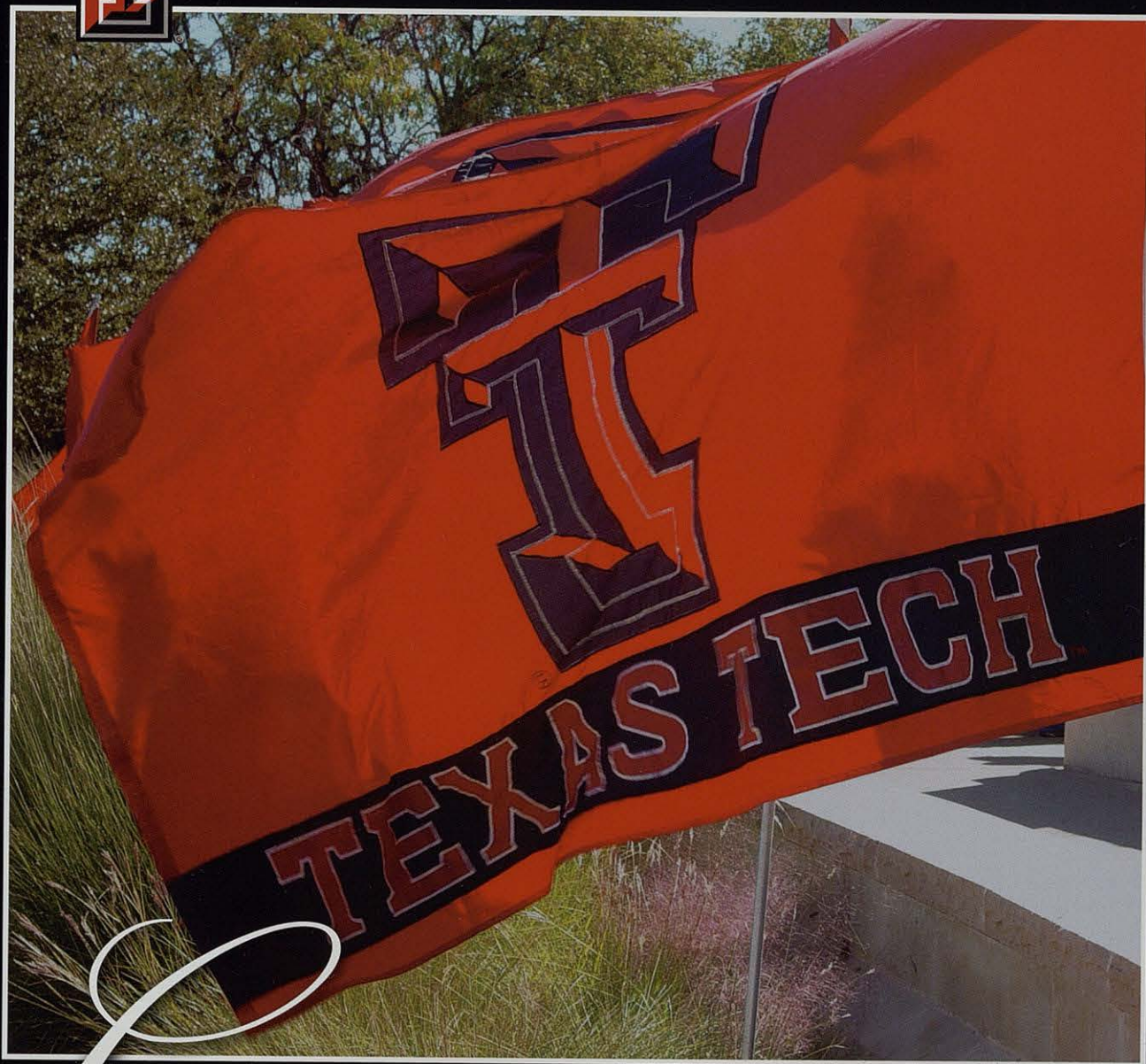




TEXAS TECH UNIVERSITY®



# Commencement

*December 13–14, 2013*







## TEXAS TECH UNIVERSITY®

# Commencement Ceremony

Friday, December 13, 2013  
Saturday, December 14, 2013  
UNITED SPIRIT ARENA

3:00 p.m. and 7:00 p.m.  
9:00 a.m. and 1:30 p.m.  
LUBBOCK, TEXAS

## BOARD OF REGENTS

MR. MICKEY L. LONG, CHAIR  
*Midland, Texas*

MR. LARRY K. ANDERS, VICE CHAIR  
*Dallas, Texas*

MR. JOHN ESPARZA  
*Austin, Texas*

MR. L. FREDERICK "RICK" FRANCIS  
*El Paso, Texas*

MR. TIM LANCASTER  
*Abilene, Texas*

MRS. DEBBIE MONTFORD  
*San Antonio, Texas*

MRS. NANCY NEAL  
*Lubbock, Texas*

MR. JOHN D. STEINMETZ  
*Lubbock, Texas*

MR. JOHN B. WALKER  
*Houston, Texas*

MR. JOSHUA HEIMBECKER  
*San Angelo, 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.



# ADMINISTRATION

## SYSTEM CHANCELLOR

**KENT R. HANCE, J.D.**

Chancellor, Texas Tech University System;  
Professor of Law

## ADMINISTRATIVE OFFICERS

**M. DUANE NELLIS, Ph.D.**

President and Professor of Geosciences

**LAWRENCE E. SCHOVANEC, Ph.D.**

Interim Provost and Senior Vice President,  
Professor of Mathematics and Statistics

**NOEL SLOAN, J.D., CPA**

Vice President for Administration and Finance  
and Chief Financial Officer

**MICHAEL SAN FRANCISCO, Ph.D.**

Interim Vice President for Research;  
Professor of Biological Sciences and  
Microbiology

**JUAN S. MUÑOZ, Ph.D.**

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

**DOMINICK J. CASADONTE, JR., Ph.D.**

Interim Dean, Graduate School; Piper Professor,  
Department of Chemistry and  
Biochemistry

**DARBY DICKERSON, J.D.**

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

**MICHAEL L. GALYEAN, Ph.D.**

Dean, College of Agricultural Sciences and  
Natural Resources; Paul Whitfield Horn  
Professor and Thornton Distinguished Chair,  
Animal and Food Sciences

**ANDREW D. VERNOOY, M.Des.S.**

Dean and Professor, College of Architecture

**JEFFREY P. WILLIAMS, Ph.D.**

Interim Dean, College of Arts and Sciences;  
Professor of Anthropology

**LANCE A. NAIL, Ph.D., CFA**

Dean, Jerry S. Rawls College of Business;  
Professor of Business Administration

## ACADEMIC OFFICERS

**SCOTT RIDLEY, Ph.D.**

Dean, College of Education;  
Professor of Education

**AL SACCO, JR., Ph.D.**

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

**STEPHEN E. FRITZ, Ph.D.**

Interim Dean, Honors College

**LINDA C. HOOVER, Ph.D.**

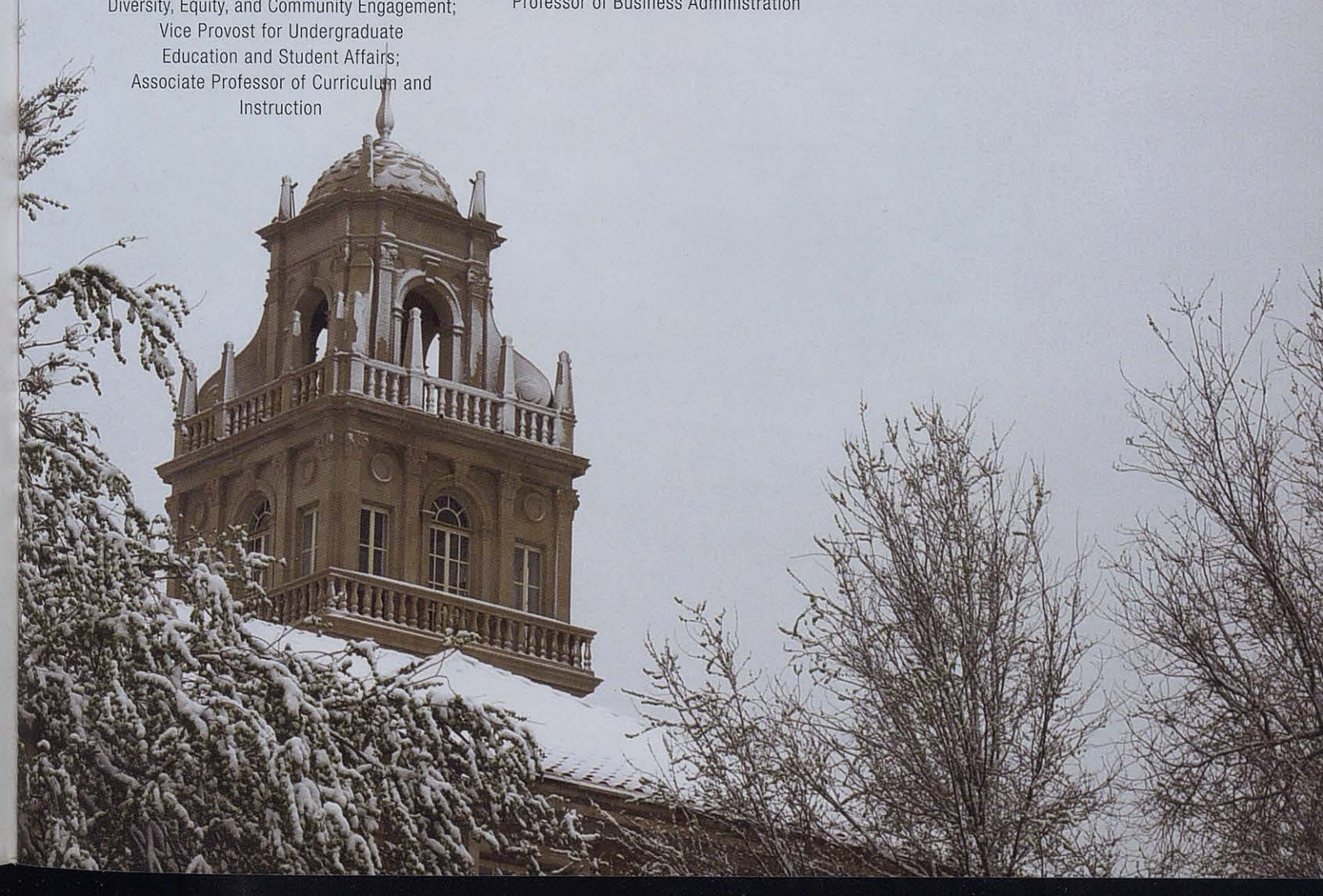
Dean, College of Human Sciences;  
Professor of Restaurant, Hotel and  
Institutional Management

**DAVID D. PERLMUTTER, Ph.D.**

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

**CAROL D. EDWARDS, Ph.D.**

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



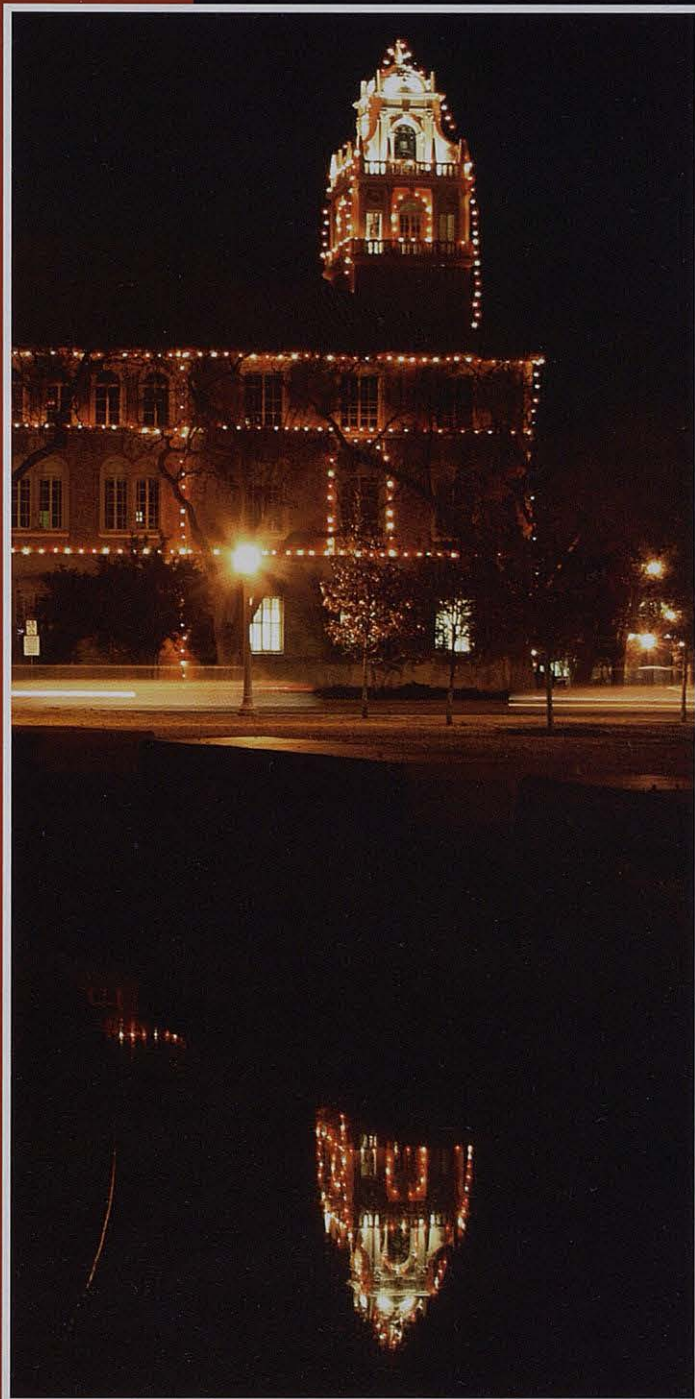


*“Everything that is done on these West Texas Plains ought to be on a big scale. It is a country that lends itself to bigness. It is a country that does not harmonize with things little or narrow or mean. Let us make the work of our college fit with the scope of our country. Let our thoughts be big thoughts. Let our thinking be in worldwide terms.”*

Paul Whitfield Horn, First President  
1925 Texas Tech Convocation Speech

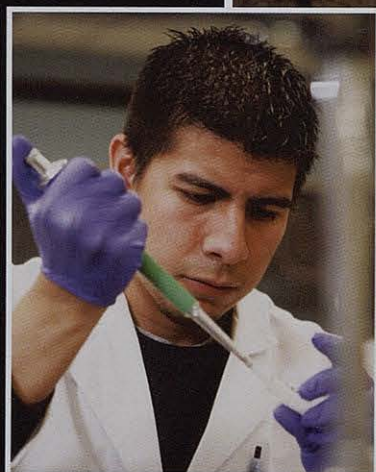
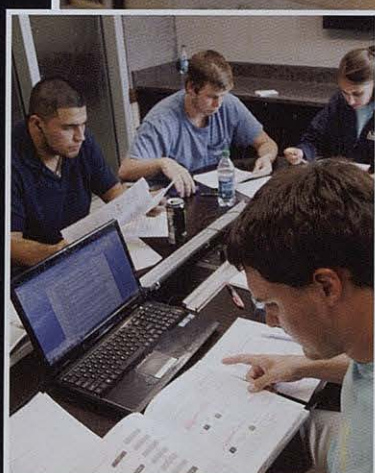




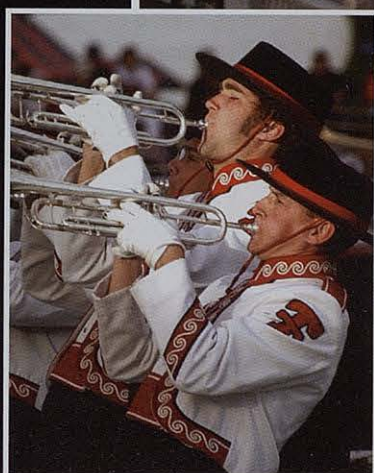
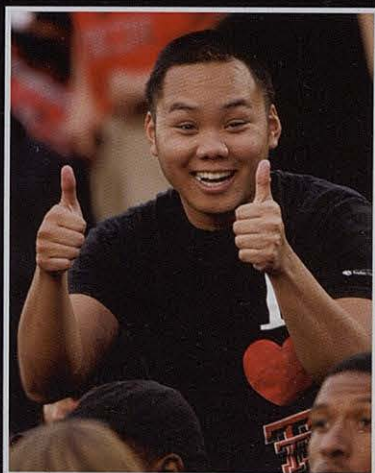


More than 25,000 red, white and orange lights make up the spectacular Carol of Lights display held annually in December. The lights are on more than six miles of wire and adorn 13 campus buildings. Thousands of participants gather around a darkened Memorial Circle to listen to the choir and watch the Masked Rider and torch-bearing Saddle Tramps parade through the circle.





In fall 2013, Texas Tech had a record enrollment of 33,111 students, a total nearly 35 percent higher than enrollment in 2000 and 16 percent higher than 10 years ago. This year's enrollment also includes international students from 105 countries. India, China, Mexico, Sri Lanka, and Iran have the largest international student representation.







English / Philosophy Building

**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, the college opened in 1925 with six buildings, four schools and an enrollment of 914. Evolving to university status in 1969, Texas Tech has become the largest comprehensive higher education institution in the western two-thirds of the state of Texas. 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.

Texas Tech is a state-assisted, multipurpose university of more than 32,000 students enrolled in the College of Agricultural Sciences and Natural Resources, College of Architecture, College of Arts and Sciences, Jerry S. Rawls College of Business, College of Education, Edward E. Whitacre Jr. College of Engineering, Honors College, College of Human Sciences, College of Media and Communication, College of Visual and Performing Arts, and University Programs.

The Graduate School and the School of Law provide graduate and professional programs. The Texas Tech Health Sciences Center—a separate institution—shares the Lubbock campus with the university and includes the School of Medicine, School of Nursing, School of Allied Health Sciences, Graduate School of Biomedical Sciences, School of Pharmacy, and Paul L. Foster School of Medicine. The Health Sciences Center has regional campuses in six locations throughout the state.

Because of its educational scope and purpose and the size of the region it serves, Texas Tech also operates in numerous Texas locations beyond the Lubbock campus.







# UNDERGRADUATE COMMENCEMENT

**Friday, December 13, 2013**  
**3:00 p.m.**

Presiding	Dr. M. Duane Nellis, <i>President</i> <i>Texas Tech University</i>
Processional*	Texas Tech Commencement Band <i>Prof. Duane Hill, Conductor</i>
National Anthem	Ms. Michal Kathryn Tegeler, <i>Singer</i> <i>Graduating with a Bachelor of Music</i>
Welcoming Remarks	Mr. Tim Lancaster, <i>Board of Regents</i> <i>Texas Tech University System</i>
Introduction of Commencement Speaker	Mr. Kent R. Hance, <i>Chancellor</i> <i>Texas Tech University System</i>
Commencement Address	Mr. Paul L. Foster <i>Chairman of the Board and Executive Chairman,</i> <i>Western Refining, Inc., El Paso, TX</i>
Conferring of Degrees	Dr. M. Duane Nellis Dr. Lawrence E. Schovanec <i>Interim Provost and Senior Vice President</i> <i>Professor of Mathematics and Statistics</i>
Presentation of Bachelor's Degree Candidates	Dr. Jeffrey P. Williams <i>Interim Dean, College of Arts and Sciences</i> Dr. Stephen E. Fritz <i>Interim Dean, Honors College</i>
Recognition of Outstanding Students Class of 2013	Dr. Lawrence E. Schovanec
Charge to the Graduates	Dr. M. Duane Nellis
Alma Mater (Words on Back Cover)	Ms. Michal Kathryn Tegeler, <i>Singer</i>
Recessional*	Texas Tech Commencement Band

\* Please remain seated during the Processional and Recessional



## GRADUATE COMMENCEMENT

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**Friday, December 13, 2013**

**7:00 p.m.**

Presiding	Dr. M. Duane Nellis, <i>President</i> <i>Texas Tech University</i>
Processional*	Texas Tech Commencement Band <i>Prof. Duane Hill, Conductor</i>
National Anthem	Ms. Michal Kathryn Tegeler, <i>Singer</i> <i>Graduating with a Bachelor of Music</i>
Welcoming Remarks	Mrs. Debbie Montford, <i>Board of Regents</i> <i>Texas Tech University System</i>
Introduction of Commencement Speaker	Mr. Kent R. Hance, <i>Chancellor</i> <i>Texas Tech University System</i>
Commencement Address	Mr. Paul L. Foster <i>Chairman of the Board and Executive Chairman,</i> <i>Western Refining, Inc., El Paso, TX</i>
Conferring of Degrees	Dr. M. Duane Nellis Dr. Lawrence E. Schovanec <i>Interim Provost and Senior Vice President</i> <i>Professor of Mathematics and Statistics</i>
Presentation of Doctoral and Master's Degree Candidates	Dr. Dominick J. Casadonte, Jr. <i>Interim Dean, Graduate School</i>
Charge to the Graduates	Dr. M. Duane Nellis
Alma Mater ( <i>Words on Back Cover</i> )	Ms. Michal Kathryn Tegeler, <i>Singer</i>
Recessional*	Texas Tech Commencement Band

\* Please remain seated during the Processional and Recessional



# UNDERGRADUATE COMMENCEMENT



**Saturday, December 14, 2013**

**9:00 a.m.**

Presiding	Dr. M. Duane Nellis, <i>President</i> <i>Texas Tech University</i>
Processional*	Texas Tech Commencement Band <i>Prof. Duane Hill, Conductor</i>
National Anthem	Ms. Katherine Elise Webb, <i>Singer</i> <i>Graduating with a Bachelor of Music</i>
Welcoming Remarks	Mrs. Debbie Montford, <i>Board of Regents</i> <i>Texas Tech University System</i>
Introduction of Commencement Speaker	Mr. Kent R. Hance, <i>Chancellor</i> <i>Texas Tech University System</i>
Commencement Address	Dr. O. Wayne Isom, <i>1962 Alumnus, Terry Allen Kramer Professor of</i> <i>Cardiothoracic Surgery, Chairman of the Department of Cardiothoracic</i> <i>Surgery, NewYork-Presbyterian Hospital/ Weill Cornell Medical Center</i>
Conferring of Degrees	Dr. M. Duane Nellis Dr. Lawrence E. Schovanec <i>Interim Provost and Senior Vice President</i> <i>Professor of Mathematics and Statistics</i>
Presentation of Bachelor's Degree Candidates	Dr. Lance A. Nail <i>Dean, Jerry S. Rawls College of Business</i> Dr. Stephen E. Fritz <i>Interim Dean, Honors College</i> Dr. Marijane Wernsman <i>Assistant Dean of Students and Study</i> <i>College of Media and Communication</i> Dr. Michael L. Galyean <i>Dean, College of Agricultural Sciences and Natural Resources</i> Dr. Carol D. Edwards <i>Dean, College of Visual and Performing Arts</i>
Recognition of Outstanding Students Class of 2013	Dr. Lawrence E. Schovanec
Charge to the Graduates	Dr. M. Duane Nellis
Alma Mater ( <i>Words on Back Cover</i> )	Ms. Katherine Elise Webb, <i>Singer</i>
Recessional*	Texas Tech Commencement Band

\* Please remain seated during the Processional and Recessional



# UNDERGRADUATE COMMENCEMENT

**Saturday, December 14, 2013**  
**1:30 p.m.**

Presiding	Dr. M. Duane Nellis, <i>President</i> <i>Texas Tech University</i>
Processional*	Texas Tech Commencement Band <i>Prof. Duane Hill, Conductor</i>
National Anthem	Ms. Katherine Elise Webb, <i>Singer</i> <i>Graduating with a Bachelor of Music</i>
Welcoming Remarks	Mr. Larry K. Anders, <i>Vice Chair, Board of Regents</i> <i>Texas Tech University System</i>
Introduction of Commencement Speaker	Mr. Kent R. Hance, <i>Chancellor</i> <i>Texas Tech University System</i>
Commencement Address	Dr. O. Wayne Isom, <i>1962 Alumnus, Terry Allen Kramer Professor of</i> <i>Cardiothoracic Surgery, Chairman of the Department of Cardiothoracic</i> <i>Surgery, New York–Presbyterian Hospital / Weill Cornell Medical Center</i>
Conferring of Degrees	Dr. M. Duane Nellis Dr. Lawrence E. Schovanec <i>Interim Provost and Senior Vice President</i> <i>Professor of Mathematics and Statistics</i>
Presentation of Bachelor's Degree Candidates	Dr. Linda C. Hoover <i>Dean, College of Human Sciences</i> Dr. Juan S. Muñoz ( <i>presenting University Studies and Wind Energy</i> <i>degrees</i> ) <i>Senior Vice President for Institutional Diversity, Equity, and</i> <i>Community Engagement; Vice Provost for Undergraduate Education</i> <i>and Student Affairs</i> Dr. Al Sacco, Jr. <i>Dean, Edward E. Whitacre Jr. College of Engineering</i> Dr. Scott Ridley <i>Dean, College of Education</i> Mr. Andrew D. Vernooy, M.Des.S. <i>Dean, College of Architecture</i> Dr. Stephen E. Fritz <i>Interim Dean, Honors College</i>
Recognition of Outstanding Students Class of 2013	Dr. Lawrence E. Schovanec
Charge to the Graduates	Dr. M. Duane Nellis
Alma Mater ( <i>Words on Back Cover</i> )	Ms. Katherine Elise Webb, <i>Singer</i>
Recessional*	Texas Tech Commencement Band

\* Please remain seated during the Processional and Recessional



## COMMENCEMENT SPEAKERS

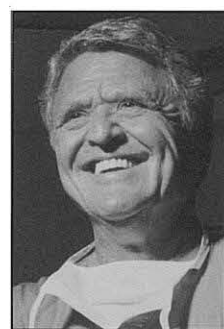
### FRIDAY, DECEMBER 13

**P**AUL L. FOSTER'S father was a member of the first class to graduate from Texas Technological College in 1923. Eighty-four years later in 2007, Foster donated \$50 million to help create the Paul L. Foster School of Medicine at Texas Tech University Health Sciences Center in El Paso. "My family and I believe strongly that we have an obligation to give back to the people, the organizations, and the communities that have given so much to us," said Foster, who serves as Chairman of the Board and Executive Chairman of Western Refining, Inc., an independent refining and marketing company headquartered in El Paso. Following in the footsteps of his father who worked in the New Mexico oil fields, Foster spent his teenage summers welding oil field pipes, digging ditches, and cleaning tanks, experiences he describes as "the single biggest motivation to get an education." He earned his B.B.A. in accounting from Baylor University in 1979 and embarked on a career with several refining companies before forming Western Refining Co. as president and CEO in 1997. Foster is an active civic leader in El Paso and has been honored with numerous entrepreneur and philanthropist awards. He also serves as chairman of the University of Texas System Board of Regents and a former member of the Texas Higher Education Coordinating Board.



### SATURDAY, DECEMBER 14

**D**R. O. WAYNE ISOM grew up on a cotton farm in West Texas and has risen to the top of the fiercely competitive profession of cardiac surgery, performing bypass surgeries on celebrities like David Letterman, Larry King, and Walter Cronkite. He studied pre-medicine at Texas Tech, where he earned his room and board working nights as a lab tech at what now is Covenant Medical Center. Today he is chairman of the Department of Cardiothoracic Surgery at NewYork-Presbyterian Hospital/Weill Cornell Medical Center. Dr. Isom earned his medical degree at the University of Texas Southwestern Medical School in 1965 and finished a medical internship and general surgery residency at Parkland Hospital in Dallas. He completed a cardiothoracic residency at New York University Medical Center in 1970 and joined the faculty at New York University School of Medicine in 1978. In 1985, Dr. Isom was recruited to the New York-Cornell Medical Center, which later merged with Presbyterian Hospital. As chairman of cardiothoracic surgery, Dr. Isom has built the elite cardiac treatment center from the ground up, raising funds with a combination of West Texas charm and scalpel-sharp surgical brilliance.



## RECEPTIONS AND OTHER CEREMONIES

### INDIVIDUAL COLLEGE RECEPTIONS

#### Immediately After Commencement Ceremony

College of Agricultural Sciences and Natural Resources | Atrium, Animal and Food Sciences Building  
College of Architecture | Architecture Gallery  
College of Arts and Sciences | Foyer Area of Room 104, Holden Hall  
Jerry S. Rawls College of Business | McCoy Atrium, 1st Floor of Rawls College of Business  
College of Education | Second Floor Lobby, College of Education  
Edward E. Whitacre Jr. College of Engineering | Livermore Center  
College of Human Sciences | El Centro, Human Sciences Building  
College of Media and Communication | 3rd Floor Student Lounge, Media and Communication Building  
College of Visual and Performing Arts | Rotunda, Holden Hall  
University Studies | Red Raider Lounge, Student Union Building  
Wind Energy | Room 107, National Wind Institute

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

### OTHER CEREMONIES

Friday, December 13, 2013

Army ROTC Military Commissioning | 10:00 a.m. International Cultural Center

Saturday, December 14, 2013

Air Force ROTC Military Commissioning | 4:00 p.m. Escondido Theater/Student Union Building

# ACKNOWLEDGEMENTS

## CONVOCATIONS COMMITTEE

Dr. Rhonda Boros, Chair  
 Ms. Shelley Barba, Chair-Elect  
 Dr. Mary Frances Agnello  
 Dr. Amma K. Akrofi  
 Dr. Rima Al Ajlouni  
 Mr. Ian Barba  
 Ms. Beth Bowlin  
 Dr. Julie Chang  
 Dr. Jamie Cooper  
 Dr. Fanni Coward  
 Dr. Patricia Delucia  
 Dr. Charlotte Dunham  
 Dr. Gary Elbow  
 Dr. Michael Farmer  
 Ms. Peggy Flores  
 Ms. Heather Ford  
 Dr. Kristi Gaines  
 Ms. Laura Heinz  
 Dr. Lynn Huffman  
 Dr. Catherine Jai  
 Dr. Carole Janisch  
 Dr. Natalia Kolyesnikova  
 Dr. David Lamp  
 Dr. Jingyu Lin  
 Ms. Adriana Lopez  
 Dr. Elizabeth Loudon  
 Dr. Jaime Malaga  
 Dr. Aretha Marbley  
 Dr. Jonathan Marks  
 Dr. Barent McCool  
 Dr. Courtney Meyers  
 Dr. Karen Spears  
 Ms. Carrie Syma  
 Mr. Jake Syma  
 Dr. Marcus Tanner  
 Dr. Shu Wang  
 Prof. Robert Wernsman  
 Ms. Lynn Whitfield  
 Ms. Heidi Winkler  
 Dr. Amani Zaier

## ADMINISTRATIVE REPRESENTATIVES

*Agricultural Sciences and Natural Resources*  
 Ms. Ramona Johnson  
*Architecture* – Ms. Anna Martinez-Lopez  
*Arts and Sciences* – Ms. Kim Mills  
*Business* – Ms. Geleah Sharp  
*Education* – Ms. Connie Watson  
*Engineering* – Ms. Glenna Andrews  
*Graduate School* – Ms. Lora Lopez  
*Honors College* – Ms. Janet Veal  
*Human Sciences* – Ms. Jennifer Dean  
*Media and Communication* –  
 Dr. Marijane Wernsman  
*University Studies* – Mr. Christopher  
 Corona and Ms. Sarah Foley  
*Visual and Performing Arts* –  
 Ms. Kathy Nordstrom  
*Wind Energy* – Ms. Kacey Young

## STUDENT BANNER BEARERS

*Agricultural Sciences and Natural Resources* –  
 Ashley L. Daggs and Theresa M. Graf  
*Architecture* – Ms. Sarah J. Armanovs  
*Arts and Sciences* – Mr. Timothy R. Allen  
*Business* – Mr. Layne T. Kight  
*Education* – Ms. Haley L. Arrington  
*Engineering* – Mr. Alejandro M. Brisenos  
*Graduate School* – Mr. Juan D. Coronado  
*Honors College* –  
 3:00 p.m. Ms. Kimberly E. Lundberg  
 9:00 a.m. Ms. Sarah C. Miller  
 1:30 p.m. Ms. Niki N. Parikh  
*Human Sciences* – Ms. Kelbi J. Callaway  
*Media and Communication* –  
 Ms. Elizabeth M. Bohm  
*University Programs* –  
 Ms. Michelle R. Sanchez  
*Visual and Performing Arts* –  
 Ms. Cailin L. Flaherty

## FACULTY BANNER BEARERS FOR UNDERGRADUATE CEREMONIES

3:00 p.m. – Ann R. Hawkins, Ph.D., Profes-  
 sor of English, College of Arts and Sciences  
 9:00 a.m. – Courtney A. Meyers, Ph.D.,  
 Assistant Professor of Agricultural Educa-  
 tion and Communication, College of Agri-  
 cultural Sciences and Natural Resources  
 1:30 p.m. – Walter S. Smith, Ph.D., Profes-  
 sor of Curriculum and Instruction, College  
 of Education

## COLLEGE READERS

*Agricultural Sciences and Natural Resources*  
 Dr. Erica L. Irlbeck  
*Architecture* – Dr. Clifton C. Ellis  
*Arts and Sciences* – Dr. Jorge Iber  
*Business* – Dr. Robert E. McDonald  
*Education* – Dr. Peggy Johnson  
*Engineering* – Mr. Derrick Ginter  
*Graduate School* – Dr. Bill F. Gelber  
*Honors College* – Dr. Robert E. McDonald  
*Human Sciences* – Mr. Thomas G. Kimball  
*Media and Communication* –  
 Prof. Robert E. Wernsman  
*University Programs* – Dr. Marcus N. Tanner  
*Visual and Performing Arts* –  
 Prof. Peter A. Martens  
*Wind Energy* – Prof. Marcus N. Tanner

## FACULTY BANNER BEARER FOR GRADUATE CEREMONY

7:00 p.m. – William R. Pasewark, Ph.D.,  
 Webster Professor of Accounting,  
 Jerry S. Rawls College of Business

## 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 fall 2013 enrollment included 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

#### GRADUATE SCHOOL CEREMONY

7:00 p.m., December 13

**Mathew T. Baker, Ph.D.**  
Professor of Agricultural Education  
and Communications  
College of Agricultural Sciences and  
Natural Resources

#### UNDERGRADUATE CEREMONIES

3:00 p.m., December 13

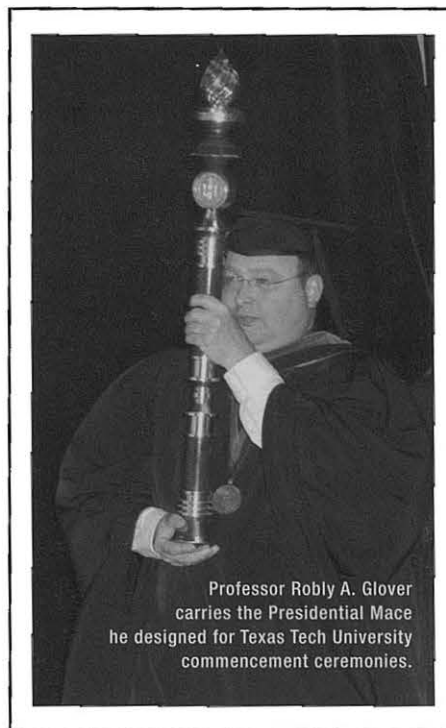
**Bruce C. Clarke, Ph.D.**  
Horn Professor; Interim Chairperson, Department of English  
College of Arts and Sciences

9:00 a.m., December 14

**William L. Gardner III, D.B.A.**  
Jerry S. Rawls Professor of Organizational Behavior and Leadership  
Area Coordinator of Management  
Director of the Institute for Leadership Research  
Jerry S. Rawls College of Business

1:30 p.m., December 14

**Thomas G. Kimball, Ph.D.**  
Associate Professor of Community, Family, and Addiction Services  
College of Human Sciences



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

## HONORS AND HONOR CORDS

### HONOR CORDS/MEDALLION

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*

### GRADUATION HONORS

Graduating seniors who have maintained an overall 4.00 GPA  
include the following:

Haley Lawan Arrington  
Alejandro M. Brisenos  
Kelbi Jade Callaway  
Tyler David Creger  
Ashley Lene Daggs  
Stephanie Richelle Dixon  
Debra Ann Gonzales

Theresa Maria Graf  
Hayley Danielle Haagsma  
Jennifer Olanio Hill  
Tyler Kyle Horn  
Alesha J. Isaacs  
Kathryn Louise Jones  
Elizabeth Faith Laughlin

Kimberly Elizabeth Lundberg  
Lauren Ann Pocsik  
Margaret Rose Ruebush  
Michelle Renee Sanchez  
Stephen James Thorp  
Ryan Wade Wakefield  
Kelsey Elizabeth Young



# Graduate School

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

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

## DOCTOR OF EDUCATION

### AGRICULTURAL EDUCATION

**TAMRA DENISE McGAUGHY**, Hamilton, TX  
DISSERTATION: The R.E.A.L. School Garden  
Experience: Building Sustainable School  
Gardens through Sustainable Communities  
MAJOR PROFESSOR: Jon Ulmer

### EDUCATIONAL LEADERSHIP

**PHILIP JEFFREY BRIGHT**, San Angelo, TX  
DISSERTATION: District Fiscal Leadership and  
School Effectiveness  
MAJOR PROFESSOR: Joe Claudet

**AMY BISHOP JACOBS**, Coahoma, TX  
DISSERTATION: The Effect of Age Diversity on  
Leadership Style: A Case Study of Four School  
Superintendents  
MAJOR PROFESSOR: Fernando Valle

**KATHRYN RENE ROLLO**, Lubbock, TX  
DISSERTATION: Improving Teacher Effectiveness:  
An Exploration of How and Why Teachers  
Improve Their Practices as Measured by  
Value-Added Data  
MAJOR PROFESSOR: Fernando Valle

### HIGHER EDUCATION

**JASON CHANDLER ALTIERI**, The Woodlands, TX  
DISSERTATION: A Phenomenological Study of  
Chief Academic Officers at Texas Public Rural-  
Serving Community Colleges: The Identifica-  
tion of Critical Decision-Making Skills During  
Times of Financial Crises  
MAJOR PROFESSOR: Stephanie Jones

**VALERIE JOAN STEINER PRUCKA**, Midland, TX

DISSERTATION: Instructional Methodology  
Effectiveness: A Study of the Perceptions of  
Second-Year Associate Degree Nursing Students  
in Community Colleges  
MAJOR PROFESSOR: Stephanie Jones

## DOCTOR OF MUSICAL ARTS

### MUSIC

**JENNIFER ANNE McLACHLEN**, Ottawa, Canada  
(In absentia)  
DISSERTATION: Piano Reduction and Stylistic  
Analysis of Kalevi Aho's *Concerto for Flute and  
Orchestra*  
MAJOR PROFESSOR: Lisa Garner

**MARK THEODORE NICHOLAS** (In absentia)  
DISSERTATION: Remapping the Musical Controller  
for Maximum Flexibility with the Keyboard as  
a Model  
MAJOR PROFESSOR: Peter Fischer

**CAMILA DENISSA RIVAS**, San Pedro Sula, Honduras  
DISSERTATION: Stylistic Analysis and Performance  
Considerations: Warner Hutchison's *Lament  
and Jubilation* for Flute and Piano  
MAJOR PROFESSOR: Lisa Garner

## DOCTOR OF PHILOSOPHY

### AGRICULTURAL COMMUNICATION AND EDUCATION

**COREY ANN CLEM**, Porterville, CA  
DISSERTATION: Exploring the Competencies,  
Skills, and Abilities Needed by Agricultural  
Communications Students: A Delphi Study  
MAJOR PROFESSOR: David Doerfert

### ANIMAL SCIENCE

#### BRITTANY LEILANI BACKUS

DISSERTATION: A Swine Model for Fetal Alcohol  
Spectrum Disorder – the Effect of Maternal  
Free-Choice Ethanol Consumption on the  
Behavior of Female Offspring  
MAJOR PROFESSOR: John McGlone

**YEN-TE LIAO**, Taichung, Taiwan

DISSERTATION: Shiga Toxin-Producing *Escherichia  
coli* (STEC) Prevalence and Control in the U.S.  
Beef Supply  
MAJOR PROFESSOR: Mindy Brashears

**ANSEN ROY POND**, Lubbock, TX

DISSERTATION: Reduction of *Escherichia coli*  
O157 and non-O157 O Serogroups in the Feces  
of Commercial and Research Feedlot Cattle  
Using a High-Dose of NP51, a Lactobacillus-  
Based Pre-Harvest Intervention  
MAJOR PROFESSOR: Mindy Brashears

**KARI SUE SPIVEY**, Prophetstown, IL (In absentia)

DISSERTATION: Evaluation of Age Predictor  
Variables in Relation to Chronological Age of  
Beef Animals  
MAJOR PROFESSOR: Markus Miller

### BIOLOGY

#### AYSEGUL BALYIMEZ

DISSERTATION: Characterization of the *Pseudo-  
monas aeruginosa* MepA, a Unique Metalloen-  
dopeptidase Whose Gene Is a Part of the Vfr  
Regulon  
MAJOR PROFESSOR: Michael San Francisco



**TIFFANY LEANN HOPPER**, White Bluff, TN  
 DISSERTATION: Factors Impacting Contaminant Body Burdens and Contaminant Effects at Different Trophic Levels in an Estuarine Ecosystem  
 MAJOR PROFESSOR: Sandra Diamond

**ERIC KELLAN HOWELL**, Anchorage, AK  
 DISSERTATION: From the Effects of Ionizing Radiation to the Utility of Science Diplomacy: Exploring Relationships, Applications, and Impacts  
 MAJOR PROFESSOR: Brenda Rodgers

**NANCY LEA LAYLAND**  
 DISSERTATION: Examination of AtMyb90 Transgene Silencing in *Nicotiana tabacum* using Dicer-Like Knockdowns  
 MAJOR PROFESSOR: Paxton Payton

**MOLLY MARGARET McDONOUGH**  
 DISSERTATION: Molecular Systematics and Phylogeography of the Genus *Gerbilliscus* (*mammalia*, *rodentia*) in Sub-Saharan Africa  
 MAJOR PROFESSOR: Robert Baker

**MATTIE CHRISTINE PAWLOWIC**, Austin, TX  
 DISSERTATION: Phospholipid Metabolism of Leishmania Parasites  
 MAJOR PROFESSOR: Kai Zhang

**MIRYAM DORIS VENEGAS ANAYA**, Panama City, Republic of Panama  
 DISSERTATION: The Use of Integrative Analyses as Tools for Understanding the Evolutionary and Ecological Determinants of Diversity in New World *Crocodylia*  
 MAJOR PROFESSOR: Lou Densmore

#### CHEMICAL ENGINEERING

**SWASTIKA SAHA BITHI**, Sirajganj, Bangladesh  
 DISSERTATION: Engineering a Drop-Based Microfluidic Platform with Functionalities of Well Plates and Pipetting Systems  
 MAJOR PROFESSOR: Siva Vanapalli

**KETAN SUDHAKAR KHARE**  
 DISSERTATION: Thermo-Mechanical Properties of Cross-Linked Epoxy Based Systems: A Molecular Simulation Study  
 MAJOR PROFESSOR: Rajesh Khare

**YUNZHE MA**  
 DISSERTATION: Drug Delivery to the Oral Cavity Using Microneedles  
 MAJOR PROFESSOR: Harvinder Gill

#### CHEMISTRY

**ERIC SCOTT CLEVENGER**, Commerce, TX  
 DISSERTATION: Theoretical and Synthetic Investigations into the Extent of Intramolecular Migration in Polymeric Shuttling Systems  
 MAJOR PROFESSOR: Michael Mayer

**CHATHURADA SUGEESHVARIE GAJADEERA**, Colombo, Sri Lanka  
 DISSERTATION: Protein-Protein Interactions between the Subunits of the Stator Stalk of ATP Synthase  
 MAJOR PROFESSOR: Joachim Weber

#### CIVIL ENGINEERING

**BRYAN D. SCHUETZE**, Houston, TX (In absentia)  
 DISSERTATION: Demonstration and Theoretical Basis of Energy Efficient High Recovery Small-Scale Brackish Reverse Osmosis System  
 MAJOR PROFESSOR: Lianfa Song

#### COMPUTER SCIENCE

**SAMUJJWAL BHANDARI**, Kathmandu, Nepal  
 DISSERTATION: A Language and Architecture for Adaptive Event Pattern Detection  
 MAJOR PROFESSOR: Susan Urban

**JUSTIN LANE BLOUNT**, San Antonio, TX  
 DISSERTATION: An Architecture for Intentional Agents  
 MAJOR PROFESSOR: Michael Gelfond

**YUGENDRA REDDY GUVVALA**, Kurnool, India  
 DISSERTATION: Programming Models for Computers of Extreme Scale Parallelism  
 MAJOR PROFESSOR: Yu Zhuang

#### COUNSELOR EDUCATION

**DOUGLAS R. KABELL**, Wichita Falls, TX  
 DISSERTATION: Caring and the Ethic of Caring: Exploring the Connection and Importance in the Counseling Relationship  
 MAJOR PROFESSOR: Loretta Bradley

**JIAQI LI**, Anshan, China  
 DISSERTATION: Examining the Relationship between Chinese International Students' Acculturation, Ethnic Identity, Language Proficiency, and Their Attitudes toward Seeking Professional Counseling Services.  
 MAJOR PROFESSOR: Aretha Marbley

#### CURRICULUM AND INSTRUCTION

**DANA LORRAINE BELL**  
 DISSERTATION: The Experiences of Blended Online Distance Education Facilitators in a Credit Recovery Environment: A Qualitative Study  
 MAJOR PROFESSOR: Peggy Johnson

#### DAN VAN DAO

DISSERTATION: Using Social Media Sites in Online Teaching and Learning Activities to Facilitate Students' Learning Autonomy: A Case Study  
 MAJOR PROFESSOR: Peggie Price

**ELIZABETH ANN GARCIA**, Hereford, TX  
 DISSERTATION: Informing Adolescent Literacy Practices and Preferences by Using Popular, Contemporary Series Books in the Young Adult Genre: A Narrative Inquiry Study  
 MAJOR PROFESSOR: Sally McMillan

**NICHOLAS JOHN SANTAVICCA**, Florence, KY  
 DISSERTATION: Understanding the ESL Stigma in International Classrooms: Participation, Performativity, and Identity (Re) Construction in Second Language Acquisition  
 MAJOR PROFESSOR: Zenaida Aguirre

**TASHA ANNE VICE**, Portales, NM  
 DISSERTATION: Illuminating Teaching and Learning: Students' Metacognition and Teacher Responsiveness in One College Developmental Reading Class  
 MAJOR PROFESSOR: Carole Janisch

#### ELECTRICAL ENGINEERING

**DAVID VINCENT REALE**, Southwick, MA  
 DISSERTATION: Coaxial Ferrimagnetic-Based Gyromagnetic Nonlinear Transmission Lines as Compact High Power Microwave Sources  
 MAJOR PROFESSOR: John Mankowski

#### ENGLISH

**ELIZABETH LEIGH BONDS**, Greensboro, AL  
 DISSERTATION: "The Darling of Fame": Mary Robinson, Literary Celebrity, and the 1790s Book Market  
 MAJOR PROFESSOR: Ann Hawkins

**CHRISTOPHER KENNETH SHAW** (In absentia)  
 DISSERTATION: Some (Re)Assembly Required: Logic, Deconstruction, and Pynchon's Postmodern Literature  
 MAJOR PROFESSOR: Bruce Clarke

#### ENVIRONMENTAL TOXICOLOGY

**SUDHEER JINKA**, Pulivendla, India  
 DISSERTATION: Plasma Treatment of Nonwoven Fabrics  
 MAJOR PROFESSOR: Seshadri Ramkumar

**MURALIDHAR LALAGIRI**, Godavarikhani, India  
 DISSERTATION: Developing and Testing of Micro and Nano Fiber Media for Air Filtration Applications  
 MAJOR PROFESSOR: Seshadri Ramkumar

#### FINE ARTS

**MARLA KAY BRITTON-JOHNSON**, Froid, MT  
 DISSERTATION: The Effect of Americanization on the Dramatic Representation of Nazi Aufseherinnen (Female Camp Guards)  
 MAJOR PROFESSOR: Dorothy Chansky

## GRADUATE CANDIDATES

### BODHISATTVA CHANDA

DISSERTATION: Acting in the Courtroom: A Qualitative Study of the Utilization of Keith Johnstone's Status Transactions in Attorney Voir Dire Training  
MAJOR PROFESSOR: Bill Gelber

### SHARI WATTERSTON ELLSWORTH, Nacogdoches, TX

DISSERTATION: Directing Lillian Hellman's *The Children's Hour* for Today's Society and Its Contemporary Relevance: A Professional Problem Dissertation  
MAJOR PROFESSOR: James Bush

### JEFFREY S. SCOTT, Bandera, TX

DISSERTATION: Interfaces of Improvisation in the Theatre  
MAJOR PROFESSOR: James Bush

### RICHARD ERNEST ST. PETER, Newport News, VA (In absentia)

DISSERTATION: Schemes and Dreams: Harley Granville Barker and the Quest for an English National Theatre  
MAJOR PROFESSOR: Bill Gelber

### JEREMY W. WHITE

DISSERTATION: The Anti-Hero as Social Critic: Two Original Scripts  
MAJOR PROFESSOR: Norman Bert

### FISHERIES SCIENCE

#### MATTHEW MARK VANLANDEGHEM, Batavia, IL

DISSERTATION: Environmental Factors Regulating Toxic Blooms of Golden Alga (*Prymnesium parvum*) and Their Effects on Fisheries Resources  
MAJOR PROFESSOR: Reynaldo Patino

### GEOSCIENCES

#### FRANCES NICOLE REYNAUD PEAHEY, Billings, MT

DISSERTATION: Review, Revision, and Paleobiogeography of Ludlow (Silurian) to Lochkovian (Devonian) Spathognathodontid Conodont Taxa  
MAJOR PROFESSOR: Jim Barrick

### HIGHER EDUCATION—HIGHER EDUCATION RESEARCH

#### DANIELLE JOSEPHINE MORRISON, South Sioux City, NE (In absentia)

DISSERTATION: An Artful Perspective: An Examination of the Self-Perceptions of Probationary Students Returning from Academic Suspension  
MAJOR PROFESSOR: Stephanie Jones

### ERIKA MARIE WARNICK, Lubbock, TX

DISSERTATION: College and University Recruiting of "Employees Who Study" with Access to Tuition Assistance Benefits Programs: A Qualitative Inquiry  
MAJOR PROFESSOR: Stephanie Jones

### HISTORY

#### JUAN DAVID CORONADO, Edinburg, TX

DISSERTATION: "I'm Not Gonna Die in This Damn Place": Manliness, Identity, and Survival of the Mexican American Vietnam POW  
MAJOR PROFESSOR: Jorge Iber

#### JENNIFER ANGELITA TORRES, Simi Valley, CA

DISSERTATION: "T'was Here with Bloody Feet with Scarcely Food to Eat": The Memory of Valley Forge in American Culture 1778-1878  
MAJOR PROFESSOR: Gretchen Adams

### HUMAN DEVELOPMENT AND FAMILY STUDIES

#### EMILIA KRISTA BARON, Roseau, Dominica

DISSERTATION: Tracking Resistance over Time: A Follow-Up Study with Adolescents in an All-Girl Middle School  
MAJOR PROFESSOR: Nancy Bell

#### JENNIFER JOYCE ROSS

DISSERTATION: Maternal Caregiving Behaviors and Infant Attachment Security: Exploring the Influence of Social-Contextual Factors on Mexican-American Mother-Child Relationships  
MAJOR PROFESSOR: Yvonne Caldera

### INDUSTRIAL ENGINEERING

#### MONSURU OLALEKAN RAMONI, Ibadan, Nigeria

DISSERTATION: Laser Surface Cleaning-Based Method for Electric Vehicle Battery Remanufacturing  
MAJOR PROFESSOR: Hong Chao Zhang

### INTERIOR AND ENVIRONMENTAL DESIGN

#### ANGELA BOURNE, London, Canada

DISSERTATION: Neuro-Considerate Environments for Adults with Intellectual and Developmental Diversities: An Integrated Design Approach to Support Wellbeing  
MAJOR PROFESSOR: Kristi Gaines

### MARRIAGE AND FAMILY THERAPY

#### AMANDA GAIL SZARZYNSKI, Lubbock, TX

DISSERTATION: Associations between Perceptions of Military Stressors, Mental Health, and Marital Adjustment in Military Spouses  
MAJOR PROFESSOR: Douglas Smith

### MASS COMMUNICATIONS

#### JEROD WADE FOSTER, Lubbock, TX

DISSERTATION: Oldenburg's Great Good Places Online: Assessing the Potential for Social Network Sites to Serve as Third Places  
MAJOR PROFESSOR: Todd Chambers

### MECHANICAL ENGINEERING

#### OLIVER KASONGO MULAMBA

DISSERTATION: Assessing Effects of Oxidizer Characteristics on Composite Reaction Kinetics  
MAJOR PROFESSOR: Michelle Pantoya

#### DUC HONG PHAM, Houston, TX

DISSERTATION: Accurate Simulation of Elastic and Acoustic Wave Propagation Problems by Linear Finite Elements with Reduced Dispersion and Explicit Time-Integration Methods  
MAJOR PROFESSOR: Alexander Idesman

### NUTRITIONAL SCIENCES

#### NAVYA GURAJADA, Hyderabad, India

DISSERTATION: JUMP2HEALTH – A Web-Based Approach for Nutrition Education of Parents to Provide a Non-Obesogenic Environment for Preschool Children  
MAJOR PROFESSOR: Debra Reed

#### SHANNON MICHELLE OWENS, Lubbock, TX

DISSERTATION: The Use of a Once Oral Monthly Ergocalciferol Supplement to Improve Serum 25(OH) D Levels in Bariatric Surgery Subjects  
MAJOR PROFESSOR: Mallory Boylan

#### ALI M. POHLMEIER, Plainview, TX

DISSERTATION: Effect of a Low Insulinemic Diet on Clinical, Biochemical, and Metabolic Outcomes in Women with Polycystic Ovary Syndrome (PCOS).  
MAJOR PROFESSOR: Mallory Boylan

#### HADIL S. SUBIH, Lubbock, TX

DISSERTATION: Impact of Monthly High Dose Oral Cholecalciferol on Serum 25 Hydroxy Vitamin D Levels in Bariatric Surgery Subjects  
MAJOR PROFESSOR: Mallory Boylan

### PERSONAL FINANCIAL PLANNING

#### CHRISTOPHER MICHAEL BROWNING, Seminole, TX

DISSERTATION: Managing Retirement Resources: Evidence from the HRS  
MAJOR PROFESSOR: Michael Finke

### PETROLEUM ENGINEERING

#### ABDULLAH ALI A AL-NAJEM, Al-Taraf, Saudi Arabia

DISSERTATION: A Streamlines Based Multivariate Regression Model to Quantify the Impact of Reservoir Heterogeneity on Ultimate Recovery  
MAJOR PROFESSOR: Mohamed Soliman

### PLANT AND SOIL SCIENCE

#### ROJI MANANDHAR

DISSERTATION: Importance of Cotton Fiber Maturity for Cotton Processing  
MAJOR PROFESSOR: Eric Hequet



**RAJEEV RAJBHANDARI**

DISSERTATION: Parameters Affecting Dye-Uptake of Cotton Fibers  
MAJOR PROFESSOR: Nouredine Abidi

**POLITICAL SCIENCE**

**SIRIVALAYA KACHATHAN**, Nakhonsawan, Thailand  
DISSERTATION: International Democracy Assistance: Assessing Its Impact and Effectiveness  
MAJOR PROFESSOR: Dennis Patterson

**PSYCHOLOGY-COUNSELING PSYCHOLOGY**

**MATTHEW W. ASHTON**, Provo, UT (In absentia)  
DISSERTATION: Career Adaptability in Emerging Adults: A Foundation of Personal Growth  
MAJOR PROFESSOR: Chris Robitschek

**ANDREW N. FRIEDMAN**, Bellaire, TX

DISSERTATION: Bread Losers: An Investigation on the Effects of Employment Status and Socioeconomic Status on Male Gender Role Conflict and Depressive Symptoms  
MAJOR PROFESSOR: Steven Richards

**SPECIAL EDUCATION**

**LEIGH KACKLEY SMITH**, Lubbock, TX  
DISSERTATION: Progression in the General Reading Curriculum by Elementary Students Who Are Deaf or Hard of Hearing  
MAJOR PROFESSOR: Roseanna Davidson

**SYSTEMS AND ENGINEERING MANAGEMENT**

**JAIME CANTU**, Raymondville, TX  
DISSERTATION: A Systems Model of Similarities between Cotton and Lumber Futures: An Economic Isomorphological Comparison  
MAJOR PROFESSOR: Mario Beruvides

**STEPHEN M. PETERSON**, Lubbock, TX

DISSERTATION: A Study of the Effect of Functional Relationships in Discrete Event Programming  
MAJOR PROFESSOR: Milton Smith

**TECHNICAL COMMUNICATION AND RHETORIC**

**CHRISTOPHER DAVID MICHAEL ANDREWS**, Abilene, TX  
DISSERTATION: Composing Technology: A Critical Rhetorical Analysis of Doxa on the Writing Program Administrators LISTSERV  
MAJOR PROFESSOR: Fred Kemp

**KRISTI LEIGH DUNKS**, Butte, MT

DISSERTATION: Reports, Recommendations, and Retellings: Communicating Aircraft Accidents and the Rhetorics of Safety  
MAJOR PROFESSOR: Sam Dragga

**LETITIA HARDING**, San Antonio, TX

DISSERTATION: The Power of Images in Global Climate Change Discourse: A Critical Visual Rhetorical Analysis of "Our Changing Planet"  
MAJOR PROFESSOR: Miles Kimball

**RHONDA JEANETTE STANTON**, Bolivar, MO

DISSERTATION: Multigenerational Defined as Multicultural: A New Framework and the Implications for Industry and Academia  
MAJOR PROFESSOR: Brian Still

**MASTER OF AGRIBUSINESS****COOPER DON COGDILL**, Silverton, TX

**LEVI ALAN SCHAEFER**, Garden City, TX (In absentia)

**MASTER OF AGRICULTURE**

**JENNIFER DAWN MARTIN**, Spur, TX

**MASTER OF ARCHITECTURE****STEVEN BRADLEY ARNOLD**, San Antonio, TX

**CHANNING M. BRAUN**, The Woodlands, TX  
**HARRIS WILLIAM BRIGGS**, Dallas, TX  
**EMMANUEL CASTRELLON**, Midland, TX  
**SERGIO ANDRES DeJESUS** (In absentia)  
**KAITLYN ELIZABETH FARQUHAR**, Murphy, TX  
**ERNESTO FLORES MARTINEZ**, Houston, TX  
**KAYLA ANNE FOX**  
**RAUL I. GUERRERO**, El Paso, TX  
**STEPHANIE ANN HALL**, Liberty Hill, TX  
**CYNTHIA MICHELLE HELMS**, Tallahassee, FL (In absentia)  
**ZACHARY BARRET MITCHELL**, Richmond, TX  
**PAOLA MUNIZ-GARCIA**, Ciudad Juarez, Mexico  
**DANIEL NUNEZ**, El Paso, TX  
**JOSHUA WILSON PAPE**, Oak Leaf, TX  
**MORGAN NICOLE SCOTT**, Lubbock, TX  
**MATT LUCAS VACLAVIK**, Austin, TX (In absentia)  
**VANESSA S. VALERIANO**, Pecos, TX  
**LUIS MIGUEL VELASCO**, Crane, TX

**MASTER OF ARTS****APPLIED LINGUISTICS**

**SAMEERA A. ALQAHTANI**, Dammam, Saudi Arabia  
**ROSA ADRIANA RODRIGUEZ**, Amarillo, TX  
**JACQUELYN L. SCRIVENER**, Austin, TX

**COMMUNICATION STUDIES**

**APRIL L. COVINGTON**, Houston, TX  
**LA TASHA NICOLE FOWLER** (In absentia)  
**SETH LEE PHILLIPS**, Tyler, TX

**ECONOMICS**

**LAUREN TEALE HIGHSMITH** (In absentia)  
THESIS: Unconventional Monetary Policy: An Attempt to Boost Economic Recovery

**ENGLISH**

**JOHN WILLIAM PEERY**, Roanoke, VA (In absentia)

**GERMAN**

**DENNY BERNDT**, Magdeburg, Germany

**HISTORY**

**LEAH E. BLACKWELL** (In absentia)  
**KATELIN ANNE DIXON**, Lubbock, TX  
THESIS: Perfecting Perfection: An Analysis of the Redefinition of Franciscan Identity and the Concept of Evangelical Perfection in the Mid-Thirteenth Century  
**STEPHEN M. PATTERSON**, La Verne, CA

**INTERDISCIPLINARY STUDIES**

**RICKY JOSEPH HEWELL**, Flower Mound, TX  
**BRUCE LEE SONNENBERG**, Lubbock, TX  
**HEATHER LENE THOMAS**

**MASS COMMUNICATIONS**

**AMY R. BREWER**, Ennis, TX  
**KAITLYN DANAE CENNAMO**, Keller, TX  
**PEREASHA TAVAYOR COY**, Dallas, TX  
**SAMANTHA CAVANAUGH DAGGETT**, Keller, TX  
**LEE MICHAEL GREEN**, Alief, TX  
**DARCY ELLEN HASSLER**, Stephenville, TX (In absentia)  
**AMY CHRISTINE HATCHER**, Pleasanton, TX  
**STEVEN D. HEFLIN**, Carrollton, TX  
**BERKLEY KALYN IDEN**, Big Spring, TX  
**RACHEL ELIZABETH PAGE**  
THESIS: What We Tweet About in Chaos: Framing, Twitter, and the 2012 Aurora Massacre  
**BRANDAN MICHAEL SCHRADER**, Austin, TX  
THESIS: The Influence of Subjective Knowledge on Responses to Fear Appeal Messages  
**ALEXANDRA SPRINKLES**, Grand Prairie, TX (In absentia)  
**ERICA NATALIE TAYLOR**, Houston, TX

**MUSEUM SCIENCE**

**SARAH CAITLIN BIRDWELL**, Abilene, TX  
**AMANDA LEIGH BROWN**, San Antonio, TX  
**JENNA S. CRENSHAW**, Gordon, TX  
**AMY NICOLE DOVERSPIKE**, Odessa, TX  
**JESSICA ANN GARCIA**, Amarillo, TX  
**REBECCA CHRISTINE MILLHAM**, Wichita, KS  
**JOSHUA ULAN EDEL THACKER**, Houston, TX

**PHILOSOPHY**

**THOMAS EUGENE NOAH** (In absentia)

**POLITICAL SCIENCE**

**GABRIELLA MARIA DOMINGUEZ**, Chilton, TX

**PSYCHOLOGY**

**KELSEY R. CAMPION**, St. Paul, MN (In absentia)  
**MELANIE OLIVAS LONGHURST**, El Paso, TX (In absentia)  
**RYAN LEE STACY**, Belton, TX  
**NATHANIEL J. TAYLOR**

## GRADUATE CANDIDATES

### ROMANCE LANGUAGES

GAYLE JEFFERS, Charlestown, Saint Kitts and Nevis  
ALBERTO MARIO PEREZ MARTINEZ, Barranquilla, Colombia  
JANET AVANTI VAZQUEZ, Lawton, OK

### SOCIOLOGY

MARTHA LYNN BULL, Austin, TX (In absentia)  
THESIS: The Process of Defining and Identifying  
Intimate Partner Sexual Abuse: A Qualitative  
Analysis

### TECHNICAL COMMUNICATION

GAY LYNN PONDER, Houston, TX  
JULIE DAVIDSON WISEMAN, Midland, TX

### MASTER OF ARTS EDUCATION

VICTORIA MARIE BEE (In absentia)  
SUZANNE MARTIN McCOMACK, Fredericksburg, TX

### MASTER OF BUSINESS ADMINISTRATION

#### GENERAL BUSINESS

MANUEL VALDEZ AYALA (In absentia)  
EDGARD A. BADINE  
NANCY MATOS BAEZ, Lubbock, TX  
LEMA BARAZI, Houston, TX (In absentia)  
WILLIAM HENRY BARFIELD, Houston, TX (In absentia)  
CHANNING M. BRAUN, The Woodlands, TX  
ITOYA COLLINS, Austin, TX  
KATHRYN JOANN KING, Lubbock, TX  
JAMES LANDON KNIPE, Midland, TX  
RYAN LEE KOOG, Brackettville, TX  
KODY ANDREW LUCHERK, Poth, TX  
STACY LEMERE McBETH  
ALAN W. POWELL, El Paso, TX  
JAMES N. PRICE, Lubbock, TX  
LOGAN S. PRITCHETT  
JOHN ALAN PRUITT (In absentia)  
MALLORY GAYLE SCHENK  
MORGAN NICOLE SCOTT, Lubbock, TX  
KRISTINE K. SEAMAN, Waller, TX (In absentia)  
JASON SCOTT SHADDEN, Sugar Land, TX  
BIBEK SHRESTHA, Dang, Nepal  
GREGORY WAYNE STEVENS  
SPENCER JAMES TATARCO, Bedford, TX  
WILLIAM TRAVIS WEST  
DALE LYNN WILSON, Midland, TX  
MELISSA E. WILSON, Fresno, TX (In absentia)

### MASTER OF EDUCATION

#### BILINGUAL EDUCATION

MARIA GUADALUPE BRITO, Lubbock, TX  
JULIA FELIPA GUERRERO, Olton, TX  
BRENDA LEE RITCHEY, Shallowater, TX

### COUNSELOR EDUCATION

KARLA KASSANDRA BAUMANN, Richardson, TX  
HAYLEE MYREE DILL, Brownfield, TX  
ANN MARIE REID FENTON, Dallas, TX  
ANGELA BATTEN GAUNTT, Lubbock, TX  
ROSEMARY JEAN LOCKARD, Baytown, TX  
JENNIFER ANN PETERSEN, Lubbock, TX  
ALLISON LORRAINE PIRPICH, Garland, TX  
ALICIA COLLEEN ROBERTSON, Lubbock, TX  
EULINA E. SMITH, Lubbock, TX  
LOGAN BROOKE WINKELMAN, Pampa, TX

### CURRICULUM AND INSTRUCTION

ANNE MARIE DAVIS  
VALERIA HERNANDEZ, Lubbock, TX

### EDUCATIONAL LEADERSHIP

BRENDA SUE DRISCOLL

### ELEMENTARY EDUCATION

SHAWNA MARIE BATISTA, Lubbock, TX  
BRANDY NICOLE GAYLE, Plains, TX  
ALISON ELIZABETH HAYES, Allen, TX  
RACHEL E. PARKER, Pampa, TX  
PRITI A. PATEL, Amarillo, TX  
MARIA D. RUVALCABA (MARTINEZ), Lubbock, TX  
ALEXANDRIA NICOL SAULNIER, Murphy, TX  
TARA PAULINE WILLIAMS, Lubbock, TX

### HIGHER EDUCATION

FARHA S. HABEEB  
PATRICIA RODRIGUEZ, Amarillo, TX

### INSTRUCTIONAL TECHNOLOGY

STEPHANIE ANN AREHART, Rowlett, TX  
BRANDI NICHOLE BATTEN, Arlington, TX (In absentia)  
CRYSTAL MARIE MARES, San Antonio, TX (In absentia)  
JENNIFER WINDSOR SMITH, The Woodlands, TX  
CRYSTAL YVETTE SPELIC, Midland, TX  
TRACEY L. STEWART (In absentia)

### LANGUAGE LITERACY EDUCATION

CARISSA KAY AUTRY, Amarillo, TX  
CRYSTAL DAWN BURKE, Lubbock, TX  
CARI LYN CARTER, Lamesa, TX  
BROOKE ANN GARTH, Lubbock, TX (In absentia)  
KIMBERLY MICHAELA LEACH (In absentia)  
MATTI ALEXANDRA MILLER, Lubbock, TX  
ANGELA SOPHIA PEREA, Lubbock, TX  
AMANDA NICOLE ALLEY PLINARIO  
THESIS: An Investigation of Early Literacy  
Services Available for Preschoolers Who  
Qualify for Early Childhood Intervention  
CASSANDRA A. SHAVER

### SECONDARY EDUCATION

ARMAND VAUGHN BROUTY, Candor, NY  
MARGARET ELIZABETH RATTAN

### SPECIAL EDUCATION

CAROL MICHELLE BARTON, Wichita Falls, TX  
KIMBERLY E. BAYLISS, Houston, TX  
MELINDA MAY BIRD, Big Spring, TX  
JAMES R. CUNNINGHAM, Riverton, WY (In absentia)  
SUMMER LEE ERSKINE, Houston, TX (In absentia)  
KATHERN ANN FINK, Amarillo, TX  
LAUREN H. FRANKLIN, Corsicana, TX (In absentia)  
VICTORIA I. GARZA-RODRIGUEZ, Mercedes, TX  
(In absentia)  
WHITNEY ANNE HELLUMS, McAllen, TX  
NICOLE SUZANNE JONES (In absentia)  
ALICE I. KELLER, Boerne, TX  
LISA E. KEMP-STEWART, Dallas, TX (In absentia)  
CORTNI SHAY MCKAY, Lubbock, TX  
TIFFANY ROSE O'NEILL MENZEL  
STEPHANIE JANET MOUNGER (In absentia)  
PRITI A. PATEL, Amarillo, TX  
KIMBERLY BETH RINDLISBACHER, Lubbock, TX  
COURTNEY TREVINO RODRIGUEZ, The Woodlands, TX  
DEBORAH CUMMINS ROTH, The Woodlands, TX  
MICHELLE FRANCIS SEXTON (In absentia)  
BRITT WAYNE SIMS, Canyon, TX (In absentia)  
SHANA D. SMITH, San Angelo, TX  
CANDACE MARIE MAGGIORA VASQUEZ, Cameron Park, CA  
KRISTI A. WATSON, Groesbeck, TX  
TIFFANY ELISE WILLIAMS-BATTLE (In absentia)

### MASTER OF FINE ARTS

#### THEATRE ARTS

MAIGAN JANE MCPHERSON, Atoka, OK  
CHELSEA DANIELLE PRETTYMAN, Joplin, MO  
PETER JOSEPH SMITH

### MASTER OF LANDSCAPE ARCHITECTURE

KYLEE JERE CUMBY, Lubbock, TX  
THESIS: Ecological Restoration: A Remedial  
Design for a Petroleum Contaminated Site  
Near Levelland, Texas

### MASTER OF MUSIC

MELODY GAYLE FRIED (In absentia)  
TYLER JUSTIN HUGHES  
THESIS: The Thoreau Teasdale Cycle  
LUIS FERNANDO RAYO, Torres, Brazil  
JOHN WESLEY WENZEL, Evansville, IN

### MASTER OF PUBLIC ADMINISTRATION

SUDESHNA BHATTACHARYYA, Calcutta, India  
(In absentia)  
AUSTIN M. CARRIZALES, Lubbock, TX (In absentia)  
MATTHEW T. ELLIOTT, Atlanta, TX  
RACHEL A. HARALSON, Nocona, TX  
LEAH DENELL SMITH, Lubbock, TX (In absentia)



## MASTER OF SCIENCE

## AGRICULTURAL AND APPLIED ECONOMICS

TURKER DOGRUER (In absentia)

## AGRICULTURAL COMMUNICATIONS

AMANDA INEZ GARCIA, Woodlake, CA

THESIS: Developing Recruitment Messages for Potential Hispanic Students

NELLIE LYNN HILL, Pilsen, KS

THESIS: A Social Network Analysis of Texas Alliance for Water Conservation Producers

WILLIAM LEE NELSON (In absentia)

THESIS: An Examination of the International Federation of Agricultural Journalists' Involvement in Agriculture Knowledge Transfer

SHAWNA MICHELE NEWSOME, Riverview, FL

THESIS: An Analysis of Organizational Climate and Food Safety in a Federally Inspected Beef Packing Plant in Veracruz, Mexico

## AGRICULTURAL EDUCATION

HOLLY ANN HUNNICUTT, Aubrey, TX

KENDAL LYNN WALTERS (In absentia)

## ANIMAL SCIENCES

KARA ELIZABETH ANDREWS

TANGELA ARANT IRWIN, Levelland, TX

THESIS: The Benefits of Therapeutic Riding for Children with Autism Spectrum Disorders

## ATMOSPHERIC SCIENCE

MICHAEL ARTHUR HOLLAN, Bismarck, ND

THESIS: Ensemble Mean Storm-Scale Performance in the Presence of Nonlinearity and Best Member Techniques for Improved Prediction

TIMOTHY SHAWN SLIWINSKI, Luling, LA

THESIS: Convective Cloud Development Prior to Deep Moist Convection Initiation within WRF-LES

## BUSINESS ADMINISTRATION

KATHLEEN ANNE LONGI, San Antonio, TX

JAMES N. PRICE, Lubbock, TX

KEITH W. TRENT

WILLIAM TRAVIS WEST

## CHEMISTRY

LANCE JEFFREY ADAMS, Humble, TX

THESIS: Kinetic and Thermodynamic Studies of the Sterol C24-Methyltransferase from *Chlamydomonas reinhardtii* and Its Evolutionary Implications

DREW T. BRANDON, Lubbock, TX (In absentia)

THESIS: Accurate Calculations of Rovibrational Bound States for Argon Trimer Using *ScalIT*

MAY YI CHOU, Midland, TX

THESIS: Soil Bacterium *Bacillus subtilis* (GB03) Augments Plant Growth and Volatile Emissions in *Eruca sativa* (Arugula)

KAYLA DIANE MENDOZA, Pampa, TX

THESIS: Measurement of Ultraslow Rotational Dynamics of Probes in Imidazolium-Based Ionic Liquids Near and Below the Glass Transition Temperature: Studying the Role of Structural Heterogeneity in Dynamic Heterogeneity

## COMPUTER SCIENCE

ABISHEK KAR RAMACHANDRAN, Chennai, India

SUDEEPTHA RANGANATH RUDRAPATTANA, Bangalore, India

THESIS: Cyber-Security Analysis in Smart Grid SCADA Systems: A Game Theoretic Approach

NAVANEETHA KRISHNAN THIAGARAJAN,

Tiruvarur, India

## ENVIRONMENTAL DESIGN

MONICA LYNN ARCHULETA, Albuquerque, NM

HESSAM GHAMARI

EMILY ANN SPAULDING, Mansfield, TX

## ENVIRONMENTAL TOXICOLOGY

CATHERINE ELIZABETH BAXTER, Eagle Pass, TX

THESIS: Survey of Organochlorine Pesticides in Northern Bobwhite (*Colinus virginianus*) and Scaled Quail (*Callipepla squamata*) from the Rolling Plains Ecoregion of Texas and Oklahoma

REBECCA JORDAN PEZDEK, Brookfield, IL

THESIS: Alkoxyresorufin-O-dealkylation Assay Optimization and Application in Reptilian and Avian Chorioallantoic Membranes

## EXERCISE AND SPORT SCIENCES

ZACHARY BERGQUIST, Henrietta, TX

LOGAN T. BROWN, Little Elm, TX

NICHOLAS COLEMAN GARDNER, Amarillo, TX

GARY J. GATES, Shallowater, TX

JEFF LAW, Iowa City, IA

WANSEOK LEE

THESIS: The Akt/FoxO3a/Atrogin-1 Signaling Pathways Underlying Cardiac Regression After Detraining in a Mouse Heart

IBRAHIM K. MUNAYER, San Francisco, CA

PARIJAT KUMAR (In absentia)

MORGAN CLARKE SLOAN, Houston, TX

DaSHAE ANN TOLLESON, McLean, TX

HEATHER MARIE WHITE, Annapolis, MD (In absentia)

DUSTIN N. WIMMER, Muenster, TX (In absentia)

## FISHERIES SCIENCE

JILLIAN R. GROESCHEL, Wausau, WI (In absentia)

THESIS: Evaluations of the Growth and Habitat Use of Guadalupe Bass at a Riverscape Scale in the South Llano River, Texas

## FOOD SCIENCE

ABDOLLAH KHODAMMOHAMMADI (In absentia)

THESIS: Inhibition of *Listeria monocytogenes* in Ready-to-Eat Meats with Lactic Acid Bacteria

## FORENSIC SCIENCE

OSCAR ROSALES, JR., Lubbock, TX

THESIS: The Effect of NAFTA in Crime

AMBER RENEE TALLAS

## GEOGRAPHY

SAMANEH BADROGHILI-TABRIZI (In absentia)

THESIS: Accuracy of National Hydrography Dataset for Doe Mountain, TN

## GEOSCIENCES

XINWEI HUANG

THESIS: Uncertainty Analysis of P-Wave Receiver Functions

JACOB W. LEADER, Edina, MN

THESIS: Microstructural Analysis of Hole 735B, Atlantis Bank, Southwest Indian Ridge: Reevaluation of High Temperature Fabric Development

ANN PROSKE, Giddings, TX (In absentia)

THESIS: Conodont Biostratigraphy of Lower Mississippian Strata, San Andres Mountains, New Mexico

JESSICA C. QUINTANILLA

THESIS: Hydro-Geochemical Study of Urban Man-Made Lakes (Jim Bertram Lake System) in Lubbock, Texas

JACOB A. VAN VELDHIJZEN (In absentia)

THESIS: Anatomy and Locomotion of *Pterodactylus* (Archosauria: Pterosauria) from the Late Jurassic Solnhofen Formation of Germany

## HORTICULTURE

CHRISTY MARIE MORGAN (In absentia)

## HOSPITALITY AND RETAIL MANAGEMENT

DEDE LOUISE BARBER

THESIS: Renaissance Faires and Festivals: Motivations and Perceived Value of Visitors to a Small Texas Faire

PATRICK TANNER BUBENIK, Wall, TX

WILLIAM HENRY D'ALESSANDRO

HALIE KRISTENE DAVID, Amarillo, TX

THESIS: Retail Personality: Tweens' Perception of Specific Retail Stores

TAYLOR BRIANNE FIELDS, Abilene, TX

THESIS: The Influence of Cause-Related Marketing on Consumer Behavior: Does the Cause Matter?

## HUMAN DEVELOPMENT AND FAMILY STUDIES

JENNIFER K. HARRIS

THESIS: Maternal Sensitivity: Influences on the Resolution of Jealousy Protest

IRENE MARGARET TEESDALE, Penn Yan, NY

## GRADUATE CANDIDATES

### INTERDISCIPLINARY STUDIES

BENITA MARLENE DIX, Lubbock, TX  
BERNADETTE MARIE CAVAZOS, Corpus Christi, TX  
JAYARAMAN GANESHMANI, Mumbai, India  
ROMAR ALEXANDRA GONZALEZ LUIS  
KRISTEN ELAINE KATO, El Paso, TX  
TASHA N. MERCHANT  
TOMÁS C. QUINTERO (In absentia)  
RAVI PRATAP SINGH, Roorkee, India (In absentia)  
EULINA E. SMITH, Lubbock, TX  
KAREN SUZANNE TARARA, Rochester, MN (In absentia)  
JUIWANOR LOU WEST, Lubbock, TX

### MANAGEMENT INFORMATION SYSTEMS

VINAYAK SIDDHESHWAR KANAGI, Solapur, India  
(In absentia)  
SCOTT ANDREW SIGMUND, Coppell, TX

### MATHEMATICS

POOYA ALMASI (In absentia)  
THESIS: A Jump-Diffusion Stochastic Differential Equation Model for Insurance in Risk-Sharing Villages  
THANUKA HANSAMEENU WIJENAYAKA PATHIRANAGE  
THESIS: Error Analysis for Harmonic Tracking Algorithm Using Geometric Control

### MICROBIOLOGY

SOUMYA MOHANA SUNDARAM, Chennai, India

### NUTRITIONAL SCIENCES

VICTORIA ASHLEY CRAWFORD, San Antonio, TX  
MEGAN LEE HOLMBERG (In absentia)  
KACY R. LARVIN, Katy, TX (In absentia)  
LAUREN THERESE REAGAN, Lubbock, TX

### PERSONAL FINANCIAL PLANNING

KYLE DOUGLAS GRABENSTETTER, South Elgin, IL  
SCOTT MICHAEL LEJEUNE, Austin, TX  
ANNA BIANCA MACHI  
PAULINA VELOZ, El Paso, TX  
CAREY ALLISON YEARY, Lampasas, TX

### PHYSICS

MICHAEL CHRISTOPHER HOLCOMB, Farmers Branch, TX

### PLANT AND SOIL SCIENCE

SUMEDHA PRIVADARSHANI LIYANAGE, Kegalle, Sri Lanka  
THESIS: Chemical and Physical Characterization of Guar Galactomannan Extracted from Guar Seeds  
MAHESHIKA U. MANIKE HERATH MUDIYANSELAGE  
THESIS: Structure and Organization of Cotton Cellulose Investigated by X-Ray Diffraction and Fourier Transform Infrared Spectroscopy  
CURTIS R. SCHAEFER, Adel, IA  
THESIS: Effects of Multiple Yield Environments on Relative Cotton Maturity

### STATISTICS

BO LI (In absentia)  
THESIS: A Review of Some Parametric and Non-Parametric Statistical Methods on cDNA Microarray Data Analysis  
XUYAO LIN (In absentia)  
ROSHAN THILAKARATHNE  
THESIS: Statistical Inferences Based on Rank Estimation

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

WILLIAM JARRAD DAVIS  
THESIS: Shin-oak (*Quercus havardii*, Rydb.; Fagaceae) Rhizome Shoot Production: Possibilities for Use in Restoration  
HENRY BEALL HUNTER (In absentia)  
NATASCHA MARIA DESIREE ISRAEL, Haarlem, Netherlands  
THESIS: Surface Water Quality in the Pecos River Basin: Associations with Golden Alga Presence and Unplugged Oil/Gas Well Densities

### ZOOLOGY

DOUGLAS W. KNABE, Muenster, TX (In absentia)  
THESIS: Reproductive Ecology of Red Shiner *Cyprinella lutrensis* in the Brazos River, Texas

## MASTER OF SCIENCE IN ACCOUNTING

IZA MARIA ACOSTA, Eagle Pass, TX  
RICARDO ALVIDREZ, Seminole, TX  
AMY NICOLE ANDERSON, Farmersville, TX  
HUNTER S. ATCHISON, Austin, TX  
NEAL ALLYN BONNET, Kingwood, TX  
DAVID WAYNE BROWNHILL, Highland Village, TX  
BALEIGH D'YON BUTLER, Midland, TX  
STEVEN KYLE CANNON, Rowlett, TX (In absentia)  
SEAN SCOTT COLLIER (In absentia)  
JENNIFER LYNN CRAWFORD, Boerne, TX  
DANIEL STEWARD DAVIDSON, Snyder, TX  
ERIN ELIZABETH DOYLE, Texas City, TX  
JAMES WARREN DRYSDALE (In absentia)  
AMY CATHERINE ENGEL, San Angelo, TX  
WENDY MICHELL ESCOBAR, Plainview, TX  
KYLE WILLIAM GABBERT, Aledo, TX  
JACLYN ELIZABETH HARDY, Austin, TX  
ASHTON LEE HAYNES, Monahans, TX  
LAUREN MICHELLE HEBERT, La Porte, TX  
TYLER KYLE HORN (In absentia)  
CODY MILES HOUSE, New Braunfels, TX  
ASHLEY LYNN HUNTER, Conroe, TX  
KATHRYN MARIE LACOUME, Flower Mound, TX  
RYAN DAVID MARCUM  
BRETTON COKER MARTIN, Dallas, TX  
CHARLES BRENT MAYBERRY, San Antonio, TX

CAROLINE RANKIN McCLARY, Katy, TX  
KRYSTA K. McKINNON, Midlothian, TX  
ANDREA LEE MORGAN, Wichita, KS  
CHRIS FULLER NESMITH, Coppell, TX  
MAKAILA A. NZERE, McKinney, TX  
SARAH MICHELLE QURESHI, Lubbock, TX  
TRAVIS FAIN REYNOLDS, Arlington, TX  
VICTORIA YVONNE RICKETTS, McKinney, TX  
DAVID JOSEPH ROBINSON, San Angelo, TX  
CHRISTIAN THOMAS SANFORD, Flower Mound, TX  
ALLYSSA JOURDAN SHANNON, Arlington, TX  
THOMAS STEVEN SHEPHERD, Killeen, TX  
JOSEPH ALAN SOMMO, San Antonio, TX  
TAYLOR JOHN THOMAS, Austin, TX  
KATHERINE FRANCES TOMPKINS, Big Spring, TX  
ANN MARIE VAUGHN, Henderson, TX  
LAURYN BROOKE WELLS, Midland, TX (In absentia)  
DANIEL ANTHONY WODKE, Flower Mound, TX

## MASTER OF SCIENCE IN CIVIL ENGINEERING

DANIEL PRASETYO BUNTORO, Surabaya, Indonesia (In absentia)  
MATTHEW DANE  
ABHIJIT RAVINDRA KULKARNI, Thane, India  
TINGTING LI, Chengdu, China  
SAMANTHA JO McMAHON, Carrollton, TX (In absentia)  
THESIS: Experimental Investigation of Load Sharing in Insulating Glass Units  
CLAUDIUS SANCHEZ CZYZEWSKA, Madrid, Spain  
JORDAN ALLISON SEFCIK, Wall, TX  
SAFA SEYEDIANCHOBI, Shiraz, Iran  
SUTTINAN SURIYAMANEE, Bangkok, Thailand  
MOHANA MANJEERA VEGESNA  
THESIS: The Advancements of Cementitious Materials through Nanotechnology

## MASTER OF SCIENCE IN ELECTRICAL ENGINEERING

SAMI ALAJLOUNI  
ABHISHEK CHUGH, Delhi, India  
SPOORTHY DASARI, Hyderabad, India  
NATHAN GONSALVES  
THESIS: Dynamics of Soil Impedance from Microsecond High Voltage Pulses  
STEVE ABRAHAM MANI, Kuwait City, Kuwait  
COURTNEY A. PINNELL, La Mesa, CA  
SIDDHARTH RAMACHANDRAN, Hyderabad, India  
RICHARD C. SOLARSKI, Amarillo, TX  
THESIS: Buried Cable Detection Using Marx Generated High Voltage Pulses  
BOZORGMEHR VOSOOGHI  
THESIS: On-Chip Temperature Sensor Architectures for Thermal Management Applications



### MASTER OF SCIENCE IN ENVIRONMENTAL ENGINEERING

ASHLEY LANE BROUGHTON, Houston, TX  
 BROOK ANNE POPE, Katy, TX (In absentia)  
 LAUREN MARIE SCHROEDER, Houston, TX  
 THESIS: Rate Uptake of Three Common Pharmaceuticals in Celery, *Apium graveolens*  
 PRESTON MICHAEL WITTENBURG, Dripping Springs, TX

### MASTER OF SCIENCE IN INDUSTRIAL ENGINEERING

YANG ZHANG, Luohe, China

### MASTER OF SCIENCE IN MECHANICAL ENGINEERING

CHAD RYAN AUSTIN, Lubbock, TX  
 THESIS: Internal Combustion Engine Performance with Ammonia Fuel Blends  
 PUSHPENDRA SINGH CHAUHAN, Gwalior, India  
 SHEHAN OMANATHA HAPUTHANTHRI  
 CAN LIU (In absentia)  
 THESIS: Direct Numerical Simulations (DNS) of the Thermal Field in a Turbulent Channel Flow with Spanwise Sinusoidal Blowing/Suction

### MASTER OF SCIENCE IN PETROLEUM ENGINEERING

MOHAMMAD IBRAHIM BASIT, Islamabad, Pakistan  
 BABU NISHIKANT CADAMBI  
 RAYMOND A. EGHORIETA, Lagos, Nigeria  
 XINGBANG MENG, Zhuji, China  
 VALENTINE OJIEH, Lagos, Nigeria  
 SHAJU SACHIN, Neyveli, India  
 SHARANYA SHARMA, Mumbai, India  
 MARSHAL EZEBUNWO WIGWE, Port Harcourt, Nigeria

### MASTER OF SCIENCE IN SOFTWARE ENGINEERING

DARREN G. ALLEYNE, Huntsville, AL (In absentia)

### MASTER OF SCIENCE IN SYSTEMS AND ENGINEERING MANAGEMENT

JULIAN MANFRED ERCEG, Spring, TX  
 BRINT J. HLAVATY, Lubbock, TX  
 ANDREW COLIN McCLELLEN, Dallas, TX  
 JEFFERY S. WOODRUFF, Houston, TX

# Undergraduate Programs

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TEXAS TECH UNIVERSITY  
College of Agricultural Sciences  
& Natural Resources

## BACHELOR OF SCIENCE

### AGRIBUSINESS

DIANNE LARYSSA DEVOS,<sup>3</sup> Plainview, TX

### AGRICULTURAL AND APPLIED ECONOMICS

BAILEE NOELLE BARRETT, Hereford, TX

TRAVIS LOGAN BELL, Dallas, TX

JORDAN MAXWELL BOGGS, Levelland, TX

BROOKS EDWARD BROCK, Silverton, TX

JACOB MACKENZIE BROWN, Smyer, TX

HADLEY CHET BUNCH, Hereford, TX

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GARRETT RYAN EAGLE, Uvalde, TX

TY D. GOLLIHER, Fort Stockton, TX

HAYDEN LEE HALFMANN,<sup>3</sup> St. Lawrence, TX

HARRISON THOMAS HOOD, Fort Worth, TX

HUNTER HOUSTON HOOD, Houston, TX

ZACHARIAH EMMETT HASKELL HURLEY,<sup>3</sup> Lubbock, TX

SHELBI RENAE KNISLEY, Corsicana, TX

2nd Degree: General Business

REID AUSTIN MANNING, San Angelo, TX

MARIA LORENA MARTINEZ, Petersburg, TX

JOHN WILLIAM McCOLM, Fort Worth, TX

TOBIE ALLEN MONTELBANO, Gilmer, TX

TODD MICHAEL MUELLER,<sup>2</sup> Roscoe, TX

ROBERT CLAYTON PALMER, San Angelo, TX

JARED PAUL PHARR, Idalou, TX

NICHOLAS ZANE RICHBURG,<sup>3</sup> Roscoe, TX

KEATON ALAN RUMMER, Dallas, TX

KYLE WILLIAM SCHLABS, Hereford, TX

ELIZABETH PAIGE SNELL, Houston, TX

JORDAN THOMAS STERLING, Tatum, NM

TYLER SCOTT STEVENSON, Roby, TX

BLAKE RYAN STRANGE, Silverton, TX

KYLE ROBERT WAGNER, Portales, NM

J. MATTHEW WAGNON, Lubbock, TX

JARED ANDREW WENNER, Lubbock, TX

NICHOLAS LAWRENCE WESTERMAN, San Antonio, TX

STEPHANY DAWN WINES, Lubbock, TX

MATTHEW REED YOUNG, Abilene, TX

### AGRICULTURAL COMMUNICATIONS

DAVID ANTHONY BATISTA, Katy, TX

HALLIE SUSANNAH BERTRAND,<sup>3</sup> Floydada, TX

JORDAN PAIGE BURSON,<sup>2</sup> Haskell, TX

MAGAN JADE ESCAMILLA,<sup>3</sup> Kingwood, TX

BRETT JARED GAY, Keller, TX

THERESA MARIE GRAF,<sup>1</sup> Momence, IL

AMBER MARIE HALFMANN, Garden City, TX

MEREDITH SHANNON HOLDSWORTH, San Antonio, TX

KELSEY KATE JONES,<sup>3</sup> Garden City, TX

TRESSA MARIE LAWRENCE,<sup>2</sup> Buffalo, WY

JAMES EDWARD MARCUSE, JR., Round Rock, TX

MICHAEL LAYTON NORWOOD, Cunningham, TX

KATELYN ERIN PERRY,<sup>3</sup> Iowa Park, TX

JACLYN D. ROBERTS,<sup>3</sup> Brownfield, TX

CATHERINE ROSE SAATHOFF, Hondo, TX

CARLEE BREEANN SMITH,<sup>3</sup> Sweetwater, TX

### ANIMAL SCIENCE

TANNER SCOTT ADAMS,<sup>2</sup> Sanger, TX

OSCAR A. ARMENDARIZ, Plainview, TX

WESTON LOGAN BURSON, Florence, TX

KODIE LERAY CARROLL, Joshua, TX

TRAVIS MARK COOPER, Odessa, TX

JOSEPH STEPHEN CRAMER, Lubbock, TX

ASHLEY LENE DAGGS,<sup>1</sup> Killeen, TX

JESSICA BRIERE DISABELLA,<sup>3</sup> Flower Mound, TX

HAILEY AMBER DUNN, Arlington, TX

ASHLEY NICOLE FROHMAN,<sup>2</sup> Coppel, TX

BRIANNA YLSA GARZA, Mission, TX

MILES HARRIS GRIFFIN, Bellaire, TX

CHEYENNE NICHOLE GUELKER, Colorado City, TX

GIGIT YANET HERNANDEZ, Sugarland, TX

NEELY CHARLES HUDSON,<sup>3,4</sup> Saginaw, TX

CHYNNA PILAR JOHNSON, Sachse, TX

LAUREN GRACE MANGELS, Lubbock, TX

MEGAN LEIGH McCULLOUGH, Castle Rock, CO

CRAIG ALLEN RUSSELL, Visalia, CA

LAUREN MARIE SANDERSON,<sup>3</sup> The Woodlands, TX

MORGAN KATHRYN SMART, Gatesville, TX

ASHLEY KAYE TEMPLE, Lubbock, TX

KAITLYN L. TRUE, Plainview, TX

MARY KAYLYN WELCH,<sup>3</sup> Lubbock, TX

MORGAN DEE WILLIAMS, Quemado, NM

KATIE MARIE WILSON, Granbury, TX

KELLEY DEANN YANDELL, Lubbock, TX

### CONSERVATION LAW ENFORCEMENT

BRYSON HEATH SUTHERLAND, Uvalde, TX

### ENVIRONMENTAL CROP AND SOIL SCIENCES

TREVOR ALAN DEINES, Cypress, TX

### FOOD SCIENCE

JONATHAN HALTON BRICKEY, Chapple Hill, TX

ALICE ELIZABETH DAVIDSON, Houston, TX

ALICIA RENEE GARZA, Lafayette, IN

JEREMY W. MANTHEI, Lubbock, TX

GRAYSEN JARED ORTEGA,<sup>2</sup> Lubbock, TX

KATELYN ANN ORTEGA, Lubbock, TX

MARIAH DANIELLE PATRICK, Idalou, TX

MELISSA RAE THOMAS,<sup>3</sup> Colleyville, TX

<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



**HORTICULTURAL AND TURFGRASS SCIENCE**

CHRISTOPHER MICHAEL BAKER, Lubbock, TX  
LANEY MARTHA BATEMAN, San Antonio, TX  
THOMAS EDWARD CARTER, Dalhart, TX  
JOSHUA LEE GOODE, Garland, TX  
MICHELLE LYNEA McMILLAN, Lubbock, TX  
KEVIN CECIL PANOS, Allen, TX  
TYLER SCOTT SPENCER, Highlands Ranch, CO  
ERIC VICENCIO VALLES, Houston, TX  
ANNA MARIA VOGLER,<sup>2</sup> San Antonio, TX  
RAMZI BLAKE WHITE, Lubbock, TX  
HOLLY L. WILSON,<sup>3</sup> Irving, TX

**INTERDISCIPLINARY AGRICULTURE**

CASSIE MARIE COCHRAN, Snyder, TX  
ROY DANIEL CROWNOVER,<sup>2</sup> Italy, TX  
JUSTIN CRAIG FETTERMAN, Poynos, TX  
MICHAEL DALLAS MARLEY, Plainview, TX  
RYAN WATSON ROTRAMEL, Devine, TX  
JUDSON RYAN SPEARMAN, Pampa, TX

**NATURAL RESOURCES MANAGEMENT**

JANAY RAYLIN-ROSE ALBERG, Bedford, TX  
CARTER AUSTIN BRUENING, Lubbock, TX  
BRANDON WAYNE CARELOCK, League City, TX  
ASHLEY NICOLE COOK, Jacksboro, TX  
RICKEY DAVID DAUGHTERY,<sup>2</sup> Milton, FL  
ASHTON DAVID HOWE, Plano, TX  
KAITLIN NICOLE HUNGER,<sup>3,4</sup> San Angelo, TX  
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GEORGE SAMUEL SHRODE, Colorado City, TX  
SASHA DANIELLE SOTO, San Angelo, TX  
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CHRISTOPHER EDWARD WILCUT, San Antonio, TX



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STEPHANIE LOUISE BUNT, Irving, TX  
2nd Major: Civil Engineering  
RACHEL DIANE BURCH, Arlington, TX  
DUSTIN R. CARTER, San Antonio, TX  
MELISSA ANN CHUNG, Lubbock, TX  
STEVEN MICHAEL COLLARD, Cedar Park, TX  
SHANE COLTON DAVES, Magnolia, TX  
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DANIEL HOYLE MOSS,<sup>3</sup> Lubbock, TX

2nd Major: Philosophy

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

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 2nd Major: Political Science  
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 AARON KEITH WALDO, Quanah, TX

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

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Williams Township, PA  
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TAYLOR LEE COOPER, Grapevine, TX  
DAKOTA JAMES CRYER, Farmersville, TX  
JARED GREGG DAHMER, Round Rock, TX  
TANA MICHELLE DE SCHANE, Pahrump, NV  
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JOBIN TAYLER WEEMS, Lubbock, TX  
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GREGORY MICHAEL FRIENDMAN, Flower Mound, TX

CAMERON MITCHELL GAGE, Albuquerque, NM

MICHELLE ELISABETH GALLEY, Lucas, TX  
2nd Major: Management

SCOTT WILLIAM GARLICH, Allen, TX  
2nd Major: Management

ANTHONY JOHN GIGLIOTTI, Sugar Land, TX

CHRISTOPHER MICHAEL GLASCOCK, San Antonio, TX

IAN CONNOR GOLNIK, Richardson, TX

JOSEPH THOMAS GRAY, Westchester County, NY  
2nd Major: Management

MICHAEL BARTON GREENLEE, Fort Worth, TX

ANDREW JAMES HEJNY,<sup>2</sup> Ennis, TX  
2nd Major: Management

SAMUEL MORGAN HEWITT, Dallas, TX

GARRETT MICHAEL HINDS, Prosper, TX  
2nd Major: Management

ROBERT ELLIOTT HORN, Chicago, IL

LAWRENCE MICHAEL INGERLY,<sup>2,4</sup> Austin, TX

NICHOLAS ANDREW KIRCHNER, Carrollton, TX

CHRISTOPHER MONROE KNIGHTON, Longview, TX  
2nd Major: Management

MATT STEVEN LACKEY, Fort Worth, TX

ANDREW SCOTT LEGRAND, Lewisville, TX

DEVON G. LLOYD, Sugar Land, TX

BRYAN W. LOMENICK, Dallas, TX  
2nd Major: Management

TAYLOR ANDREW McALPINE, Lubbock, TX  
2nd Major: Management

KELSI JENSEN McCORMACK, Mansfield, TX

AMIRA MICHELLE MILLER, Cedar Park, TX

SHELDYN RENEE MILLER, Brownwood, TX

ROBERT L. MOORE, Boerne, TX

AMANDA JOYCE MUREVA, Artesia, NM  
2nd Major: Management

JENNY VU NGUYEN, Sugar Land, TX  
2nd Major: Management

JOSHUA QUOC NGUYEN, Plano, TX

CHARLES CHRISTOPHER NOVAK, Plano, TX

ZACHARY PAUL NUSS, Arlington, TX  
2nd Major: Management

MATTHEW AUSTIN O'HAUGHERTY, Colleyville, TX

MICHAEL ALEXANDER PASEK, Houston, TX  
2nd Major: Management

NIKUNJ PATEL, Burnet, TX  
2nd Major: Management

ANDREW PHILLIP PFOTENHAUER, Round Rock, TX  
2nd Major: Management

CHRISTINA ANNE PRYOR, New Braunfels, TX  
2nd Major: Management

ZANE RYAN RENFROE, Arlington, TX  
2nd Major: Management

CHRISTOPHER PAUL RITTENHOUR, Houston, TX

LAUREL CATHERINE ROBERTS, Spring, TX

FERMIN ROMO, Lubbock, TX

ANDREW CHRISTOPHER ROUMELIS, Boerne, TX

TYLER REEVES SHAMBLIN, Prosper, TX  
2nd Major: Management

GRAHAM DAVID SHARP, Plano, TX

ALEXANDRA SISK, Colleyville, TX

ALEX JOHN SOWRYDA, Houston, TX  
2nd Major: Management

JACOB SPEIGHT HINES, Midland, TX

LAUREN E. STRICKLIN, Southlake, TX

MEREDITH CLAIRE TALLACK, The Woodlands, TX

McKENZIE ANN TATE,<sup>3</sup> Boerne, TX  
2nd Major: Management

TANNER SHEPHERD TWINING, Wichita Falls, TX

MATTHEW W. UPCHURCH, Lubbock, TX  
2nd Major: Management

MATTHEW LORIN VALDEZ, Georgetown, TX  
2nd Major: Management

BRENDON THOMAS VOELKER, Rowlett, TX

RYAN EDWARD WADSWORTH, Prosper, TX  
2nd Major: Management

WESTON GARRETT WALDO, Houston, TX  
2nd Major: Management

JORDAN F. WALKER, Lubbock, TX

TARA MEGAN WALTERS, Midland, TX

ELTON MARSHALL WARD, Flower Mound, TX

SHAY DANYEL WIGGINS,<sup>2</sup> Moody, TX

JAMES QUINTON WILLIAMS, Abilene, TX

PAUL BRIAN WILLIAMS, Plano, TX

LOGAN WADE WOOD, Denver City, TX  
2nd Major: Accounting

JULIANA WOODS, Georgetown, TX  
2nd Major: Management

SHELBY LORAIN WRIGHT,<sup>2</sup> Midland, TX

SETH GRAHAM YOUNG,<sup>3</sup> Cedar Park, TX  
2nd Major: Management

WILLIAM FREDERIC ZIEGLER, Dallas, TX  
2nd Major: Management



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## BACHELOR OF SCIENCE

### MULTIDISCIPLINARY SCIENCE

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ALEXANDRA RENEE DERR, Lubbock, TX

MULTIDISCIPLINARY STUDIES

JANETT AGUSTINCE, Dallas, TX

SHELBY ANN ALLEN,<sup>2</sup> Perryton, TX

PERLA ALVAREZ, Fort Worth, TX

HALEY LAWAN ARRINGTON,<sup>1</sup> Irving, TX

AMBER LEANN BECK, Lubbock, TX

KAITLIN BREE BODE, San Saba, TX

ELIZABETH ANN BROOKS, Terrell, TX

CARROL ANNE CHAVEZ, Lockney, TX

SAMANTHA KATE CRAIG,<sup>3</sup> Weatherford, TX

WHITNEY TATE DECKER, New Home, TX

KETTIA DESINOR, Dallas, TX

LORENA FERNANDEZ, Stamford, TX

SARAH JEAN FOREHAND,<sup>2</sup> Austin, TX

KENDRA L. GONZALEZ, Kingsland, TX

JORDAN LEEANN GRAHAM,<sup>3</sup> Sweetwater, TX

ERIKA M. GULICK, Pampa, TX

LAUREN NICOLE HEAD,<sup>2</sup> Grand Prairie, TX

FAITH HERNANDEZ, Marble Falls, TX

RECO HOWARD, JR., Lubbock, TX

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Dallas, TX

LAURA NICOLE JOHNSON, Fate, TX

BRITTANY ANN JONES, Kerrville, TX

KACEY LYNN MACINTOSH, Marble Falls, TX

DIANA ARREDONDO MARICHALAR,<sup>3</sup> Marble Falls, TX

SHELBI ELIZABETH McKENNY, Amarillo, TX

JENNIFER LEAH MENDOZA, Lubbock, TX

KIMBERLY ANNE MITCHELL, Lubbock, TX

EMILY LAVINIA MITCHMORE, San Antonio, TX

JENNIFER MORGAN-BAUGUS, Marble Falls, TX

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DEWEY NGUYEN, Brenham, TX

AMBER DAWN POWELL,<sup>3</sup> Borger, TX

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ALEXIA MORGAN SCOTT, Coppell, TX

MORGAN RENÉ SHASTID, Double Oaks, TX

CASEY RENEE SKRAPITS, Garland, TX

AMY DENISE LINE STANLEY, Post, TX

SAMANTHA RENEE SULLIVAN,<sup>2</sup> Plano, TX

ANGELICA TREJO, Dallas, TX

IBETH TRUJILLO,<sup>2</sup> Grand Prairie, TX

KAMERI JORDAN TURNER,<sup>3</sup> Perryton, TX

ANDREW VASQUEZ, San Antonio, TX

AMBER RIGBY WARD,<sup>3</sup> Midland, TX

KRISTEN LINNEA WEBB, Post, TX



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College of Engineering

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### CHEMICAL ENGINEERING

UNWANA LINUS ESSIEN, Houston, TX

DAVID ROSALES, Lubbock, TX

<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

### CIVIL ENGINEERING

ADAM ROBERT ANDERSON, Houston, TX  
 LONDON DARRELL BOWERSOCK, Wichita Falls, TX  
 ALEJANDRO M. BRISEÑOS,<sup>1</sup> Las Cruces, NM  
 DAVID ARNOLD BROWN-DAWSON,<sup>3</sup> Elk Grove, CA  
 EZEKIEL BRYAND,<sup>2</sup> Stanton, TX  
 STEPHANIE LOUISE BUNT,<sup>3</sup> Irving, TX

2nd Major: Architecture

MICHAEL ADAM BURATTI, Austin, TX  
 DANIEL CARRERA, El Paso, TX  
 JUSTIN WILLIAM CASTLE, Houston, TX  
 MWANSA CHIYENGE,<sup>1</sup> Lusaka, Zambia  
 SERGIO FEDERICO DE LA ROSA, Denver City, TX  
 NOLAN DOUGLAS DEL HIERRO, Euless, TX  
 DHARATIBEN H. DHANANI, Surat, India  
 RAUL ESPERON, McKinney, TX  
 MARIA CECLIA FACIO, Ennis, TX  
 STEPHEN A. GARZA, Katy, TX  
 JORDAN GLEN GIBBS,<sup>2</sup> Abilene, TX  
 BROOKE CALISTA GIBSON, Lucas, TX

2nd Major: Architecture

ALEJANDRO E. GRANADOS,<sup>2</sup> Georgetown, TX  
 ARTURO GUARDADO, Azle, TX  
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 SCOTT HILL, Coppel, TX  
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 ERIC TAYLOR JESKE, Arlington, TX  
 LAUREN AMANDA JONES, Plainview, TX  
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 SUNG WOO LEE, Carrollton, TX  
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 MARCUS MOLINA, El Paso, TX  
 BRIAN MATTHEW NIECKULA, Corona, CA  
 AADESH KUMAR NIRAOULA, Kathmandu, Nepal  
 LONDON MICHAEL ODOM, Austin, TX  
 NICHOLAS CLAUDE PRATKA, Humble, TX  
 GERARDO A. RANGEL, Laredo, TX

2nd Major: Architecture

ZANE SPENCER REID, Abilene, TX  
 VICTOR HUGO REYES, Irving, TX  
 SETH THOMAS RIDDLE,<sup>2</sup> Miles, TX  
 MATTHEW PRESTON ROBERSON, Lubbock, TX  
 COOPER JOSEPH SCHILDER,<sup>3</sup> Woodbridge, VA  
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 STEFANIE RENE SIMS, Houston, TX  
 SETH DANIEL SWARINGEN, Brownfield, TX  
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### COMPUTER ENGINEERING

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 JON MICHAEL GRESHAM, Lubbock, TX  
 TRAVIS JORDAN HALL, Brownfield, TX  
 KEATON PAUL VINES, Midland, TX

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 JONATHAN WILLIAM BASTNAGEL, Katy, TX  
 RYAN ALEXANDER CLARK, The Woodlands, TX  
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 CHRISTIAN ARKADIUSZ FLORCZAK, McKinney, TX  
 CAMERON ELIZABETH GUNTER,<sup>4</sup> Fort Worth, TX  
 SCOTT ALLEN MacWATTERS, Heidelberg, Germany  
 JEFFREY B. NIMS, Houston, TX  
 KUSH JAGDISM PATEL,<sup>3</sup> Lubbock, TX  
 GARVA AJAY PATHAK, Plano, TX  
 CHRISTOPHER WILLIAM PICAZO, Spring, TX  
 MITCHELL CHRISTOPHER POWELL, Austin, TX  
 WESLEY PAUL SAUNDERS, China Grove, TX  
 JOHN TAYLOR WEAVER, Lubbock, TX  
 AUSTIN JOSEPH WHITTINGTON,<sup>2,4</sup> Allen, TX

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 JONATHAN MANUEL BENAVIDES, Big Spring, TX  
 MARSHALL STAFFORD CLARK, Aledo, TX  
 ZACHRY CLARK FRAZIER, Heath, TX  
 MICHAEL ROBERT GRABOWSKI, Arlington, TX  
 DANIEL ERIC GRAF, Wichita Falls, TX  
 PARKER DEAN HUTCHENS, Lubbock, TX  
 JOSEPH MAHMOUD KHALED, Cypress, TX  
 JAKE MITCHELL MAXTON, Mount Vernon, TX  
 MICHAEL RYAN PERKINS, Dripping Springs, TX  
 ERIC DAGOBERTO SALAZAR, Breckenridge, TX  
 LOGAN DEAN SALMON, Amarillo, TX  
 AUSTIN REED TRAYLOR, Garland, TX  
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 JOB KELREEN DARPOLOR, Pecos, TX  
 GARY JOSEPH FRANTZ,<sup>2</sup> Aledo, TX  
 SCOTT ROBERT JONSON, Wylie, TX  
 KAYDEE IRENE McMENNAMY, Lubbock, TX  
 CALEB AUBREY ORR,<sup>3</sup> Odessa, TX  
 SIDDHARTH RAJGURU, Pune, India  
 ESAI M. RAMIREZ, Austin, TX  
 LYCERGUS SACDALAN RAMOS, Lubbock, TX  
 JAMES ALAN SCHROCK, Lake Jackson, TX  
 MONTY CHARLES TRIMBLE, Pampa, TX  
 RICHI VIKRAM VYAS, Bombay, India  
 MICHAEL BLAINE WALLS,<sup>3</sup> Abilene, TX  
 YAN WU,<sup>2</sup> Jiangyin, China  
 JOSH THOMAS WYATT, Friendswood, TX

### ENGINEERING TECHNOLOGY

GILBERTO CASTANEDA, Richardson, TX  
 SERVANDO LUNA, Plains, TX  
 JESUS ORONA, JR., Venus, TX

### ENVIRONMENTAL ENGINEERING

FRANK JOSEPH PARMA V, Lake Jackson, TX

### INDUSTRIAL ENGINEERING

ROOSEVELT NGOME AKUME, Houston, TX  
 DENISSE FABIOLA ALANIS, Dallas, TX  
 MICHAEL CARL ANDERSON,<sup>3</sup> Katy, TX  
 JOSHUA RYAN EVANS,<sup>3</sup> Dallas, TX  
 CATHERINE FRANCES FILLIP, Georgetown, TX  
 RAUL PEREZ GALVAN, Riverside, CA  
 ZACKERY GIBSON, Plainview, TX  
 BIVEK GURUNG,<sup>2</sup> Kathmandu, Nepal  
 TYLER STEVEN HAALAND, Katy, TX  
 RACHEL ELAYNE HUTCHINSON,<sup>2</sup> Friendswood, TX  
 WESTON TALK KOOPMANN, Georgetown, TX  
 GABRIEL COLE McQUEEN, San Antonio, TX  
 CORLEE PRIESTLY,<sup>3</sup> Dalhart, TX  
 MELANIE LAURA RUEGG,<sup>3,4</sup> Coppel, TX  
 CAROLINA VELASCO, Santa Cruz, Bolivia  
 MATTHEW JOSEPH VERSTRAETE, Carrollton, TX  
 I SHAN YU, Kaohsiung, Taiwan  
 YICHEN ZHANG, Allen, TX

### MECHANICAL ENGINEERING

CHRISTOPHER RYAN ADDISON, Plains, TX  
 JORDAN NEAL BALDREE, Orange, TX  
 CHARLES WALTER BASQUE, Lake Jackson, TX  
 JOSEPH ANDREA BENEDETTO, Flower Mound, TX  
 REGINALD ANDREW BOLMAN, Sherman, TX  
 SHANE EVARETT BOWLES, Big Spring, TX  
 SCOTT THOMAS BRIGGS, Cypress, TX  
 ANDREW JAMES BROWN, Leesburg, VA  
 LONDON H. CANTRELL, Brownwood, TX  
 JORDAN CRAIG CASTILLO, Lubbock, TX  
 GANESH CHAPAGAIN, Rupandehi, Nepal  
 WILLIAM ANDREW CLEMENTS, Memphis, TX  
 JOHN JOSEPH CONLEY, Bellville, TX  
 KOREY AARON CONNALLY, Joshua, TX  
 CODY THOMAS CREA, San Antonio, TX  
 TATE PAXTON DAVIS, Plainview, TX  
 COREY DANIEL DAWSON, Midland, TX  
 THOMAS EASTON DAY, Levelland, TX  
 AARON MICHAEL DELOERA, Snyder, TX  
 ETHAN MILLER DEPUE,<sup>3</sup> Southlake, TX  
 JUSTIN RANDALL DESHAN, McKinney, TX  
 LINDEN DUONG, Houston, TX  
 BRANDON LEE DYCK, Seminole, TX  
 JOE ALFRED FLORES, Little Rock, AR  
 BENNY P. FRIESSEN, Seminole, TX  
 ROBERT CHON HIGNOJOS GARCIA, Lubbock, TX  
 JOHN ALEXANDER GARDNER, Levelland, TX  
 WILLIAM HAROLD GEORGE, Dripping Springs, TX  
 NEIL CONOR GORDON, The Woodlands, TX  
 ALEXANDER MARK GURLEY, Friona, TX  
 VENESA HALLUM, Baytown, TX  
 JACOB MICHAEL HARDIN, Dallas, TX  
 CAROLINE ELIZABETH HARPSTER, Sugar Land, TX  
 RYAN G. HELLMAN, Fort Worth, TX

<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



JAMES KYLE HILL, Lubbock, TX  
 RYAN CHRISTOPHER HINES, San Angelo, TX  
 YING YAN HUANG, Plano, TX  
 STEVEN JAMES IDEN,<sup>1</sup> Dayton, OH  
 ALEXANDER R. JENNINGS, Seminole, TX  
 ALEXANDER A. JOCIUS, Austin, TX  
 ADDISON THORPE KENNEY, Midland, TX  
 STEPHEN PATRICK KENNEY, Austin, TX  
 CHARLES AUSTIN KILBORN, Houston, TX  
 SARA BELLE KUECKER, Cuero, TX  
 MATTHEW BENJAMIN LABBE, Houston, TX  
 PATRICK NEVILLE LEONARD, Midland, TX  
 PAUL CARSON LEWIS, JR., Mesquite, TX  
 JAYENDRA MAHARJAN,<sup>2</sup> Sunakothi<sup>6</sup>, Nepal  
 CHRIS DAVID MALT, San Clemente, CA  
 RYAN GREGORY MILLER, Houston, TX  
 SEAN ROBERT MILLER,<sup>2,4</sup> Floydada, TX  
 HASSAN AFZAL MIRZA, Houston, TX  
 JOHN MICHAEL MOODY  
 CHARLES DEREK MOORE, Lubbock, TX  
 CARTER WILLIAM MORRIS, Amarillo, TX  
 RYAN PATRICK MURPHY, Houston, TX  
 PAIGE MICHELLE NIEHUES,<sup>3</sup> Garden City, TX  
 NKAMA EGWU NKAMA, Cypress, TX  
 BRIAN EDWARD O'RILEY,<sup>2</sup> Rowlett, TX  
 MICHAEL BRADLEY PAYNE, Lubbock, TX  
 RONNIE JAY PEACOCK, Ackerly, TX  
 JUSTIN ANGEL PENA, Lubbock, TX  
 KERRY DREW POWERS, Burleson, TX  
 HOLLY ERIN READY, Arlington, TX  
 MATTHEW JORDAN RINI,<sup>2</sup> Highland Village, TX  
 GILBERT ALEXANDER RIVERA,<sup>3</sup> Midland, TX  
 JAKEB TYLER ROBERTS, Princeton, TX  
 JOSEPH WALID SAMARNEH, Houston, TX  
 DAVID JOSEPH SANCHEZ II, Hutto, TX  
 RYAN MORGAN SANFORD, Sundown, TX  
 MATTHEW AARON SCHNURIGER, San Antonio, TX  
 JENNI LASHAE SCOTT,<sup>2,4</sup> Lubbock, TX  
 ROBERT FREDRICK SHELTON, Midland, TX  
 RONALD FREDERICK SHERWOOD, Houston, TX  
 PUNYA PRATAP SINGH, Lubbock, TX  
 JAMES BAILEY SNEED, Midland, TX  
 JAMES DYLAN STATON,<sup>3</sup> Lubbock, TX  
 ROBERT C. STEELE, Katy, TX  
 JERRY E. STRAWN, Claude, TX  
 JASON ERICH THODE, Frisco, TX  
 NOELLE NICOLE TROTTER, Odessa, TX  
 HILDA VASQUEZ, Canadian, TX  
 JAMES JOE VASQUEZ, Earth, TX  
 JAMIE REVELLE VREDENBURGH, Austin, TX  
 BRADLEY THOMAS WARD, Midland, TX  
 BRANDON NEAL WARD, The Woodlands, TX  
 KY DAVID WASHER, Amarillo, TX  
 ERIC LEE WELCH, Big Spring, TX  
 DUSTIN KEVIN YATES, Friendswood, TX  
 JACOB ANTHONY YOKUM, Amarillo, TX  
 JORDAN LEIGH YOUNG, Robinson, TX

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 RYAN DALTON BRINKLEY, Katy, TX  
 ROSALIO CASTILLO, Luling, TX  
 KIRK ALEXANDER CLEM, Spring, TX  
 OSCAR JAVIER CORTAZAR-LUEBBERT, Plainview, TX  
 MARSHALL RYAN COUNTS, Johnson City, TN  
 MATHEW SCOTT FAHRMEIER, Kingwood, TX  
 ESSAM TAREK MOHAMED FARAG, Cairo, Egypt  
 JAMES WILLIAM GRIFFIN, The Woodlands, TX  
 JOHN GLYNDON HALL, Colorado Springs, CO  
 ALI MOHAMED HENDI, Lubbock, TX  
 SAM ELLIOT HIGHNOTE, Katy, TX  
 KOMET KOFFI, Dallas, TX  
 TEUNGKU MURSALIN ABDULLAH KRUEG,  
 Kaula Lumpur, Malaysia  
 EUNBAE LEE,<sup>1</sup> Seoul, Republic of Korea  
 SHILO BREANNE MATTHEWS, Artesia, NM  
 RYAN RANDALL McALISTER, Keller, TX  
 IAN MALLOY MEDINA, Spring, TX  
 KAILEY CAROLE MILLIORN, Dallas, TX  
 DANIEL A. OKUNOLA, Sugar Land, TX  
 J. MICHAEL PARTY, JR.,<sup>3</sup> Midland, TX  
 STERLING RONALD PASSINGHAM, Chicago, IL  
 LAUREN ELIZABETH PRATT, Natchitoches, LA  
 PHILLIP PAGE RANDEL, Nacogdoches, TX  
 JEAN NOEL RAPONO ANTCHOU, Libreville, Gabon  
 WALLY WALID SAAD, Orlando, FL  
 CRAIG RYAN SANDERS, Kingwood, TX  
 TANNER CHRISTIAN SCHULZ,<sup>3</sup> Lubbock, TX  
 TAYLOR SMITH, Marble Falls, TX  
 TYLER HEATH WEAVER, Sherman, TX  
 ROBERT MICHAEL WHARTON, Big Lake, TX  
 NICHOLAS FARLEY WOFFORD, Dallas, TX



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ENVIRONMENT AND THE HUMANITIES  
 MARGARET ANNE JORDAN,<sup>1,4</sup> Lubbock, TX  
 SARAH CATHERINE MILLER,<sup>1,4</sup> Lubbock, TX



TEXAS TECH UNIVERSITY  
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 LAUREN MARIE SAAB, El Paso, TX

### BACHELOR OF SCIENCE

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 BLAKE BRAZIL, Lubbock, TX  
 JESSICA LEE CURTIS, Granger, TX  
 RANDI MARIE ETHEREDGE,<sup>2</sup> Rotan, TX  
 2nd Major: Human Development and  
 Family Studies  
 ALLIE ROSE HAIR,<sup>2</sup> San Angelo, TX  
 SCOTT ALDEN JANSSEN, Oklahoma City, OK  
 MATTHEW RYAN PERRY, Lubbock, TX  
 ALEXIS LEIGH RHOADES, Ropesville, TX

#### EARLY CHILDHOOD

TAYLOR JANE ADDIKSON,<sup>3</sup> Wichita Falls, TX  
 KALEE DAYLE ANDERSON, Euless, TX  
 PAIGE LUCY ARNOLDY,<sup>2</sup> Katy, TX  
 JADE BRITNEY BOHANNAN, Waco, TX  
 MADISON GAIL BURNEY,<sup>3</sup> Mason, TX  
 BRITTANY L. BUSH, Weatherford, TX  
 BESS CAROLYN CALDWELL, Lubbock, TX  
 BLAKENEY COLE CHRISMAN,<sup>1</sup> Sanderson, TX  
 SARAH FRANCES D'AMICO, Cedar Park, TX  
 ELIZABETH NICOLE DUNN, The Colony, TX  
 AMANDA SHAREE FORD, Denver City, TX  
 REBECCA NICOLE FRAZIER,<sup>2</sup> Lovington, NM  
 LOREN RENEE GRAY,<sup>3</sup> La Grange, TX  
 KATIE NICOLE HAMILL, Albuquerque, NM  
 MORGAN FRANCES HEAD, Coppell, TX  
 MERCEDES LYNN HENDERSON,<sup>2</sup> Lubbock, TX  
 MARIAH LAINE HIXSON,<sup>2</sup> Frisco, TX  
 KRISTI MICHELLE HOLLY,<sup>2</sup> Monahans, TX  
 ELIZABETH JENNINGS JONES, San Antonio, TX  
 MAIZZIE REBEKAH KELLEY, Tomball, TX  
 JOCELYN ANNE KENNEDY,<sup>3</sup> Lubbock, TX  
 LARISSA NICOLE McALPINE, Stratford, TX  
 MELISSA CHRISTINE McCOLLOCH,<sup>3</sup> Houston, TX  
 KATHLEEN ASHLEIGH MOORE, Abilene, TX  
 JENNIFER LYNNE NELSON,<sup>3</sup> Post, TX  
 DESIREE NICOLE NOCK, Levelland, TX  
 LARHONDA JORDAN PARKER, Brownfield, TX  
 KATIE JO PARKES,<sup>2</sup> Sherman, TX  
 LAUREN ANN POCSIK,<sup>1</sup> Houston, TX  
 BREANNA NICHOLE QUADOR,<sup>3</sup> Odessa, TX  
 LAURA NICOLE SAVAGE,<sup>1</sup> Littlefield, TX  
 NATALIE MARIE SIMMONS, Missouri City, TX  
 MALLORY NICOLE SITZMAN, Lewisville, TX  
 MARY ELIZABETH SMITH,<sup>3</sup> Dallas, TX  
 BRENT L. WILSON, Lubbock, TX  
 AMANDA LEIGH WOLFE, Houston, TX

#### FAMILY AND CONSUMER SCIENCES

SAMARA BREANN MARTINEZ, Lubbock, TX  
 LORESSA JOY PECORARO, Little Elm, TX

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

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### HUMAN DEVELOPMENT AND FAMILY STUDIES

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MACKENZIE ROCHELLE BROWN, Quartz Hill, CA  
 JOHN KOLTON FOSTER, Loop, TX  
 SHEA PATRICK HERRON, San Angelo, TX  
 JEFFREY DALE MOORE, Lubbock, TX  
 RYLAN KY SLONE,<sup>3</sup> New Braunfels, TX  
 SPENCER MAX TRUESDELL, Lubbock, TX



TEXAS TECH UNIVERSITY

### College of Visual & Performing Arts

#### BACHELOR OF ARTS

##### ART

ZOE CELESTE BRISEÑO, Midland, TX

##### DANCE

ANGELA NICOLE CURRY, Carrollton, TX  
 AMY ELIZABETH EZELL, Keller, TX

##### MUSIC

CAMILLA BUTLER, Saginaw, TX  
 LAYNE THOMAS KIGHT,<sup>1</sup> Alvarado, TX  
 2nd Degree: Marketing  
 JENNIFER NICOLE LANE, Plano, TX

##### THEATRE ARTS

SHERILYN GAIL CAUDLE, Lakenheath, United Kingdom  
 PAULA RENAE FRITZ, Synder, TX  
 2nd Major: History

#### BACHELOR OF FINE ARTS

##### ART

SARAH LOUISE DILL, Mesquite, TX  
 TAYLOR CHARLES DOWDY, Lubbock, TX  
 KHRYSTINA MARIE HARRIS, Dallas, TX  
 REBECA JOFFE,<sup>3</sup> San Antonio, TX  
 EFREN H. MARRUFO, Lubbock, TX  
 JONATHAN SAMUEL MITCHUM, Lubbock, TX  
 JANIE MARIE PEREZ, Whitharral, TX  
 KIMBERLY MICHELLE REDINGER, San Antonio, TX  
 MARISSA ELISE WHITWORTH, San Antonio, TX  
 JAKE AUSTIN YOUNG,<sup>3</sup> Kerrville, TX

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



## UNDERGRADUATE CANDIDATES

### BACHELOR OF GENERAL STUDIES

LINDSEY ALLYN SCHNEIDER, Lubbock, TX  
RACHEL CLARE WEGENHOFT, Houston, TX

### BACHELOR OF MUSIC

SAMUEL BAÑUELOS III,<sup>3</sup> Lamesa, TX  
JENNIFER AMANDA BECK, Carrollton, TX  
MELISSA ROSE BERGER,<sup>2</sup> Cypress, TX

CHELSEA LYNN BRUCE, Lewisville, TX  
BRIANA FAWN BURNS, Arlington, TX  
EMILY KATE CAVAGNARO,<sup>2</sup> Carrollton, TX  
MICHAEL OLIVER CHURCH,<sup>1</sup> Stanton, TX  
MICHAEL SCOTT COLEMAN, Katy, TX  
MARISA KAITLYN COX, The Colony, TX  
KRISTEN HOPE DILLON, Lubbock, TX  
TIMOTHY JAMES DRAYTON,<sup>2</sup> San Antonio, TX  
SHELBY RENEE DURHAM, Garland, TX  
CAILIN LYSTLE FLAHERTY,<sup>1,4</sup> Austin, TX

RAFAEL ALFONSO GALLÁSTEGUI, Allen, TX  
KAITLIN CONLEE HATCHETT,<sup>2</sup> Midland, TX  
KELLY ELIZABETH JONES,<sup>2</sup> Grapevine, TX  
YOUN LOIS KIM,<sup>3</sup> Flower Mound, TX  
DANIEL WILLIAM LANE,<sup>1</sup> Allen, TX  
MELANIE JEAN MORRIS, Katy, TX  
ERIN ELIZABETH PATTERSON,<sup>2</sup> Mesquite, TX  
LAMAR WESLEY PEEPLES, McKinney, TX  
MICHAEL KATHRYN TEGELER,<sup>3</sup> San Angelo, TX  
KATHERINE ELISE WEBB, McKinney, TX

## CANDIDATES FOR MILITARY COMMISSIONS

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

DAVID ARNOLD BROWN-DAWSON, Elk Grove, CA  
BRIAN LEE HUDSON, Tulia, TX  
JAMES ALAN SCHROCK, Lake Jackson, TX

*The following students are being commissioned as  
Second Lieutenants in the United States Army:*

JOSHUA LEE GOODE, Garland, TX  
JULIA BRIANNE TIMMONS, Carver, MN

*This program is an unofficial list of December 2013 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.*

# ACADEMIC DRESS AND PROCESSION



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



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

**W**earing academic dress at commencement ceremonies dates from the early history of the oldest universities during the 12th or 13th century.

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 3.50 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.





**UNDERGRADUATE ROBE:** A red stole displaying the Double T and seal of the university distinguishes students receiving baccalaureate degrees. Degree candidates wearing red cords will graduate with honors designations based on a minimum 3.50 GPA.

### COLOR CHART FOR FIELDS OF STUDY

The following is a list of colors established by the Inter-collegiate Code to represent the different 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

## TEXAS TECH COMMENCEMENT ANNOUNCEMENTS

### GRADUATE PHOTOGRAPHS

A professional photographer will be taking photos of graduates as they receive their diplomas. You will be able to view and order these 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 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 in regard to having these photos taken.

### COMMENCEMENT DVD

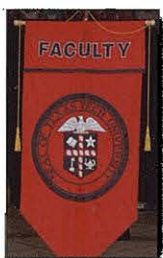
The Texas Tech Alumni Association encourages you to order a Texas Tech Commencement DVD to commemorate your achievement. The \$45 purchase also will include a one-year Texas Tech Alumni Association gift membership. This membership will help you stay connected to Texas Tech. To reserve your copy of today's 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.



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



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

The blue-violet background color of the **College of Architecture** is the color established by the Intercollegiate Code to designate this academic area and is also seen in the velvet border of Architecture master's and doctoral hoods and doctoral gowns. The Ionic column symbol set in a red circle references the traditions of classical architecture. The banner was designed by Bill Felty, a retired Associate Dean for the College of Architecture.



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 Texas Tech Double T logo appears at the bottom of the banner.



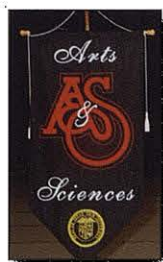
The **Jerry S. Rawls College of Business** banner was designed through a

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 created in 2000 by Randal Lacy, a technician in the Office of the Dean. The red and black colors ap-



propriately represent the largest and most diverse college in the university. The college logo depicts the college initials in a sweeping, modernistic monogram. The Texas Tech seal is centered at the lower point of the banner.

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 Graduate School 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 hu-

man 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, a college faculty member.

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 back-



ground 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.

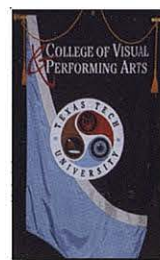
The banner for **University Programs** exhibits the colors of Texas Tech with a red background trimmed in black.



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.

## SPECIAL THANKS

Mrs. Peggy Flores has completed her thirtieth year as Texas Tech University commencement coordinator. The university would like to express appreciation to Mrs. Flores for her dedication to making commencement a truly memorable experience for graduating students and their families. We look forward to seeing her continue to serve for many years into the future.

## ACKNOWLEDGEMENTS

- The commencement music ensemble is comprised of students from the Texas Tech University School of Music under the direction of Prof. Duane Hill, Associate Director of Bands and Director of the Goin' Band from Raiderland. Their participation is funded through the auspices of the Office of the President, Texas Tech University.
- HSC Printing Center assisted with preparing diploma tubes.
- 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. Sue H. Jones, Director; Cheryl Hedlund, Senior Editor.

## PHOTO CREDITS

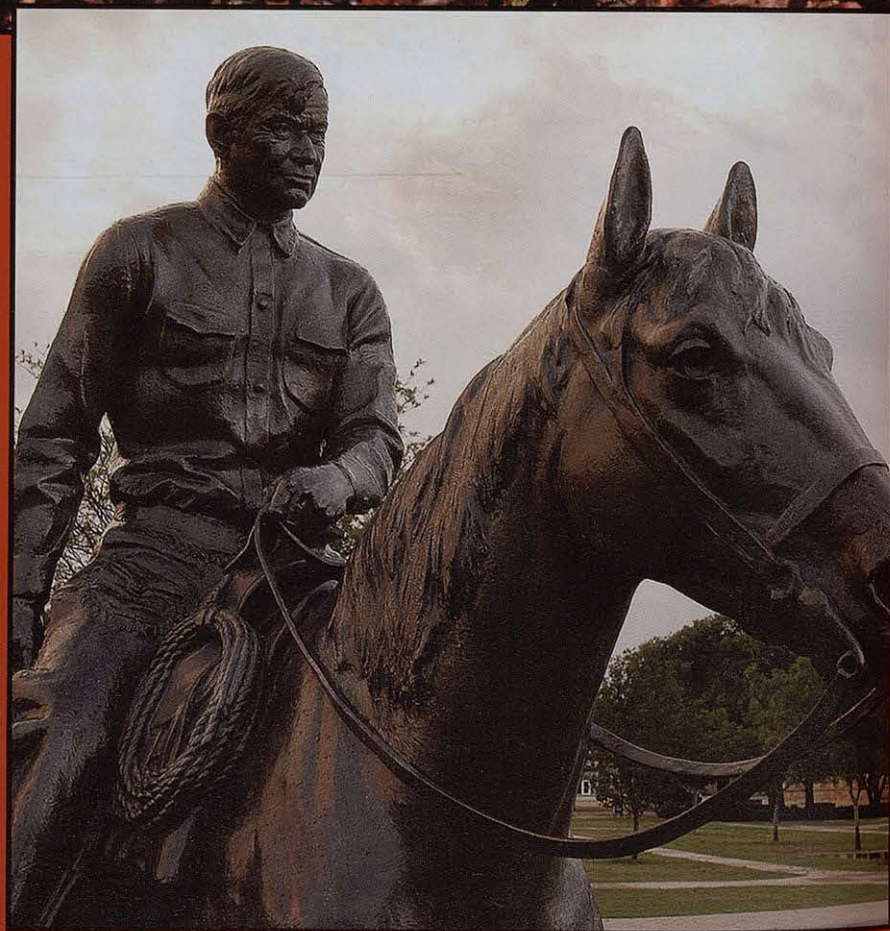
Sue Jones (cover, pp. 3, 4, 43), Sothy Eng (p. 5), Neal Hinkle (pp. 6, 7, 8), Artie Limmer (pp. 6, 7, 42, 44), Jerod Foster (p. 38), Student Media (p. 43)



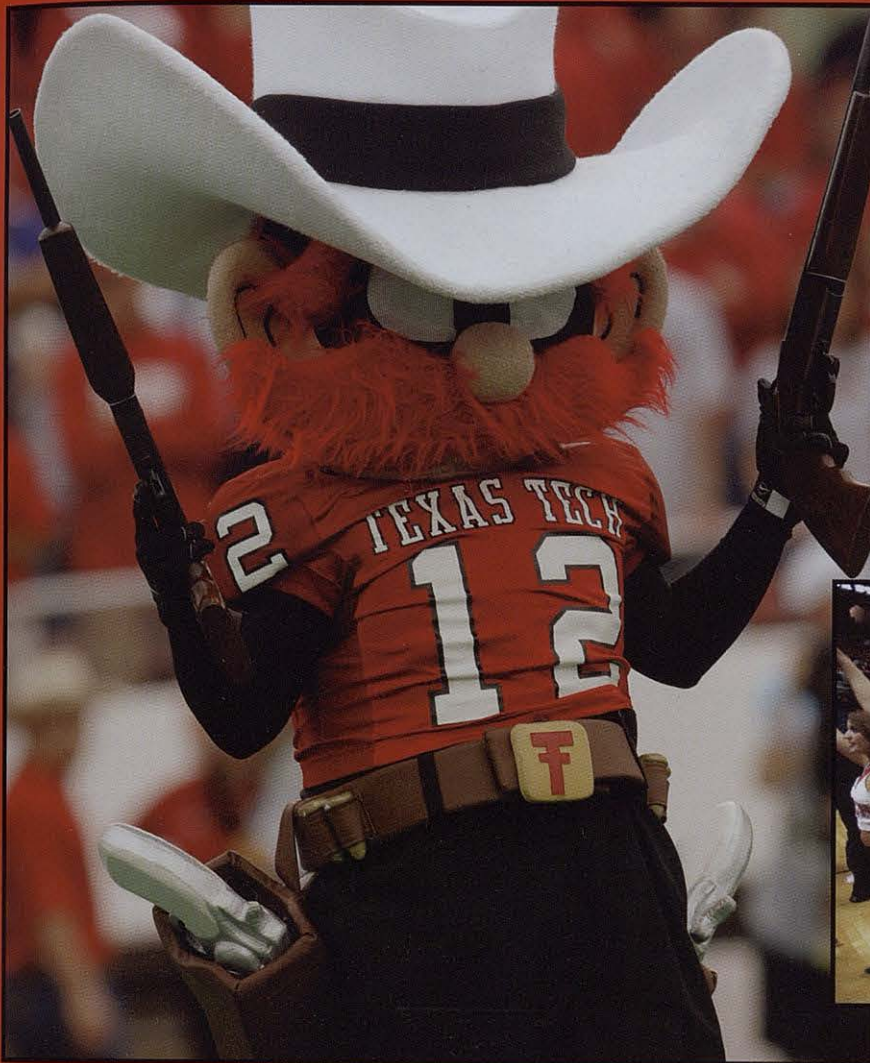


## Who's Sitting on a Horse? (And Why Is He Red?)

Will Rogers was one of the most famous entertainers in America in the 1920s and 30s, and his longtime friend, Amon G. Carter, was Texas Tech's chairman of the first 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. When Rogers died tragically in an airplane accident, the nation mourned his loss and Carter flew to Alaska to retrieve his body. Later 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.

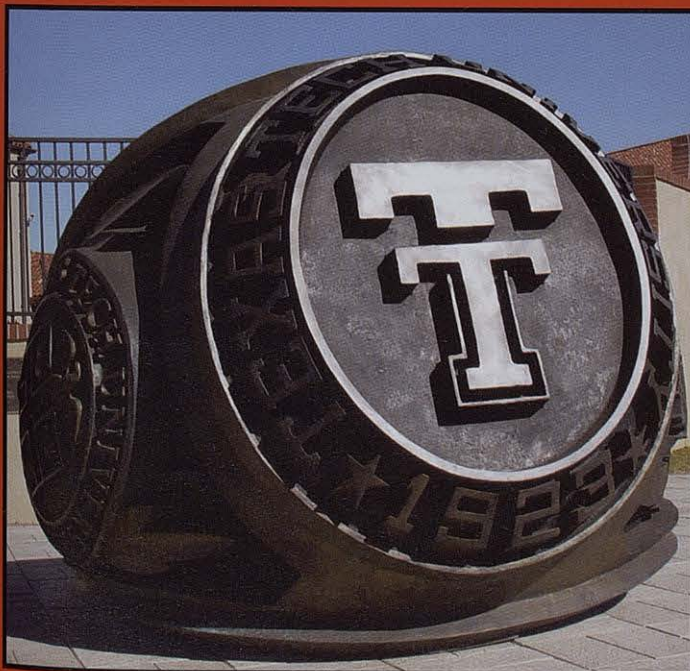






## Masked Rider or Raider Red?

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.



## Turn Around Time

As a constant reminder of their academic achievements and the traditions of Texas Tech University, students wear proudly 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))



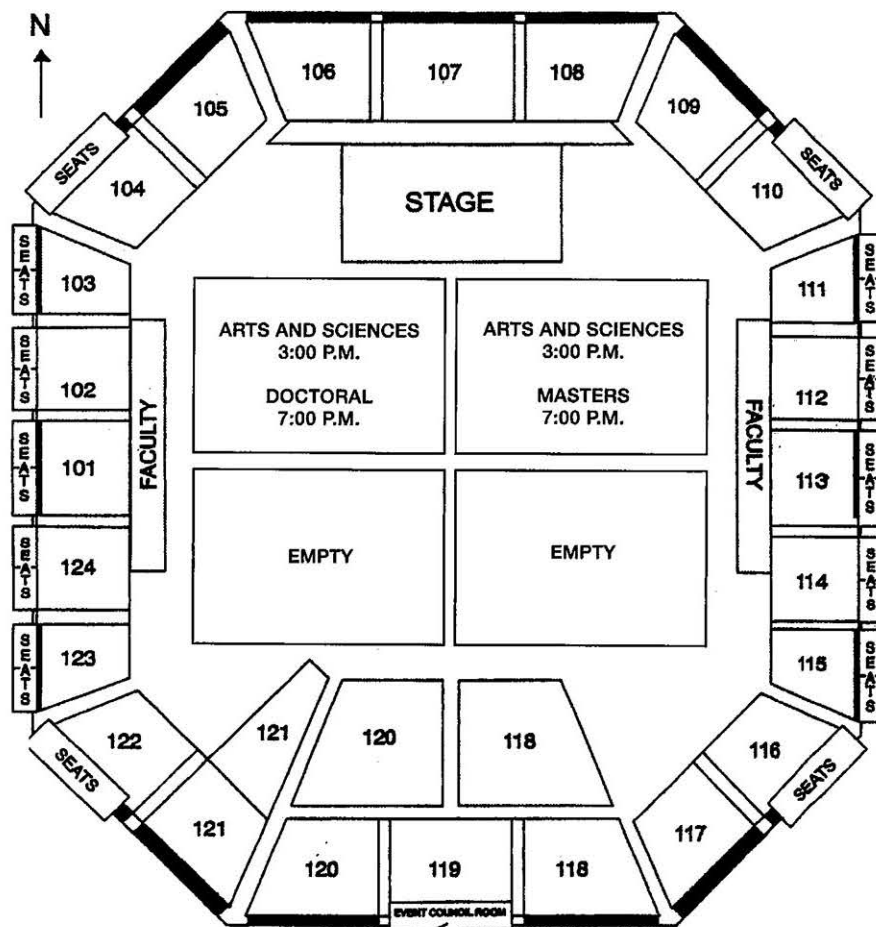




# United Spirit

A R E N A

Friday, December 13, 2013

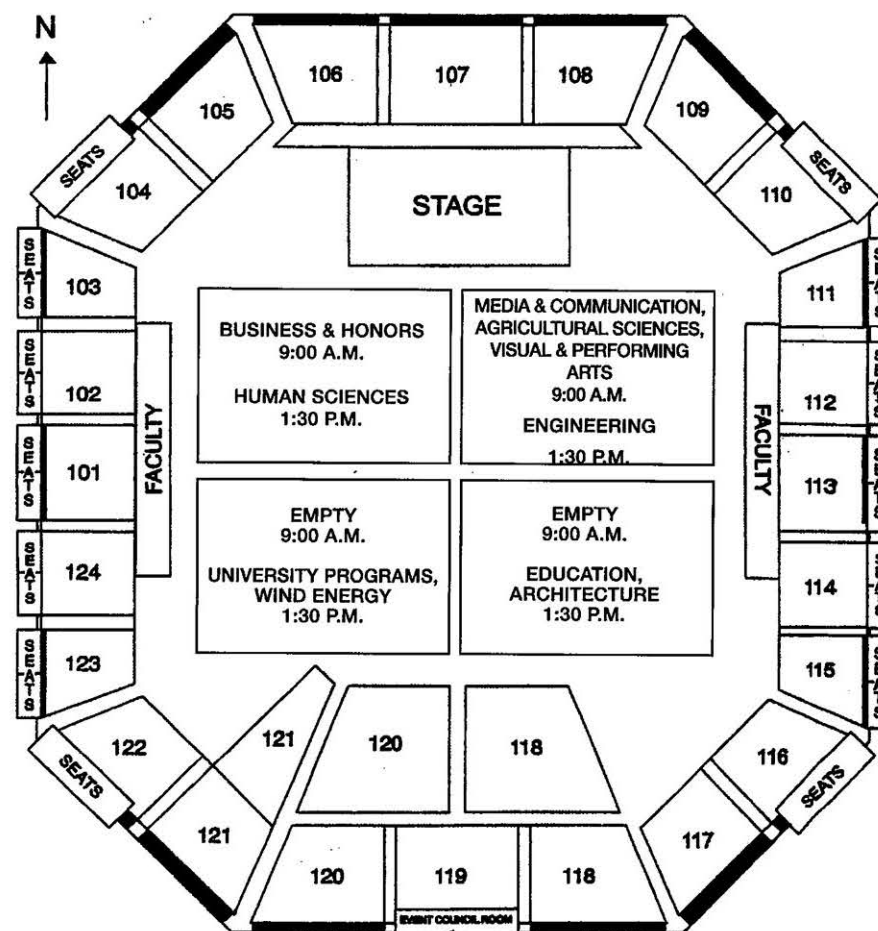


Designated by ■

# United Spirit

A R E N A

Saturday, December 14, 2013



Designated by ■



*Fight, Matadors, for Tech!  
Songs of love we'll sing to thee.  
Bear our banners far and wide.  
Ever to be our pride.  
Fearless champions ever be.  
Stand on heights of victory.  
Strive for honor evermore.  
Long live the Matadors.*

(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 came when 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.)



CONGRATULATIONS  
*December 2013 Graduates*