaddel Benítez  
Terra Danielle Benton <sup>3</sup>  
Theodore James Berry III  
Madeline Jane Caudle  
Paul Anthony Childers  
Emily A. Clearman  
Kelsey L. Cobb  
David Cole  
William Michael Davis  
Morgan Ann Fadke  
Andrew Reavis Fulton, Jr.  
Brooke Grace Jenkins  
Lauren Elaine Johnson  
Allyson Leigh Jones <sup>3</sup>  
David Lawrence Keaton  
Abigail Cecilia Keese <sup>3</sup>

Adan Lagunas  
Kathryn Rose Lella  
Victoria Dawn MacArthur  
Madison Leigh Mackey <sup>3</sup>  
Emily Elizabeth McMillin  
Kaylin James Morrison <sup>2</sup>  
Jessa Scott Munstedt  
Alexis Ann Pilkilton  
Zane Steven Pittam  
Elizabeth Anne Riddle  
Gabriel Evan Russ  
Alayna Isabelle Sbar <sup>3</sup>  
Chelsea Danielle Tezeno  
Madison Regis White <sup>3</sup>  
Allan Clay Willcockson  
Nathaniel Joseph Williams  
Michaela L. Willis  
Jordan Claire Workman <sup>2</sup>

### RETAIL MANAGEMENT

Madeline Rose Bilnoski <sup>1</sup>  
Ryan Neal Edmiston  
David Eugene Escobar  
Brett M. Hinson  
Noelle Denae Jordan <sup>3</sup>  
Katy M. Keenan  
Alexandra Marie Kuehler <sup>2</sup>  
Vivian Nguyen  
Emma Katherine Rigsby  
Ciara Nicole Rocha  
Jenna Rosbrook  
Karli Deanne Scott <sup>1</sup>  
Lainey Alison Vaughn



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& Communication™

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#### ADVERTISING

Munir Abdurahman  
Sergio Alexis Aldana  
Hector Adrian Anaya Hernandez  
Ryan Joseph Archer  
Weston Dowling Bellomy  
Juno Demi Bender  
Hayden Ryan Black  
Reid Nicolas Boatman  
James Alexander Briscoe  
Kristen Lee Campbell <sup>2</sup>  
Rachel Opal Cantu  
Angel Robert Contreras  
Taelor Shae Dawson  
Bailey Ann Fergeson <sup>3</sup>  
Savannah Lee Gilbreath  
Dana Rose Goudie  
Nicholas John Graham <sup>3</sup>  
Alex A. Koster  
Sarah Li Ming Lackey  
Reuben Gates Lamb <sup>1</sup>  
Stephanie G. Lopez  
Katelyn Faith McCall <sup>3</sup>  
Mia Sarah McIntyre  
Tanna D'Anne Morton  
Dinin Scott Mullins  
Sydney Noel Panter  
Laura Diane Pope

<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

Erica Diane Porter  
Amber Michele Powers  
Gabriel Pruneda III  
Julian Alexander Randall  
Megan Alexis Roberts  
Allen I. Rodriguez  
Charles E. Saxon  
Jaren Thomas Stump  
Caroline Elise Taylor  
Anissa Nicole Torres  
Kevin James Viola  
Kyrk Braden White Guel<sup>3</sup>  
Walker Ace Wichmann  
Logan Grant Wilson  
Norman Jing Yuan Wu  
Tiffanie Nicole Wyatt  
Jose Luciano Zamudio

### COMMUNICATION STUDIES

Travis Bradley Burnitt  
Alexandro Montoya Contreras<sup>3</sup>  
Amanda Riley Corfield  
Lindsey Morgan Crowley-Scott  
Xenna Kayana Davis<sup>2</sup>  
Andrew Louis De Tullio  
Trent Stephen Edmonds  
Sarah Morgan Espensen  
Zeev Shalom Foster  
Chase Edwin Gillis  
Henry Robert Granda  
Delaney Eliza Hartson  
James Austin Hering  
Jonna Anne Hewitt<sup>1,4</sup>  
Sorrel Enrick Hoover-Rosson  
Hunter Horka Ingram  
Delaney Alexandria Johnson  
Hunter Ray Johnson  
Bryant Todd Kilkenney  
Kaitlyn Nancy Larkin  
Spencer Hobgood LeBouef  
Branson David Long  
Eduardo Lopez  
Lee-En Ma  
Emily Susan Meador  
Dominic Edward Moreno  
Devonee Amanda Ortiz  
Annelise Kathryn Oswalt<sup>3</sup>  
Madyson Breanne Oxford  
Bradley Thomas Raines  
Tristyn Alexander Richardson  
Ivan Daniel Rivera-Nesralla  
Harrison Roof  
Casey Lyn Schneider<sup>2</sup>  
Elizabeth Elise Schroeder<sup>2</sup>  
Heidi Lynn Taylor  
Rodrick D. Waffer II  
Breanna Haley Whiteford

### ELECTRONIC MEDIA AND COMMUNICATIONS

Abbie Nell Burnett<sup>1,4</sup>  
*2nd Degree: Agricultural Communications*  
Jonathan Micah Cotton  
Connor Cleveland Curry  
McKenzie Nichole Dimak  
George O. Dockery  
Shelby Elizabeth Elkins  
Jacob Ryan Ewing<sup>3</sup>  
Jennifer Rose Garza  
Jesus Angel Gonzalez Grado<sup>3</sup>  
Jeremy Scott Hilliard

Anna Elizabeth Holland<sup>2</sup>  
Matthew Reid Jenkins  
Jeff Morris Koster  
Kristopher Ndege Mamwacha  
Andrew Spencer Marks  
Isaiah McKenzie McPeters  
Hollon Frances Meaders  
Ryan Jon Ortegon  
Jasslyn Graciela Paiz  
Samuel Lewis Perry  
Samantha Louise Pruett  
Joshua Joseph Roche  
Katie Lynn Spradlin  
Joubal Vernaza  
Ian Joseph Zamorsky

### JOURNALISM

Brandi Danae Addison  
Alma Raquel Bustamante  
Gwendolyn Kathleen Cardenas  
Sydney Rae Carpenter  
Leah Grace Doherty<sup>2</sup>  
Kristin Rene Hicks  
Samantha Hope Lenamon<sup>1,4</sup>  
Katie Anne Main<sup>3</sup>  
Brianna Celine Maldonado<sup>3</sup>  
Francis Genesis Martinez  
Marissa Renee Ramos  
Alyssa Renea Riojas<sup>2</sup>  
Camden Rose Smith

### MEDIA STRATEGIES

Elioth Acevedo-Caballero III  
Kayleigh Shea Baca-Johns  
Tobias Dewayne Bass  
Obara Rene Baylor  
Ridge Canyon Cain  
Nathan Keith Carroll  
Alexander James Chavez  
Sydney Nicole Downs  
Kailin Jean George  
Samuel Julian Alexander Guilmore  
Cale Jacob Haby  
Hunter Randolph Hargrove  
Carson Price Hayes  
Elias J. Hernandez  
Charles Walter Kubenka  
Hannah Jenae Lakas  
Travis Drake Lane  
Anna Elizabeth Lee  
Maret Wayne McElreath  
Madison Rose McNeff<sup>3</sup>  
Joshua Chinasa Okea  
Preston Grant Palmer  
Nolan Ray Preston  
Allan Ramirez  
Sonya Shin  
Carly Ann Wallis  
Tristen Cade Wilbanks  
Benjamin Brett Wilkinson  
Charles Richard Williams III  
James Henry Williams, Jr.

### PUBLIC RELATIONS

Natalie Brook Allcorn  
Chaney Ashlynn Arney<sup>2</sup>  
Alexis Grace Austin  
Ashleigh Elizabeth Austin  
Madison Nicole Austin  
Katalina Maria Benecke<sup>3</sup>  
Daniela A. Medina Bermudez

Sydney Lauren Berry  
Lindsey Joyce Blackwood  
McKenzie Jean Blasco  
Kaden Glenn Bouldin  
Colton John Bracco  
Tory Michele Brueggeman  
Grant Michael Caravelli  
Aubrey Annette Chalene<sup>3</sup>  
Ashley Marie Churchill  
Emily Nicole Coronado  
Hannah Reid Craddock  
Ivy Paige Facio  
Zac Franz  
Emma Mariscela Gaona  
Mary Carson Glenewinkel  
Sal Anthony Gonzalez  
Elizabeth Danielle Guest  
Rachel Nicole Homesley<sup>3</sup>  
Cailyn Hossner  
Alexandria Diane Ianni  
Brooks Douglas Johnston  
Jonathan Mathew Laurel  
*2nd Degree: English*  
Tanner William Maycumber  
Paul Travis Mayfield  
Marcus Gabriel McQuay  
*2nd Major: Advertising*  
Mallory Ann Mire  
Savannah Anise Mize  
Danielle Demi Mora  
Kimberley Noelle Nelson<sup>3,4</sup>  
Obinna Chukwuebuka Ohale  
Alexandra Kristina Oscarson<sup>1</sup>  
Haley Marsarie Parrish<sup>2</sup>  
Ashley Michelle Piper  
Mason Hunter Puschman  
Roxana Isabel Rashid<sup>3</sup>  
Rainey Leanne Rizzo  
Alexa Mariah Rosas  
Myrisa Kayleigh Rutter  
Ranczy Rebekka Sanders  
Paige Hannah Schick<sup>1</sup>  
Colton Calhoun Scott  
Matthew Chandler Robert Setzekorn  
Mason Douglas Sliva  
Amber Danielle Smith<sup>2</sup>  
Kevin Glen Smith  
Parker Conrad Stewart  
Kelsi Lynn Trotter<sup>3</sup>  
Karlie Brea Warden  
Ginger Michal Weldon<sup>2</sup>  
Grey Michael Weller  
Avery Marie Wells  
Mary Caroline Wickenheiser<sup>1</sup>  
Meghan Elizabeth Witmer<sup>2</sup>  
Stephany Kay Zarbaugh<sup>1</sup>



### BACHELOR OF APPLIED ARTS AND SCIENCES

Kristen Melissa Brazell  
Christine Annette Jones<sup>3</sup>  
Daniel Blaine Powell<sup>1</sup>  
Drew Patrick Tindell

<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

## BACHELOR OF ARTS

### UNIVERSITY STUDIES

Jackson Reade Abney  
 Gay Lynn Alexander <sup>3</sup>  
 Stephanie Abigail Alvarez  
 Brooks Taylor Baack  
 Karan Babu  
 Lisa Reneé Bahre <sup>3</sup>  
 Leela Ann Barina  
 Shattuck James Bell  
 Carel-Lee Carissa Bernard  
 Marvin Elijah Black  
 Kyle Justin Blair  
 Michael Paul Brinkley <sup>1</sup>  
 Justin Walker Burk  
 Teresa Jenine Burns  
 Corey Michael Bynum  
 Justin Garret Coldewey  
 Darcia Jo Cuellar  
 Audra Gayle Curnutte  
 Olivia Grace Davis  
 Daniel Thomas Earles  
 Parker Hanna Eaton  
 Judy Helen Edwards  
 Derek Fairweather <sup>1</sup>  
 Samantha Erin Fitzpatrick  
 Jasmine Nicole Flores  
 Joshua Michael Galvan  
 John Henry Gonzales  
 Jalen Alexander Gowans  
 Nina Nicole Ham  
 Mia Ann Hargrove  
 Blair Nicole Haygood  
 Kolin Alistair Hill  
 Clayton Wyatt Horn  
 Mariah Megan Huat  
 Michael Akpan Ibanga  
 Trenton Ryan Kolar  
 Ashley Nichole Konstanzer  
 Rene Lawson, Jr.  
 Crafford Demarques Lee  
 Lisa Nicole Lively  
 Lori Ann LoCascio <sup>2</sup>  
 Rhiannon Gail Mason  
 Angela Lynn May  
 Cameron Troupe McLeod  
 Juana Lisa Moran <sup>2</sup>  
 Kiley Eric Moran  
 Joseph Anthony Morelion  
 Shelby Lynn Morrow  
 Michelle Navarrete  
 Sandra Orozco  
 Chase Lofton Percy  
 Patrick Ryan Petrie  
 Allison Pouria  
 Camaury Jené Prados  
 Kevin Alan Reynolds  
 Jonathan Earl Richardson  
 Rodolfo Matthew Rivera  
 Buck Allen Rodges  
 Alexiss Brooke Rodriguez  
 Ramiro Dean Rodriguez  
 Ian Richard Sadler  
 Eric Salik  
 Cory Tyler Sallee  
 Pamela Sue Schroeder

Matthew Charles Schwarz  
 Jurel Clay Scott  
 Jessica Ann Smith  
 Krystle Anne Steele  
 Putera Adiguna Sudija  
 Brandon Richard Wasson  
 Michael Roy Welch  
 Alicia Michelle Williams  
 Eric Alexander Winnie  
 Ryan Nicholas Woodham  
 Justin Michael Yankovoy

## BACHELOR OF SCIENCE

### UNIVERSITY STUDIES

Travis Ogden Baur  
 Cody James Caraway <sup>1</sup>  
 Kathleen G. Cason  
 Michael Dillon DeLeon  
 David Riley Demaree  
 Sandra Paulette Flores  
 David Zachary Hall  
 Emily Rosanna Kinsey <sup>2</sup>  
 Jayson Daniel Lukes  
 Yoko Nagatomo <sup>3</sup>  
 Grayson Lee Ray  
 Hudson Taylor Rice  
 Karina Guadalupe Rodriguez  
 Emmanuel Sanchez  
 James Michael Soler  
 Bryce Andrew Vickers

### WIND ENERGY

Gavin Robert Bigler  
 Tyler Lane Bishop  
 Andrius James Daley  
 Donavan Leo Da Costa  
 Parker Holden Fox  
 Jared James Garrand  
 Omar Rosendo Lara <sup>3</sup>  
 Jonathan Layne Shinpaugh  
 Jackson Wesley Walker



TEXAS TECH UNIVERSITY  
 J.T. & Margaret Talkington  
 College of Visual & Performing Arts

## BACHELOR OF ARTS

### DANCE

Tyra Moñet Bradford  
*2nd Degree: Sociology*  
 Faith Vivian Henderson

### MUSIC

Hannah Mariah Gossett <sup>3</sup>  
 Jaber G. Haron <sup>3</sup>  
 Maria Marina Dugarte Rodriguez <sup>1</sup>  
*2nd Degree: Spanish*

### THEATRE ARTS

Jose Luis Murillo, Jr. <sup>2</sup>  
 Melanie Glynn Threatt

## BACHELOR OF FINE ARTS

### ART

Chiseum Fontaine Dent  
 Jacquelyn Alexshia Lauderdale  
 Heather Nicole Lusk  
 Jose C. Martinez  
 Jarrett Chad Miller  
 Grace Aris Neal  
 Bernadette Anne Perez <sup>4</sup>  
 Jacob Allen Robbins

### THEATRE ARTS

Charlotte Evans Harris  
 Jordan Paige Sheets  
 Julia Rhea Timme <sup>3</sup>

## BACHELOR OF INTERDISCIPLINARY ARTS

Aaron Christopher Ellis  
 Michael Wayne Moriearty

## BACHELOR OF MUSIC

Sophie Anne Baker <sup>3</sup>  
 Juan C. Bautista  
 Matthew Taylor Brown <sup>3</sup>  
 Nina Elizabeth Cavasso <sup>2</sup>  
 Katie Renae Clemmer <sup>2</sup>  
 Devon M. Curtis <sup>2</sup>  
 Chase Edward Deases <sup>3</sup>  
 Nikit Prakash Desai <sup>2</sup>  
 Oluwagbohunmi Ayokunmininu Fawehinmi <sup>2</sup>  
 Anissa Rose Garcia <sup>3</sup>  
 Madeline Noelle Garcia  
 Marissa J. Garcia <sup>3</sup>  
 Joseph Blake Giesting <sup>3</sup>  
 Jose Luis Gonzalez <sup>3</sup>  
 Colin Michael Grigsby <sup>3</sup>  
 Madison Taylor Haberl <sup>2</sup>  
 Ryan Francis Hill  
 Heather Nicole Lambert <sup>2</sup>  
 Ryan Christopher Langer <sup>2</sup>  
 Michael Abraham Loera <sup>2</sup>  
 Brock Isaac Mellinger <sup>2</sup>  
 Jessica Nicole Miller  
 Kathy Nguyen Ngo <sup>2</sup>  
 Paige An Nolan <sup>2</sup>  
 Aaron Anthony Perez <sup>3</sup>  
 Thanh Anh Phan <sup>2</sup>  
 Nicholas K. Phillips  
 Clark Owen Preston <sup>3</sup>  
 Ilse Puente <sup>3</sup>  
 Jennifer rae' Rios <sup>2</sup>  
 Jordan Renée Sanchez <sup>2</sup>  
 Lauren N. Selman <sup>2</sup>  
 Nasr Ali Sheikh  
 Hunter William Stockton  
 Daniel J. Stout  
 J. Aaron Talley <sup>3</sup>  
 Gabriel Joseph Treviño <sup>3</sup>  
 Alicia Marie Villanueva <sup>2</sup>  
 Timothy Christopher Wilson <sup>2</sup>  
 Sarah Peet Woolhouse <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

## RECEPTIONS AND OTHER CEREMONIES

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### INDIVIDUAL COLLEGE RECEPTIONS

#### *Immediately After Commencement Ceremony*

College of Agricultural Sciences & Natural Resources | Animal and Food Sciences Building, Room 101

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

College of Arts & Sciences | Foyer Area of Room 104, Holden Hall

Jerry S. Rawls College of Business Administration | McCoy Atrium, 1st Floor of Rawls College of Business Administration

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

Edward E. Whitacre, Jr. College of Engineering | 101 Livermore Center

College of Human Sciences | El Centro, Human Sciences Building

College of Media & Communication | Matador Room, Student Union Building

J.T. & Margaret Talkington College of Visual & Performing Arts | Rotunda, Holden Hall

University Studies | Red Raider Lounge, Student Union Building

Wind Energy | Room 107, National Wind Institute

*Please Note: The Graduate School will distribute diplomas in the City Bank Room of the United Supermarkets Arena immediately after the commencement ceremony.*

### OTHER CEREMONY

Air Force ROTC Military Commissioning | Friday, December 14, 11:00 a.m., Escondido Theatre, Student Union Building

## CANDIDATES FOR MILITARY COMMISSIONS

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The following student is being  
commissioned as a Second Lieutenant  
in the United States Air Force:  
Andrew Manz

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

## 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 **College of Agricultural Sciences & Natural Resources** was one of the four founding schools of the university in 1924. The college banner was redesigned for use in the May 2005 graduation. Dr.



The design, with a map of the continent of North America, reflects the global scope of modern agriculture and natural resources management.

The dimensions and proportions of the **College of Architecture** banner are based on the Golden Ratio creating the Golden Rectangle, within which is the logarithmic Golden Spiral. The ancient Greeks recognized these geometries as significant and aesthetically pleasing, and architects from Vitruvius to Corbusier have used these proportions as a means of design. The blue diagonal lines represent the architectural diagram, while the blue-violet fabric, the designated color for Architecture, is woven in a chevron pattern representing the complexity of digital design and fabrication. The banner was designed by David Isern and Simon Alvarez, graduates of the College.



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 Programs** 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 Programs 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 black with a blue drape surmounted by a silver swathe that evokes the creative energy infused in all the arts. The top of the banner features the words "College



of Visual & Performing Arts" in silver, linked by a dynamic red ampersand representing the merging of three departments into the college. Centered in the banner is the college's original award-winning logo designed by the Price

Group in 2002, the same year the college was founded. The logo is a circle divided into three sectors, each representing one of the three units of the college: a blue eye for the School of Art, a red lyre for the School of Music, and a golden spotlight for the School of Theatre and Dance. All three artistic icons are encased by a circular banner which reads: "Texas Tech University." The shape of the banner was selected through a student competition, and the banner was made by personnel in the Costume Shop of the Department of Theatre and Dance.

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.

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.



**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.

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

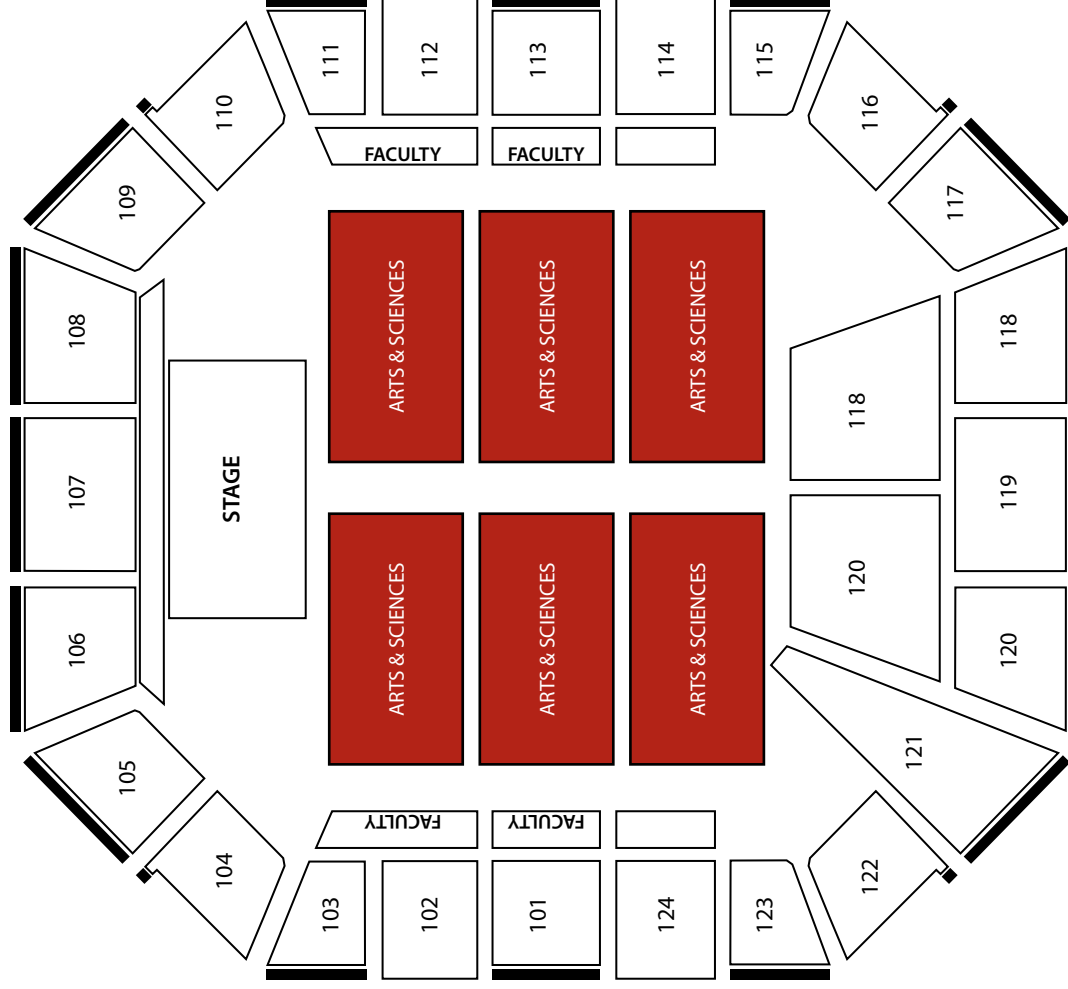
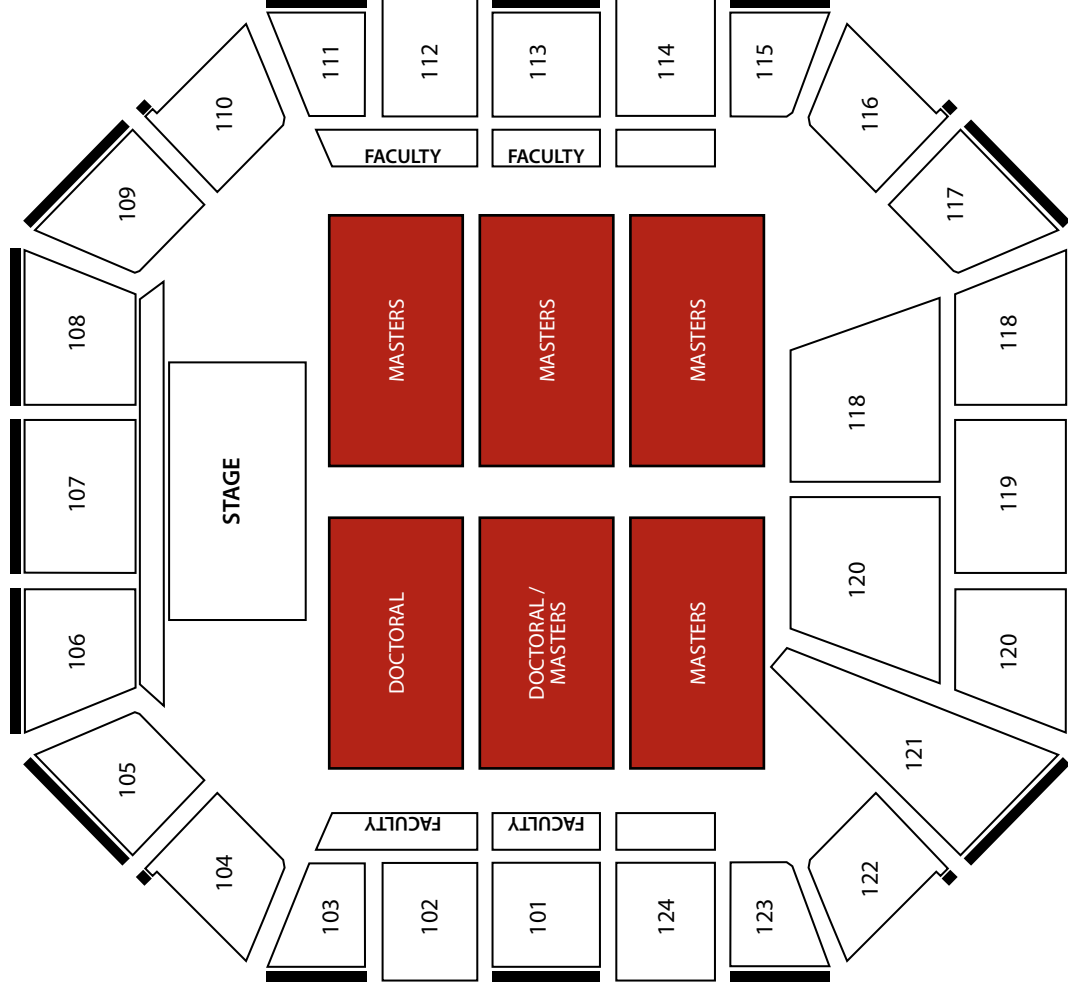
### GRADUATE PHOTOGRAPHS

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

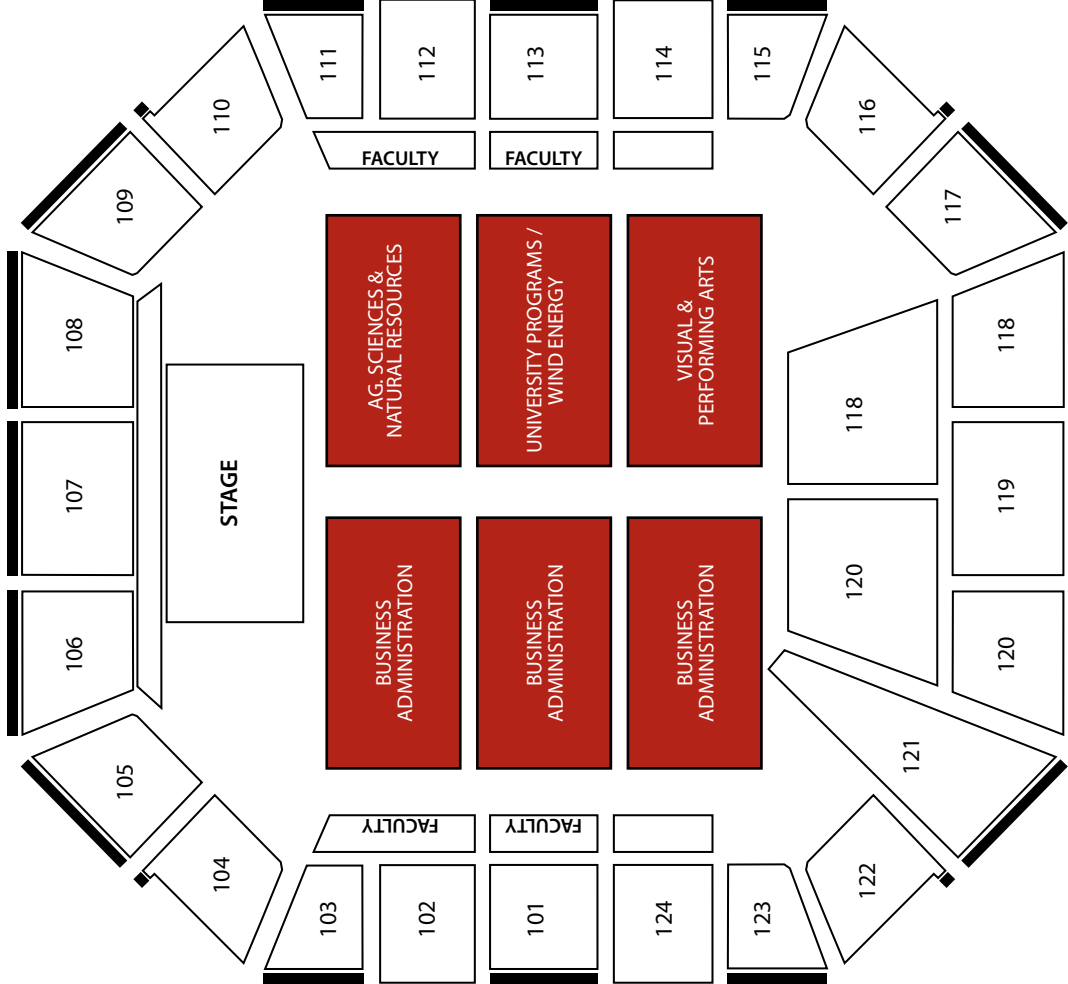
The Texas Tech Alumni Association encourages graduates to order a Texas Tech Commencement DVD to commemorate their achievement. The \$45 purchase also will include a one-year Texas Tech Alumni Association gift membership. This membership will help graduates stay connected to Texas Tech. To reserve a 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.



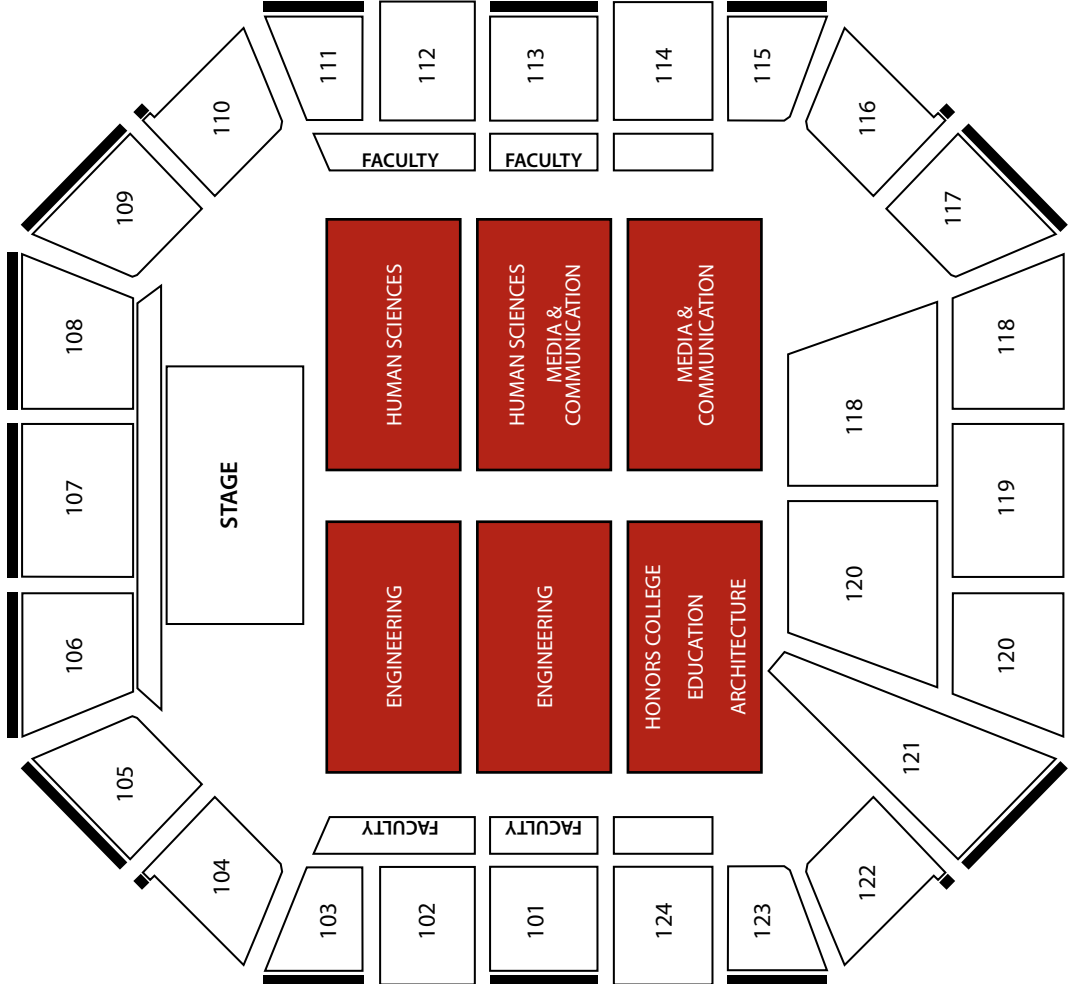
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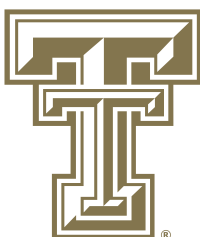


SATURDAY, DECEMBER 15, 9:00 a.m.



SATURDAY, DECEMBER 15, 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  
H. C. MARSHALL  
STUDENT 1930  
TEXAS TECH COLLEGE

## MATADORS

MUSIC BY  
HARRY LEMARQUE  
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

The image shows a page from a 1936 Student Handbook featuring the school song 'MATADORS'. The page includes the lyrics and a musical score. The lyrics are: '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'. The musical score is written for voice and piano, with a key signature of one flat (B-flat) and a 2/4 time signature. The score is arranged in four systems, each with a voice line and a piano accompaniment line. The piano accompaniment consists of chords and simple melodic lines in the right and left hands.