

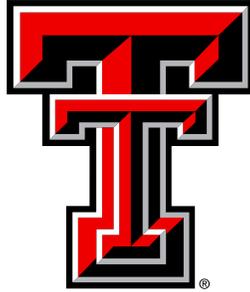
# *Commencement*

**FALL 2019**

Lubbock, Texas

December 13-14





TEXAS TECH UNIVERSITY®

FALL 2019

*Commencement*

Friday, December 13, 2019  
Saturday, December 14, 2019  
UNITED SUPERMARKETS ARENA

2:30 p.m. and 7:30 p.m.  
9:00 a.m. and 1:30 p.m.  
LUBBOCK, TEXAS

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## MISSION

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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 of 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.

*Chief Diversity Officer and Vice President of  
the Division of Diversity, Equity & Inclusion*

## TEXAS TECH UNIVERSITY SYSTEM CHANCELLOR / BOARD OF REGENTS

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*Detroit, Michigan*

## 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*

TIM DODD, Ph.D.

*Interim Dean, College of Human Sciences;  
Professor of Hospitality 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; Professor of Management*

DAVID D. PERLMUTTER, Ph.D.  
*Dean, College of Media & Communication;  
Professor of Journalism and  
Electronic Media/Public Relations*

WILLIAM F. BROWN, Ph.D.

*Dean, College of Agricultural  
Sciences & Natural Resources; Professor,  
Animal and Food Sciences*

JESSE PEREZ MENDEZ, Ph.D.

*Dean, College of Education  
Professor of 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*

EARNSTEIN DUKES, M.L.S.

*Interim Dean of Libraries*

MICHAEL SAN FRANCISCO, Ph.D.

*Dean, Honors College;  
Professor of Biology*

PATRICK C. HUGHES, Ph.D.

*Vice Provost, University Programs and Student  
Success; Professor of Communication Studies*

**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 13, 2019**  
**2:30 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	Mr. William Henrik Zetterstrom <i>Graduating with a Bachelor of Music</i>
Welcoming Remarks	Mr. J. Michael Lewis <i>Vice Chairman, Board of Regents, Texas Tech University System</i>
Introduction of Commencement Speaker	Dr. Lawrence Schovanec
Commencement Address	Mr. Chris Snead <i>Vice President of Operations of the Texas Tech University Alumni Association</i>
Conferring of Degrees	Dr. Lawrence Schovanec Dr. Michael Galylean <i>Provost and Senior Vice President</i>
Presentation of Bachelor's Degree Candidates	Dr. Stefanie Borst <i>Associate Academic Dean, College of Arts &amp; Sciences</i> Dr. Jesse Perez Mendez <i>Dean, College of Education</i> Dr. Noel Zahler <i>Dean, J.T. &amp; Margaret Talkington College of Visual &amp; Performing Arts</i>
Recognition of Outstanding Students Class of 2019	Dr. Michael Galylean
Charge to the Graduates	Dr. Lawrence Schovanec
Alma Mater <i>(Words on Back Cover)</i>	Ms. Kameryn Reese Mattingly <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 13, 2019**  
**7:30 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	Mr. Jarrett Nolan Hatcher <i>Graduating with a Bachelor of Music</i>
Welcoming Remarks	Ms. Ginger Kerrick <i>Board of Regents, Texas Tech University System</i>
Introduction of Commencement Speaker	Dr. Lawrence Schovanec
Commencement Address	Mr. Chris Snead <i>Vice President of Operations of the Texas Tech University Alumni Association</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 2019	Dr. Michael Galyean
Charge to the Graduates	Dr. Lawrence Schovanec
Alma Mater <i>(Words on Back Cover)</i>	Mr. Jarrett Nolan Hatcher <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 14, 2019**  
**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	Mr. William Henrik Zetterstrom <i>Graduating with a Bachelor of Music</i>
Welcoming Remarks	Mr. Christopher Huckabee <i>Chairman, Board of Regents, Texas Tech University System</i>
Introduction of Commencement Speaker	Dr. Lawrence Schovanec
Commencement Address	Mr. Tom Stone <i>Head Coach for TTU Soccer</i>
Conferring of Degrees	Dr. Lawrence Schovanec Dr. Michael Galyean <i>Provost and Senior Vice President</i>
Presentation of Bachelor's Degree Candidates	Dr. Nurcan Bac <i>Senior Associate Academic Dean, Edward E. Whitacre, Jr. College of Engineering</i> Prof. Mitzi Lauderdale <i>Associate Academic Dean, College of Human Sciences</i> Dr. Patrick Hughes <i>(presenting University Studies and Wind Energy degrees) Vice Provost for University Programs and Student Success</i>
Recognition of Outstanding Students Class of 2019	Dr. Michael Galyean
Charge to the Graduates	Dr. Lawrence Schovanec
Alma Mater <i>(Words on Back Cover)</i>	Mr. Jarrett Nolan Hatcher <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 14, 2019**  
**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	Mr. William Henrik Zetterstrom <i>Graduating with a Bachelor of Music</i>
Welcoming Remarks	Mr. J. Michael Lewis <i>Vice Chairman, Board of Regents, Texas Tech University System</i>
Introduction of Commencement Speaker	Dr. Lawrence Schovanec
Commencement Address	Mr. Tom Stone <i>Head Coach for TTU Soccer</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> Prof. Jim Williamson <i>Dean, College of Architecture</i> Dr. David Perlmutter <i>Dean, College of Media &amp; Communication</i> Dr. William Brown <i>Dean, College of Agricultural Sciences &amp; Natural Resources</i>
Recognition of Outstanding Students Class of 2019	Dr. Michael Galyean
Charge to the Graduates	Dr. Lawrence Schovanec
Alma Mater <i>(Words on Back Cover)</i>	Mr. Jarrett Nolan Hatcher <i>Graduating with a Bachelor of Music</i>
Recessional*	Texas Tech Commencement Band

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

## COMMENCEMENT SPEAKER



Christopher Snead is the Vice President of Operations for the Texas Tech Alumni Association where he has been employed for over 20 years. He is a 1995 graduate of Texas Tech University with a bachelor's degree in technical communication. He also serves as the Vice Chairman of the College Baseball Foundation and on the boards of Fellowship of Christian Athletes. Snead has been publicly recognized for his dedicated service to Texas Tech. In 2017, he received the "Pursuit of Excellence" award from the Office of Transition and Engagement, and in 2016, he was tabbed with the "Inclusive Excellence" award from the Office of Diversity and Community Engagement. He is recognized at Texas Tech as an honorary varsity letter winner in baseball, an honorary Saddle Tramp, and a member of the Matador Society.

Most notably, Mr. Snead is a football official in the Southeastern Conference where he has been selected to work multiple post season assignments, including the SEC Championship games in 2016 and 2018, the Rose Bowl and College Football Playoff Semifinal in 2015, and the Orange Bowl in 2017. In 2016, the National Football Foundation named him the Outstanding Official of the year.

Snead is a distinguished alumnus of Alpha Kappa Psi Professional Business Fraternity as well as J.M. Hanks High School in El Paso, Texas. He has been recognized by the Young Professionals of Greater Lubbock, Inc. as one of Lubbock's Top 20 Professionals Under 40 and was also tabbed a National Education Alumni Trust Scholar. He was named a Paul Harris Fellow by Rotary International, and he is the author of the critically acclaimed book, *The Bleacher Bible*.



Tom Stone was named the fourth head coach in Texas Tech soccer history on May 25, 2007. Prior to his arrival at Texas Tech, the team had a record of 6-63-1 in Big 12 play and had gone 0-10-0 in conference four of the previous six seasons. In Stone's first year and a half as coach, the team quickly matched that win total, going 6-5-1 in conference play. In 2010, the Red Raiders went 11-8-1, marking the program's third-ever winning record and first in 15 seasons. Two years later, the Red Raiders made the NCAA Tournament for the first time in program history. In 2013, the Red Raiders made another appearance in the second round after recording a program-record 18 wins. In 2014, Stone's squad won 16 games and climbed as high as sixth in the national coaches' polls before advancing to the program's first-ever Sweet Sixteen. For the breakout campaign, he was named the NSCAA Central Region Coach of the Year.

In 2015, the Red Raiders won their first-ever Big 12 Championship, defeating Kansas 1-0. The year also saw Stone pick up his 100th win at the helm of the Red Raider program when the team beat South Florida 2-1. The Red Raiders went .500 the following two seasons, and in 2018 went 14-5-3, beating a program-record four ranked opponents and leading the nation in shutouts with 14 in the process. As of 2018, Stone has led Texas Tech to the NCAA Tournament in six of the last seven seasons.

Stone was named an All-American soccer player in high school and then went on to play for Duke from 1984-1987. He was a three-time First Team All-ACC selection, picking up the honors his freshman, junior, and senior seasons. Stone's breakout year came in 1986 as a junior when he tallied 16 goals, the second-most in a season in program history. He also assisted on four goals to bring his points total to 36, the ninth-most in program history.

Stone's first coaching job was as a part-time assistant at the University of Denver in 1996 and as a volunteer assistant at Duke in 1997. Then, from 1997-2000, Stone coached girls' soccer for the Colorado Rush youth soccer club. Under his leadership, the team won 35 state cups, 12 regional championships, and eight national championships. He left the Rush to coach professionally in the Women's United Soccer Association. He led the Atlanta Beat to the league's inaugural championship game, losing in overtime to the Bay Area CyberRays.

Stone returned to college coaching in 2006 when he was hired as an assistant for the Clemson Tigers. He spent one year there, helping the Tigers to an 11-8-4 record and an appearance in the Elite Eight of the NCAA Tournament.

# ACKNOWLEDGEMENTS

## CONVOCATIONS COMMITTEE

Dr. Courtney D. Gibson, Chair  
Dr. Marcus Tanner, Co-Chair  
Mr. Ian Barba  
Ms. Shelley Barba  
Mr. Jacob M. Baum  
Mr. Jordan Bell  
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  
Ms. Maggie Gilchrest  
Ms. Sarah Hatley  
Mr. Ben Haugland  
Dr. Vijay Hegde  
Ms. Laura Heinz  
Dr. Annette Hernandez  
Ms. Markicia Horton  
Mr. Nate Imai  
Dr. Catherine Jai  
Mr. Jesse Jou  
Ms. Jessica Kirschner  
Dr. Belinda Kleinhans  
Dr. Erin Marie Legacey  
Dr. Jonathan Marks  
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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. 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  
Ms. Heidi Winkler  
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 and Dr. David Roach  
*Rawls College of Business Administration* – Mr. Derrick Ginter  
*College of Education* – Dr. Kathryn Button  
*Whitacre, Jr. College of Engineering* – Dr. Ting Lin  
*Graduate School* – Dr. Bill Gelber and Dr. Erica Irlbeck  
*College of Human Sciences* – Dr. Bill Gustafson  
*College of Media & Communication* – Dr. Todd Chambers  
*University Programs and Wind Energy* – Dr. Sarah Schwintz  
*Talkington College of Visual & Performing Arts* – Dr. Dorothy Chansky

## ADMINISTRATIVE REPRESENTATIVES

*College of Agricultural Sciences & Natural Resources* – Ms. Macie Reese  
*College of Architecture* – Ms. Amy Peterman  
*College of Arts & Sciences* – Ms. Kymberli Saldaña  
*Rawls College of Business Administration* – Ms. Geleah Sharp  
*College of Education* – Ms. Karen Noles  
*Whitacre, Jr. College of Engineering* – Ms. 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. Alyssa Wagner  
*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, Lindsay Hallowell, Director.

## STUDENT BANNER BEARERS

*College of Agricultural Sciences & Natural Resources* – Ms. Alyssa Soles  
*College of Architecture* – Mr. Amir Halabi  
*College of Arts & Sciences* – Ms. Alyssa Patterson  
*Rawls College of Business Administration* – Mr. Juan Duque  
*College of Education* – Ms. Erica D. Mayo  
*Whitacre, Jr. College of Engineering* – Mr. Khang Huynh  
*Graduate School* – Ms. Jen Hewitt  
*College of Human Sciences* – Ms. Presley McNeely  
*Honors College*  
2:30 p.m. – Mr. Corey McDonald  
9:00 a.m. – Mr. Vincent Dela Cruz  
1:30 p.m. – Ms. Cassidy Williams  
*College of Media & Communication* – Ms. Bailey Johnson  
*University Programs* – Ms. Sarah Dishongh  
*Talkington College of Visual & Performing Arts* – Ms. Ann Sikes

## FACULTY BANNER BEARERS

2:30 p.m. – William "Bill" Westney, Ph.D.  
*Paul Whitfield Horn Professor of Music, Talkington College of Visual & Performing Arts*  
7:30 p.m. – Doug Smith, Ph.D.  
*Associate Professor of Couple, Marriage, and Family Therapy, College of Human Sciences*  
9:00 a.m. – Barent (Barry) McCool, Ph.D.  
*Associate Professor in Restaurant, Hotel, and Institutional Management*  
1:30 p.m. – Jaeki Song, Ph.D.  
*Area Coordinator and Professor of Management Information Systems, Jerry S. Rawls College of Business Administration*

## LIBRARY BANNER BEARERS

2:30 p.m. – Ms. Barbara McArthur  
9:00 a.m. – Ms. Laura Heinz  
1:30 p.m. – Ms. Shelley Barba

*This program is an unofficial list of Fall 2019 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

7:30 P.M., DECEMBER 13 ..... KAJ GITTINGS, PH.D.  
*Associate Professor of Economics  
College of Arts & Sciences*

### Undergraduate Ceremonies

2:30 P.M., DECEMBER 13 ..... JON MCNAUGHTAN, PH.D.  
*Assistant Professor of Educational Psychology and Leadership  
College of Education*

9:00 A.M., DECEMBER 14 ..... KURT CASWELL, M.F.A.  
*Professor and Director of Honors Arts and Letters  
Honors College*

1:30 P.M., DECEMBER 14 ..... SAMUEL JACKSON, PH.D.  
*Associate Professor of Animal and Food Sciences  
College of Agricultural Sciences & Natural Resources*

## GRADUATION HONORS

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

Juan Francisco Alvarez  
Kurt Michael Callegari  
Abigayle Elizabeth Chase  
Matthias Andrew Contreras  
Hannah Leigh Decker  
Sarah Elizabeth Dishongh  
Ashley Nicole Elliott  
Robin Marie Elliott  
Hemra Esenyayzov

Hannah M. Estes  
Andrew Don Fields  
Isabelle Simone Geoffrion  
Jean-Christian A. Guiton  
Sherri Ann Halsted  
Joshua Eli Harvill  
Sarah Elizabeth Hirsch  
Khang Huynh  
Stephanie Paige Kuzmack

Ayla Lucille Lopez  
Ash Malhotra  
Jennifer Anna-Marie Martin  
Erica D. Mayo  
Presley Kate McNeely  
Alyssa Victoria Patterson  
Cole Thomas Perkins  
Karlee Arlene Roach  
Nicole Noelle Rochelle

Yana Romo  
Alexia Sawyer  
Alyssa Paige Soles  
Kelsie Lee Tackitt  
Bailee Nichole Tanguma  
Emily Noelle Wade  
Haven Day Middleton Walker  
Amber Nicole Wallace  
Michael Austin Willis

# CANDIDATES FOR GRADUATE DEGREES

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

Danny Lee Johnston

*Dissertation:* Relationships of Instructional Faculty of Agricultural Educator Teacher Preparation Programs of Organizational Culture and Selected Outcome Measures and Employee Characteristics

*Major Professor:* Steven Frazee

### EDUCATIONAL LEADERSHIP

Jessica Mase Parker

*Dissertation:* Improving Teaching and Learning: A Case Study of a Rural Texas Elementary School's Implementation of Professional Learning Communities and Culturally Responsive Pedagogical Practices

*Major Professor:* Irma Almager

### HIGHER EDUCATION ADMINISTRATION

Richard A. Haas

*Dissertation:* Graduate Student Perceptions of Barriers to Bystander Engagement in Settings where College Students are at Risk of Sexual Assault

*Major Professor:* Stephanie J. Jones

## DOCTOR OF PHILOSOPHY

### AGRICULTURAL AND APPLIED ECONOMICS

Anthony Mwangi Macharia

*Dissertation:* Essays on Small Holder Irrigation and Mango Production in Kenya  
*Major Professor:* Carlos Carpio

Patrick Kibet Rono

*Dissertation:* Essays on Household Food Security Among Smallholder Farmers and Pastoralists in Kenya

*Major Professor:* Shaikh M. Rahman

Mumina Guyo Shibia

*Dissertation:* Essays on the Mechanism and Effects of the Vegetation Index-Based Livestock Insurance for Pastoral Household in Northern Kenya

*Major Professor:* Shaikh M. Rahman

### AGRICULTURAL COMMUNICATION AND EDUCATION

Peng Lu

*Dissertation:* Critical Thinking Attitude: An Exploratory of a Critical Thinking Construct

*Major Professor:* Scott Burriss

### ANIMAL SCIENCE

Katelyn Ortega Bennett

*Dissertation:* Phenotypic and Genotypic Characterization of Persistent and Transient L. monocytogenes Strains to Elucidate Mechanisms of Survival in the Food Processing Plant Environment and Impact on Virulence

*Major Professor:* Kendra K. Nightingale

Jonathan Charles DeClerck

*Dissertation:* Investigating Thin Beef Cull Cow Realimentation Strategies

*Major Professor:* Ryan J. Rathmann

Andrea Renea English

*Dissertation:* Mitigation of Antimicrobial Drug Resistance and Changes in the Microbiome of Feedlot Cattle Supplemented with *Lactobacillus salivarius* L28 as an Alternative to Sub-Therapeutic Antibiotics

*Major Professor:* Marcos X. Sanchez-Plata

Keelyn Elizabeth Hanlon

*Dissertation:* Evaluation of the Fresh Beef Bacterial Community through Processing and Retail Display Conditions using 16s rRNA Gene Amplification Sequencing

*Major Professors:* Mark F. Miller and Mindy M. Brashears

Ashley Renee Lembke

*Dissertation:* Comparison of a Manual Boneless Beef Trim Sampling Method to Traditional N60 Plus Sampler™ and N60 Excision Sampling

*Major Professor:* J. Chance Brooks

Loni Woolley Lucher

*Dissertation:* Palatability of Grass-Finished and Grain-Finished Beef Strip Loin Steaks of Varying Intramuscular Fat Levels and Wet Aging Treatments

*Major Professor:* Mark F. Miller

### BIOLOGY

Pooya Aavani

*Dissertation:* A New Theoretical Treatment of Pathogen and Host Evolution

*Major Professor:* Sean H. Rice

Lucas James Heintzman

*Dissertation:* Past, Present and Future Landscape Changes in the Southern Great Plains: Effects of Urbanization and Energy Extraction on the Play Network

*Major Professor:* Nancy E. McIntyre

Neha Kumari

*Dissertation:* The Effect of Abiotic Interactions on *Prymnesium parvum* and its Microbiome

*Major Professor:* John Zak

### CHEMICAL ENGINEERING

Samira Abedi

*Dissertation:* Microfluidic Study of the Dynamics of Crystal Nucleation and Partial Coalescence in Mono-disperse Two-dimensional Oil-in-water Emulsions

*Major Professor:* Chau-Chyun Chen

Rozana Bari

*Dissertation:* Calorimetric Characterization of Energetics and Amorphous Materials

*Major Professor:* Sindee L. Simon

Jennifer Erin Hewitt

*Dissertation:* Development of *Cuenorhabditis elegans* as a Model Organism for Duchenne Muscular Dystrophy using a Novel Multi-environment Phenotyping Framework

*Major Professor:* Siva Vanapalli

Harnoor Kaur

*Dissertation:* Local Composition Activity Coefficient Models for Mixed-Gas and Liquid Adsorption Equilibria

*Major Professor:* Chau-Chyun Chen

Yong Joon Lee

*Dissertation:* Solid-State Phase Transition Kinetics of Organic Molecules with the Application of AFM

*Major Professor:* Brandon L. Weeks

Qi Li

*Dissertation:* Micro-Rheological Investigations of Colloidal Systems

*Major Professor:* Gregory B. McKenna

Evelyn Lopez

*Dissertation:* Glass Transition Temperature and Reaction Kinetics of Cyanurates in Bulk and Under Confinement and Signatures of Structural Recovery of Polystyrene

*Major Professor:* Sindee L. Simon

Madhusudhan Reddy Pallaka

*Dissertation:* Calorimetric Characterization of Nanoconfined Melts, Glasses and Reactive Monomers

*Major Professor:* Sindee L. Simon

Mohammed Mustafizur Rahman

*Dissertation:* Dehydroaromatization of Methane Over ZSM-5 Supported Molybdenum Carbide Catalysts

*Major Professor:* Sheima Khatib

Sheik Mohammed Saeed Tanveer

*Dissertation:* Thermodynamic Models for Major Electrolytes and Swelling of Hydrogels in High Salinity Produced Water

*Major Professor:* Chau-Chyun Chen

## CHEMISTRY

Miranda Crawford Andrews

*Dissertation:* Computational, Synthetic, and Spectroscopic Investigations of Molecular Switches, their Effects on Pendant Groups, and their Abilities to Form and Affect Measurable Changes in Supramolecular Assemblies

*Major Professor:* Anthony F. Cozzolino

Patrick Jordan Larson

*Dissertation:* Catalysis in Metal-organic Frameworks Using Pendant and Linker Hydroxyl Sites

*Major Professor:* Anthony F. Cozzolino

Ying Liang

*Dissertation:* Vibrational Spectroscopy in the Study of Ionomer Material Properties

*Major Professor:* Carol Korzeniewski

Nadeesha Jayani Silva

*Dissertation:* Molecular Electronic Properties and Inter-Molecular Interactions in Various Polymers

*Major Professor:* Clemens Krempner

Jingfu Zhao

*Dissertation:* Sensitive Analysis of Proteins and Glycoproteins Derived from Biological Samples: Quantitative Proteomics and Glycoproteomics by LC-MS/MS

*Major Professor:* Yehia S. Mechref

## CIVIL ENGINEERING

Junxuan Zhao

*Dissertation:* Exploring the Fundamentals of Using Infrastructure-based LiDAR Sensors to Develop Connected Intersections

*Major Professor:* Hongchao Liu

## COMPUTER SCIENCE

Vibhuti Gupta

*Dissertation:* Big Data Stream Analytics with AI Techniques

*Major Professor:* Rattikorn Hewett

## COUNSELING PSYCHOLOGY

Stephanie Anne Van Horn

*Dissertation:* The Criminogenic Needs of Female Offenders: Relationships between Criminal Risk Factors and Recidivism

*Major Professor:* Robert D. Morgan

## COUNSELOR EDUCATION

Alexis Leighton Croffie

*Dissertation:* The Relational Experiences of International Students at a Large University in the Southwest Region in the United States

*Major Professors:* Brett Hendricks and Ian Lertora

Tara Renee Fox

*Dissertation:* Integrated Behavioral Healthcare: The Future of Rural Mental Health

*Major Professor:* Loretta Bradley

Elizabeth Jean Rogers

*Dissertation:* Elementary Teacher Perceptions of the Role and Function of the Professional School Counselor: Experiences and Collaboration

*Major Professor:* Charles Crews

## COUPLE, MARRIAGE, AND FAMILY THERAPY

Megan Ruth Story Chavez

*Dissertation:* Integrated Behavioral Healthcare: Formative Program Evaluations of Training Activities

*Major Professor:* Cameron Brown

## CURRICULUM AND INSTRUCTION

David Paul Cook

*Dissertation:* High School Mathematics Teacher Conceptions of Equity

*Major Professor:* Jessica J. Gottlieb

Deborah Dawn Deroma

*Dissertation:* Interpreting Motivational Challenges in the Science Classroom: Understanding the Relationship between Pre-Service Teachers' Beliefs, Attributions, and Practices

*Major Professor:* Walter S. Smith

Whitney Balch Dove

*Dissertation:* Online Teacher Professional Development: Exploring the Utility of the PD Theory of Action in Predicting Outcomes

*Major Professor:* Jessica J. Gottlieb

Stacy Jane Mayer Fox

*Dissertation:* Seeing the Unseen: A Teacher's Perspective of Invisible Disabilities in K-12 Education

*Major Professor:* Jeong-Hee Kim

Qing Gao

*Dissertation:* The Impact of Professional Learning Communities on Teaching Practices and Student Outcomes: A Comparative Case Study of Two Chinese Middle Schools

*Major Professor:* Jian Wang

Mary Jean Hoyt

*Dissertation:* Nontraditional Students' Perceptions of Autonomous Learning and Factors Influencing Their Learning in Developmental Mathematics Courses

*Major Professor:* Jian Wang

Melissa Carrie Ingram

*Dissertation:* Using Explanatory Data Collection Methods to Study Online Defense Acquisition University Courses and Personnel Participation

*Major Professors:* Shirley Matteson and Mellinee Lesley

Amanda Gagneux James

*Dissertation:* A Comparative Case Study of 21st Century Focused Professional Development (PD) Embedded within Biology Professional Learning Communities (PLCs) Among Three High Schools in a Single School District

*Major Professor:* Rebecca Hite

# GRADUATE CANDIDATES

**Aziz Koyuncu**

*Dissertation:* Exploring the Multiple Goals and Challenges Related to Enacting a Model of Project-Based STEM Education in One District: Perspectives of Teachers and Administrators  
*Major Professor:* Aaron Zimmerman

**Janice K. Mak**

*Dissertation:* Sixth-grade Students' Self-regulated Learning and Motivation in a Technology-Enhanced Personalized Learning Environment: A Case Study  
*Major Professor:* Jessica J. Gottlieb

**Melissa A. Martinez**

*Dissertation:* Through a Teacher's Eyes: A Photo-voice Narrative Inquiry on Career Longevity through Emotional Appraisal  
*Major Professor:* Faith Maina

**Angela D. Schroeder**

*Dissertation:* Examining the Moderating Impacts of Classroom Experience on the Relationship Between Elementary Teachers' Beliefs and Science Instruction  
*Major Professor:* Jessica J. Gottlieb

**Stacey Linn-Taube Sneed**

*Dissertation:* Examining Elementary Teacher Candidates' Transfer of Higher Cognitive Questioning Skills from Science Methods Course to Associated Field Practice: A Mixed Methods Approach  
*Major Professor:* Jian Wang

**Florentia Marcheve Spires**

*Dissertation:* African American Parents' Perception of Their Child's STEM Persistence  
*Major Professors:* Faith Maina and William Lan

**Debra Lynn Taylor Hall**

*Dissertation:* Developing Capacity for Globally Competent Teaching: A Case Study of State-Level Model for Professional Development  
*Major Professor:* Rebecca Hite

**Kristin Helen Whittenburg**

*Dissertation:* Concerns and Perceptions of Experienced STEM Educators Before and After Continuing Professional Education on Global Collaborative STEM Education  
*Major Professor:* Walter Smith

**Courtney Kay Wilson**

*Dissertation:* Changing Teacher Education through Partnerships: A Social Network Analysis of US Prep  
*Major Professor:* Heather Greenhalgh-Spencer

## ECONOMICS

**Reem Abdulmohsen M. Alqahtani**

*Dissertation:* Essays on the Impact of Renewable Electricity Generation on Gross State Product and Employment at the State Level  
*Major Professor:* Rashid Al-Hmoud

**Baohui Liu**

*Dissertation:* Essays on the Economics of Energy and Transportation  
*Major Professor:* Michael Noel

## EDUCATIONAL PSYCHOLOGY

**Aaron D. Aguilar**

*Dissertation:* Examining the Use of Technically Adequate Behavioral Intervention Plans in a Self-contained Classroom to Increase Teacher Fidelity Implementation  
*Major Professor:* Tara Stevens

**Kathryn Beth Hom**

*Dissertation:* Learning in a Correctional Setting: What are the Relationships Among Criminal Risk Factors, Trauma, and Behavioral Change  
*Major Professor:* Kamau Oginga Siwatu

**Yuanhua Wang**

*Dissertation:* Enhancing Students' Motivation in Learning Mathematics: The Mediating Effects of Perceived Value  
*Major Professor:* William Lan

## ELECTRICAL ENGINEERING

**Mitchell Dwain Kelley**

*Dissertation:* Design and Simulation of a Fuel Cell Power Plant with Dynamic Multi-Unit Load Sharing in Grid-connected and Grid-isolated Modes of Operation  
*Major Professor:* Stephen B. Bayne

**Zhenyu Sun**

*Dissertation:* Development of Novel Gain Media for Retina-Safe Solid-State High Energy Lasers Based on Er-Doped Gallium Nitride (Er:GaN)  
*Major Professors:* Hongxing Jiang and Jingyu Lin

## ENVIRONMENTAL TOXICOLOGY

**Lihua Lou**

*Dissertation:* Functional Nanofiber Webs in Environmental Protection and Human Health  
*Major Professor:* Seshadri Ramkumar

## EXPERIMENTAL PSYCHOLOGY

**Francesco Vincenzo Donato**

*Dissertation:* Visual Ambiguity Priming Promotes Uniqueness in Art-Viewing Responses  
*Major Professor:* Michael Serra

**Mindi Mozell Price**

*Dissertation:* I Won't Be Tempted: The Relationship between Forecasting Errors and Trait Self-Control  
*Major Professor:* Jessica L. Alquist

## FINE ARTS

**Erin Nicole Grogan**

*Dissertation:* Uncovering the Voices: Irish Female Playwrights During the Free State Years  
*Major Professor:* Andrew Gibb

## GEOSCIENCES

**Nur Uddin Md Khaled Chowdhury**

*Dissertation:* Developing a 3-D Basin Subsidence Model for the Late Paleozoic Taos Trough in Northern New Mexico  
*Major Professor:* Dustin E. Sweet

**Kevin Richard Werts**

*Dissertation:* Discerning Magmatic Processes and Melt Interconnectivity in the Tuolumne Intrusive Complex from Hornblende and Titanite Compositional Zoning Patterns  
*Major Professor:* Calvin G. Barnes

## HIGHER EDUCATION RESEARCH

**Ryan S. Litsey**

*Dissertation:* The Social Origins of University Governance: The Role of Power and Knowledge in Higher Education  
*Major Professor:* Jonathan McNaughtan

**Casey Nicole Morris**

*Dissertation:* Student Athlete Perceptions of the Value of Education, Sport and Purpose: "It's Like A Business"  
*Major Professor:* Hugo Garcia

## HISTORY

**Dennis Harold Berger**

*Dissertation:* Gaining a Measure of Respect: U.S. Army and Air Force Enlisted Personnel During the Cold War, 1945-1990  
*Major Professor:* John R. Milam

## HOSPITALITY ADMINISTRATION

Adel Naser A. Badawi

*Dissertation:* The Relationship Between Employer Attractiveness and Hospitality Students Job Pursuit Intentions in Terms of Person-Environment Fit

*Major Professor:* Shane C. Blum

## HUMAN DEVELOPMENT AND FAMILY STUDIES

Ivette Noriega

*Dissertation:* Children's Visual Attention, Neural Function, and Memory for Distressing Information

*Major Professor:* Yoojin Chae

## INDUSTRIAL ENGINEERING

Tamer Elia Yared

*Dissertation:* Visual Search Characteristics When Using a Navigation System Focusing on Driver Age, Display Size and Environmental Illumination

*Major Professor:* Patrick Patterson

## INTERIOR AND ENVIRONMENTAL DESIGN

Andrea Roye Wade

*Dissertation:* Sit-stand Unit Use for Employee Health in Higher Education Environments

*Major Professor:* Kristi Gaines

## LAND-USE PLANNING, MANAGEMENT, AND DESIGN

Eric Don Busby

*Dissertation:* Examining the Impact of Downtown Revitalization on Residential Values: An Evaluation of the Downtown Dallas 360 Plan and its Effect on Surrounding Neighborhood Districts

*Major Professor:* Perry Carter

## MATHEMATICS

Sureka Pathmanathan

*Dissertation:* Boundary Optimal Control Problems with Integral Control Constraints for Fluid and Solid Mechanics

*Major Professor:* Giorgio Bornia

Henda Hewa Supem Ranjana Samarasiri

*Dissertation:* Harmonic Measure and its Application to Steady State Heat Distribution

*Major Professor:* Alexander Solynin

## MECHANICAL ENGINEERING

Ozhan Gecgel

*Dissertation:* Condition Monitoring of Gearbox Components Using Deep Learning with Simulated Vibration Data

*Major Professor:* Stephen Ekwaro-Osire

Godlove Azhie-Nwi Wanki

*Dissertation:* Accounting for Parameter Uncertainties in the Prediction of Porous Femoral Stem Reliability

*Major Professor:* Stephen Ekwaro-Osire

## MEDIA AND COMMUNICATION

Robin Lillian Haislett

*Dissertation:* Independent Video Games and the Games 'Industry' Spectrum: Dissecting the Online Discourse of Independent Game Developers in Industry Culture

*Major Professor:* Robert M. Peaslee

James Garrett McKinnon

*Dissertation:* Effects of Frame Valance, Sport Type, and Fanship on Perceptions of Credibility, Persuasiveness, and Factual Recall: An Experiment with Twitter in a Sports Media Environment

*Major Professor:* Weiwu Zhang

Kenneth Randal Pybus

*Dissertation:* Assessing Gatekeeping Factors and Jurist and Journalist Perceptions of Gatekeeping and Framing in Media Coverage of the Texas High Courts

*Major Professor:* Todd Chambers

## NUTRITIONAL SCIENCES

Md Akheruzzaman

*Dissertation:* E4orf1, A Novel Adenovirus Derived Protein to Improve Diabetes and to Reduce Liver Fat

*Major Professor:* Nikhil Dhurandhar

Fahmida Akter Rasha

*Dissertation:* Role of Adipose Renin-Angiotensin System Inhibition and Omega-3 Fatty Acids in Obesity and Breast Cancer Crosstalk

*Major Professor:* Naima Moustaid-Moussa

## PETROLEUM ENGINEERING

Srikanth Tangirala

*Dissertation:* Experimental Study of the Impact of Frac Fluid Invasion and Mitigation of Formation Damage using Surfactants in Conventional and Tight Formations

*Major Professor:* James Sheng

## PHYSICS

Sumera Siddique

*Dissertation:* Fabrication and Study of Electrochemical, Mechanical and Tribological Properties of Al Alloys Coatings by Cold Spraying

*Major Professor:* Arton Bernussi

## PLANT AND SOIL SCIENCE

Corey N. Thompson

*Dissertation:* Proximal Remote Sensing of Cotton Growth Habits in Water Use Efficiency Trials

*Major Professor:* Glen Ritchie

## POLITICAL SCIENCE

Yonathan A. Hailu

*Dissertation:* The Political and Economic Effect of International Development Agencies (IDAs) on Developing Countries

*Major Professor:* David Lektzian

## SPECIAL EDUCATION

Michelle Aliff

*Dissertation:* The Impact of Receipt of Social Security Supplemental Income on Vocational Rehabilitation Closure Status for Transitional-aged Youth

*Major Professor:* Robin Lock

## WIND SCIENCE AND ENGINEERING

Theresa Abigail Aguilar

*Dissertation:* Detecting the Long-term Frequency of Large-scale Wind Power Ramp Events Observed in ERCOT's Aggregated Wind Power Time-series Data

*Major Professor:* Andrew Swift

James Bean Duncan, Jr.

*Dissertation:* Wind Plant Optimization Opportunities Based on Scanning-based Measurements and Advanced Measurement Analysis Techniques

*Major Professor:* John L. Schroeder

## MASTER OF AGRIBUSINESS

Kristen Lynn Blase

Sterling Goodman Kothmann

## MASTER OF ARCHITECTURE

Daniel Arzaga

Ryan Trey Bahlman

Carlos Jose Balza Gerardino

Shelton Bowers

Bobby Russell Brown

Romina Cardiello Cereijo

John Dwane Darnell

Asher T. Durham

Chas Chandler Gold

Jose Roberto Gonzalez

Danton Garrett Kranz

Daisy B. Limón Garcia

Richard Allen Napier

Levi Seth Rey

Joshua Michael Sheek

# GRADUATE CANDIDATES

## MASTER OF ART EDUCATION

Carla Melissa Carl  
Keisha Lynn Casiano  
Diana Lynn Atwood Mccutcheon  
Elizabeth Faye Nelson  
Jennifer Ann Weigand  
Madison Nicole Wood  
Angela Kay Zesiger

## MASTER OF ARTS

### COMMUNICATION STUDIES

Megan Noel Hogan  
*Thesis:* A Critical Examination of Sensation and Public Memory  
Adeola Emmanuel Oyero

### ENGLISH

Susanna Frances Bender

### EXPERIMENTAL PSYCHOLOGY

Nicholas Andres Garcia  
Tiffany Grace Lui  
Emily Louise Maw  
Theresa Kim Nguyen  
Gavin Ueland

### HERITAGE AND MUSEUM SCIENCES

Alexandra Elise Jones  
Raven Laura LaFave  
Alexander Joseph Van Allen

### HISTORY

Martin H. Fuller  
*Thesis:* Watchman Nee, His Teaching, and the Imagined Influence of Chinese Context  
Victoria Ann Stambaugh  
*Thesis:* "Yesterday's Child": Women's Running, Mary Decker, and Cold War Politics in the Twentieth Century

### INTERDISCIPLINARY STUDIES

Alicia Browder  
Elliott Roderick De Wit  
Vivian Ashley Drennan  
Ross W. Fleming  
Ariana Victoria Martell  
Nathan Edward Rice  
Yadira Esmeralda Torres

### MASS COMMUNICATIONS

Nicole Ann Ditolla  
Lea Alexander Fulton  
Katrina Jo Anna Gonzales  
Thomas James Hallford  
Garrett C. Haslam

Abby Hill  
Caitlin Kelley  
Alana Jenelle Krafur  
Brianna Maldonado  
Juliette Solange Mark  
Logan Christine McDonald  
Casey Danielle Montalvo  
Linh Phuong Nguyen  
Caulder W. M. Parker  
Simon Scott Parmley  
Haley Marsarie Parrish  
Maria Poveda Llanes  
Torico Javon Price  
Laura Katherine Ragsdale  
Justin Leland Rex  
Marcos Daniel Rubio  
Hannah Nicole Sheaffer  
Simranjit Singh  
Ashley Smith  
Baylee Diann Ward  
Dorian Ray Williams, Jr.  
Tianjie Zhang

### PSYCHOLOGY

Yazmine Patricia Huizar  
*Thesis:* Early Life and Genetic Associations of Adult Metabolic Dysregulation  
Michael Vitro

### SOCIOLOGY

Sara Farzana Ananna  
*Thesis:* Causes and Consequences of Rohingya Refugee Crisis: A Case of Doubly Alienated People  
Janice Julia De Leon  
Amanda Renee Thibeaux  
*Thesis:* Sibling Abuse: The Role of Familial Intervention and Its Effects on Familial Contact

### STRATEGIC COMMUNICATION AND INNOVATION

Sandra Addo  
Ann Marie Ashmon  
Brittany Elizabeth Bagwell  
Carly Michelle Carthel  
James Eppler  
Darby Noelle Humphries  
Jessica Rambo Johnston  
Christopher Knapp  
Jeffrey Michael Loy  
David Joseph Marshall  
Kaley Nacole Martin  
Samantha Matthis  
Julian Brian McKinney  
Shannon Myers  
David Olshansky  
Charissa Dawn Parkhill  
Elizabeth Sanmartin

Katelin E. St Clair  
Ashley Elizabeth Stewart  
Timothy C. Stewart  
Bryan Matthew Williams

### TECHNICAL COMMUNICATION

Kali Aspen Morrison  
David Casey Scott  
Kristen Marie West

## MASTER OF BUSINESS ADMINISTRATION

Misha Ahmadian  
Cindy Paola Alvarado  
Diana C. Avalos  
Olushola Moses Awoyemi  
Ryan Trey Bahlman  
Kevin Andrew Baker  
Alejandro Barajas  
Neal Anthony Barton  
Andrew L. Bevely  
Gnamien Benedicte Athan Bohoussou  
Mindy Shay Bolm  
Andrew Wayne Bullard  
Laura Jean Burrus  
Zack Chad Byrd  
Sarah Connelly  
Nicholas M. Counelis  
Sydney Michelle Craig  
Shahriar C. Daneshfar  
Pedro Diaz, Jr.  
Daniel Matthew Drozd  
Chad Edward Fletcher  
Cassady Jae Fredriksen  
Brittany Gaither  
Maraya Garcia  
Bryan John Gay  
Wade Alexander Goode  
Kristin Alejandra Greene  
Atira Hinton  
Hilary Dianne Jackson  
Jenna Rene Jenkins-Reid  
Blake Thomas Jetton  
Kelsey Wayne Johnson  
Kevin William Jumper  
Kathleen Marie Kent  
Kourtney Kruse  
Brian Kwok  
Sarah Elise Lawrence  
Amelie Virgine Leroux  
Daisy B. Limón Garcia  
Kandace Vo Luu  
Denise Campos McCormack  
Tyler Cain McCormack  
Carmen Molina  
Fernando Moncada, Jr.  
Connor Oh

Daniel Okoro-Sokoh  
Travis Mcguire Overton  
Jigesh Rameshchandra Patel  
Thanh Tat Phan  
Katy Rebecca Poff  
Bryne Logan Pruitt  
Laura Katherine Ragsdale  
Daniel Thomas Reif  
Cristian James Requenez  
Hector Avila Rosas  
Ryan Zachary Ross  
Joseph Taylor Salviz  
James Lee Sayle  
Shannon Leigh Scott  
Gregory Kirk Smith  
Joe Richard Soliz  
David Michael Stovall  
Daniel Burrell Swinney  
Luis Carlos Torres Rosas  
Kevin-Khoa Le Tran  
April Nikole Villarreal  
Andrew Paul White  
Michael Lawrence Wilson

## MASTER OF EDUCATION

### CURRICULUM AND INSTRUCTION

Lucas E. Ashby  
Leila Marie Bailey  
Devery Amundsen Bellingham  
Michele Burch  
Debra Ann Campbell  
Arlyn Aime Garay Cruz  
Amy Baker Lavigne  
Marisol Martinez Resendiz  
Rachel Anne Smith  
Elizabeth Jean Spencer  
Carla Michelle Varela  
Donna Kristie Yeary

### EDUCATIONAL PSYCHOLOGY

Paige L. Huckaby

### INSTRUCTIONAL TECHNOLOGY

Megan Leigh Acosta  
Amber Tara Jobe  
Amy Dianne Lawler  
Isabel Quintero

### SPECIAL EDUCATION

Cheri Dominique Allen  
Jearlyn Clair Allen  
Remika Anita Bowie  
Laura Estela Cabrera-Garcia  
Whitney Shae Creekmore  
Laurie Diane Davidson  
Monica Meza Deutchman  
Katie Anne Dorsey

Kylie Foley  
Amanda Rockelle Gafford  
Tammy Faye Gilbreath  
Danielle M. Gonzalez  
Cyndi Renee Hardin  
Itzayana Hernandez  
Lauren Elizabeth Hilliard  
Megan Marie Jackson  
Tracey Delores Jones  
Lori Denise Lane  
Samuel Keith Larkin  
Rachele Aleace Gossett Leo  
Delma Aguirre Medrano  
Shannon Nicole Murawski  
Jennifer L. Padgett  
Stephanie Nichole Powell  
Beth Ann Prado  
Luis Miguel Roblero  
Angie Rodela  
Janel Aidee Romo  
Amber Sadler  
April Renee Savoy  
Kimberly Schmidt  
Megan Nicole Spinn  
Cameron Erin Taylor  
Kristin Elizabeth Tyler

## MASTER OF ENGINEERING

Gabriel D. Herrera

## MASTER OF FINE ARTS

### ART

Kelly Jo Reyna

### THEATRE ARTS

Justin Alan Mckean  
Dillon Chase Rouse  
*Thesis: Another Tale in the Depot District: The Development Process for Shame on Me*

## MASTER OF MUSIC

Leonel Garza  
Franklin Wilson Lacey  
*Thesis: Composing with a Crowd: Harnessing the Energy of Collaboration*  
Pablo Seguel Ponce  
Anne Elizabeth Wharton  
*Thesis: Entering the Bal: Strategies of Adoption in a North American Elective Folk-Dance Community*

## MASTER OF PUBLIC ADMINISTRATION

Joshua Ibitamunno Benstowe  
Brad William Britten  
Camila Marin Melo  
Tracie Allyson Kiyomi Pettus  
Melissa D'anne Sullinger

## MASTER OF SCIENCE

### AGRICULTURAL AND APPLIED ECONOMICS

Niranjan Jayaramu  
Rok Novak  
Ted Robinson Woolsey  
*Thesis: Investigating U.S. Breast Cancer Mortality Rates Using Big Data*  
Daniel Sánchez-Piñol Yulee

### AGRICULTURAL COMMUNICATIONS

Kellie Anne Boykin  
*Thesis: Chew on This: Investigating Public Perceptions of Lab Grown Meat*  
Jacy Kane Cabler  
Margaret May Elliot  
*Thesis: Perceptions of Sustainable Textiles: A Q Methodological Approach*  
Landee Janell Kieschnick  
*Thesis: Agricultural Communications in Australia: Identifying Stakeholders' Needs for Higher Education Curriculum*  
Caitlin Anne Stanton  
*Thesis: An Analysis of Consumer Perceptions, Attitudes, Visual Attention Allocation, and Willingness to Pay for Clean Label Food Items*

### AGRICULTURAL EDUCATION

Hunter Coen Parrott  
Ashley Dawn Semler  
*Thesis: Students' Perceptions of Problem-Based Learning in Undergraduate Courses*

### ANIMAL SCIENCE

Danielle Lisa Evers  
*Thesis: The Effects of Diet and Aging of Australian Longissimus Lumborum on Beef Flavor*  
Sebastian Edoardo Mejia Turcios  
*Thesis: Effects of Bismuth Subsalicylate and Encapsulated Calcium-Ammonium Nitrate on Feedlot Beef Cattle Production*  
Karla Melissa Rodriguez Flores  
*Thesis: Lethality and Post-Package Pasteurization Treatments on Reducing Salmonella spp., Shiga Toxin-Producing Escherichia coli and Listeria monocytogenes in Ready-to-Eat Meat and Poultry Products*  
David Andrés Vargas Arroyo  
*Thesis: Microbial Growth and Shelf-life Study on Pork Loins by the Application of Different Antimicrobials*

# GRADUATE CANDIDATES

## ATMOSPHERIC SCIENCE

Cameron John Nixon  
*Thesis:* The GOES-16 Geostationary Lightning Mapper: Lightning Trends Within Tornadoic Quasi-Linear Convective Systems

## BIOENGINEERING

Hugo Joseph Michel Minière  
*Thesis:* Jet Stability in Yield Stress Materials

## BIOLOGY

Andres Leonardo Rodriguez Cordero  
*Thesis:* Conservation and Geographic Distribution of Crocodylians in Bolivia (*Caiman Yacare*, *Caiman Latirostris*, *Melanosuchus Niger*, *Paleosuchus Palpebrosus*, *Paleosuchus Trigonatus*)

## BIOTECHNOLOGY

Anusha Shayamalee E. Abeysinghe

## COMPUTER SCIENCE

Cameron Christopher Cortines  
Siddharth Santoshkumar Mehta  
Christopher T. Phelan  
*Thesis:* A New Framework for Knowledge Problems in Answer Set

## COUPLE, MARRIAGE, AND FAMILY THERAPY

Michael A. Daniels

## ENVIRONMENTAL DESIGN

Mona Maher  
Eman Nizar Nasrallah

## FOOD SCIENCE

Ayodeji Emmanuel Adeniyi  
*Thesis:* Evaluation of *Salmonella* and Shiga Toxin-Producing *Escherichia Coli* Isolated from Pet Food and Antimicrobial Susceptibility Patterns  
Paola Melisa Moncada Muñoz  
*Thesis:* Antimicrobial Resistance in Honduran *Salmonella* and in *Escherichia Coli* Recovered from Cattle in the U.S.  
Remio Teixeira Moreira  
*Thesis:* Efficacy of UV Light, Photohydroionization\* and Beefxide® on Reducing *Escherichia coli* O157:H7 on Beef Trimmings Used in Ground Beef Production  
Sara Margarita Munoz Mendoza  
*Thesis:* Fate of Spore-Forming Pathogens in High and Reduced Moisture, Processed Meat and Poultry Products Subjected to Post-Packaging Pasteurization

## FORENSIC SCIENCE

Preston E. McCullough  
*Thesis:* An Investigation into Jail Programming and Recidivism

## GEOGRAPHY

Emily Morgan Glaeser  
*Thesis:* Hearing the Deaf Community: Miscommunication of Medical Accommodations

## GEOSCIENCES

Luka Badurina  
Eduardo Antonio Chavez  
*Thesis:* Petrology and Geochemistry of the Illinois Basement and Related Rocks from St. Francois Mountains, SE Missouri  
Jordan Sloan Coe  
*Thesis:* Diagenesis of Upper Pennsylvanian (Missourian) Hoxbar Sandstone from the Anadarko Basin and its Impact on Reservoir Quality (Caddo County, Oklahoma)

## HORTICULTURE SCIENCE

Sharon Janine Johnson  
Miranda K. Jones

## HOSPITALITY AND RETAIL MANAGEMENT

Kristyn Renae Hess  
Bailey Nicole Martin  
Sierra Snyder

## HUMAN DEVELOPMENT AND FAMILY STUDIES

Ivette Maria Agüero

## INTERDISCIPLINARY STUDIES

Suzan Yesil Hafizoglu  
InEyes OfGod Johnson  
Viershanie A. Latham  
Larry Thomas Phillips

## KINESIOLOGY

Danielle Day Edgar  
Justin Ross Heater  
Cruz-Edwin Hernandez  
Beth Ann Richburg

## MATHEMATICS

Keeragala Arachchillaya Gunasingha  
Rachel Marie Harris  
Randall E. Karr  
Cole Pearson Long  
Casey Jane Mills  
Ramiro Ramirez, Jr.  
Brooke C. Sanders  
*Thesis:* Breast Cancer with Machine Learning in MATLAB  
Veniamin L. Smirnov

## MICROBIOLOGY

Bravada Marie Hill  
*Thesis:* Novel HiC Modification to Study Biofilms in Polymicrobial Infections

## NUTRITION AND DIETETICS

Caitlin Grace Alcantar  
Ann Moore Alexander  
Chloe Diane Bell  
Kimberly Christine Brown  
Britney Buentello  
Kemia Carter  
Jennifer Renae Enloe  
Carlie Foust  
Tayler Brooke Jameson  
Adrienne Keck  
Jannin Macias  
*Thesis:* Retention of Nutrition Knowledge and Changes in Fruit and Vegetable Preferences in 4th-5th Grade Students  
Kimberly A. Moreau  
Anna Rose Schwartz  
Madison Kaye Settle  
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Megan Marie Fletcher  
Matthew Randall Frost  
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Jemima Ogake Stratford  
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## PHYSICS

Derek G. Abrams  
*Thesis:* Light Absorbers for Optical-Thermal-Electrical Energy Conversion  
Andrew Paul Smith

## PLANT AND SOIL SCIENCE

Bishwoyog Bhattarai  
*Thesis:* Silage Production Potential of Forage Sorghum, Pearl Millet, and Corn Under Limited Irrigation  
Tanner S. Drake  
*Thesis:* Effects of Cultivar and Irrigation on In-Season Fruit Accumulation and Retention  
Jay B. Pendergrass  
*Thesis:* Utilizing Phenotypic Traits to Predict Seedling Field Vigor in a Cotton Breeding Program

# GRADUATE CANDIDATES

Kyle Richard Russell

*Thesis:* Weed Management Systems in Auxin Tolerant Cotton and Non-Auxin Tolerant Cotton Response to Stimulated Dicamba Drift

Manish Sapkota

*Thesis:* Soil Health Variability Among Residential Landscapes Impacts Urban Water Conservation

Yazhou Sun

*Thesis:* Assessment of Cotton Water Stress with Unmanned Aerial Systems Remote Sensing

## SPORT MANAGEMENT

Cade Tucker Castro

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Jonathan Ray Falcon

Samantha Judd

Megan Alece Metz

Dakota Parrish

Brooke Nicole Robertson

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## STATISTICS

Pooya Aavani

*Thesis:* Detecting Imprinting and Maternal Effects Using Monte Carlo Expectation Maximization Algorithm

Isuru Dilan Dassanayake

Zhuanzhan Ma

## WILDLIFE, AQUATIC AND WILDLANDS SCIENCE AND MANAGEMENT

Courtney Elizabeth Jasik

*Thesis:* Relationship Between Huisache (*Acacia farnesiana*) Canopy Cover and Understorey Forage Characteristics in Texas Coastal Prairies

Courtney Lyn Threadgill Ramsey

*Thesis:* Pronghorn Fawn Survival, Bed-site Characteristics and Adult Doe Habitat Selection in Southeastern New Mexico

## MASTER OF SCIENCE IN ACCOUNTING

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Kelsey Nicole Cook

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Alexis Haley Dyndul

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Mingming Shi

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## MASTER OF SCIENCE IN CIVIL ENGINEERING

Brennan Kashmere Cox

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Israel Juarez

Limeimei Xu

Fatih Yildirim

*Thesis:* A Statistical Analysis of Limit Equilibrium Factors of Safety for Slope Stability Analysis

## MASTER OF SCIENCE IN ELECTRICAL ENGINEERING

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*Thesis:* Design and Implementation of a Rayleigh Pulse Forming Network for Automated Control

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Henry J. Johnston

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*Thesis:* Modelling and Design of Grid Connected Doubly Fed Induction Generator

Karan Tusharbhaj Shah

Ketan Babanrao Shende

Rajendra Shrestha

Zhenyu Sun

Justin Lee Talavera

Yves Laurent Tchatchoua Tongwa

*Thesis:* Software Defined Radio (SDR) Based Non-Contact Vital Signs (NCVS) Sensor System

Cedrick Tchoupe Nono

*Thesis:* Analysis of the Impact of Nonlinear Loads' Harmonics on Synchronous Generators Lifetime

Jing Wang

## MASTER OF SCIENCE IN ENVIRONMENTAL ENGINEERING

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Kensie Skye Mason

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Lianning Zhu

## MASTER OF SCIENCE IN MECHANICAL ENGINEERING

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*Thesis:* Integration and Optimization of Iso-tachophoresis on a Programmable Microfluidics Automaton

Adel Bassam Darwiche

Sarah Maria Hilfers

Chae-eun Kim

*Thesis:* Design and Control of a Scaled Wind Turbine

Kelsea Kay Miller

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*Thesis:* Electrospinning Nanofiber Scaffolds with Alignment Gradient and Three-Dimensional Structure

Gou Saitou

Connor Dale Woodruff

## MASTER OF SCIENCE IN PETROLEUM ENGINEERING

Luke Tyler Elbel

## MASTER OF SCIENCE IN SOFTWARE ENGINEERING

Jordan D. Hudgens

Evan Corey Wilson

## MASTER OF SCIENCE IN SYSTEMS AND ENGINEERING MANAGEMENT

Sebastian Andres Bahamonde

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Christina Marie Rigo

# 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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### AGRIBUSINESS

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 Samuel James Robinson  
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## BACHELOR OF SCIENCE

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### BIOLOGY

Kimberly Jessica Abella  
 Christopher Thomas Adams  
 Jaxon Cole Armstrong  
 Awais Arshad  
 Fabiola Arzate  
 Zackary Dean Batchler  
 Jeffrey Arthur Carruth<sup>2</sup>  
 Mallory Nicole Chandler  
 Jaret Enrique Colon<sup>3</sup>  
 Scheila Rene Corujo  
 Adam William Crawford  
 Matthew Gabriel Duncan  
 Nicolas Fonseca Escobar  
 Dominique Michelle Garrett  
 Grant Tyler Golder  
 Taylor Ray Goodfellow<sup>3</sup>  
 Myles Brion Guillory  
 Hope Sterling Harris  
 Jenna Frances Hefele<sup>3</sup>  
 Ketsia Kimbimbi  
 Matthew Nicholas Martinez<sup>3</sup>  
 Rylie Brook McGinnis<sup>4</sup>  
 Heather Irene Medina  
 Robert Leyton Mendez  
 Leticia Mendoza  
 Cerjio Homero Molinar<sup>3</sup>  
 Jeremie Paul Morris<sup>3,4</sup>  
 Kaitlyn Noel Mowery  
 Jennifer Elaine Natal De La Guardia  
 Gilbert Ogunmokun  
 Abigale Grace Osborne<sup>3,4</sup>  
 Alyssa Victoria Patterson<sup>1,4</sup>  
 Darian Rose Puente  
 Mikayla Marie Rascon<sup>3</sup>  
 Ireland Ellyse Reinhart  
 Hayden Blaine Ritter<sup>2,4</sup>  
 Saul Enrique Rodriguez  
 Kodeelane Rust  
 April Judith Sanchez  
 Tyler Franklin Simonek  
 Lawson Maxwell Sittre  
 Emily Marie Torres  
 Madison Rae Valdez  
 Irene Vasquez  
 Edgar Yomar Windom

### CELL AND MOLECULAR BIOLOGY

Josef Fabian Fowler

## CHEMISTRY

Asiegbu Anya  
 Lance Pierce Blair  
 Evan Matthew Boneta  
 Jacob Robert Dotterer  
 Merylyn Duarte  
 Raquel Lilly Frantz<sup>3</sup>  
 Daisy H Huynh  
 Robert Clinton Wood

## ECONOMICS

Blake Edward Beal<sup>2</sup>  
 John Henry Gerold  
 Robert Alexander Gray  
 Sydney Kiyoko Manning

## GEOSCIENCES

Vince Irvin Pascual Amurao  
 Christopher Ryan Boudreaux  
 Juan Manuel Colmenero  
 Zhacciera Georgina Kanari  
 Nilsandra Liria Silva  
 Robert Ren Yao

## KINESIOLOGY

Hailee Jean Adams  
 Lauren Allyson Alonzo  
 Brianna Christian Amaya  
 Austin Craig Andrews  
 Arzoo Bains  
 Aubrea Zoe Bean  
 Melissa Bellou<sup>2</sup>  
 LaGrante Dimitri Birth  
 Isaac Scott Bockhoff  
 Justin Kyler Cagle  
 Natasha Nicole Camarillo  
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 Karanne Elizabeth Charo  
 Abigayle Elizabeth Chase<sup>1</sup>  
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 Maverick Cunigan  
 Chelsea Lynn Daniels  
 John Cristian De Santiago  
 Elizabeth Brook Dixon<sup>2</sup>  
 Jett Luddy Duffey  
 Kyle Austin Figg  
 Eriahna Jon Flores<sup>1</sup>  
 Steven Gerald Fontaine  
 Madilynn Ann Foster  
 Madison Rose Frost<sup>2</sup>  
 Addison Brooke Fuller<sup>3</sup>  
 Hadleigh Rene Garza  
 Brice Everett Gibbons  
 Ryan Thomas Gillispie  
 Marissa Nicole Gomez  
 Anissa Noelle Guerrero  
 Dax Compton Haight  
 Bryce Anthony Harrison  
 Breanna Hendricks  
 Steven Honts  
 Grant Ryan James  
 Baylor Andrew Johnson<sup>3</sup>  
 Melissa Mary Kaminski  
 Britney Cheyenne Kiser  
 Reed Murdock Knittle  
 Tara Kay Licon  
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# UNDERGRADUATE CANDIDATES



TEXAS TECH UNIVERSITY  
Rawls College of Business

## BACHELOR OF BUSINESS ADMINISTRATION

### ACCOUNTING

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*2nd Major: Finance*  
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Kelsey Nicole Cook  
Katie Jo Crump  
Collin Zachary Denson  
Alexis Haley Dyndul<sup>3</sup>  
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*2nd Major: Management Information Systems*  
Brice Patrick Freedle  
*2nd Major: Finance*  
Samantha Jane Hale  
Ty James Harpenau<sup>3</sup>  
Natalie Paige Hawley  
Joshua Keith Heingartner<sup>3</sup>  
Justin Lee Henderson<sup>3</sup>  
Justin Scott Hull  
Filiberto Jaquez  
Carly J. Klatt<sup>2</sup>  
Hien Thanh Ky Le  
*2nd Major: Information Technology*  
Christopher Aaron Fisher  
*2nd Major: Finance*  
Raymond Leon  
*2nd Major: Finance*  
Josiah D. Light<sup>2</sup>  
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*2nd Major: Finance*  
William Connor Lynch<sup>2</sup>  
Layton Charles Lyons<sup>3</sup>  
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Patricia Alexandria Martinez  
Daniel Andres Mendez  
Tessa Sheridan Angela Monk  
Tammi D'Mea Murillo  
Katherine Brooke Neystel  
Evan Richard Nielsen<sup>3</sup>  
Shelby Danette Orr<sup>3</sup>  
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Xijie Qin<sup>1</sup>  
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Karlee Arlene Roach<sup>1</sup>  
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### ENERGY COMMERCE

Edward Carter Daniels, Jr.  
Shane Preston Henderson  
Paul Anthony Venincasa

Estevan Riley Lopez  
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Karla Martinez  
Keyton James McMillion  
Daniel Joseph Mendoza<sup>2</sup>  
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Stephen Kangethe Murihia  
Katherine Jean Newton  
Muhammad Saleh Kida Nur<sup>1</sup>  
Rosie Padilla<sup>3</sup>  
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Paul Xavier Perez<sup>2</sup>  
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Brianna Michelle Perry<sup>2</sup>  
Benjamin Julio Pesina<sup>3</sup>  
Logan Chase Pierce<sup>2</sup>  
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Lauren Madison Record<sup>3</sup>  
Alec Xavier Reyes  
Kristen Renee Riffe  
Marissa Elaine Rojo  
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Preston Scott Scaff  
Brent Nicholas Silvas  
Pedro A Silvestre-Luevano  
Paige Nicole Smith  
Kelsie Lee Tackitt<sup>1,4</sup>  
Haley Gayle Thomack  
Gabrielle Burchett Toombs<sup>1</sup>  
Taylor Renee Trevino<sup>3</sup>  
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Ashley Nichole Valderaz  
Ryan Dwight Vereen  
Emily Mae Webb  
Madison Noel White  
Alana Maria Wilcher  
Dustyn Marie Willard<sup>3</sup>  
Barbara Nichole Williams  
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### MATHEMATICS

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Michael Maytolon Hand  
Juan Jose Hernandez  
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Austin Taylor McMillon  
Charles Henry Mueller  
Colton Wayne Sager-Wallish  
Matthew David Shaffer  
Mitchell Daniel Steiner  
Joseph Dudgeon Walker  
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Justin Laurence Winnett  
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### MICROBIOLOGY

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Kristian Don Fater  
Houston Joseph Fralick<sup>3,4</sup>  
Elliot Michael Hughes<sup>3</sup>  
Leonardo Valdez Lopez  
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Connor Bennett Grandorf  
Michael Ray Henry  
Ian Raymond Hughes  
Brett Michael Mackelfresh  
Karen Esther Navarro<sup>3</sup>  
Jeniffer Avigail Puac  
Deidre Denise Reyes  
Bryan Scott Sheffield  
Brittany Rose Woods

### SPORT MANAGEMENT

Isaac Anthony Aguilar  
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Sasha Chanel Campos  
Stephen Michael Carrell  
Seth Anthony Chatman  
Sally McKenna Delgado<sup>3</sup>  
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Preston Thomas Earls  
Lance Cameron Fisher  
Hunter Tyler Foght  
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Austen Blaine Griggs  
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Jacob Tyler Tucker  
Luke Tyler Van Getson  
Shea Alexander Whatley

### ZOOLOGY

Teresa Nicole Burns<sup>3</sup>  
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## BACHELOR OF SCIENCE IN INTERNATIONAL ECONOMICS

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Marcus Anthony Hernandez  
Tochukwu Iheanyichukwu Imoh  
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Aura María Mancías  
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<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

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Korotoumou Sakina Coulibaly  
*2nd Major: Energy Commerce*  
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Joseph G. Danielson  
Chase Andrew Davis  
Samuel W. Davis  
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Xavier Noel Gonzales  
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Richard Dawson Jones  
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Alexander Brentley King  
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Kendrick Bryant Logan  
Joseph Anthony McCardel, Jr.  
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Trevor Joseph Newell  
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## GENERAL BUSINESS

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*2nd Degree: Agricultural & Applied Economics*  
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*2nd Degree: Agricultural & Applied Economics*  
Colton David Head<sup>3</sup>  
Garrett Cade McKinney

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Madeline Blair Brisbois  
Anthony Christian Burton-Cordova  
Robert Clithero IV  
Prabhakar Dahal  
Francisco Dameon Dominguez<sup>1</sup>  
Rommel Alfredo Espinosa  
Yurika Anabel Gallegos<sup>2</sup>  
Isabelle Simone Geoffrion<sup>1</sup>  
John Norbert Girard  
Corey Miles Hasha  
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Simon Hunt  
Young Jin Kim  
Anthony Dave Ty Man  
Ryan James McCartney  
Qinton Ryder Melnick  
Reese Alan Meredith  
Peyton Matthew Nick<sup>2</sup>  
Laban Aswani Obegwe  
Ryan James Oldakowski  
Marcos Ontiveros  
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Joshua David Putman  
Jansen Robert Russell  
Rachel Tiffany Schramm  
Kyle Alexander Sowatsky  
Gregory Armani Ter Haar  
Aaron Teran Hernandez  
Andrew Carter Thornton<sup>2</sup>  
William O. Uuzebor  
Pedro Luis Vaquera  
Kira Anne Wilson  
Ashley Lynn Wright

## MANAGEMENT

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Lindsey Leigh Baker  
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Garrett Richard Blevins  
Madeline Grace Campbell  
Bryce Allen Capers

William Taylor Chapman  
Parker Ryan Christian<sup>2</sup>  
Logan Watts Cornwell  
Charles James De Armon  
Miranda Rose DeLeon  
Jordan Lawrence Edgar<sup>3</sup>  
Ashlynn Leigh Edwards  
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Ian Kylar Ferguson  
Christopher Jared Fuentes  
Julio Cesar Garcia II  
Kristopher Blake Grantham  
Anthony Reese Gregory<sup>1</sup>  
April Kasandra Guerrero<sup>3</sup>  
Drake Stiles Hagman  
Alana Brooke Hamilton  
Alexander Reed Hancock  
Kyle Matthew Henke<sup>3</sup>  
Trey Herrera  
M'Lin Blayre Hill  
Courtland Blade Hosch<sup>2</sup>  
Bryce Miller Hoskins  
*2nd Major: Marketing*  
Beau Douglas Howard  
Tiffany Shayne Jesko  
Veronica Alyse Jones  
Sydney Ellis Lamb<sup>4</sup>  
Ronald Thomas Lavigne  
Christian Blake Letcher  
Ross Colton Liles  
Lazarath Tymothy Clarence Lopez  
Katherine Nyanchama Mamwacha  
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*2nd Major: Marketing*  
Jacob Christopher Mayfield<sup>2</sup>  
Chase Alfred McDougall  
Donovan Riley McMullan  
Hannah Rose Merritt  
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*2nd Major: Marketing*  
Carlos Jeronimo Noriega  
Colin Lantz Osborne  
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Christian Paul Parker  
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Cassidy Wyatt Patterson<sup>2</sup>  
*2nd Major: Marketing*  
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Christopher Ryan Ramos  
Lily Blaine Reagan  
Andy Lee Rogers  
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Maggie Caroline Sather<sup>2,4</sup>  
Kyle Brandon Seyffert  
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Madison Ann Nicole Simms<sup>1</sup>  
Gabriela Soares Salviatti  
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*2nd Major: Marketing*  
Donald Thomas Sullivan III  
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Byron Todd<sup>1</sup>  
Jax Hayden Welch  
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Ashley Mae Wollaston  
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Hunter Scott Wynne<sup>1</sup>  
Courtney Victoria Zizmont<sup>2</sup>

## MANAGEMENT INFORMATION SYSTEMS

Trey Albus<sup>2</sup>  
Derek Eugene Cook  
Tyler Dale Harmon  
Mark Mayher Harshbarger  
Inhaeng Heo  
Sarah Renee Hovland  
Andrew R. McCarthy  
Kyle O'Donnell  
Melvin Andrew Schoech  
Blake Silva  
Nicholas Donald Vanderlaan

## MARKETING

Milagros Antonella Aguilar Ardiles  
Samalie Ngamita Apira  
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Martin M. Baltz  
Coleman Charles Bates<sup>3</sup>  
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Colton W. Bowman  
Veronica Caitlyn Breikreutz<sup>2</sup>  
Ashlyn Taylor Brown  
*2nd Degree: Dance*  
Amy Elizabeth Bucko  
*2nd Major: Management*  
Catherine Marie Christian  
Henry Conner Clay  
*2nd Major: Management*  
Weston Quince Cogburn  
Madison Alisa Craven  
Blake Daniel Dailey  
Jessica Toto Doan  
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Sydney Elizabeth Dumas<sup>2</sup>  
Madeline Ruth Godinich<sup>3</sup>  
*2nd Major: Management*  
Sophia Godinich<sup>2</sup>  
*2nd Major: Management*  
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Kailey Ann Honolka  
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Sarah Jane Licare  
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*2nd Degree: Political Science*  
Kimberly Michelle Logan  
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Emily Elizabeth Victoria Rose Massey<sup>3,4</sup>  
Morgan McKenzie Massey  
*2nd Major: Management*

Kaylyn Brooke McKinley  
Kaitlyn E. Naylor<sup>2</sup>  
Clay Alan Northcutt  
Ashley Renae Ortega  
*2nd Major: Management*  
Florencio Ortiz  
Nital Nikunj Patel  
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Jake Aubrey Patterson  
Evan Michael Quintana  
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Abigail Nicole Rains  
Caden Ross Sandoval  
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Hannah Grace Sharp  
Elizabeth Amber Sheridan  
Kunal Kiran Singh  
Kurt David Skillings  
Clayton Ronald Smith  
*2nd Major: Management*  
Kiersten Taylor Smith  
Trysten Taylor Soderquist<sup>3</sup>  
Taha Enes Talu  
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Breanna Lauryn Wooley  
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## SUPPLY CHAIN MANAGEMENT

Ayman Farid Abdelhadi  
Brett Hayward Clark  
Ryan Andrew Phelps  
Ryan William Schleder  
Alexander Drake Woerner



TEXAS TECH UNIVERSITY  
College of Education

## BACHELOR OF SCIENCE

### MULTIDISCIPLINARY STUDIES

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Julissa De Jesus Guzman  
Megan La Cour<sup>2</sup>  
Rebeca Maria Loera  
Fatima Maria Martinez<sup>1</sup>  
Erika Martinez Sanchez  
Erica D. Mayo<sup>1</sup>  
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Graciela C. Nuñez  
Ana K. Ramirez  
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TEXAS TECH UNIVERSITY  
Edward E. Whitacre Jr.  
College of Engineering

## BACHELOR OF SCIENCE

### CHEMICAL ENGINEERING

Luke Storey Sheppard

### CIVIL ENGINEERING

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Karch A. Bickham<sup>1</sup>  
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Mohamed A. Bukhamsin  
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Jarett M. Church  
*2nd Degree: Architecture*  
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Laura E. Dunnican<sup>4</sup>  
Hunter J. Elias<sup>4</sup>  
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James C. Farmer  
Craig A. Fite  
Tia Debra Fortier<sup>2</sup>  
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Collin M. Moody  
William T. Nichols  
Joseph T. Opoku  
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Gerardo C. Ortiz  
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Andres F. Roa  
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Jon G. Roebelen  
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### COMPUTER ENGINEERING

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Celina C. Luckevich<sup>2</sup>  
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### COMPUTER SCIENCE

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Sinan Fathulla  
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Liam A. Newton  
Michael A. Odeh  
Michael D. Opoku  
Chloe O. Osgood  
Archana Pandey  
Taylor M. Patterson  
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Sergio Ponce  
Logan D. Powers  
Ryan Alexander Pratt  
Todd W. Robinson  
Alexander Mekonen Tesfazgi  
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### CONSTRUCTION ENGINEERING

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

## BACHELOR OF ARTS

### ART

Tiffani Ryann Finkbone

### DANCE

Ashlyn Taylor Brown  
*2nd Degree: Marketing*

## INTERDISCIPLINARY ARTS STUDIES

Aaron Christopher Ellis  
Kristen Alexandra Mitchell

### MUSIC

Madison G. Kennell<sup>2</sup>  
Shannon Taree Koonce

### THEATRE ARTS

Sara Elizabeth Hunter<sup>1</sup>  
Diana Carolina Lee  
Troy Evan McKinney  
Kenney Fitzgerald Morris, Jr.  
Christian Samuel Peck  
Taylor McKenzie Sines<sup>1</sup>  
*2nd Degree: English*

## BACHELOR OF FINE ARTS

### ART

Alejandra Marie Aguirre  
Chandler Wayne Campbell<sup>2</sup>  
Sarah Elizabeth Lewellen  
Lauren E. Liedtka  
Clinton Richard McDuff  
Ann Louise Sikes<sup>1</sup>

### THEATRE ARTS

Madison Layne Bryan<sup>3</sup>  
Taralynn Tatiana Rachell Francis<sup>3</sup>  
*2nd Degree: Kinesiology*  
Nathan Lovelle Fuentes  
Zachary Tyler Haile  
Madelyn Tye Robertson<sup>3</sup>

## BACHELOR OF MUSIC

Aaron David Amaya  
Justin Neil Anderson<sup>2</sup>  
Lily Rae Ann Arnett<sup>3</sup>  
Amy Eris Aycock<sup>1</sup>  
Bonnie Bleau Bearden<sup>2</sup>  
Jessica Aryn Calvit<sup>2</sup>  
Austin DeMoss<sup>3</sup>  
Adam Andrew Evans<sup>3</sup>  
Natalie Anne Galindo  
Jarrett Nolan Hatcher  
Benjamin Robert Horton  
Gil Edward Jarvis<sup>2</sup>  
Tristan Eliot Keller<sup>1</sup>  
Madeline Claire Kerkemeyer<sup>2</sup>  
Alexander Scott Kolb<sup>3</sup>  
Kameryn Reese Mattingly<sup>2</sup>  
Karisma Lorraine Mendoza<sup>3</sup>  
Gillian Noelani Quiggle<sup>2</sup>  
Chandler Leigh Renshaw  
Isaiah Stephen Rodriguez<sup>3</sup>  
Tyler Ricky Serrato<sup>3</sup>  
Elisa Nicole Shiller  
Morgan Elizabeth Smith<sup>2</sup>  
Nicholas Ryan Tharp  
Kathryn Elizabeth Thompson<sup>3</sup>  
Rachel Lynn Tilley  
Lukas Benjamin Wasserman<sup>2</sup>  
Kyle William Worley<sup>3</sup>  
William Henrik Zetterstrom

<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

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## 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 | Ballroom, Student Union Building

J.T. & Margaret Talkington College of Visual & Performing Arts | Theatre Arts Foyer

University Studies and Wind Energy | Matador Room, Student Union Building

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## CANDIDATES FOR MILITARY COMMISSIONS

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

Douglas Guberman

# 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.



Marvin Cepica, former dean of the college, developed the design with approval and input from the College Marketing Committee. The background color, maize, was established by the Intercollegiate Code to represent the agricultural disciplines. 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.

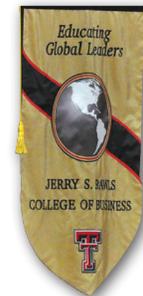


The blue background color of the **College of Education** banner reflects the light blue color designated for education by the Intercollegiate Code and is also seen in the velvet border of education master’s and doctoral hoods and doctoral gowns. The upper area of the banner carries a school building 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.



**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.

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

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

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

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

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

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

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

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

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

## COLORS REPRESENTING FIELDS OF STUDY

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

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

## HONOR CORDS / MEDALLION

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

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



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

## TEXAS TECH COMMENCEMENT ANNOUNCEMENTS

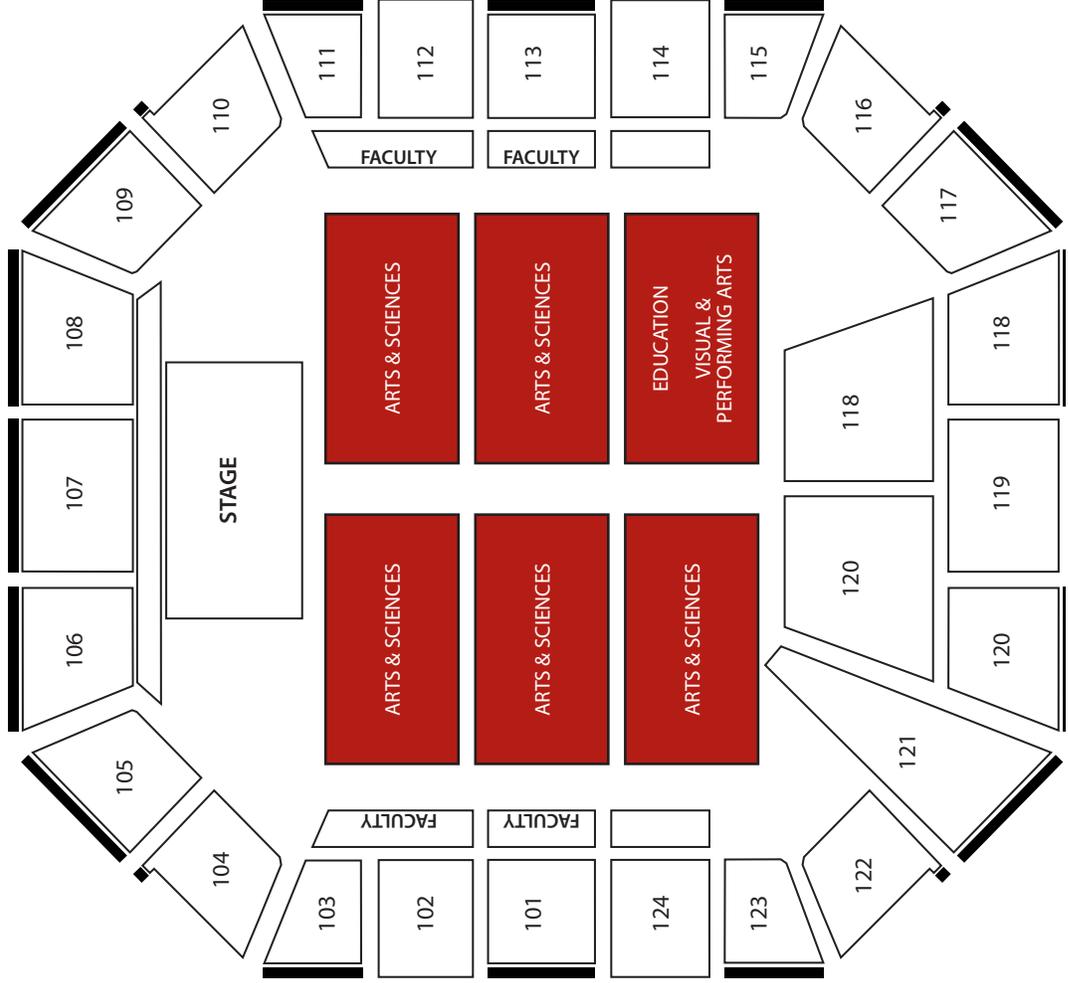
### GRADUATE PHOTOGRAPHS

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

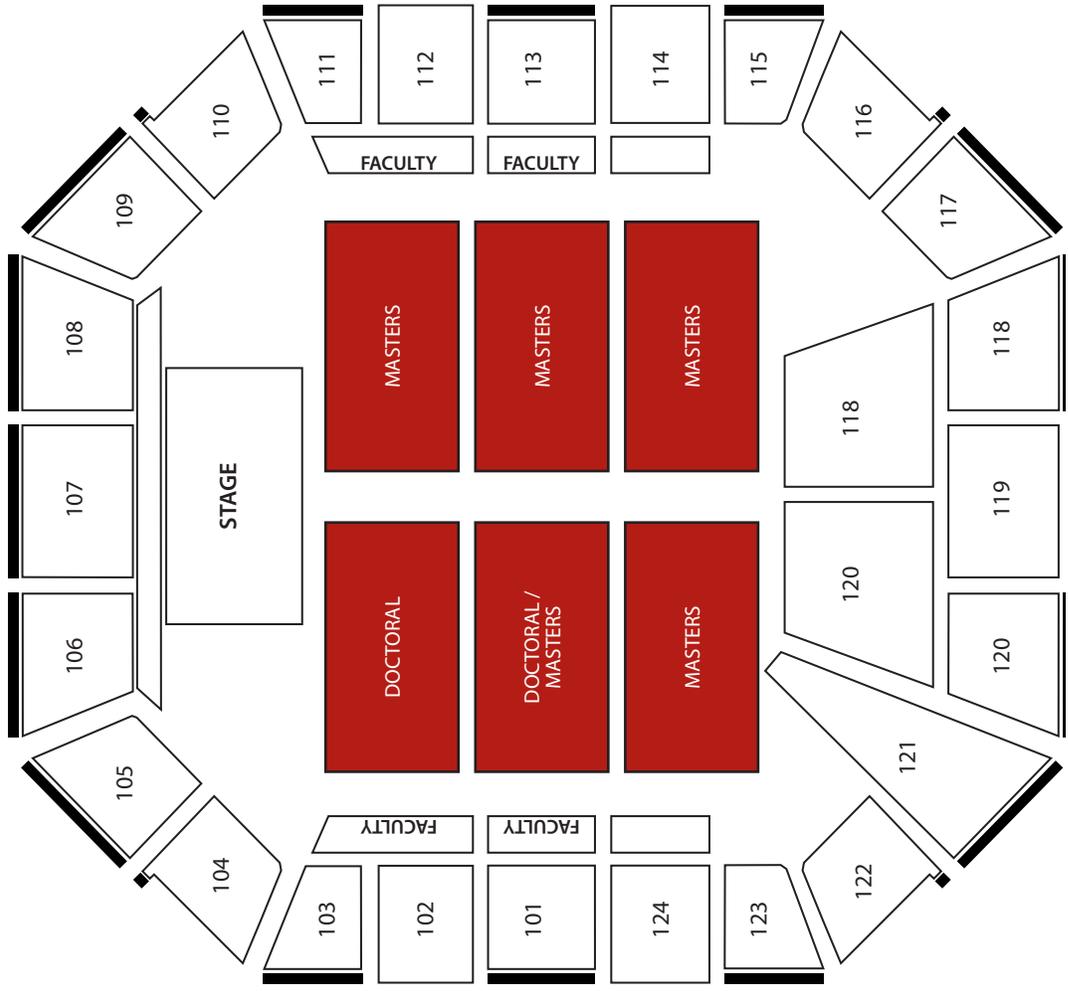
### COMMENCEMENT DVD

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

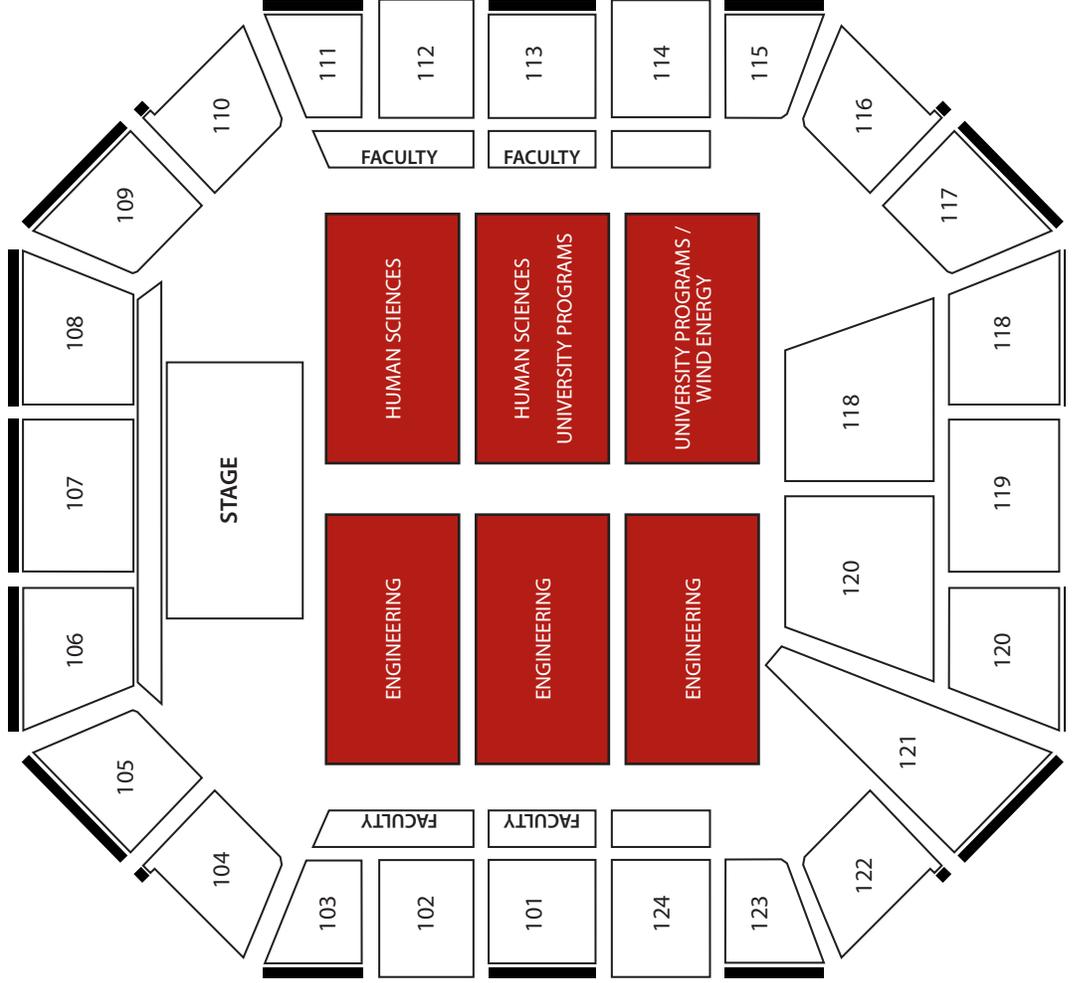
**FRIDAY, DECEMBER 13, 2:30 p.m.**



**FRIDAY, DECEMBER 13, 7:30 p.m.**

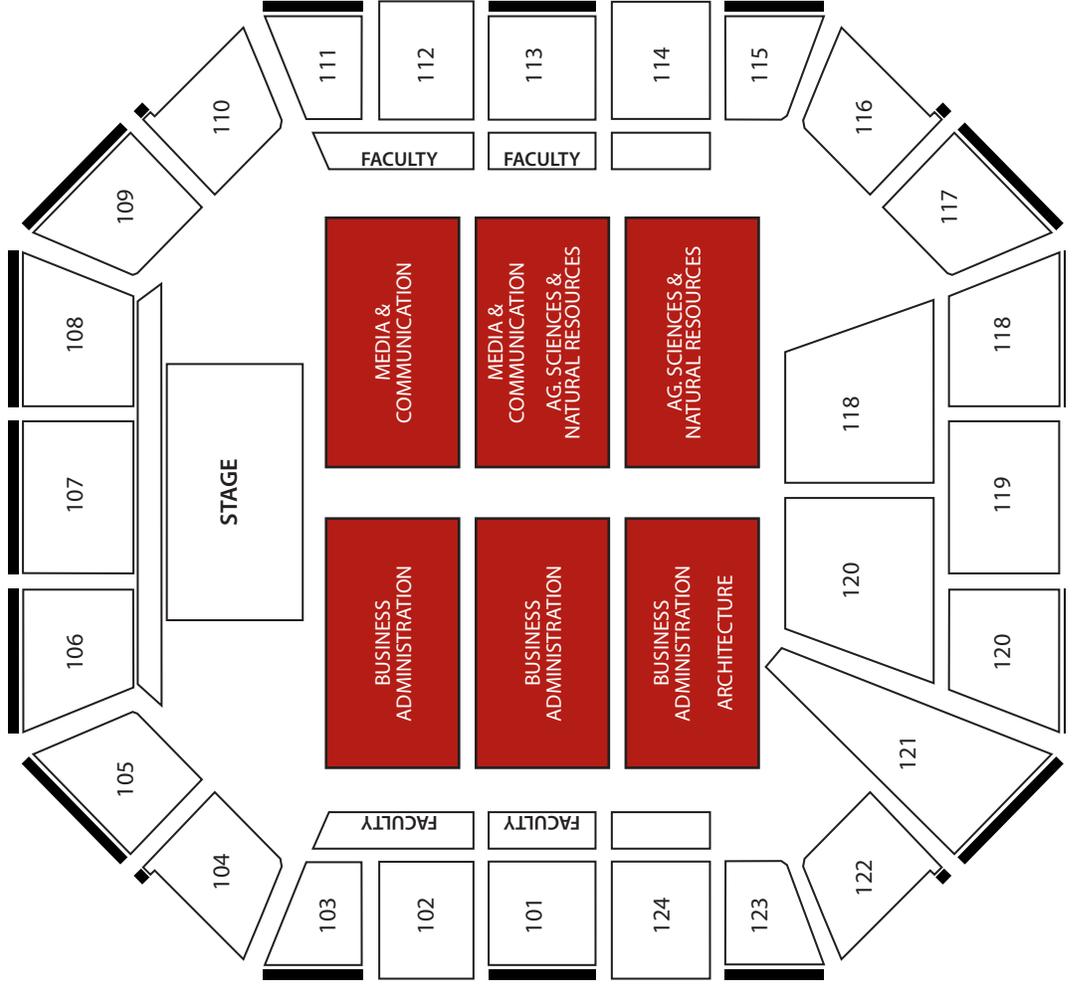


**SATURDAY, DECEMBER 14, 9:00 a.m.**

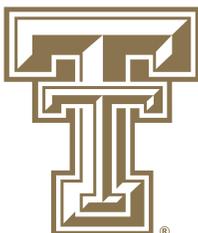


denoted by 

**SATURDAY, DECEMBER 14, 1:30 p.m.**



denoted by 



# TEXAS TECH UNIVERSITY®

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

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

*MATADORS*

MUSIC BY  
HARRY LEMAIRE  
BANDMASTER  
TEXAS TECH COLLEGE

Voice  
Fight Mat-a-dors for Tech. Songs of love well,  
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