

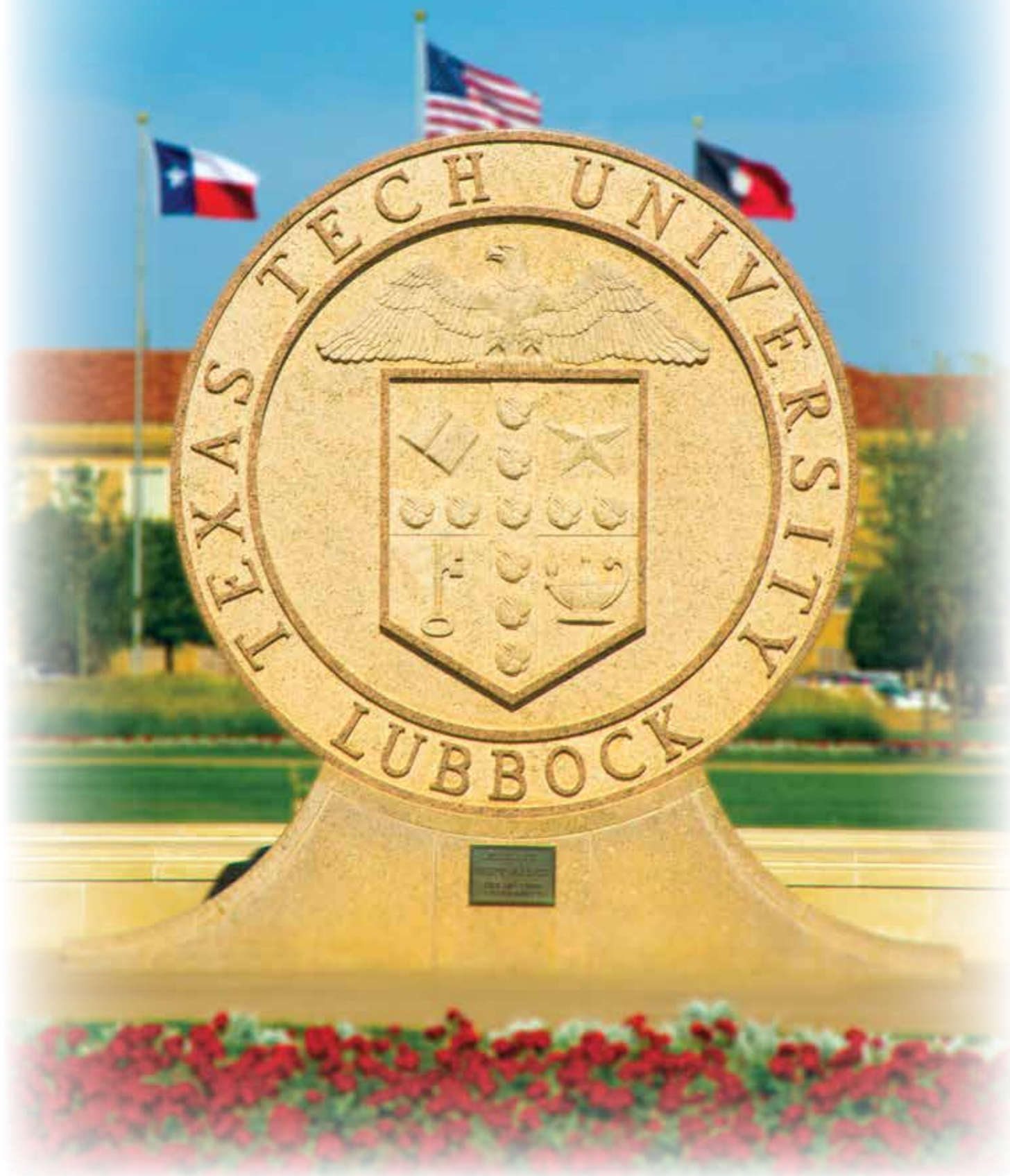


TEXAS TECH UNIVERSITY®



SUMMER 2016 COMMENCEMENT

August 13 | Lubbock, Texas





TEXAS TECH  

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UNIVERSITY®

# COMMENCEMENT SUMMER 2016

Saturday, August 13, 2016  
UNITED SUPERMARKETS ARENA

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

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## ***our mission***

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

# TEXAS TECH UNIVERSITY ADMINISTRATION

---

LAWRENCE E. SCHOVANEC, Ph.D.

*President;  
Professor of Mathematics and Statistics*

MICHAEL L. GALYEAN, Ph.D.

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

NOEL SLOAN, J.D., CPA

*Vice President for Administration and Finance;  
Chief Financial Officer*

GUY LONERAGAN, Ph.D.

*Interim Vice President for Research;  
Professor of Animal and Food Sciences*

JUAN S. MUÑOZ, Ph.D.

*Senior Vice President for Institutional  
Diversity, Equity, and Community Engagement;  
Vice Provost for Undergraduate  
Education and Student Affairs;  
Professor of Curriculum and Instruction*

## TEXAS TECH UNIVERSITY SYSTEM CHANCELLOR / BOARD OF REGENTS

---

ROBERT DUNCAN, J.D.

*Chancellor,  
Texas Tech University System  
Professor of Law*

MR. LARRY K. ANDERS

*Dallas, Texas*

MR. CHRISTOPHER M. HUCKABEE

*Fort Worth, Texas*

MR. JOHN ESPARZA

*Austin, Texas*

MR. TIM LANCASTER

*Abilene, Texas*

MR. MICKEY L. LONG

*Chairman  
Midland, Texas*

MR. L. FREDERICK "RICK" FRANCIS

*El Paso, Texas*

MR. JOHN D. STEINMETZ

*Lubbock, Texas*

MRS. DEBBIE MONTFORD

*Vice Chairman  
San Antonio, Texas*

MR. RONNIE HAMMONDS

*Houston, Texas*

MR. JEREMY STEWART

*Arlington, Texas*

## 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 and Sciences;  
Professor of Mathematics*

LINDA C. HOOVER, Ph.D.

*Dean, College of Human Sciences;  
Professor of Restaurant, Hotel and  
Institutional Management*

DARBY DICKERSON, J.D.

*Dean, School of Law;  
W. Frank Newton Professor of Law*

PAUL R. GOEBEL, Ph.D.  
*Interim Dean, Jerry S. Rawls College of Business;  
Professor of Business Administration*

DAVID D. PERLMUTTER, Ph.D.

*Dean, College of Media and Communication;  
Professor of Journalism and  
Electronic Media/Public Relations*

STEVE FRAZE, Ph.D.

*Interim Dean, College of Agricultural Sciences  
and Natural Resources; Chair,  
Agricultural Education and Communications*

SCOTT RIDLEY, Ph.D.

*Dean, College of Education;  
Professor of Education*

ANDREW W. MARTIN, M.F.A.

*Interim Dean, College of Visual and  
Performing Arts; Professor of Art*

JIM WILLIAMSON, M.Arch.

*Dean and Professor,  
College of Architecture*

AL SACCO, JR., Ph.D.

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

BELLA KARR GERLICH, Ph.D.

*Professor and Dean of Libraries*

MICHAEL SAN FRANCISCO, Ph.D.

*Dean, Honors College;  
Professor of Biology*



## ABOUT TEXAS TECH UNIVERSITY

**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 36,000 students enrolled in its 11 colleges: Agricultural Sciences and Natural Resources, Architecture, Arts and Sciences, Jerry S. Rawls College of Business, Education, Edward E. Whitacre Jr. College of Engineering, Honors College, Human Sciences, Media and Communication, Visual and 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

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**Saturday, August 13, 2016**

**9:00 a.m.**

Presiding	Dr. Lawrence Schovanec <i>President, Texas Tech University</i>
Processional*	Texas Tech Commencement Band <i>Dr. Sarah McKoin, Conductor</i>
National Anthem	Ms. Elizabeth Marie Hott <i>Graduating with a Bachelor of Music</i>
Welcoming Remarks	Mr. Christopher M. Huckabee <i>Board of Regents, Texas Tech University System</i>
Chancellor's Remarks	Mr. Robert Duncan <i>Chancellor, Texas Tech University System</i>
Introduction of Commencement Speaker	Dr. Lawrence Schovanec
Commencement Address	Mr. Andres Alcantar <i>Chairman and Commissioner Representing the Public of the Texas Workforce Commission (TWC)</i>
Recognition of Peggy Flores <i>Commencement Coordinator Emerita</i>	Dr. Lawrence Schovanec
Conferring of Degrees	Dr. Lawrence Schovanec Dr. Michael Galyean <i>Interim Provost and Senior Vice President</i>
Presentation of Doctoral and Master's Degree Candidates	Dr. Mark A. Sheridan <i>Vice Provost for Graduate and Postdoctoral Affairs; Dean, Graduate School</i>
Presentation of Bachelor's Degree Candidates	Dr. Juan S. Muñoz <i>(presenting University Studies and Wind Energy degrees) Senior Vice President for Institutional Diversity, Equity, and Community Engagement; Vice Provost for Undergraduate Education and Student Affairs, Professor of Curriculum and Instruction</i> Dr. Paul R. Goebel <i>Interim Dean, Jerry S. Rawls College of Business</i> Dr. Al Sacco, Jr. <i>Dean, Edward E. Whitacre Jr. College of Engineering</i> Dr. Linda C. Hoover <i>Dean, College of Human Sciences</i> Professor Andrew W. Martin <i>Interim Dean, College of Visual and Performing Arts</i>
Recognition of Outstanding Students Class of 2016	Dr. Michael Galyean
Charge to the Graduates	Dr. Lawrence Schovanec
Alma Mater <i>(Words on Back Cover)</i>	Ms. Elizabeth Marie Hott
Recessional*	Texas Tech Commencement Band

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

# COMMENCEMENT CEREMONY

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**Saturday, August 13, 2016**  
**1:30 p.m.**

Presiding	Dr. Lawrence Schovanec <i>President, Texas Tech University</i>
Processional*	Texas Tech Commencement Band <i>Dr. Sarah McKoin, Conductor</i>
National Anthem	Ms. Elizabeth Marie Hott <i>Graduating with a Bachelor of Music</i>
Welcoming Remarks	Mr. Christopher M. Huckabee <i>Board of Regents, Texas Tech University System</i>
Chancellor's Remarks	Mr. Robert Duncan <i>Chancellor, Texas Tech University System</i>
Introduction of Commencement Speaker	Dr. Lawrence Schovanec
Commencement Address	Mr. Andres Alcantar <i>Chairman and Commissioner Representing the Public of the Texas Workforce Commission (TWC)</i>
Recognition of Peggy Flores <i>Commencement Coordinator Emerita</i>	Dr. Lawrence Schovanec
Conferring of Degrees	Dr. Lawrence Schovanec Dr. Michael Galyean <i>Interim Provost and Senior Vice President</i>
Presentation of Doctoral and Master's Degree Candidates	Dr. Mark A. Sheridan <i>Vice Provost for Graduate and Postdoctoral Affairs; Dean, Graduate School</i>
Presentation of Bachelor's Degree Candidates	Dr. Steve Frazee <i>Interim Dean, College of Agricultural Sciences and Natural Resources</i> Dr. Kevin Stoker <i>Senior Associate Dean, College of Media and Communication</i> Dr. W. Brent Lindquist <i>Dean, College of Arts and Sciences</i> Dr. Saif Haq <i>Associate Dean for Research, College of Architecture</i> Dr. Scott Ridley <i>Dean, College of Education</i>
Recognition of Outstanding Students Class of 2016	Dr. Michael L. Galyean
Charge to the Graduates	Dr. Lawrence Schovanec
Alma Mater <i>(Words on Back Cover)</i>	Ms. Elizabeth Marie Hott
Recessional*	Texas Tech Commencement Band

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



## COMMENCEMENT SPEAKER

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**A**ndres Alcantar is Chairman and Commissioner Representing the Public of the Texas Workforce Commission (TWC). He was appointed for a term to expire on February 1, 2019. He received both a bachelor's degree and a master's degree in public administration from Texas Tech University.

Alcantar previously served as deputy director of the Governor's Budget, Planning, and Policy Division, advising the governor on federal, state, and local issues and providing executive oversight to state boards and commissions. His focus included workforce, economic development, and competitiveness issues. He also served as an adviser to former governor George W. Bush in the Office of Budget and Planning and was a director for the Texas Health and Human Services Commission.

Chairman Alcantar works to implement customized services to meet the needs of Texas' vast array of industries and advance the development of a strong and competitive workforce. He promotes the expansion of industry-based partnerships that center on best practices to help workers and businesses achieve success. He encourages strategies that prepare students for

postsecondary success at work or in the classroom, focusing on science, technology, engineering, and math (STEM) initiatives as a key component of future workforce competitiveness.

The TWC's mission is to promote and support a workforce system that creates value and offers employers, individuals, and communities the opportunity to achieve and sustain economic prosperity. TWC oversees the state's employment, training, child care, adult education, and unemployment insurance programs, and delivers these services through Texas Workforce Solutions, a network of 28 Local Workforce Development Boards.

## SPECIAL TRIBUTE

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**P**eggy Flores is the Commencement Coordinator for Texas Tech University. She began her career with the university in 1977, and was appointed to the coordinator position in 1983. She is retiring this year after 33 years of overseeing Texas Tech commencement ceremonies, during which time many thousands of graduating Red Raiders have crossed the stage under her care.

During her career, she has had the pleasure of meeting world-renowned speakers. Two of her most memorable commencement events include her coordination of Queen Noor of Jordan's visit to the university, and the return of the 1970 graduating class. The position has given her the opportunity to work with ten university presidents, four chancellors, 32 Convocations Committee chairpersons, and several vice presidents and provosts.

She would like to thank Texas Tech University for the opportunity to serve the graduates and their families.



# ACKNOWLEDGEMENTS

## CONVOCATIONS COMMITTEE

Dr. Barent McCool, Chair  
Ms. Laura Heinz, Chair-Elect  
Dr. Alan Barenberg  
Dr. Shane Blum  
Mr. Thad Brock  
Ms. Luciana Cavazos  
Dr. Julie Chang  
Dr. Fanni Coward  
Dr. Mukaddes Darwish  
Prof. Genevieve Durham DeCesaro  
Ms. Amiee Dixon  
Ms. Peggy Flores  
Dr. Kristi Gaines  
Dr. Courtney Gibson  
Dr. Roxie Godfrey  
Dr. Matt Hart  
Dr. Karlos Hill  
Dr. Catherine Jai  
Dr. David Klein  
Dr. Katie Langford  
Dr. Jaime Malaga  
Dr. Jonathan Marks  
Ms. Sheon Montgomery  
Dr. Mark Moore  
Dr. Mary Murimi  
Dr. Diego Pascual  
Dr. Comfort Pratt  
Dr. Anne Prouty  
Mr. Tom Rohrig  
Prof. Matthew Schlieff  
Ms. Carrye Syma  
Mr. Jake Syma  
Dr. Marcus Tanner  
Dr. Susan Tomlinson  
Prof. Seth Warren-Crow  
Ms. Lynn Whitfield  
Ms. Heidi Winkler  
Dr. Aliza Wong  
Mr. Le Yang  
Dr. Amani Zaier

## COLLEGE READERS

*Agricultural Sciences and Natural Resources* –  
Dr. David Weindorf  
*Architecture* – Professor Michael Martin  
*Arts and Sciences* – Dr. David Roach  
*Business* – Mr. Derrick Ginter  
*Education* – Dr. Douglas Hamman  
*Engineering* – Mr. Derrick Ginter  
*Graduate School* –  
9:00 a.m. – Dr. Audra Morse  
1:30 p.m. – Dr. Robert Ricketts  
*Human Sciences* – Dr. Bill Gustafson  
*Media and Communication* – Dr. Todd Chambers  
*University Programs* – Dr. Marcus Tanner  
*Visual and Performing Arts* –  
Dr. Quinn Patrick Ankrum  
*Wind Energy* – Dr. Marcus Tanner

## ADMINISTRATIVE REPRESENTATIVES

*Agricultural Sciences and Natural Resources* –  
Ms. Savannah Chambers  
*Architecture* – Ms. Anna Martinez-Lopez  
*Arts and Sciences* – Ms. Kim Mills  
*Business* – Ms. Geleah Sharp  
*Education* – Ms. Karen Noles  
*Engineering* – Ms. Tonette Rittenberry  
*Graduate School* – Ms. Vanessa Bara  
*Honors College* – Ms. Cheyenne Belew  
*Human Sciences* – Mr. Andrew Vanderpool  
*Media and Communication* –  
Ms. Julia Heard Witt  
*University Studies* – Ms. Amy Peterman  
and Ms. Sarah Schwintz  
*Visual and Performing Arts* –  
Ms. Kathy Nordstrom  
*Wind Energy* – Ms. Kacey Young

## STUDENT BANNER BEARERS

*Agricultural Sciences and Natural Resources* –  
Ms. Jenna Judith Hay  
*Architecture* – Ms. Karla V. Perez  
*Arts and Sciences* –  
Ms. Sarah Elizabeth Dickerson  
*Business* – Mr. Daniel Martinez  
*Education* – Ms. Sarahie Otila Garza  
*Engineering* – Ms. Farida Elvire Yeye  
*Graduate School* –  
9:00 a.m. – Mr. Adrian Darnell Barnes  
1:30 p.m. – Mr. Nathian Shae Rodriguez  
*Human Sciences* – Ms. Rachel Louise Ruhman  
*Honors College*  
9:00 a.m. – Ms. Brooke McCall Downing  
1:30 p.m. – Ms. Alexandria Jane Fletcher  
*Media and Communication* –  
Mr. Matthew Scott Sirgo  
*University Programs* –  
Ms. Crista Pearl Birney  
*Visual and Performing Arts* –  
Ms. Madeline Grace Joiner

## FACULTY BANNER BEARERS

9:00 a.m. – Akbar Siami Namin, Ph.D.  
*Associate Professor of Computer Science,*  
*Edward E. Whitacre Jr. College of Engineering*  
1:30 p.m. – Doug Hamman, Ph.D.  
*Chairperson and Professor of Teacher Education,*  
*College of Education*

## LIBRARY BANNER BEARERS

9:00 a.m. – Ms. Shelley Barba  
1:30 p.m. – Mr. Rob King

## 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.

## PROGRAM

This program was produced by the Office of the Provost in cooperation with the Convocation Committee and the Office of Official Publications at Texas Tech University, Garrett McKinnon, Director and Cheryl Hedlund, Senior Editor.

## INTERNATIONAL FLAGS

From earliest times flags have served as symbols of ideals, aspirations, and loyalties, representing in modern times the national states and involving sentiments of pride and patriotism. Every flag has its own tale of national meaning to its symbols and colors.

Students from every state in the nation have attended Texas Tech, and the summer 2016 enrollment includes international students from 105 countries. It is with pride that the university displays flags from around the world to represent the many countries that comprise the Texas Tech student body.



# 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

- 9:00 A.M. .... ELIZABETH A. SHARP, PH.D.  
*Associate Professor of Human Development and Family Studies  
College of Human Sciences*
- 1:30 P.M. .... CYNTHIA B. MCKENNEY, PH.D.  
*Associate Chair, Department of Plant and Soil Science; Rockwell Endowed Professor of Horticulture  
College of Agricultural Sciences and Natural Resources*



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

# RECEPTION

## INDIVIDUAL COLLEGE RECEPTION

*Immediately After Commencement Ceremony*

College of Architecture | Architecture Gallery

# GRADUATION HONORS

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

Katelyn Nichole Alegria  
Heather Nicole Anthony  
Laura Diane Balo  
Casey Allen Brito  
Cynthia Capetillo  
Margaret Elise Cuevas  
Jessica Daly  
Maria de Jesus Eguiluz

Lauren Epperly  
Marjorie Cubillos Garay  
Macarena J. Garcia  
Sarahie Otila Garza  
Haley Ann Halvas  
Bobbie Jean Jackson  
Clare Nicole Jakubowski  
Kailey Marie Kotara

Andrea Anne M. Malaluan  
Susy Medina  
Chelsea Elizabeth Nettles  
VyVy T. Nguyen  
Philip Daniel Olivetti  
Karina Palacio  
Norma Annie Pardee  
Adrienne Kristina Durieux Pineda

Katherine Gale Rollins  
Rachel Louise Ruhman  
Kellie Anne Sanders  
Ana Isabel Segura  
Megan Christine Seymour  
Elizabeth Dianne Shirey  
Amanda Carolann Sparks  
Emily Ann Sturiale

Devinne Nicole Tribble  
Carolina Ugalde  
Morgan Krystyne Vaughn  
Maria Villagomez  
Cristy Lynn Wilke  
Michelle Elizabeth Wolther



# 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

### EDUCATIONAL LEADERSHIP

Sami Ghazzai Alsulami

*Dissertation:* Examination of MOOC Learning Experiences of Online Students and Educational Leaders and Policymakers at Saudi Arabia's King Abdulaziz University  
*Major Professor:* Fernando Valle

Ray Barbosa, Jr.

*Dissertation:* An Exploration of Instructional Technology Integration Culture and School Effectiveness in West Texas School Districts  
*Major Professor:* Joseph Claudet

Sylvia Ann Caballero-Suarez

*Dissertation:* Generational Teacher Cohorts in Texas Public Schools and Their Job-Related Expectations of School Principals  
*Major Professor:* Sylvia Mendez-Morse

Richard Lee Elsasser II

*Dissertation:* Principal Effectiveness in Traditional and Non-traditional Principal Certification Programs  
*Major Professor:* Sylvia Mendez-Morse

Kara Sue Garlitz

*Dissertation:* Steel Lantanas: A Case Study of Women Superintendents Surviving and Thriving in West Texas  
*Major Professor:* Sylvia Mendez-Morse

Matthew Aaron Gutierrez

*Dissertation:* An Investigation of Campus-level Personnel Support Cultures and School Effectiveness in Texas School Districts  
*Major Professor:* Joseph Claudet

## DOCTOR OF MUSICAL ARTS

### MUSIC

Robin Ayax Aldana Centeno

*Dissertation:* Selected Works for Voice, Bassoon and Piano or Harp by Diego Xaraba Y Bruna, Konradin Kreutzer, and Roger Craig Vogel: Context and Analysis  
*Major Professor:* Michael Stoune

Jo-Hsu Hsu

*Dissertation:* Global Conversation: A Meeting between Taiwanese Folk Song and Jazz, on the Model of Nils Landgren's *Swedish Folk Modern*  
*Major Professors:* James T. Decker and Kevin Wass

Sean Michael Kennedy

*Dissertation:* An Approach to Standardizing Pedagogy for Extended Technique on Tuba  
*Major Professor:* Kevin Wass

Adolfo Olave Mendoza

*Dissertation:* National Artist for Music Col. Antonino R. Buenaventura and His Concerto for Bassoon and Orchestra  
*Major Professors:* Richard Meek and Michael Stoune

Hwayoung Noh

*Dissertation:* Style, Culture, and Politics in Piano Waltzes of the Early Twentieth Century: Ravel (1911), Hindemith (1922), and Prokofiev (1940)  
*Major Professor:* William Westney

Jesse Brumage Willis (*In absentia*)

*Dissertation:* The Caribbean Jazz Project: Music Beyond Borders  
*Major Professor:* Lisa Rogers

## DOCTOR OF PHILOSOPHY

### AGRICULTURAL AND APPLIED ECONOMICS

Michael Lynn Roberson (*In absentia*)

*Dissertation:* Price Elasticity for Smartphones in the United States: Results from Three Methodological Approaches  
*Major Professor:* Ryan Williams

Michael Shiroya

*Dissertation:* Fully Endogenous Data Decomposition: An Application to Residential Housing Markets  
*Major Professor:* Michael Farmer

### ANIMAL SCIENCE

Joshua Joel Ison

*Dissertation:* Surveillance of Antimicrobial Resistance and Foodborne Pathogens within Agri-food Production Systems  
*Major Professor:* Guy H. Loneragan

### BIOLOGY

Neelam Mishra

*Dissertation:* Over-expression of Rice Sumo E3 Ligase Gene *OsSIZ1* in Cotton Enhances Both Drought and Heat Tolerance  
*Major Professor:* Hong Zhang

Li Sun

*Dissertation:* *AVP1 PP2A-C5* Co-overexpressing in *Arabidopsis* Increases Tolerance to Salt Stresses  
*Major Professor:* Hong Zhang

### BUSINESS ADMINISTRATION

Tianxi Dong

*Dissertation:* The Effect of Information Asymmetry and Firm Risk on the Market Reaction to Information Technology Announcements  
*Major Professor:* Eric Walden

David Jon Lucas

*Dissertation:* Understanding the Effects of Textual Representational Alignment on User Search and Stopping Behavior  
*Major Professor:* Glenn J. Browne

Seyed Roozmehr Safi

*Dissertation:* Investment Decisions in Acquiring Information Security Measures: An Empirical Investigation  
*Major Professor:* Glenn J. Browne

Eric R. Sisneros

*Dissertation:* The Efficacy of Buying Stocks on Margin  
*Major Professor:* Jeffrey M. Mercer

Jayson Jared Talakai

*Dissertation:* The Impact of Sentiment on Investor Information Gathering and Price Discovery: Evidence from Mergers and Acquisition  
*Major Professor:* Derek Oler

Nga Thu Trinh

*Dissertation:* IPO Price Revisions: The Competitive versus Information Effects  
*Major Professor:* John Cooney

Keith S. Walker

*Dissertation:* CEO Decision Horizon and Corporate Tax Avoidance  
*Major Professor:* Juan Manuel Sanchez

## GRADUATE CANDIDATES

Matthew David Whitledge (*In absentia*)

*Dissertation:* The Cost of Liquidity: Certificate of Deposit Rates before, during, and after the Financial Crisis

*Major Professor:* Drew Winters

### CHEMICAL ENGINEERING

Rutvik Vinayak Godbole

*Dissertation:* Separation of Alcohol-Water Mixtures: Understanding Fundamentals of Pervaporation and Gel Stripping with Polymeric Materials

*Major Professor:* Ronald C. Hedden

Fardin Tayebbeh Khabaz (*In absentia*)

*Dissertation:* Structural, Dynamic, and Viscoelastic Properties of Complex Materials Using Molecular Dynamics Simulations

*Major Professor:* Rajesh Khare

Xiaoguang Peng

*Dissertation:* Microrheology and Macrorheology to Probe Aging of a Colloidal Glass after Volume Fraction Jumps and Shear-Melting Perturbations

*Major Professor:* Gregory B. McKenna

### CHEMISTRY

Bereket Ghebretensae Okbu

*Dissertation:* Deletion Studies of the b Subunits in the Peripheral Stalk of *Escherichia Coli* ATP Synthase

*Major Professor:* Joachim Weber

Sunil Kumar Paladugu (*In absentia*)

*Dissertation:* Slip-Link Polymers via Entropy-driven Ring-opening Olefin MetaTHESIS: Polymerizations of [1]Rotaxanes

*Major Professor:* Michael F. Mayer

Neha Sanjay Phadke

*Dissertation:* New Directions in Pincer Chemistry: 1) Formation of Iridium(III) Allene Complexes via Isomerization of Internal Alkynes, 2) Expanded Substrate Scope, and Progress towards Catalytic and Enantioselective Methodologies

*Major Professor:* Michael Findlater

Donald Anthony Ramirez II

*Dissertation:* Epoxide-driven Sol-gel Methods to Prepare Metal Oxide and Sulfide Materials for Applications in Heterogeneous Photocatalysis

*Major Professor:* Louisa J. Hope-Weeks

### CIVIL ENGINEERING

Yanlai Han (*In absentia*)

*Dissertation:* Iron-Based Materials for Remediation of Chlorinated Ethenes

*Major Professor:* Weile Yan

Rozbeh B. Moghaddam

*Dissertation:* Evaluation of the TXDot Texas Cone Penetration Test and Foundation Design Method Including Correction Factors, Allowable Total Capacity, and Resistance Factors at Serviceability Limit State

*Major Professors:* Priyantha Jayawickrama and William D. Lawson

Jingting Xiao (*In absentia*)

*Dissertation:* Modelling and Simulation of Nonstationary Wind Field for Wind Loading Assessment

*Major Professor:* Delong Zuo

### CLINICAL PSYCHOLOGY

Stephanie Harold Fry (*In absentia*)

*Dissertation:* Reactivity and Compliance in Daily Symptom Assessments of College Women with Symptoms of Comorbid Depression and Bulimia Nervosa

*Major Professor:* James R. Clopton

Chelsea M. Klinkebiel

*Dissertation:* Parent-Child Interaction Therapy: Examining Change in Maternal Depression and Parenting Self-Efficacy

*Major Professor:* Joaquin Borrego

Erin Kathleen Poindexter

*Dissertation:* An Experimental Manipulation of Acquired Capability: A Short-Term Longitudinal Study

*Major Professor:* Kelly C. Cukrowicz

### COMPUTER SCIENCE

Bryant Keith Nelson

*Dissertation:* Automatic Distributed Programming Using SequenceL

*Major Professor:* Nelson Rushton

Cong Pu

*Dissertation:* A Holistic Approach to the Exploitation of Energy Harvesting Motivated Networks: Protocols and Countermeasures to DoS Attacks

*Major Professor:* Sunho Lim

### COUNSELING PSYCHOLOGY

Melanie Olivas Longhurst

*Dissertation:* Examining the Protective Effects of PGI in the Acculturative Stress Process of Mexican Immigrants and U.S. Born Individuals Raised in Mexico Who Later Returned to the U.S.

*Major Professor:* Christine Robitschek

Blakely Elise Low

*Dissertation:* The Impact of the Mindfulness-Acceptance-Commitment Approach on Psychological Functioning in Student-Athletes

*Major Professor:* Steven Richards

Charles Kyle Schindler

*Dissertation:* The Role of Personality Traits, Social Anxiety, Depressive Symptoms, and Other Psychosocial Factors in the Motivation for Social Internet Use

*Major Professors:* Steven Richards and Andrew K. Littlefield

Esther Na Schwartz (*In absentia*)

*Dissertation:* Body Esteem, Partner Body Type, and Risky Sex among Men Who Have Sex with Men: A Terror Management Account

*Major Professor:* Mike C. Parent

Stacy Ellane Shields

*Dissertation:* Exploring the Associations among Shyness, Religiousness, and Satisfaction with Life for Religious Adults

*Major Professor:* Stephen Cook

Danielle Nicole Sirles

*Dissertation:* Self-Esteem, Ethnic Identity, and Personal Growth Initiative in the Black Community

*Major Professor:* Christine Robitschek

### COUNSELOR EDUCATION

Brandon L. Awbrey

*Dissertation:* Technological Deployment Decisions: An Exploration of Ethical Decision Making in Technology Implementation

*Major Professor:* Charles Crews

Ulysses Lee Moore

*Dissertation:* The War that Never Sleeps

*Major Professors:* Charles Crews and

Aretha Marbley

Gerald Wayne Pennie II

*Dissertation:* Examining the Perceptions of Teachers about the Responsibilities of School Counselors: A Mixed Methods Approach

*Major Professor:* Charles Crews

Regan Ann Sarten

*Dissertation:* How Effective Communication Training Can Influence Self-Efficacy and Job Satisfaction for Professional School Counselors

*Major Professor:* Charles Crews

Sarah Elizabeth Skoog

*Dissertation:* Good Grief!: A Study of the Effect of Treating Addiction-Related Grief and Loss on Recovery from Substance Use Disorders

*Major Professor:* Janet Hicks

### CURRICULUM AND INSTRUCTION

Jame Dawn Sanders (*In absentia*)

*Dissertation:* Exploring Teacher Awareness and Implementation of TELPAS Descriptors in Rural Secondary Classrooms: A Qualitative Study

*Major Professors:* Sally McMillan and Peggie Price

Heather O. Dean

*Dissertation:* Exploring Novice Teachers' Perceptions of the Impact of an Induction Program: A Qualitative Case Study

*Major Professor:* Peggie Price

Philena J. Farmer

*Dissertation:* Teacher Preparation Programs and Calculator Pedagogy

*Major Professor:* Shirley M. Matteson

Elizabeth Ann Fleener

*Dissertation:* Examining the Relationship of Teachers' Years of Experience on Student Achievement in Mathematics from 3rd to 5th Grades: A Quantitative Study

*Major Professors:* Connie Anderson and Susan Myers

Courtney C. Gann (*In absentia*)

*Dissertation:* STEM Teaching Strategies, Educational Activities, and the Role of the Parent in Homeschool Families with High School Students  
*Major Professor:* Shirley M. Matteson

Latasha Diane Holt-Bocksnick

*Dissertation:* Teacher and Student Perceptions of Stress-Reduction Strategies on Standardized Tests  
*Major Professor:* Heather Greenhalgh-Spencer

Magdalena Pando

*Dissertation:* Teaching Middle School Science to English Language Learners through Modeling and Argumentation Using a Functional Approach  
*Major Professor:* Zenaída Aguirre-Muñoz

Nhung Thi Tuyet Pham

*Dissertation:* An Investigation into Adapting U.S. Regional Accreditation Standards to Vietnam Accreditation  
*Major Professors:* Margaret Johnson and Barbara Morgan-Fleming

Stephen Wray Reynolds

*Dissertation:* Determining and Exploring Teachers' Perceptions on the Barriers to Teaching Critical Thinking in the Classroom: A Survey Study  
*Major Professor:* Margaret A. Peggie Price

Natalie Banks Welcome

*Dissertation:* Matriculate and Remediate: An Alternative to Math Remediation at a 2-year College  
*Major Professor:* Heather Greenhalgh-Spencer

## EDUCATIONAL PSYCHOLOGY

Stephanie Michelle Barbre

*Dissertation:* Operational Differences and Early Indicators of Emotional and Behavioral Impairment and Social Maladjustment  
*Major Professor:* Tara Stevens

Kenneth James Denton

*Dissertation:* Multilevel Analysis of School Environmental Factors, Teacher Satisfaction, and Academic Performance  
*Major Professor:* Tara Stevens

Avery Danielle Miller

*Dissertation:* The MillerLan-Measure of Online Self-Regulated Learning: Scale Development and Initial Validation  
*Major Professor:* Kamau Oginga Siwatu

B. Rene' Starkey

*Dissertation:* Examining the Relationship between Preservice Teachers' Dispositions and Teaching Performance  
*Major Professors:* Kamau Oginga Siwatu and Hansel Burley

## ELECTRICAL ENGINEERING

Argenis Valentin Bilbao

*Dissertation:* Continuous Switching Reliability of Ultra-high Voltage SiC Mosfets and IGBTs  
*Major Professors:* Stephen B. Bayne and Michael Giesselmann

Tri Cao Doan

*Dissertation:* Thermal Neutron Detector Based on Hexagonal Boron Nitride  
*Major Professors:* Hongxing Jiang and Jingyu Lin

Huseyin Ekinci

*Dissertation:* Processing of GaN and SiC Epitaxial Layers for Opto-Electronic Device Applications  
*Major Professor:* Sergey A. Nikishin

Md Rakib Uddin

*Dissertation:* Epitaxial Growth and Characterization of Hexagonal Boron Nitride Carbon Semiconductor Alloys  
*Major Professors:* Hongxing Jiang and Jingyu Lin

## ENGLISH

Trampas Monroe Smith (*In absentia*)

*Dissertation:* Dancing Deaf  
*Major Professor:* Jill Patterson

## ENVIRONMENTAL TOXICOLOGY

Amanda Marie Cano

*Dissertation:* Determination of Carbon-based Nanomaterial Distribution, Toxicity, and Trophic Transfer in Aquatic Environments  
*Major Professor:* Jaclyn Cañas-Carrell

Daniel E. Dawson

*Dissertation:* Exploring the Effects of Environmental Characteristics and Anthropogenic Activities on Mosquito Populations: An Experimental and Spatially Explicit Model-based Approach  
*Major Professor:* Jaclyn Cañas-Carrell

## EXPERIMENTAL PSYCHOLOGY

Debbie A. Magreehan

*Dissertation:* Presentation of Electronic Glosses: Effects on Student Learning and Monitoring from Text  
*Major Professor:* Michael Serra

## FINE ARTS

Adrian Darnell Barnes

*Dissertation:* Recruitment Strategies Employed by Instrumental Music Ensemble Directors at Minority Serving Institutions to Improve Access to Higher Education by Members of Marginalized Populations  
*Major Professor:* Jacqueline Chryar Henninger

Sherry Randolph Boyd

*Dissertation:* Developing a Cohort Blended Curriculum Model (Face-to-Face and Online) for a Master of Arts of Theatre Degree  
*Major Professors:* Jacqueline Chryar Henninger and Andrew Gibb

Renee Lynne Wilson

*Dissertation:* Not Quite Untangled: A Qualitative Study of the Joys and Challenges Experienced by Selected Band Directors  
*Major Professor:* Susan Brumfield

## GEOSCIENCES

Alyson A. Brink (*In absentia*)

*Dissertation:* An Early Campanian (Late Cretaceous) Mammalian Fauna from the Lower Shale Member of the Aguja Formation in the Big Bend Region of Texas  
*Major Professor:* Thomas M. Lehman

Anthony Eugene Reinhart

*Dissertation:* Effects of Microphysical Parameterizations and Drop Breakup on Supercells and Supercell Cold Pools  
*Major Professor:* Christopher Weiss

## HIGHER EDUCATION— HIGHER EDUCATION RESEARCH

Tonya Marie Pinkerton

*Dissertation:* Federally-funded Research Proposals: Voluntary Components and the Interpretations of Their Effects on Institutional Resources  
*Major Professor:* Stephanie J. Jones

Amanda Lee Veesart

*Dissertation:* Examining the Change in Cultural Awareness of Senior Nursing Students Who Participate in a Semester-long Culturally Based Assignment at a Large Public University  
*Major Professor:* Dave Louis

## HOSPITALITY ADMINISTRATION

Nemer Abdulrahman Alsaab

*Dissertation:* Factors That Affect Guests' Intentions to Make Green Hotel Purchases in the United States  
*Major Professor:* Shane Blum

Chia-Ning Chiu

*Dissertation:* Tourism Expansion and Economic Development in the United States, China, and Japan  
*Major Professor:* Shane Blum

Nicholas Edward Johnston

*Dissertation:* Consumer Motivations and Responses towards State-Level Branded and Sustainable Ag-Related Products  
*Major Professors:* Tun-Min Catherine Jai and Kelly Virginia Phelan

Harold Sang-Kwon Lee

*Dissertation:* The Influence of Electronic Word-of-Mouth (eWOM) on Social Networking Sites (SNSs) on the Purchase Intentions of Generation Y Customers at Luxury Hotels  
*Major Professor:* Jingxue Jessica Yuan

Hye Ryeon Lee

*Dissertation:* Online Service Recovery in the Hospitality Industry: Consumers' Perceptions and Preferences on Social Media  
*Major Professor:* Shane Blum



## GRADUATE CANDIDATES

Ji Hye Min

*Dissertation:* The Impact of Casino Complimentaries: The Use of Gaming and Non-Gaming Promotions

*Major Professor:* Shane Blum

Chompoonut Suttikun

*Dissertation:* Motivations and Marketing Strategies Influencing Customers to Visit Day Spas in the U.S.

*Major Professor:* Jingxue Jessice Yuan

### HUMAN DEVELOPMENT AND FAMILY STUDIES

Rachel Engler Jordan

*Dissertation:* A Longitudinal Study of Sibling Relationship Quality, Well-being, and the Impact of Parental Alcohol Use

*Major Professor:* Judith Fischer

McKenzie Tabor Wilkes

*Dissertation:* Disordered Eating among Collegiate Recovery Program Students

*Major Professor:* Elizabeth Trejos-Castillo

### INTERIOR ENVIRONMENTAL DESIGN

Marwa Ibrahim Abdelmonem

*Dissertation:* Identifying Physical Design of Connectedness-to-Home among Depressed Elderly in Long-term Care Facilities: An Exploratory Study

*Major Professor:* Kristi Gaines

Samaher Abdulrahman Fallatah

*Dissertation:* Examining the Appropriate Level(s) of Value Contrast for Partially Sighted Individuals

*Major Professor:* Kristi Gaines

Duy Quang Pham

*Dissertation:* Examining the Use of Building Information Modeling (BIM) for Interior Design Process in a Professional Setting

*Major Professor:* Kristi Gaines

Shabboo Valipoor

*Dissertation:* An Objective Evaluation of Patient Seating Solutions for the Elderly Population

*Major Professor:* Debajyoti Pati

### LAND USE PLANNING MANAGEMENT AND DESIGN

Girmay Kifle Berhie

*Dissertation:* The Effect of Spatial Configuration on Land Use and Transport Mode Choices: Space Syntax Exploration on Gridded and Non-Gridded American Cities

*Major Professor:* Saif Haq

### MARRIAGE AND FAMILY THERAPY

Rola O. Aamar

*Dissertation:* The Patient-Parent-Provider Alliance in Childhood Obesity Treatment

*Major Professor:* Douglas Smith

Joanna Méndez-Pounds

*Dissertation:* Roles and Dynamics in Mixed Legal Status Families: DREAMers' Perspectives

*Major Professor:* Anne Prouty

### MASS COMMUNICATIONS

Nathian Shae Rodriguez

*Dissertation:* The Role of Communication in the Identification of Gay Refugees and Asylees throughout Migration

*Major Professor:* Kenton Wilkinson

Matthew Steven VanDyke (*In absentia*)

*Dissertation:* Understanding Motivations for Water Scarcity Information Seeking and Processing

*Major Professor:* Coy Callison

Shawna R. White (*In absentia*)

*Dissertation:* Unintended Effects of Parental Mediation During Adolescence: An Investigation into the Mediating Role of Psychological Reactance and Moderating Influences of Individual Differences

*Major Professor:* Andy King

### MATHEMATICS

Emine Celik

*Dissertation:* Generalized Forchheimer Flows of Compressible Fluids in Heterogeneous Porous Media

*Major Professor:* Luan Hoang

Ashley Diane Cherry

*Dissertation:* Piecewise Linear Approximation for Nonlinear Programming Problems

*Major Professor:* Victoria Howle

Chandani Deepika Dissanayake

*Dissertation:* Finite Element Simulation of Space/Time Behavior in a Two Species Ecological Stoichiometric Model

*Major Professor:* Kevin Long

Pratheepa Jeganathan

*Dissertation:* Multivariate Extensions of Saddlepoint-Based Bootstrap and An Empirical Saddlepoint Approximation Method for Smoothing Survival Functions Under Right-Censoring

*Major Professor:* Alex Trindade

Ashley Erin Meek

*Dissertation:* Block Preconditioned Implicit Runge-Kutta Methods for the Incompressible Navier-Stokes Equations

*Major Professor:* Victoria Howle

Takafumi Oki (*In absentia*)

*Dissertation:* Human Head Orientation Control Problem under Donders' Constraint

*Major Professor:* Bijoy Ghosh

Thanuja Paragoda

*Dissertation:* Willmore and Generalized Willmore Energies in Space Forms

*Major Professors:* Magdalena Toda and Giorgio Bornia

Chalani C. Prematilake

*Dissertation:* Prediction of Lower Bounds of the Number of Sampling Points for Approximating Shapes of Planar Contours

*Major Professors:* Leif Ellingson and Magdalena Toda

### MECHANICAL ENGINEERING

Turgut Batuhan Baturalp

*Dissertation:* Design and Development of a Systemic Mock Circulation Loop with a Novel Beating Left Ventricle Simulator

*Major Professor:* Atilla Ertaş

Alejandro Emilio Bilbao

*Dissertation:* Modeling the Locomotion of *Caenorhabditis elegans*: Undulatory Propulsion and Maneuverability in Fluids

*Major Professor:* Jerzy Bławdziewicz

Billy Ross Clark

*Dissertation:* Combustion Characterization of Nano-Particle Reactive Materials Suspended in Polymer Binders for Use in Additive Manufacturing

*Major Professor:* Michelle Pantoya

### NUTRITIONAL SCIENCES

Teresia Njoki Mbogori

*Dissertation:* A Nutrition Education Intervention on Maternal and Child Nutrition and Care Practices Among the Turkana People in Kenya

*Major Professor:* Mary Murimi

Suzan Hussin M. Tami

*Dissertation:* Parenting Styles and Family Contributors to the Development of Obesity in Arab Children Aged 6-10 Years Old

*Major Professor:* Debra Reed

### PERSONAL FINANCIAL PLANNING

Brigham Taft Dorman (*In absentia*)

*Dissertation:* Three Essays on Financial Planning for College

*Major Professor:* Michael Finke

Laura Hillary Mattia

*Dissertation:* Three Essays on Gender and Finance

*Major Professor:* Sandra Huston

### PETROLEUM ENGINEERING

TARIQ A. ALI

*Dissertation:* A New Production-decline Model for Fractured Tight and Shale Reservoirs

*Major Professor:* James Sheng

### PLANT AND SOIL SCIENCE

Misha Rose Manuchehri (*In absentia*)

*Dissertation:* Influence of Water Quality on Glyphosate Performance and Evaluation of Enlist™ Weed Control Systems in Texas High Plains Cotton

*Major Professor:* Peter Dotray

## POLITICAL SCIENCE

Melanie Liann Gallagher  
*Dissertation:* Oil and Interstate Behavior: The Role of Resource Location and Dependence on State Interactions  
*Major Professor:* Toby Rider

## SPANISH

Maria Alejandra Cerdas Cisneros (*In absentia*)  
*Dissertation:* Representaciones de Una Cultura Globalizada en la Obra de César Aira: Un Acercamiento a la Temática a Través de la Relación Espacio-Personajes  
*Major Professor:* George Cole

Catherine Cheri Grissom  
*Dissertation:* A Tale of Two Tricksters: Paratextuality and Supplementarity in the Don Juan Master-Servant Relationship  
*Major Professor:* John Beusterien

## SYSTEMS AND ENGINEERING MANAGEMENT

Michael Wesley Bromley  
*Dissertation:* Economic Analysis Model for High Reliability Organizations  
*Major Professor:* Mario Beruvides

## TECHNICAL COMMUNICATION AND RHETORIC

Erin Patsy Gibbs Pumroy  
*Dissertation:* The Alpha-Zulu on Provider-Patient Communication in Military Medicine: An Inside Look at Provider-Patient Communication in a Family Medicine Clinic on a Military Installation  
*Major Professor:* Amy Koerber

Susan T. Rauch  
*Dissertation:* Rhetoric and Economics of User Attention in the Documentation of EHR-generated Clinical Narratives  
*Major Professor:* Amy Koerber

Joseph Edward Williams (*In absentia*)  
*Dissertation:* Safety within Oil Rig Culture: Deciphering Intercultural Miscommunication among Offshore Petroleum Workers  
*Major Professor:* Kelli Cargile Cook

## WILDLIFE, AQUATIC, AND WILDLANDS SCIENCE AND MANAGEMENT

Kamal Humagain  
*Dissertation:* Ecological Variation among Vegetation Cover Types and Forest Stand Dynamics in the South-West Jemez Mountains, New Mexico  
*Major Professor:* Robert Cox

## ZOOLOGY

Kendra Lyn Phelps  
*Dissertation:* Responses of Cave-Roosting Bats to Complex Environmental Gradients: An Assessment across Assemblage, Species, and Population-levels  
*Major Professor:* Tigga Kingston

## MASTER OF ARCHITECTURE

Kendall Thomas Edwards  
 Pedro Jorge Espinet  
 Cody Joe Ratliff

## MASTER OF ART EDUCATION

Emily Marie Kozora  
 Courtney Marie Tyler

## MASTER OF ARTS

### ANTHROPOLOGY

Alyssa Brooke Bonorden (*In absentia*)  
*Thesis:* Comparing Colonial Experiences in Northwestern Belize: Archaeological Evidence from Qualm Hill Camp and Kaxil Uinic Village  
 Ashley Marie Booher  
*Thesis:* Assessing the Form and Function of the Sacbeob and Associated Structures at Chan Chich, Belize  
 Jill Marie Tuley (*In absentia*)  
*Thesis:* Micro-Anatomical Features Specific to Metabolic Problems Found in the 6th Left Rib: A Comparison among Samples from the Raymond Dart and the RPP Collections

### ART HISTORY

Kaveh Mohammad Rafie  
*Thesis:* Aspects of Gaia: Roy Ascott's Art and the Embodiment of Second-Order Cybernetics

### COMMUNICATION STUDIES

Taylor Jace Brown

### ECONOMICS

Nicholas D. Acosta (*In absentia*)  
 Jessica Lynn Carr  
*Thesis:* Foreign Direct Investment: An Argument for Least Developed Countries to Invest in Female Education  
 Ahmed Hossain Sabit

### EXPERIMENTAL PSYCHOLOGY

David Ward Hancock  
*Thesis:* Implicit Inhibition of Intergenerational Ageism in Young Adult Population  
 Earl Young Popp (*In absentia*)

## HISTORY

Regina Marie Burch (*In absentia*)  
*Thesis:* The Pleasurable Culture: Sex, Media, Enlightenment, 1715-1789  
 Aren Taylor Dobbs  
 Michael Angelo Rangel  
*Thesis:* Queer Valley: Stories of Culture and Resistance along the Lower Rio Grande Valley  
 Sylvia A. Wright

## INTERDISCIPLINARY STUDIES

Mariame Conde (*In absentia*)  
 Adriana Perez

## MASS COMMUNICATIONS

Kallie Kate Barley  
 Matthew Joseph Calamoneri  
 Brooke J. Carson  
 Kiley Marie Cowley  
 Jacob Taylor Fisher (*In absentia*)  
*Thesis:* An Examination of Cognitive Load and Recall in ADHD and Non-ADHD Populations when Viewing Educational Multimedia Messages  
 Sandra Kaye Godwin  
 Toddrick Lesean Gotcher  
 Emily Grace Jarrell  
 Kirby Lynette Kennedy  
 Sarrah Kay LaSuer  
 Allison Ann Matherly  
*Thesis:* Power of a Tweet: How Does Social Media Interaction Affect Social Identity and University Satisfaction  
 Tayler Marie Mitchell  
 Esul Park (*In absentia*)  
*Thesis:* The Psychology of Online News Evaluation: How Interactivity and Negative Emotions Drive Credibility Assessments  
 Shanice Margaree Stewart  
 Randi Leigh Thomas  
 Cara Lyn Vandergriff (*In absentia*)  
 Erin Reid Warren  
 Binari Witanapatirana

## MATHEMATICS

Monica Meng Chen  
 Susan Marie Geer  
 Shirley A. Kitchens  
 Megan A. Miglioretto  
 Samantha Annette Spray

## MUSEUM SCIENCE

Robynn Edna Sia Amaba  
 Melanie Colleen Collins  
 Victoria Frances Lancaster (*In absentia*)  
 Michael Morgan Linder  
 Amy Lowery (*In absentia*)  
 Elizabeth JoAnn Qualia  
 Alexander Eades Root  
 Dallas C. Ward  
*Thesis:* A Heritage Perspective on the Historic U-Lazy-S Ranch: A Case Study in Heritage Construction

## GRADUATE CANDIDATES

### PHILOSOPHY

Charles Kevin Banks (*In absentia*)  
Hasan Roshan

### POLITICAL SCIENCE

Nathaniel Andrew Crosby  
Nazmus Sakib

### PSYCHOLOGY

Ashley Jordan Maile O-Puna Martinez  
(*In absentia*)

### ROMANCE LANGUAGES

Emilie Janine Denise Mathis  
*Thesis:* La Figure du Critique-écrivain: Barthes,  
Blanchot et Cixous

### SOCIOLOGY

Brian Michael Galica  
Vanessa Leos  
*Thesis:* A U.S. Paradox: Rising Unintended Pregnancies,  
Declining Number of Abortions

## MASTER OF BUSINESS ADMINISTRATION

### GENERAL BUSINESS

Yanick Azongokoh Akaragwe  
Janay E. Andrade  
SuEllen Candice Arentz  
Garry Clinton Baccus  
Scott K. Benson  
Kamal D. Bhakta  
Joseph Cody Borches  
Will Christopher Bracher  
Holly Camille Brady  
Tailor Elizabeth Brown  
Andrew Michael Charlton  
Stephen Thomas Clark  
Heber Ismael Claros  
Colton Lane Coker  
Trevor Reed Cook  
Rodrigo Andres Correa  
Kevin Kenneth Dasher  
Kelly Marie Davis  
Noe De La Cerda  
Lance Richard Drake  
Julie Ann Duran  
Abigail Maryrose Earl  
Lukas Jobe Easterling  
Ryan Andrew Elder  
Blake Ray Ezell  
Frank Fang  
Jason Francis Fischer  
Gregory Paul Gagnon  
Kyle Scott Garcia  
Jessica Rachel Glockner  
Jose Miguel Gutierrez Lopez  
Alicia Elaine Hansford  
Seth Montgomery Hansford

Matthew Alexander Hein  
Luis Antonio Herrera  
Jonathan Ralph Holland  
Jonathan Michael Houston  
Howard M. Huynh  
Nicholas Emmanuel Igboke  
Brianna Ray Ingram  
Stephanie Taylor Jackson (*In absentia*)  
Curtis Ray Jackson  
Caitlin Marie Jones  
Zunaira Khalid  
Karen Hashmi Khan  
Andrew Dwain Kline  
Srikanth Konduru  
Corey R. Layman  
Martin Hugo Leske III (*In absentia*)  
Taylor Helene Lindgren  
Brandie Lavake MacKenzie  
Christina Marie Manley  
Jordan Diane McCown  
Colton Christopher McCoy (*In absentia*)  
Erica Nicole McDonald  
Madison Lindsey Meade  
Justin Michael Miranda  
Marybeth Moran Murphy  
Zachary Quinten Mortensen  
Jason Garrett Nelms  
Linsey Jean Ogden  
Ujiro Ogagoghene Okiomah  
Gabriel Esteban Palomino  
George Hajimu Parker  
Dylan R. Pearce  
Fallon Briana Pennington  
Ely Perea  
Stacy Philip  
Johnny Dean Phillips III  
Christopher Robert Ramirez  
Qasim Rasul  
Mary Hannah Rhodes  
Ruben Rios, Jr.  
Derek S. Robinson  
Joseph Wesley Ross  
Eric Chad Sales  
Shaun Stephen Schottmiller  
Kyle Allen Schwab  
Ashley M. Shapiro Hall  
John Noel Simpson, Jr.  
Anna Christine Smart  
Justin Ray Smart  
Lacy Lee Sperry  
Mark Edward Stephens, Jr.  
Michael David Stewart  
Joseph R. Stone  
Shivam Swarup  
Natenael Teferra (*In absentia*)  
Nadia Tello (*In absentia*)  
Christopher Rodolfo Torres  
Elizabeth Lishewski VanNatta  
Sangama Vemulapally  
Randi Leann Walker  
Joshua Wayne Wenzel  
Benjamin Michael Wilting  
Taylor Elizabeth Winkler  
Kelsey Erin Zickefoose

## MASTER OF EDUCATION

### BILINGUAL EDUCATION

Amy Lorene Sauseda

### COUNSELOR EDUCATION

John Wesley Farrow  
Ansley Songer Hoskins  
Jonathan Lamar Richard

### CURRICULUM AND INSTRUCTION

Keelee Merice Burkholder  
Sarah Jean Forehand  
Maria Olivarez Gregory  
Sarah Nicole Haacker  
Lucinda Dawn Hammons  
Emily Lavinia Mitchmore  
Timothy Joseph Norris (*In absentia*)

### EDUCATIONAL LEADERSHIP

Robert Michael Eads  
Andrea Kay Gibson  
Betty Record Hall (*In absentia*)

### EDUCATIONAL PSYCHOLOGY

William Aldo Ritter, Jr.

### HIGHER EDUCATION

Ali Joy Luempert  
*Thesis:* Exploring the Use of the Transformational  
Leadership Tenets of Idealized Influence and  
Inspirational Motivation by Administrators in  
Academic Advising Units

### INSTRUCTIONAL TECHNOLOGY

Leslie Carol Decker (*In absentia*)  
Cristina Anatol Diordieva (*In absentia*)

### SPECIAL EDUCATION

Kristin Kaye Alford  
Andrea Jo Amestoy (*In absentia*)  
Lea C. Birmingham (*In absentia*)  
Charlene Smithson Blackburn  
Tuveesha Shavez Campbell  
Jacquelyn N. Cedillo  
Jessica Alia Chambers  
Nicaea R. Chavez  
Micah Brook Echols  
Mary Adelaide Eggleston (*In absentia*)  
Heidi Michelle Foreman  
Kristina Marie Gonzalez  
Sara Griffin  
Megan Gibson Hambricht  
Kendra Gail Hernandez  
Dawn Renee Hudnall  
Russell Hugh Lincoln  
Robert Armstrong Livingston  
Bailey Caroline Long  
Angela McDonald Modisett  
Erika Marie Prieto  
Crystal McCall Sapir  
Scharlet Marie Stasny  
Christine Lynn Twilligear (*In absentia*)



Kenze Madison Urbanczyk-Boren  
 Christopher Lowell Wagner  
 Karen Rachel Weatherly  
 Alexis Dawn Whitaker  
 Pin-Chen Wu  
 Elissha Heather Young

## MASTER OF ENGINEERING

Bret Alan Spence (*In absentia*)

## MASTER OF FINE ARTS

### ART

Yasaman Moussavi

### THEATRE ARTS

Clay Benjamin Martin  
 Gabriel Isaac Vanover  
 Amanda G. Varcelotti

## MASTER OF MUSIC

Bryce Nielsen Biffle  
*Thesis:* "Missed Connections:" Music in Narrative Continuity of the Marvel Cinematic Universe (2008-2016)  
 Jason Zachary Davis  
 Daniel David Dudley (*In absentia*)  
*Thesis:* Regionalized Flow in the Hip-Hop Golden Era  
 Sarah Kayleen Harris  
 Marusia Pola Mayorga (*In absentia*)  
*Thesis:* Female Sonorities: Theoretical Inquiries on the Feminine Voice and the Musical Experience; A Study of Three Women  
 Megan Leigh Poppe  
*Thesis:* Elements of Sonata Form in Ten Movements from Beethoven's "Razumovsky" String Quartets, Op. 59  
 Erin Elizabeth Weber

## MASTER OF MUSIC EDUCATION

Mark Adam Bailey (*In absentia*)  
*Thesis:* Examination of the Relationships between Socioeconomic Status and Music Student Achievement in State Level Performing Groups  
 Daniel Loren Garrett  
 Tiffany Nicole Gibson  
 Laura Nicole Sambrano

## MASTER OF PUBLIC ADMINISTRATION

Marques Carrington Bradley

## MASTER OF SCIENCE

### AGRICULTURAL AND APPLIED ECONOMICS

Chandra Kant Dhakal  
*Thesis:* Cotton Yield Response and Dynamic Optimization of Nitrogen in the Texas High Plains  
 Yang Gao  
*Thesis:* Cap and Trade Markets for Groundwater: Efficiency and Distributional Effects of a Permit Allocation Mechanism  
 Karsten Andrew Goodman  
*Thesis:* Should Alternatives to Publicly Funded Policing be Considered?: Evidence from the Development and Consolidation of Cattlemen's Associations in Texas  
 Maria Lorena Williams

### AGRICULTURAL EDUCATION

Brent Thomas Pape

### ANIMAL SCIENCE

Pedro Ricardo Ballavenuto Campanili  
*Thesis:* The Use of bmr-6 Sorghum as Forage Source in Beef Cattle Growing and Feedlot Systems on Growth Performance and Nutrient Utilization  
 Tosha Lynae Opheim (*In absentia*)  
*Thesis:* Beef Production Sustainability: The Water Use Efficiency of Distillers Grain in Texas High Plains Beef Production and the Use of Byproducts in Honduran Beef Finishing Systems  
 Lauren Ashley Ovinge  
*Thesis:* The Use of Alternative Feeding Strategies to Improve Feedlot Beef Cattle Growth Performance and Nutrient Utilization

### APPLIED PHYSICS

Matthew Alexander Hein  
*Thesis:* Measurement of the Maximum Cholesterol Solubility of Binary Lipid Bilayers Containing POPE and POPC via Lights Scattering Method  
 Victor P. Siller  
*Thesis:* The Effects of Plasma Etching Substrates on the Performance of Group 11 Metal Thin Films

### ATMOSPHERIC SCIENCE

Jennifer Gail Daniel  
*Thesis:* A Study of Inferred Charge Advection in Mesoscale Convective Systems on the South Plains Utilizing the West Texas Lightning Mapping Array  
 Grant Robert McKercher  
*Thesis:* Low-cost Mobile Air Pollution Monitoring in Urban Environments: A Pilot Study in Lubbock, Texas  
 Kelly Lynn Neely  
*Thesis:* The Impact of Climate on the Current and Future Prevalence of the *Aedes aegypti* Mosquito Vector in Brownsville, Texas  
 Andrew Peter Vande Guchte (*In absentia*)  
*Thesis:* Sensitivities of Near-Ground Simulated Parcel Trajectories

## BIOTECHNOLOGY

Maryam Sana Arastu  
 Suchithra Raveendar

## BUSINESS ADMINISTRATION

Paige Taylor Crowley  
 Camron Clarence Cunningham  
 Evan A. Luis  
 Christina Marie Manley  
 Stacy Philip  
 Leslie Price White  
 Lee Houston Willis

## CHEMICAL BIOLOGY

Matthew A. Sowa (*In absentia*)  
*Thesis:* Characterization and Inhibition of C-24 Sterol Methyltransferase of *Trypanosoma cruzi*

## CHEMISTRY

Heather Renee Coats (*In absentia*)  
*Thesis:* A Study on the Effect of Lecture Length in the Flipped Classroom

## COMPUTER SCIENCE

Joshua Thomas Archer  
*Thesis:* Big Easel  
 Nikhil Bantaram  
 Joe D. Davenport  
*Thesis:* Minimax AI within Non-Deterministic Environments  
 Prachita Gupta  
 Devender Kumar Kumawat  
 Alekha Reddy Seeram

## DATA SCIENCE

Mounica Reddy Bommareddy  
 Nicholas Daniel Burns  
 Priyank Leslie Dsilva  
 Sathyaveer Dudapu  
 Bradley Charles Eales (*In absentia*)  
 Mamatha Jetty  
 Rajesh Katpalli  
 Sonam Manhas  
 Olusola Kehinde Olutobi Osunsan  
 Ravichand Pasunooti  
 Vivekanand Praturi  
 John Clayton Setterlund  
 Neha Singh  
 Shashi Srinivasa Santhoshkumar Vallabhapurapu

## ENVIRONMENTAL DESIGN

Eleanor Riley Powell

## ENVIRONMENTAL TOXICOLOGY

Bryan Edward Hettick  
*Thesis:* Arsenic in Muskmelon (*Cucumis melo*) Plants and Wine in West Texas

## GRADUATE CANDIDATES

### FAMILY AND CONSUMER SCIENCES EDUCATION

Dawn Marie Abbott  
*Thesis:* The Impact of Teaching, Social, and Cognitive Presences on a Personal Finance College Course  
Katherine Rose  
Kayla Renee Sherman

### FORENSIC SCIENCE

Cameron John Hatzmann  
Audrey R. Palmer (*In absentia*)

### GEOGRAPHY

Benjamin James Gandy  
*Thesis:* The Sinking Sea Below: Drought and Water Perception in Lubbock, Texas  
Morgan Taylor Kraft (*In absentia*)  
*Thesis:* Exploring Biases in Location-Based Social Media: A Case Study of Twitter in the 2012 U.S. Presidential Election

### GEOSCIENCES

Jacob Douglas Cobb (*In absentia*)  
*Thesis:* Sedimentology of the Cretaceous-Paleogene Boundary Interval in the Tornillo Group of West Texas  
Tyler Daniel Goodell  
*Thesis:* Modeling Oceanic Crust by Waveform Modeling of PP Bounce Point Data with Application to the Nazca Plate  
Jennifer Leigh Kohn (*In absentia*)  
*Thesis:* Late Pennsylvanian (Virgilian) to Early Permian (Leonardian) Conodont Biostratigraphy of the "Wolfcamp Shale," Northern Midland Basin, Texas  
Lewis R. Matthews  
*Thesis:* The Fractal Geometry of Petrophysical Logs and Applications using Artificial Intelligence  
Zachary Michael Wilson (*In absentia*)  
*Thesis:* Characterization of Geothermal Anomalies in the Louisiana Continental Shelf, Gulf of Mexico, Using Corrected Bottom-hole Temperatures

### HOSPITALITY AND RETAIL MANAGEMENT

Natalie Alexandra Chapman  
Mara Gay Driscoll  
*Thesis:* Be Our Guest...The Doctor Will See You Now: Defining Patient Experience in a Medical Clinic  
Kelli Ann Pittcock  
Sharline Miran Yoon

### HUMAN DEVELOPMENT AND FAMILY STUDIES

Candace Brianna Bracher  
*Thesis:* The Transition to Siblinghood: Early Predictors of Maladjustment

Torey Elizabeth Griggs  
*Thesis:* Attachment Style as a Predictor for Children's Memory Accuracy for Negative Life Events

### INTERDISCIPLINARY STUDIES

Mhd Hasan Al Mekdash  
Christina Luisa Fernandez  
Charles Pasquale Guerriero V  
Abhishek Kumar Shaw

### KINESIOLOGY

Jacob Paul Brown  
Miguel Antonio Carreon Gavino  
*Thesis:* Development of Posture and Functional Performance among Healthy-weight and Obese Males  
Sarne Demecion Jenkins  
Bharti Sharma  
Suvarna Sudarshan  
Oduware Osarenkhoe Usen  
*Thesis:* Epidemiology, Exercise, Diet, and Health Outcomes  
Morgan Lynn Whitson (*In absentia*)  
*Thesis:* Effects of Age and Muscle Length Parameters on Single-Versus Multiple-Joint Lower-Body Strength Expression

### MATHEMATICS

Ashley Erin Meek  
Henda Hewa Supem Ranjana Samarasiri  
Michelle Nicole Walty (*In absentia*)

### NUTRITIONAL SCIENCES

Brittany Joy Braswell

### PERSONAL FINANCIAL PLANNING

Henry Chukwuma Duru  
Patricia Espino

### PHYSICS

Robert Daniel Fisher  
*Thesis:* Effect of Nicotinic Acetylcholine Receptors on DOPC/DSPC/Chol Giant Unilamellar Vesicle Phase Behavior

### PLANT AND SOIL SCIENCE

Chang Cao  
Kirsten Elizabeth Poff (*In absentia*)  
*Thesis:* *Platanthera Champanii*: Culture, Population Augmentation, and Mycorrhizal Associations

### SPORT MANAGEMENT

Hannah Victoria Carson

### STATISTICS

Tianjiao Yang (*In absentia*)  
Qingmin Zeng

### WILDLIFE, AQUATIC, AND WILDLANDS SCIENCE AND MANAGEMENT

Hannah Marie Ashbaugh  
*Thesis:* Environmental Availability and Potential Influences of Heavy Metals on Snowy Plovers in the Southern Great Plains of Texas, New Mexico, and Oklahoma  
Erin Elizabeth Bohlender  
*Thesis:* Hormone Concentrations, Vaginal Cytology and Diet: Variations during Reproduction in Seba's Short-tailed Fruit Bat  
Alixandra Janelle Godar  
*Thesis:* Influence of Climate Change and Land Use on Lesser-Prairie Chicken (*Tympanuchus pallidicinctus*) Population Persistence in the Sand Sagebrush and Short Grass Prairies  
Cody Griffin  
*Thesis:* The Influence of Environmental and Landscape Variables on Lesser Prairie-Chickens in the Sand Shinnery Oak Prairie Ecoregion of Texas and New Mexico and the Mixed-Grass Prairie Ecoregion of Oklahoma and Kansas  
Wade Anthony Massure (*In absentia*)  
*Thesis:* Evaluating Effects of Drought and Anthropogenic Influences on the Growth of Stream Fishes on the Edwards Plateau, Central Texas  
John William McLaughlin (*In absentia*)  
*Thesis:* Effects of Broadcast Feeding at Multiple Rates on the Over-Winter and Annual Survival Rates of Northern Bobwhite (*Colinus virginianus*) in the Rolling Plains of Texas

### MASTER OF SCIENCE IN ACCOUNTING

Kristen Marie Baker  
Hannah Nicole Bary  
Erica Bailie Beach  
Judyne Yvie Paige Omengan Beleo  
Gabriela Cabello  
Lindi Paige Confer  
Paige Taylor Crowley  
Patricio N. Cuevas  
Brooke McCall Downing  
Monica Elizabeth Gehring  
Casey Ricart Hagans  
Megan Michelle Hallman  
Matthew Palmer Heider  
Heiley Elizabeth Hernandez  
Taylor Christine Holcomb  
Steven Michael King  
Tyler James Kirchmeyer  
Lyssess Memel Ange Manoel Lathro  
Jeremy David Leech  
Abigail Ivey Lightfoot  
Ryan Manoogian  
Rob Howard McMenamy  
Jacob Neil Meador  
Indra Obeso  
Sandeep Kaur Rangi  
Taylor Bjorg Ray  
Emily Ann Rogstad  
Stephanie Michelle Shaw

## GRADUATE CANDIDATES

James Daniel Sloan  
Shelby Ann Spicer  
Jared Michael Stephens  
Bridget Nora Tong  
BaLeigh Lynn Waldrop  
Lauren Ann Walsh  
Lawrence Andrew Wearden, Jr. (*In absentia*)  
Myles Adam Wilson  
Rachel Lian Zajac  
Long Zhou

### MASTER OF SCIENCE IN CHEMICAL ENGINEERING

Zachary Thomas Fondren  
Farah Mary Jacob  
Tinku Supakar  
*Thesis:* Experimental Study of Liquid Marble  
Formation and Deformation Dynamics

### MASTER OF SCIENCE IN CIVIL ENGINEERING

Cody J. Navarro  
Caroline M. Neale  
*Thesis:* Evaluating Use of Sub-grade Drains with  
Permeable Friction Course for Stormwater Drain-  
age: Physical Model Studies  
Sheik Mohammad Nomaan (*In absentia*)  
*Thesis:* Preliminary Assessment of Chlorobenzenes  
Fate and Transport in Sediment Environment  
Ifeanyichukwu Kenneth Nwankpa  
*Thesis:* Streamflow Recession and its Relationship  
to Meteorological Drought in the Llano River  
Watershed

### MASTER OF SCIENCE IN ELECTRICAL ENGINEERING

Raquib Buksh  
Shrutika Vilas Dere  
Ramya Keerthi Kanchari  
Shelby Lynn Lacouture (*In absentia*)  
Xiangyu Liu  
Long Phi Nguyen  
*Thesis:* Vertebra Labeling from Computerized  
Axial Tomography Scans Using Atlas  
Brett Orian Peikert (*In absentia*)  
*Thesis:* Design and Modeling Advanced Control  
of Microgrids  
Akshaya Ramachandran  
Shafiuddin Syed  
Franck Koffi Tossou

### MASTER OF SCIENCE IN INDUSTRIAL ENGINEERING

Jagadeesh Benegal  
Eder Meza (*In absentia*)  
Nitish Reddy Nalla  
Saikrishna Nandagopal  
Nakul Ravindra Padalkar  
Sulabh Sharma (*In absentia*)  
Yingge Zhou  
*Thesis:* Nickel and Cobalt Based Powder Selection  
for Laser Additive Remanufacturing of High  
Speed Gear

### MASTER OF SCIENCE IN MECHANICAL ENGINEERING

Seyed Saeed AhmadiSoleymani  
*Thesis:* Studying the Performance of American  
Football Helmet in Absorbing the Energy of the  
Impact Based on Finite Element Method  
Hermann Tchatat Njike

### MASTER OF SCIENCE IN PETROLEUM ENGINEERING

Faisal Saber A. Altawati (*In absentia*)  
*Thesis:* Water Effect on Huff-n-Puff Gas Injection  
on Shale Oil Recovery  
Gabriel Lengruher Carestiatto (*In absentia*)  
*Thesis:* Multiphase Flow Loop for the Near Hori-  
zontal Heat Transfer Parameters Measurement:  
Design, Construction and Commissioning  
Thiago Sauma Gomes (*In absentia*)  
*Thesis:* Multiphase Flow Loop for the Near Hori-  
zontal Hydrodynamics Parameters Measurement:  
Design, Construction, and Commissioning

### MASTER OF SCIENCE IN SOFTWARE ENGINEERING

Ajeet Kumar Yadav

### MASTER OF SCIENCE IN SYSTEMS AND ENGINEERING MANAGEMENT

Eric Kwaku Asare Bediako





# 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  
& Natural Resources

## BACHELOR OF SCIENCE

### AGRICULTURAL AND APPLIED ECONOMICS

Derek Jace Chennault  
Dalton Linc Croxton  
Fernando Antonio De Leon  
Colby James Finch  
*2nd Degree: Management*  
Evan Joseph Hewett  
Brandon Keith Martin  
Sloane Rider Scott  
Kendall Ryan Welfel  
Mackenzie Paige White<sup>4</sup>

### AGRICULTURAL COMMUNICATIONS

Jenna Judith Hay<sup>2,4</sup>  
Allie Rose Hicks<sup>3</sup>  
Virginia Lynn Huffman  
Mehgan Ryan Murray<sup>3</sup>

### ANIMAL SCIENCE

Charlotte Bingham  
Scotta L. Faulkenberry  
Caroline Claire Frank  
Jordan McKay Jackson  
David Chance Kelley  
Colleen Patricia Lovel  
Meagan Danielle Wright

### FOOD SCIENCE

Samuel Sumner Peabody IV  
Steve Rodriguez

### INTERDISCIPLINARY AGRICULTURE

Patrick Joseph Byrne  
Guy Coley Cowden  
Bailee Lynn Cross  
Hannah Leigh Franklin  
Lane Daniel Hale<sup>3</sup>  
Haley Nicole Jones  
Kara Lane Lacey  
Brittany Olivia Leithner  
Michael Chance Rollins<sup>3</sup>  
Brazos Taylor Williams

## NATURAL RESOURCES MANAGEMENT

Neil Clayton Larremore  
Nikki Dawn Williams  
Samuel Nathan Zarate

## PLANT AND SOIL SCIENCE

David Charles Brockman  
Robert Wayne Mason, Jr.  
Molly Nicole Morris



TEXAS TECH UNIVERSITY

College of Architecture

## BACHELOR OF SCIENCE

Surinder Singh Aulakh  
Erick Alejandro Avila Mireles  
Phyre Quickly Burns  
Wade Andrew Drake  
Gabriel Itzai Gaytan  
Stephen Solomon Longoria  
Adam Andres Perez  
Karla V. Perez  
Humberto Ramirez  
Samuel Ruvalcaba III  
Mackenzie Andrew Lundy Salman  
Rodolfo Sigala Zubia



TEXAS TECH UNIVERSITY

College of Arts & Sciences

## BACHELOR OF ARTS

### ANTHROPOLOGY

Ryan Matthew Adamson  
Aaron Choc Gibson

### BIOCHEMISTRY

Michaela Meighan McKay

### CHEMISTRY

David Chae Lee  
Mckinzie Lauren Markus<sup>1,4</sup>  
Sarang Patel<sup>3</sup>  
Michael Logan Sikes<sup>2</sup>

### ECONOMICS

Addison Joseph Avila  
Taylor Joseph Donowho

Austin Ryan Holcomb  
Cameron David Kennedy  
Su Hyun Kim  
Aderinsola Kuyinu  
Alexander Louis Loreto  
Carl R. Myers  
Steven Roy Ratliff  
Daniel Lewis Wolford  
*2nd Degree: Exercise and Sport Sciences*

## ENGLISH

Courtney Lynn Hannah  
*2nd Major: Technical Communication*  
Ellen Cox Mayfield  
Julianna Mikaila Rice  
Clifton Fred Rogge III<sup>2</sup>  
Rachel Kathleen Wallace

## GEOGRAPHY

Michael Raymond Carlisle  
Bryant Robert McBrayer

## GLOBAL STUDIES

Paulina Samone Salzman<sup>2</sup>  
*2nd Major: Political Science*

## HISTORY

Sarah Elizabeth Bessonett  
Ian Christian Boriack  
Cullen Ellery Cook<sup>3</sup>  
*2nd Major: Philosophy*  
Sarah Elizabeth Dickerson<sup>1</sup>  
Isaac Eric Escobedo  
Tyler Jordan Hall  
Alvaro Hrgic<sup>3</sup>  
Garrett David Johnson  
Sean C. McCollum  
*2nd Major: Languages and Cultures*  
Kalea Rotenberry McFadden<sup>1</sup>  
Jacob Paul Meyer  
Christopher Austen Parker  
*2nd Major: Philosophy*  
Kailey Elizabeth Rauschenplat  
Cameron Steven Schmoker  
Andrew Trevor Slaton Freeman  
Hayden Gregg Smith  
Eric Anthony Spenk  
Kelton Miles Spinks  
Haleigh Michelle Stephens  
Susanna Catherine Toler<sup>1</sup>  
Tyson Keller Whatley  
Nathan Ira Wolf

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

## UNDERGRADUATE CANDIDATES

### LANGUAGES AND CULTURES

Lacye Aspen Levine

### MATHEMATICS

Derek Joseph Aldana  
Audra Blair Howard  
Hunter Randal Johnson  
Emily Rose Stamm

### PHILOSOPHY

Anthony Charles Bankston  
Paige Dawson Lehmann  
Bianca Morales  
Bryan Richards Sany  
Michael Edward Tucker

### POLITICAL SCIENCE

Neil Kabir Azeez  
Nonique Alejandra Barrera  
Angela Mary Barrett  
Lacy Jo Doyle  
Corey Michael Gorsage  
Jackson Paul Griffon  
Ali Arumpac Manuel  
Jonathon Avery McAdams  
*2nd Major: Sociology*  
Kevin Rosales<sup>2</sup>  
*2nd Degree: Management*  
Morgan Brittany Treviño<sup>1</sup>  
*2nd Major: Spanish*  
Ashley Gale Vaughan<sup>2</sup>  
Jeffrey David Wyatt

### PSYCHOLOGY

Ramón Uriel Becerril<sup>2</sup>  
*2nd Major: Spanish*  
Jeremiah Nathan Blair  
Carissa A. Bush<sup>3</sup>  
Sarah Irene Casburn  
Melissa Castro  
Christopher John Cisneros<sup>1</sup>  
Anamarisa Davis Cuellar  
Sasha Joi Giger  
Brittni Marquis Giles  
Brittni Morgan Hagan  
Crystal Nicole Haggard  
December Anne Holladay  
Alejandro Huerta  
Stephen Kyle Jamison  
Trevis Robert Loree  
Mallory Caroline McCarty  
Amanda Memeh  
Leigh Ann Montez  
Tomilayo Temitope Olatunde  
Matthew Charles Petersen  
Chris D. Phillips  
Nicole Cameron Ponsler  
Kristen Mary-Marie Reid  
Brianna Hope Sanchez  
Eva Magdalena Saucedo  
Kailey Michelle Shoemaker  
Jessica Silva  
Kevin Silva<sup>3</sup>  
Douglas Sorensen  
Alanna O'Ryan Stephens  
Virginia Anne Stokes<sup>3</sup>  
*2nd Major: Social Work*

Emily Ann Sturiale<sup>1</sup>  
Benjamin Carl Varga<sup>2</sup>  
Daisia Brijon Walker  
Miles Jarrod Walker  
Astin Christine Williams  
Abigail Nicole Wisniewski

### SOCIAL WORK

Tiffany Lee Horton

### SOCIOLOGY

Ryan Anthony Casarez  
Nolan Prescott Esquivel  
Dakotah Jane Garza  
Delecia Denise Lopez  
Vince E. Lujan  
David Anthony Smith  
Jennifer Dawn Soliz  
Kathrine Jo Wentzel  
Matthew Michael Wright-Chapman  
Mercedes Yadi Young  
Mallory Patricia Zertuche<sup>3</sup>

### SPANISH

Talia Lizbet Acevedo  
*2nd Degree: Exercise and Sport Sciences*  
Seth Mark Ashley  
*2nd Degree: Exercise and Sport Sciences*  
Chesnie Antoinette Brackens  
Leo Cordova Villarreal

### TECHNICAL COMMUNICATION

Attrice J. Lockett

### BACHELOR OF GENERAL STUDIES

Kristin Janielle Aquino Ada  
Michael Vincent Blackman  
Jorey Kristian Burkett  
Lindsey Marie Connery  
Hannah Elizabeth Crowe<sup>3</sup>  
Matthew Langley Darden  
Laura Kay De Los Santos  
Bailey Thomas Delavan  
Dusty Dawn Dodd  
Addison Wade Epstein  
Shelia Kaye Fleenor  
Lisa Ann Harkema  
Misharee Hight  
Kathryn Elizabeth Holt<sup>3</sup>  
Kevin Aaron Hurn  
Darien Keith Jones  
Adam Richard Kacor  
Alexander James Kennedy  
Beverly Jo Lentz  
James Dion Leverton  
Key Crawford Lloyd  
Jessica Marinee Moreno  
Christopher Landrum Motherwell  
Reese Turner Patterson  
Laura Elizabeth Reid  
Andrea Celeste Rodriguez  
Araceli Rodriguez  
Christian James Santulan  
Kali Kathryn Schoenrock  
Sherry Gann Schroeder<sup>1</sup>

Kaylen Michelle Smith  
Meredith M. Smith  
Alex Dawn Sokolosky  
Heather Michelle Stokes  
Lindsey Leonese Thiele  
Jonathan Christopher Urbanek  
Edward Glen Van Dyke  
Krystal Simone White

### BACHELOR OF SCIENCE

#### BIOCHEMISTRY

Alexandria Jane Fletcher<sup>2,4</sup>  
Brittany Nikole Hale  
Lucy Mmbone Ingaiza  
Van Roflox Johnson  
David Sean Lin

#### BIOLOGY

Shelbi Ashli Andrea  
Jessica Renae Atkins  
Graeme Kelso Brooks  
Kelsey Payton Chadwick  
Braden Jamison Cook  
Attilio Di Nunno  
Hannah Elizabeth Eaton  
Holly Nicole Garakani  
Kyle Mark Glockzin  
Gregory Ryan Havekost  
Andrew Jackson Henley  
Narendra Vanessa Mares  
Jason Todd Markwardt  
Stephanie Martinez Ugarte<sup>1</sup>  
Michael Chimaobim Okoronkwo  
Victoria Okpon  
Marco Antonio Ortega  
Emily Grace Payne  
Casey Brianna Perez  
Catarina A. Pizaña  
Christopher George Reid-Gordon  
Steven Harout Shahinian  
Valerie Melaina Sosa  
Andres Vivar  
Alicia Wafa  
Miranda Lee Williamson  
Brooklyn Ann Zabel

#### CHEMISTRY

Justin Robert Martinez  
Joel Appiah Owusu-Sechere  
Leonard Joseph Recine  
Marcos Antonio Sorto  
Elaine Jungeun Yun

#### EXERCISE AND SPORT SCIENCES

Osereme Aligbe  
Antonio Carlo Alvarado  
Matthew James Alvarado  
Alexander Scott Baker<sup>2</sup>  
Jennifer Lynn Beasley  
Alexander Alan Beebe  
Nirav Shashikant Bhakta<sup>3,4</sup>  
Kaitlyn Oleta Braswell<sup>3</sup>  
Brooklyn Nicole Burney  
Ashley Michelle Casey  
Djavar Rashad Chatman

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

## UNDERGRADUATE CANDIDATES

Adriana Sofia Corrales  
Christopher Curtis Cunningham  
Kelsea Chloe Denman  
Jay Michael Dossett  
Hayes Barrett Engholm  
Ryan Jacob Ferreyra<sup>2</sup>  
Stephanie Nichole Fletcher  
Juan Anthony Hernandez  
Jasmine Monet Hill  
Taylor Len Hughes  
Gionna Marissa Jackson<sup>3</sup>  
Ebony L. Johnson  
Alexa Rae Jones  
Taylor Nicole Jones  
Kortni Paige King  
Sarah A. Kleiss  
Paige Jane Kloetzer  
Margaret Emily-Marie Krempein  
Xavier Trinidad Leal  
Russell Wayne Lee  
Abraham Eduardo Lopez  
Luis Ignacio Lozano  
Joshua Daniel Marquette  
Sherina Rosalee Martin  
Austin Wade McConnico  
Gabriel Ignacio Medellin  
Madison Reid Meneses<sup>3</sup>  
Matthew Scott Meyers  
Briane Michelle Moss  
Alberto Muratalla  
Monica Muratalla  
Jocelyn Ortiz  
Paolo Alberto Pangilinan  
Joseph Scott Paramore  
Matthew Stephan Parra  
Rebekah Anna-Marie Perez-Schmidt  
Austin Lincoln Pricer  
Deshon Raynard Purvis-Davis  
Scott David Ramsey  
Megan Lynn Reeves  
Nicholas Anthony Rivera  
Jacob Lee Roark  
Joseph Daniel Rodriguez  
Laura Beth Roe  
Mytyl Ace Salcedo  
Sara Elizabeth Shanks<sup>2</sup>  
Duncan Forrest Simoneaux<sup>1</sup>  
James Collin Simpson  
Shauna Rae Standard  
Aden Teklu  
Natalie Nicole Thompson  
Rickie Marie Thompson  
Jarred Levi Turner  
Rebecca Lauren Williams

### GEOSCIENCES

Elena Renee Crowley-Ornelas  
Hannah Catherine Cunningham<sup>1</sup>  
Bienvenue Loubaki Kouanga  
Seth Elliott Martin  
Robert Kimble Nelson  
Joshua John Newton  
Amanda Raschel Rivera  
Dalton Ray Walker

### KINESIOLOGY

Kaylob Alexander Aguirre  
Brandon James Bussell

Delane Nicole Gonzales  
Austin J. Graybeal  
Demetric Demon Lee  
Tonosha Lashad McCoy  
Michael James Medina  
Bryce Cameron Milner  
Hayden Scott Pelham  
Joey Peña  
Jesus Lorenzo Ramirez  
Brandon James Snailer  
Garrett Lee Sosa  
Lauren Saige Subia  
Cameron Anthony Vasquez  
Maggie Ward  
Eric Michael Weir

### MATHEMATICS

Casey Allen Brito<sup>1</sup>  
Yao Fu<sup>3</sup>  
Annabel Elizabeth Offer Meade<sup>2,4</sup>  
Colton Ray Mikes<sup>3</sup>  
Zackary Ryan O'Connor

### MICROBIOLOGY

Bryan Nicholas Acuña  
Kyle Francis Merry

### PHYSICS

Thomas Patrick Hayes IV  
Jeremy Christopher Perry  
Keelan Daniel Walsh

### SPORT MANAGEMENT

Kimberly Shae Aguilar  
Gabriel Alejandro Avila  
Rico Ismael Gonzales  
Dontae Jermaine Moment  
Courtney Jayde Rodriguez

### ZOOLOGY

Tiara LeShai Price

## BACHELOR OF SCIENCE IN INTERNATIONAL ECONOMICS

Jorge Francisco Gonzalez  
Arturo Nevares Ortiz  
William Augustus Phillips



TEXAS TECH UNIVERSITY

Rawls College of Business™

## BACHELOR OF BUSINESS ADMINISTRATION

### ACCOUNTING

Fernando Aguilar  
Kristen Marie Baker<sup>2</sup>  
Erica Bailie Beach<sup>3</sup>  
Judyne Yvie Paige Omengan Beleo<sup>3</sup>  
Mingfeng Cai  
Lindi Paige Confer<sup>2</sup>  
Jalen Deon Corona

Paige Taylor Crowley<sup>2,4</sup>  
*2nd Major: Finance*  
Brooke McCall Downing<sup>1,4</sup>  
Bryanna Droz  
Monica Elizabeth Gehring<sup>3</sup>  
Martin Glen Graybill  
Casey Ricart Hagans  
Matthew Palmer Heider  
Heiley Elizabeth Hernandez  
Kasey Morine Hibberts  
Taylor Christine Holcomb<sup>1</sup>  
Heather Marie Holland  
Steven Michael James King<sup>3</sup>  
Tyler James Kirchmeyer  
Aubrey Hill Krause  
*2nd Major: Finance*  
Lysess Memel Lathro  
Jeremy David Leech  
Daniel E. Lemus  
Abigail Ivey Lightfoot<sup>1,4</sup>  
Ryan Lane Manoogian  
Rob Howard McMenemy<sup>2,4</sup>  
Jacob Neil Meador<sup>3</sup>  
Indra Obeso Reyes  
Faith Haesu Oh  
Jennifer C. Ramirez  
Sandeep K. Rangi  
Scott Michael Rauba  
Emily A. Rogstad<sup>1</sup>  
Keren Rueda Lastra  
Stephanie Michelle Shaw  
James Daniel Sloan  
Shelby Ann Spicer  
Jared Michael Stephens  
Janneth Terrazas  
Holly Lynn Thompson  
Shelly Timm  
Bridget Nora Tong<sup>3</sup>  
BaLeigh Lynn Waldrop<sup>2,4</sup>  
Lawrence Andrew Wearden, Jr.  
Cole Austin Wilder<sup>1</sup>  
Jourdan Leigh Wilke<sup>2</sup>  
*2nd Major: Finance*  
James Ryan Willoughby  
Myles Adam Wilson

### FINANCE

Nathan David Arnold  
Will Parker Breedlove  
Theodore Woodrow Ingram IV  
Max Morgan Moss II  
Stephen Latimer Schlenker  
Dominic Joseph Tesoriero  
Hamilton Ryan Walker

### GENERAL BUSINESS

Phoenix Delcueto  
Theodoro Guardado  
Mason Reed Payne  
Eric Matthew Prochnow<sup>4</sup>  
*2nd Major: Management*  
*2nd Degree: Biology*  
Robert Ryan Woulfe

### MANAGEMENT

Mason Garrett Adams  
Alec Matthew Aldaco  
*2nd Major: Marketing*

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



## UNDERGRADUATE CANDIDATES

Nadia Asprila<sup>3</sup>  
 Kyler Zant Billingsley  
 Katelynn Ashleigh Brownlee  
 Quinlin Xavier Caltabiano-Trahan  
 Cecily Caroline Crouch  
 Shivani Jayesh Daji  
 Alexandra Rose Dorbecker  
 Kara Elise Drumhiller  
 Efrain Alejandro Esparza  
 Humberto Flores, Jr.  
 Christopher Tyler Hawkins  
 John Michael Hirschhorn  
 Bradley William Horne  
 Lauryn Alyssa Lee  
 Lucas Benjamin Moore  
 Cody Jay Navarro<sup>3</sup>  
 Tara Ray Parkey  
 Demarie Lynn Phillips  
 Chadrick Dion Punch  
 Lucas Alexander Raney  
 Troy Charles Simpson  
 Austin Heath Tyler  
 Crystal Danielle Weddel

### MANAGEMENT INFORMATION SYSTEMS

Griffin Lawrence Crowley  
 Justin Hackworth  
 Brian Christopher Portis  
 Peter Ferguson Shaw  
 Nathaniel Robert Sisler  
 James Hyunyoung You

### MARKETING

Sara Boatema Amoako  
 Juan Carlos Arango De Dianous  
 Elijah Jacob Benzvi  
 Vanessa Rachelle Bryant  
 Reginald Davis III  
 Carina Guevara  
 Mallory Kathryn Hayes  
 Jose Jaime Hernandez, Jr.  
 Price Foster Holt  
*2nd Major: Management*  
 Abigail L. Hutchison  
 Rachel Leigh Kennedy  
 Taylor Austin Keys  
 William Sampson Kingrey IV  
 Emily Jane Latham  
 Whitney Holli Maestas  
*2nd Major: Management*  
 Ashleigh Marie Manderscheid  
 Kevin Samuel Marquez  
 Daniel Martinez<sup>1</sup>  
*2nd Major: Management*  
 Meghan Taylor McDonough  
 Jeremy A.G. Mojica  
 Rachel Lauren Petticrew  
 Krista Marie Polito<sup>4</sup>  
 Charles Culbertson Root  
*2nd Major: Management*  
 Spencer Ryan Shepherd  
 Emily Brynn Smith<sup>3</sup>  
 Hannah Nacole Soto<sup>3</sup>  
 Casey Renee Swenson  
 Haley Nicole Taylor  
 Kyle Christopher Thomas  
 Amber Nichole Yanez



### BACHELOR OF SCIENCE

#### MULTIDISCIPLINARY STUDIES

Courtney K. Adams<sup>1</sup>  
 Katelyn Nichole Alegria<sup>1</sup>  
 Heather Nicole Anthony<sup>1</sup>  
 Alvaro Fernando Arroliga Mejia  
 Melina Barrientos<sup>3</sup>  
 Ashley M. Bennett<sup>3</sup>  
 Abigail Elizabeth Blalock<sup>2</sup>  
 Raul Briones<sup>2</sup>  
 Cynthia Capetillo<sup>1</sup>  
 Monica Cruz  
 Cynthia Cuevas<sup>2</sup>  
 Margaret Elise Cuevas<sup>1</sup>  
 Jessica Daly<sup>1</sup>  
 Diana De La Rosa<sup>2</sup>  
 Monica Lynn Drake<sup>1</sup>  
 Rebecca Dawn Drake<sup>2</sup>  
 Krystal Leigh Eckert<sup>1</sup>  
 Maria de Jesus Eguiluz<sup>1</sup>  
 Kallie Elizabeth Ekwueme<sup>2</sup>  
 Aaren Mackenzie Enloe  
 Lauren Epperly<sup>1</sup>  
 Melissa Frances Esquivel<sup>1</sup>  
 Marjorie Cubillos Garay<sup>1</sup>  
 Jesyka Nikki Garcia<sup>2</sup>  
 Macarena J. Garcia<sup>1</sup>  
 Sarahie Otila Garza<sup>1</sup>  
 Jessica Nicely George<sup>1</sup>  
 Jennifer Grenald  
 Dayna Viagran Guerra-Leal<sup>2</sup>  
 Evelin Polanco Guzman<sup>2</sup>  
 Haley Ann Halvas<sup>1</sup>  
 Elizabeth Marie Hearne  
 Bobbie Jean Jackson<sup>1</sup>  
 Clare Nicole Jakubowski<sup>1</sup>  
 Sarah Caitlin Jenkins  
 Talicia Lashun Johnson<sup>2</sup>  
 Rebecca Leigh Jordan<sup>2</sup>  
 Kailey Marie Kotara<sup>1</sup>  
 Lindzey Yovana Larrea<sup>2</sup>  
 Veronica Dezerae Lopez<sup>3</sup>  
 Andrea Anne M. Malaluan<sup>1</sup>  
 Ingrid Cristabel Marinero Fuentes  
 Brenda Marrufo<sup>2</sup>  
 Diana Martinez<sup>2</sup>  
 Erica Martinez<sup>2</sup>  
 Rikki Marie McPhail  
 Susy Medina<sup>1</sup>  
 Marlyn Argentina Moreno<sup>2</sup>  
 Ashley Jaazaniah Navarro<sup>3</sup>  
 Chelsea Elizabeth Nettles<sup>1</sup>  
 VyVy T. Nguyen<sup>1</sup>  
 Christa Louise O'Connor  
 Philip Daniel Olivetti<sup>1</sup>  
 Karina Palacio<sup>1</sup>  
 Norma Annie Pardee<sup>1</sup>  
 Adrienne Kristina Durieux Pineda<sup>1</sup>  
 Celesta Chanel Rawls<sup>1</sup>  
 Karen Peralta Rivera<sup>1</sup>  
 Kathryn Beegle Roberts<sup>2</sup>  
 Alexis Giselle Rodriguez<sup>1</sup>

Marissa Rodriguez  
 Katherine Gale Rollins<sup>1</sup>  
 Salina Rosales<sup>2</sup>  
 Sharon Anita Speakman Salazar  
 Flor De Maria Salinas  
 Kellie Anne Sanders<sup>1</sup>  
 Jaci Schriewer<sup>3</sup>  
 Ana Isabel Segura<sup>1</sup>  
 Megan Christine Seymour<sup>1</sup>  
 Elizabeth Dianne Shirey<sup>1</sup>  
 Amber Lynn Smith  
 Margaret E. Solis<sup>2</sup>  
 Kathryn Elizabeth Spradlin  
 Cassidy Nicole St. John<sup>3</sup>  
 Carl Roger Swanson  
 Rebekah Leann Talarico<sup>2</sup>  
 Devinne Nicole Tribble<sup>1</sup>  
 Kari Lynn Tullos<sup>1</sup>  
 Carolina Ugalde<sup>1</sup>  
 Cristina Zamarripa Valenzuela<sup>1</sup>  
 Amairani Vargas Canales<sup>3</sup>  
 Brittany Nicole Vasquez  
 Maria Villagomez<sup>1</sup>  
 Cristy Lynn Wilke<sup>1</sup>  
 Michelle Elizabeth Wolther<sup>1</sup>



### BACHELOR OF SCIENCE

#### CHEMICAL ENGINEERING

Ayman Tarek Abdelrazek  
 Charles Francis Buhay  
 Vi Ngoc Hoang Cao  
 Amber Dawn Coffman  
 Amer Adel Amer Ahmed El Banna  
 Katelyn Alexis Flowers  
 George Samy Fouad  
 Mark Boulos Haddad  
 Michael Ray Myers  
 Marina Sharpe Idjabe  
 Manwinder Singh  
 Molly Marie Talkington  
 David Price Thomason II

#### CIVIL ENGINEERING

Sebastian De Castro  
 Nabin Kaini  
 Jason William Luke  
 Isaac Daniel Moncibaiz  
 Kinsey Nicole Steinberger  
 Nicholas Roger Webb  
 Farida Elvire Yeye<sup>2</sup>

#### COMPUTER ENGINEERING

Craig Allen Brannon  
 Brent Carlton Clancy  
 Jessica Lynn Hart  
 Carlos Paulo Hernandez  
 Matthew David Kopca  
 Alec Jordan Schott<sup>3</sup>  
 Daniel Powell Sherman<sup>3</sup>  
 An Thien Tran

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

## UNDERGRADUATE CANDIDATES

### COMPUTER SCIENCE

John A. Boling  
Justin Alan Bubel  
Randall J. Harper  
Cyril Mathew

### CONSTRUCTION ENGINEERING

Dominique Edwige Lornq

### ELECTRICAL ENGINEERING

Taylor Joseph Arispe  
Arthur Hardy Bousquet<sup>3</sup>  
Eli Garza  
*2nd Major: Mechanical Engineering*  
Hunter Don Hertel  
Philip Edward Jones  
Franklin Blake Maness IV  
Travis Dean Mattingly  
Marcos Mendoza  
Andrew Kyle Mertzluft  
Alexander Wale Mona  
Herbert Squires IV  
Dylan Lee St. John

### INDUSTRIAL ENGINEERING

Samuel Emmett Argo  
William Isaiah Joe  
Karthik Kannan  
Deri Siti Kusniawati<sup>3</sup>  
Ariane M. Tercero

### MECHANICAL ENGINEERING

Madison Atwood  
Jaryn DeWayne Barcheers  
Melissa L. Baten  
Lance Daniel Bell  
David Emory Clifton  
William Vincent Dougherty  
Richard Garrett King  
David Joseph Magocsi  
Andrew Pierce Miller  
Simon Nga Nguyen  
Iyinolu Barry Ogunfeyimi  
Jakeb Tyler Roberts  
John Cyrus Turner<sup>3</sup>  
Derek Wayne Ward  
Kelby Glen Winn  
Cynthia Alexis Morgan Wood

### PETROLEUM ENGINEERING

Zachary Taylor Freeman  
Daniel A. Okunola  
Andres A. Riojas  
Shivani Rajiv Vyas



TEXAS TECH UNIVERSITY

College of Human Sciences™

### BACHELOR OF SCIENCE

#### APPAREL DESIGN AND MANUFACTURING

Korie Diana Johnson  
Marcus DeWayne Linzey  
Briana Nicole Moloney<sup>2</sup>  
Nicole Elizabeth Peacock<sup>2</sup>  
Rachel Louise Ruhman<sup>1</sup>  
Adam Jay Schaff  
Courtney Suzanne Williams<sup>3</sup>  
Ellen Buquo Wood<sup>3</sup>

#### COMMUNITY, FAMILY, AND ADDICTION SCIENCES

Kelly Michelle Chroback  
Olivia Laurel Imbery  
Bryce Joseph McCulloch<sup>2</sup>

#### HUMAN DEVELOPMENT AND FAMILY STUDIES

Laura Diane Balo<sup>1</sup>  
Katherine Coker Bennett  
Molly Catherine Bryan  
Julie Anne Byron  
Kristen Marie Chersky  
Hannah Lee Christian  
Lauren Nicole Cruz<sup>2</sup>  
Sierra Nicole Dubrule  
Brienna Rhea Dunlap  
Tatyana Brynae Gaines  
Kimberly Ann Gambrell<sup>2</sup>  
Alyssa Noelle Garcia  
Paige Melnee Gavrelos  
Madlin Jazel Gonzales<sup>3</sup>  
Justine Marie Gonzalez  
Erika Mayela Guardiola  
Brittany Renee Hess  
Charish Lynn Hinson  
Stephanie Laura Mei Keebaugh  
Caitlin Marie Lackey  
Elisabeth Angeline Lamm  
Caitlin Nicole Mills<sup>3</sup>  
Taryn Amanda Christine Muzzo  
Shevon Ambang Ngwanah  
Elizabeth Ann Rackler<sup>2</sup>  
Jael Kylie Ramos  
Rodger Dale Smalley  
Amanda Carolann Sparks<sup>1</sup>  
Haylie Lindsey Torres  
Jeanette Ursua  
Karla Vargas  
Victoria Mae Vestal<sup>1</sup>  
Lindsey Hope Waldo<sup>2</sup>  
Jordan Renee Wells  
Quinton Lamon White, Jr.  
Stephanie Brooke Whitesides<sup>2</sup>

#### HUMAN SCIENCES

Monique Ackah<sup>1</sup>  
Gracen Averil  
Magen Taylor Carver

Madelyn Raye Crabtree  
Christine Rosetta Harewood  
Alacea Nicole Holland  
Trey Thomas Hutchings  
Allen Nnaemeka Ikemba  
Salevi Antonio Levi  
Cheyenne Lea Lichenstein  
Gaston Thierry Mba-Nguema  
Laura Lee Meyers  
Audra Joe Nieman  
Cynthia Katelin Palmer  
Victoria Lee Pendleton  
Evans Kembol Tuitok  
Xavier Gabriel Villareal  
Logan Thomas Whitfield  
Caleb Russell Woodward

#### NUTRITION

Jazzmin Ciara Franklin  
Sarah Louise Hooper  
Karen Anne Hunsicker<sup>2</sup>  
Dagmawit Kiros  
Mary Lisa Marzak  
Chibuzo Ifeanyi Nsofor  
Minerva Sanchez

#### PERSONAL FINANCIAL PLANNING

Eric Alfredo Mejia

#### RESTAURANT, HOTEL, AND INSTITUTIONAL MANAGEMENT

Brandon Lee Barry  
William Tucker Cole  
Norma Jean Crockett  
Kaitlin Ashley Custer  
Michael Scott Denney  
Adriana Sofia Garza  
John Charles Maaskant  
Mark Anthony Nava  
Emily Caroline Phillips  
Reagan Dawn Walton  
Jantzen Kate Young

#### RETAIL MANAGEMENT

Sarah Caitlin Almeida<sup>3</sup>  
Emma Adams Bolger<sup>2</sup>  
Michaela Breanne Gray  
Mckenzie Elizabeth Griffin  
Katherine Danielle Huereca  
Lora Paige Mirelez  
Emma Kay Pruetz  
Morgan Krystyne Vaughn<sup>1</sup>



TEXAS TECH UNIVERSITY

College of Media  
& Communication™

### BACHELOR OF ARTS

#### ADVERTISING

Kevin Ivan Guerra  
Braxton James Leonard  
Liliane Irene Logan  
Amanda Renee Petersen  
Meagan Judith Zenkner

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

## UNDERGRADUATE CANDIDATES

### COMMUNICATION STUDIES

Michael Joseph Ambrose  
Riley Patrick Farrar  
Stacy Ann Park  
Ross Fulton Polk  
Antonio Lamar Reed

### ELECTRONIC MEDIA AND COMMUNICATIONS

Parker Stayton Baird  
Emily Lauren Boneta  
Clayton Jennings Cullen  
Joshua Alan De Los Santos  
Troy Dean Jurls  
Allen Harry Kalebjian  
Jennifer Elizabeth Koster<sup>3</sup>  
Gabriell Diane Salazar  
Tyler James Shipp  
Ryan Jeffery Tippit  
Hannah Jane Turner  
Travis Nicholas Tustin

### JOURNALISM

Kaitlin Grace Bain  
Preston Kemp Derrick  
Julie Michelle Gomez  
Karly Anne Johnson  
Nicolas James Lopez  
Kortni Rae Robinson<sup>3</sup>  
Karla Veronica Rodriguez

### MEDIA STRATEGIES

Cody Phillip Alexander  
Justin Blake Alexander  
Quran Sheray Batiste  
Davis Emmert  
Justin Michael Farrar  
Joshua Daniel Garcia  
Michael Blain Meador  
Hannah Marie Riek  
Matthew Scott Sirgo<sup>2,5</sup>  
*2nd Major: Honors Arts and Letters*  
Peyton Reed Williams

### PUBLIC RELATIONS

Bethany Ann Alexander  
Jennifer Ann Bryant  
Jeramie Kate Connatser  
Stephanie Azucena Dye  
Emily Adele LaBaume  
Mary Noelle Lindauer  
Brock Robert McKee  
Malley Nicole Stoddard



TEXAS TECH UNIVERSITY  
University Programs™

### BACHELOR OF ARTS

#### UNIVERSITY STUDIES

Dane Paul Arnold  
Aleicia Dawn Billbry  
Crista Pearl Birney  
John Barr Bolger II  
Kelsey Suzanne Clark  
Meghan Lee Conrad

Robert Michael Doran  
Alec Chase Estes  
Kacee René Evans  
Belinda Fox  
Eric Santiago Garcia  
Winston Eugene Goodman  
Hayden Hamilton  
Matthew William Ware Hill  
Timothy Heath Hill  
Lindsey Elizabeth Holder  
Kyndal Jacobs<sup>2</sup>  
Steven Wayne King  
Roxana Michelle Marquez Lozano  
Hunter Grant McAnally  
Kaitlyn Rebecca McKinley  
Jonny Paul Oney  
Kyle Michael Pechacek  
Dylan Jay Rawls  
Raul Roy Saenz, Jr.  
Connor Marshall Shults  
Jordan Paul Simon  
Dustin Ivan Ventura  
Colin James Walker  
Blake Matthew Webb  
Brent Corey Wieland  
Audrey Marie Wilde  
Sunny Jean Williams  
Taylor Austin Williams

### BACHELOR OF SCIENCE

#### UNIVERSITY STUDIES

Harley Ray Clark  
Collin Robert Cowdrey  
Alexander Sean Dickson<sup>2</sup>  
Saul Herrera  
Lemuel Jacob Holifield  
Dylan James Keiner  
Cameron Robert Lauck  
Christopher Lee Martin  
Nestor Alexander Mejia  
Harland B. Mims  
Erin Danielle Moore  
Ignacia Maria Negrete  
Heather Nicole Springfield  
Matthew Mason Taylor  
Kimetra LaShaun Thomas  
Brett Aubrey Willis

#### WIND ENERGY

Jacob Cole Cameron  
Howard Pearce Campbell  
Patricio De Santiago, Jr.  
Eduardo Escandon Espinoza  
Austin Edward Fincher<sup>3</sup>  
Brandon Joseph Hernandez  
Cristian Hernandez  
Jonathan David Key  
Alex Michael Lopez  
Shelby Maloy  
Desmond Antoine Martin  
Ryan Lee Meadows  
*2nd Degree: Political Science*  
Juan Martin Paredes  
Jorge Sayon  
Blake David Wheeler

Joshua Evan Williams  
Jerome Javon Wilson  
Blake Edward Wood  
Shiyu Zhang



TEXAS TECH UNIVERSITY  
College of Visual  
& Performing Arts™

### BACHELOR OF ARTS

#### ART

Madeline Grace Joiner<sup>1</sup>  
Lacye Aspen Levine

#### DANCE

Breana Jacklyn Young

#### MUSIC

Armando Arroyo  
Daniel T. Money  
Catherine Njeri Mwaniki  
*2nd Major: Psychology*

### BACHELOR OF FINE ARTS

#### ART

Rebecca Victoria Bezak  
Eric David Parr<sup>3</sup>  
Elizabeth Marie Tyra

#### THEATRE ARTS

Jennifer Elizabeth Koster<sup>3</sup>  
Jacqueline B. Petrak

### BACHELOR OF GENERAL STUDIES

Courtlyn Alyse Black

### BACHELOR OF MUSIC

Xavier Malik DeGrate  
Johnathan Christopher Doerr  
Kathleen L. Felty<sup>3</sup>  
Elizabeth Marie Hott  
Kaysha Marie King

*This program is an unofficial list of August 2016 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.*

<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



## 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-right quadrant, a book symbolizes religion and academic traditions. A star in the upper-left 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 and Natural Resources** was one of the four founding schools of the university in 1924. The college banner was redesigned for use in the December 2005 gradua-

tion. 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** 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. Below are the words “Excellence in a Global Market.” The banner symbolizes the impact

of globalization in the modern business environment.

The **College of Arts and 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 has a dark brown field with the name of the college at the top. Underneath and centered on the banner are the words "Improving and Enhancing the Human Condition," which enclose a divided circle. The left side of the circle contains a



map of the Western Hemisphere and the right side features three human faces in silhouette, a man, a woman and a child, each of which is a different color. The map represents the connectedness of the global human community, and the diversity of the faces and their ages represent the families and communities served by College of Human Sciences programs. The banner was adapted by former Associate Dean Steven M. Harris from an original symbol created by Dr. Ben Goh.

The **College of Media and 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 **College of Visual and 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 Department 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.

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

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

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

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

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

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

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

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

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



## COLORS REPRESENTING FIELDS OF STUDY

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

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

## HONOR CORDS / MEDALLION

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

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

## TEXAS TECH TRADITIONS

### *Who's Sitting on a Horse? (And Why Is He Red?)*

Will Rogers was one of the most famous entertainers in America in the 1920s and '30s, and his longtime friend, Amon Carter, was Texas Tech's first chairman of the Board of Directors. Rogers donated \$200 for the Texas Tech band to play at the football game against TCU in 1926 because he wanted people "to hear a real band." Then the cowboy humorist donated \$1,500 to buy band uniforms for the trip to Fort Worth. A few years after Rogers perished in a plane crash, Carter presented the statue of Rogers and his horse, Soapsuds, to Texas Tech. Sculpted by 18-year old Electra Waggoner Biggs, the statue is one of four in the nation. Before every home game, the Saddle Tramps wrap "Old Will" with red crepe paper. The statue also has been wrapped in black to mourn national tragedies.



### *Raider Red or the Masked Rider?*

Not every university wants a horse in its stadium, so Texas Tech had to find an alternate mascot prior to the 1971 football season. That was the year the school's athletic conference passed a rule that prevented taking live animals to non-home games. That also was the year Raider Red was born from the imagination of cartoonist Dirk West. Raider Red changes from boots to soft-soled shoes for basketball games, and his student persona is kept a secret as he mingles with the crowds.

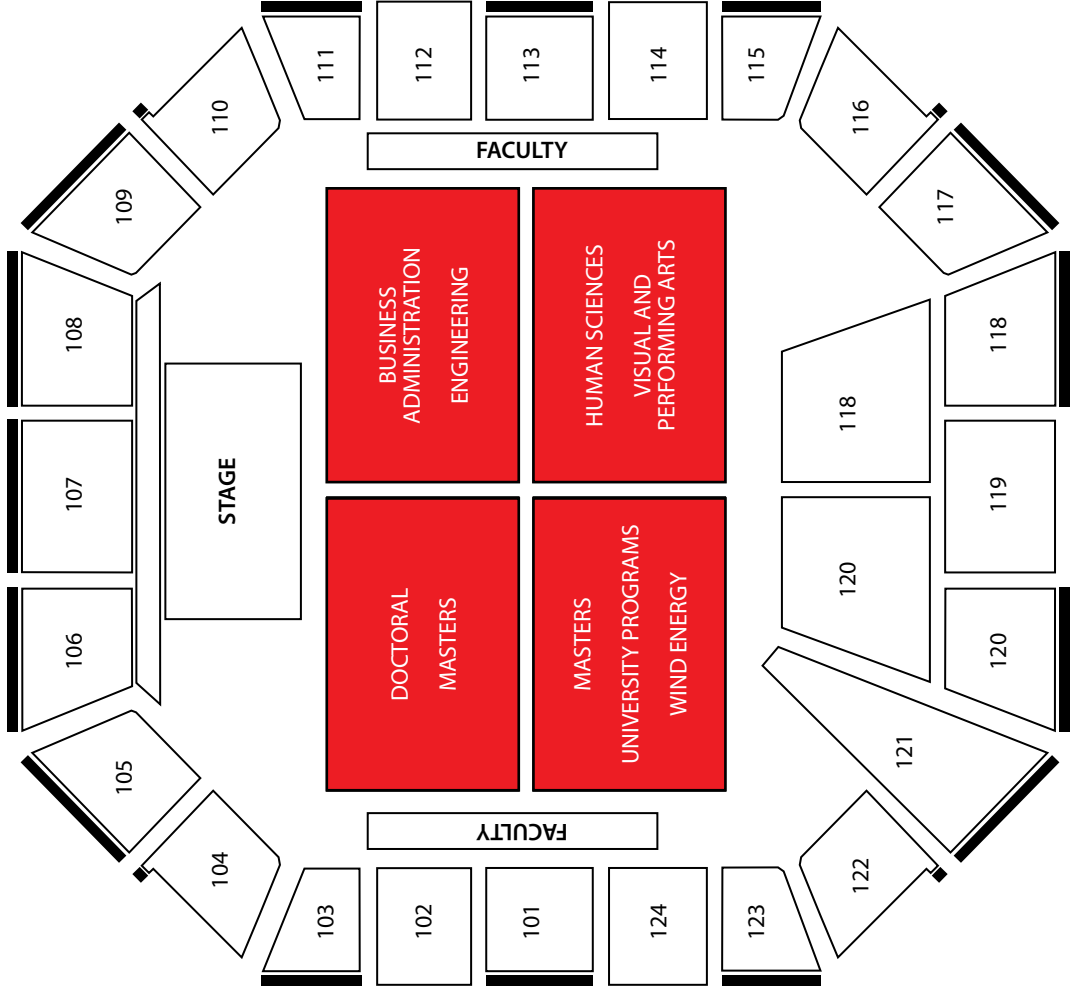


### *The Texas Tech Class Ring*

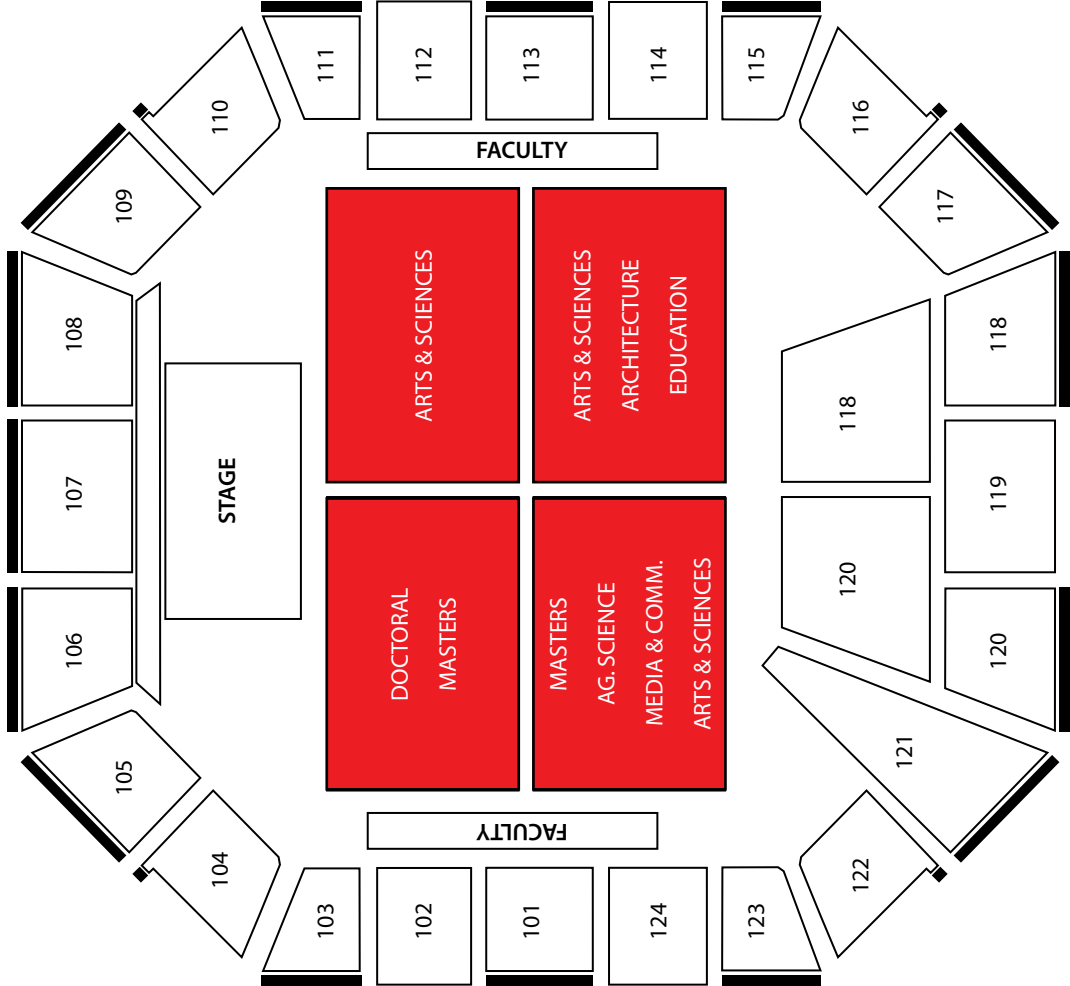
As a constant reminder of their academic achievements and the traditions of Texas Tech University, students proudly wear the official Texas Tech class ring. This bronze sculpture of the official class ring sits next to the Merket Alumni Center. Traditionally the rings are worn with the university name facing inward when the students' hands are extended. After the degree is granted on graduation day, the ring can be turned around so that the name faces outward, a symbol that the new alumnus has a Texas Tech diploma and is ready to face the world. ([www.TexasTechRing.org](http://www.TexasTechRing.org))



SATURDAY, August 13, 9:00 a.m.



SATURDAY, August 13, 1:30 p.m.







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 school song, which was penned in 1930. Page from 1936 Student Handbook courtesy of the Southwest Collection.

