

# Commencement

**SPRING 2019** 

Lubbock, Texas May 17-18





# TEXAS TECH UNIVERSITY®

# **SPRING 2019**

# Commencement

Friday, May 17, 2019 Saturday, May 18, 2019 UNITED SUPERMARKETS ARENA 2:30 p.m. and 7:30 p.m. 9:00 a.m. and 1:30 p.m. LUBBOCK, TEXAS

#### TABLE OF CONTENTS

Administration About Texas Tech University Undergraduate and Graduate Commencement Ceremonies 8 Commencement Speakers 12 Acknowledgements Convocations Committee Music Ensemble College Readers Administrative Representatives **Program Production** Student Banner Bearers for Ceremonies Faculty Banner Bearers for Ceremonies Library Banner Bearers for Ceremonies Presidential Mace 14 Graduation Honors 14 List of Graduate Degree Candidates List of Undergraduate Degree Candidates 25 Receptions 43 College Banners Academic Dress and Procession 46 Seating Charts

#### MISSION

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

#### TEXAS TECH UNIVERSITY ADMINISTRATION

#### LAWRENCE E. SCHOVANEC, Ph.D.

President;
Professor of Mathematics and Statistics

MICHAEL L. GALYEAN, Ph.D.

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

NOEL SLOAN, J.D., CPA

Vice President for Administration & Finance, Chief Financial Officer JOSEPH HEPPERT, Ph.D.

Vice President for Research; Professor of Chemistry

CAROL SUMNER, Ed.D.

Vice President for Diversity, Equity & Inclusion

# TEXAS TECH UNIVERSITY SYSTEM CHANCELLOR / BOARD OF REGENTS

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#### ACADEMIC OFFICERS

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

Dean, School of Law; Professor of Law

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Dean, College of Arts & Sciences; Professor of Mathematics

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#### ROBIN LOCK, Ph.D.

Acting Dean, College of Education; Professor of Special Education

#### AL SACCO, JR., Ph.D.

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

#### MICHAEL SAN FRANCISCO, Ph.D.

Dean, Honors College; Professor of Biology

#### TIM DODD, Ph.D.

Acting Dean, College of Human Sciences; Professor of Hospitality Management

#### DAVID D. PERLMUTTER, Ph.D.

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

#### NOEL ZAHLER, D.M.A.

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

#### BELLA KARR GERLICH, Ph.D.

Professor and Dean of Libraries

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

Today, Texas Tech continues to thrive, with more than 38,000 students enrolled in its 11 colleges: Agricultural Sciences & Natural Resources, Architecture, Arts & Sciences, Jerry S. Rawls College of Business Administration, Education, Edward E. Whitacre, Jr. College of Engineering, Honors College, Human Sciences, Media & Communication, J.T. & Margaret Talkington College of Visual & Performing Arts, and the Graduate School, as well as University Programs via the Provost's Office. The institution's goal is to enroll 40,000 students by 2020.

Because of its educational scope and purpose, as well as the size of the region it serves, Texas Tech University operates in numerous Texas locations beyond the Lubbock campus. In all, the Texas Tech University System—which includes Texas Tech University, Angelo State University, Texas Tech University Health Sciences Center, and Texas Tech University Health Sciences Center at El Paso—has more than 44,000 students enrolled.

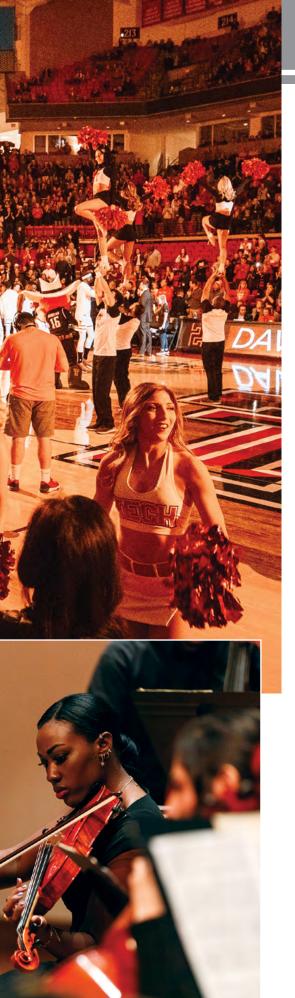












graduation ceremony in the spring of 1927, more than 200,000 undergraduate and graduate degrees have been awarded by the university. From these proud graduates have emerged captains of industry, world-renowned surgeons, noted authors, famous singers, acclaimed teachers and professors, attorneys, entrepreneurs,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

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

Not all graduates will achieve fame and fortune in equal measure, but all Texas Tech graduates can point with pride to the solid academic preparation they received and the personal connections they made as Red Raiders. For beneath the spacious skies of West Texas and in the halls of brick and tile through which they strolled during their time on campus, generations of Texas Tech students have been provided a foundation for success that is without parallel. As they take their first steps into careers that will see many of them literally change the world, they can remember with certainty one important fact about Texas Tech University:

From here, it's possible.

# Friday, May 17, 2019 2:30 p.m.

Presiding Dr. Lawrence Schovanec

President, Texas Tech University

Processional\* Texas Tech Commencement Band

Dr. Sarah McKoin, Conductor

National Anthem Mr. Joshua D. Reynolds

Graduating with a Bachelor of Music

Welcoming Remarks Mr. Christopher M. Huckabee

Board of Regents, Texas Tech University System

Introduction of Commencement Speaker Dr. Lawrence Schovanec

Commencement Address Ms. Susan Graham

Grammy Award-Winning Mezzo-Soprano and

Texas Tech University Alumna

Presentation of Honorary Degree to Susan Graham, Doctor of Musical Arts, Honoris Causa from

Texas Tech University

Dr. Lawrence Schovanec

Conferring of Degrees Dr. Lawrence Schovanec

Dr. Michael Galyean

Provost and Senior Vice President

Presentation of Bachelor's Degree Candidates Dr. Randy McBee

Associate Dean, College of Arts & Sciences

Dr. Robin Lock

Interim Dean, College of Education

Dr. Noel Zahler

Dean, J.T. & Margaret Talkington College of

Visual & Performing Arts

Recognition of Outstanding Students

Class of 2019

Dr. Michael Galyean

Charge to the Graduates

Dr. Lawrence Schovanec

Alma Mater

Ms. Madison E. Smith

(Words on Back Cover)

Graduating with a Bachelor of Music

Recessional\*

Texas Tech Commencement Band

<sup>\*</sup> Please remain seated during the Processional and Recessional

# Friday, May 17, 2019 7:30 p.m.

Presiding Dr. Lawrence Schovanec

President, Texas Tech University

Processional\* Texas Tech Commencement Band
Dr. Sarah McKoin, Conductor

National Anthem Mr. Andrew B. Campbell *Graduating with a Master of Music* 

Welcoming Remarks
Mr. John B. Walker
Board of Regents, Texas Tech University System

Introduction of Commencement Speaker Dr. Lawrence Schovanec

Commencement Address Ms. Susan Graham

Grammy Award-Winning Mezzo-Soprano and Texas Tech University Alumna

Conferring of Degrees Dr. Lawrence Schovanec Dr. Michael Galyean

Provost and Senior Vice President

Presentation of Doctoral and Dr. Mark Sheridan

Master's Degree Candidates

Vice Provost for Graduate and Postdoctoral Affairs;

Dean, Graduate School

Deun, Gruuuute Scho

Recognition of Outstanding Students

Class of 2019

Dr. Michael Galyean

Charge to the Graduates Dr. Lawrence Schovanec

Alma Mater Ms. Jayme Vaughn-Linebarger (Words on Back Cover) Graduating with a Master of Music

Recessional\* Texas Tech Commencement Band

<sup>\*</sup> Please remain seated during the Processional and Recessional

#### **COMMENCEMENT CEREMONY**

#### Saturday, May 18, 2019 9:00 a.m.

Dr. Lawrence Schovanec Presiding

President, Texas Tech University

Processional\* Texas Tech Commencement Band

Dr. Sarah McKoin, Conductor

National Anthem Mr. Joshua D. Reynolds

Graduating with a Bachelor of Music

Welcoming Remarks Mr. Dusty Womble

Board of Regents, Texas Tech University System

Dr. Lawrence Schovanec Introduction of Commencement Speaker

Commencement Address Mr. Barry Lopez

Humanitarian and Environmental Author, National Book Award Winner

and Visiting Distinguished Scholar in the Honors College

Conferring of Degrees Dr. Lawrence Schovanec

Dr. Michael Galyean

Provost and Senior Vice President

Presentation of Bachelor's Degree Candidates Dr. Al Sacco, Ir.

Dean, Edward E. Whitacre, Jr. College of Engineering

Dr. Michael San Francisco Dean, Honors College

Dr. Dottie Durband

Associate Dean, College of Human Sciences

Dr. Patrick Hughes

(presenting University Studies and Wind Energy degrees) Vice Provost for University Programs and Student Success

Recognition of Outstanding Students Dr. Michael Galyean

Class of 2019

Charge to the Graduates Dr. Lawrence Schovanec

Alma Mater

Mr. Joshua D. Reynolds (Words on Back Cover)

Graduating with a Bachelor of Music

Recessional\* Texas Tech Commencement Band

<sup>\*</sup> Please remain seated during the Processional and Recessional

### **Saturday, May 18, 2019** 1:30 p.m.

Dr. Lawrence Schovanec Presiding

President, Texas Tech University

Processional\* Texas Tech Commencement Band

Dr. Sarah McKoin, Conductor

National Anthem Mr. Joshua D. Reynolds

Graduating with a Bachelor of Music

Welcoming Remarks Mr. Christopher M. Huckabee

Chairman, Board of Regents, Texas Tech University System

Dr. Lawrence Schovanec Introduction of Commencement Speaker

Commencement Address Mr. Barry Lopez

Humanitarian and Environmental Author, National Book Award Winner

and Visiting Distinguished Scholar in the Honors College

Conferring of Degrees Dr. Lawrence Schovanec

Dr. Michael Galyean

Provost and Senior Vice President

Presentation of Bachelor's Degree Candidates Dr. Margaret Williams

Dean, Jerry S. Rawls College of Business Administration

Dr. Amy Koerber

Associate Dean, College of Media & Communication

Dr. William Brown

Dean, College of Agricultural Sciences & Natural Resources

Prof. Jim Williamson

Dr. Michael Galyean

Dean, College of Architecture

Recognition of Outstanding Students Class of 2019

Dr. Lawrence Schovanec

Alma Mater

(Words on Back Cover)

Charge to the Graduates

Mr. Joshua D. Reynolds

Graduating with a Bachelor of Music

Recessional\* Texas Tech Commencement Band

<sup>\*</sup> Please remain seated during the Processional and Recessional

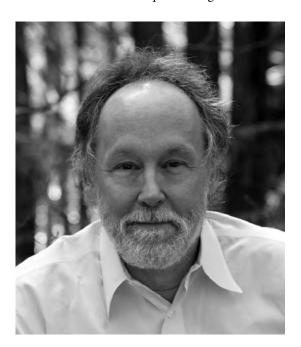
#### **COMMENCEMENT SPEAKERS**



Hailed as "an artist to treasure" by *The New York Times*, Susan Graham rose to the highest echelon of international performers within just a few years of her professional debut, mastering an astonishing range of repertoire and genres along the way. Her operatic roles span four centuries, from Monteverdi's *Poppea* to Sister Helen Prejean in Jake Heggie's Dead Man Walking, which was written especially for her. Among her numerous honors are a Grammy Award for her collection of Ives songs, Musical America's Vocalist of the Year, and an Opera News Award. As one of the foremost exponents of French vocal music, she has been recognized with the French government's "Chevalier de la Légion d'Honneur."

To launch the 2018-2019 season, Graham reunited with Andris Nelsons and the Boston Symphony to reprise their celebrated account of Mahler's Third Symphony at London's BBC Proms and in Berlin, Leipzig, Vienna, Lucerne, and Paris. Back in the United States, she made her role debut as Humperdinck's Witch in Doug Fitch's treatment of "Hansel and Gretel" at LA Opera, returned to Carnegie Hall for Mozart's "Requiem" and Haydn's "Nelson Mass" with the Orchestra of St. Luke's, and revisited her signature interpretation of Berlioz's Les nuits d'été with the Houston Symphony.

Graham's earliest operatic successes were in such trouser roles as Cherubino in Mozart's Le nozze di Figaro. She went on to triumph as Octavian in Richard Strauss's Der Rosenkavalier and the Composer in his Ariadne auf Naxos. She sang the leading ladies in the Metropolitan Opera's world premieres of John Harbison's "The Great Gatsby" and Tobias Picker's "An American Tragedy," and made her musical theater debut in Rodgers and Hammerstein's "The King and I" at the Théâtre du Châtelet in Paris. Gramophone magazine has dubbed her "America's Favorite Mezzo."



B arry Lopez is an essayist, author, and short-story writer whose first stories were published in 1966. He is the author of "Arctic Dreams," for which he received the National Book Award; "Of Wolves and Men," a National Book Award finalist, for which he received the John Burroughs and Christopher medals; and eight works of fiction, including "Light Action in the Caribbean," "Field Notes," and "Resistance." His essays are collected in two books, "Crossing Open Ground" and "About This Life." He contributes regularly to Harper's, Granta, The Georgia Review, Orion, Outside, The Paris Review, Manoa and other publications.

Lopez is a recipient of the Award in Literature from the American Academy of Arts and Letters, the John Hay Medal, Guggenheim, Lannan, and National Science Foundation fellowships, Pushcart Prizes in fiction and nonfiction, the St. Francis of Assisi Award from DePaul University, the Denise Levertov Award from Image magazine, and honors from the Academy of Television Arts and Sciences, the Association of American Geographers, the New York Public Library, the Nature Conservancy, and the American Society of Magazine Editors. In 2002 he was elected a Fellow of The Explorers Club.

In 2001, Texas Tech University acquired Lopez's manuscripts, notebooks, field journals, professional correspondence, and other archi-

val materials and with them founded the James E. Sowell Family Collection in Literature, Community, and the Natural World. At the same time, to inaugurate the collection, the University also acquired the papers of William Kittredge, David Quammen, Pattiann Rogers, and Annick Smith. Since then, the Sowell Collection has purchased the papers and correspondence of Bill McKibben, Gretel Ehrlich, Gary Nabhan, Rick Bass, David James Duncan, Robert Michael Pyle, John Lane, Marc Reisner, and others. It has also acquired the archives of the The Orion Society and developed supporting collections of work by Edward Abbey, Edward Hoagland, and Howard Norman. Lopez travels to Texas Tech University, where he is the university's Visiting Distinguished Scholar, at least twice annually.

#### CONVOCATIONS COMMITTEE

Ms. Heidi Winkler, Chair

Dr. Courtney D Gibson, Co-Chair

Mr. Ian Barba

Ms. Shelley Barba

Mr. Jacob M. Baum

Dr. Shane Blum

Dr. Rhonda Boros

Dr. Valerie Borum

Dr. Alec Cattell

Ms. Luciana C. Cavazos

Dr. Julie Chang

Dr. Danny Choi

Mr. Don Collier

Dr. Fanni Coward

Dr. John A. Dawson

Dr. Audra Day

Ms. Esther De Leon

Ms. Amiee Dixon

Prof. Genevieve Durham

Dr. Nadia Flores

Ms. Jordan Frierson

Dr. Kristi Gaines

Dr. Michael Giesselmann

Mr. Ben Haugland

Dr. Vijay Hegde

Ms. Laura Heinz

Dr. Annette Hernandez

Ms. Markicia Horton

Dr. Catherine Jai

Mr. Jesse Jou

Ms. Jessica Kirschner

Dr. Belinda Kleinhans

Dr. Erin Marie Legacey

Dr. Jonathan Marks

Dr. Barent McCool

Ms. Sheon Montgomery

Dr. Mark Moore

Mr. Damian Pantova

Dr. Michelle Pearson

Ms. Gabi Perez-Hunt

Mr. Tom Rohrig

Dr. Jhones Sarturi

Ms. Courtney Seely

Dr. Walter Smith

Ms. Stephanie Soto

Ms. Carrye Syma

Mr. Jake Syma

Dr. Marcus Tanner

Dr. Leslie Thompson

Dr. Susan Tomlinson Mr. Von Venhuizen

Dr.Jian Wang

Mr. Seth Warren-Crow

Dr. Richard Watson

Dr. Lynn Whitfield

Ms. Feruzan I Williams

Dr. Aliza Wong

Ms. Kiley Yonavich

#### **MUSIC ENSEMBLE**

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

#### **COLLEGE READERS**

College of Agricultural Sciences & Natural Resources - Dr. Warren Conway

College of Architecture - Dr. Julie Zook

College of Arts & Sciences - Dr. Jorge Iber and Dr. David Roach

Rawls College of Business Administration -Mr. Derrick Ginter

College of Education – Dr. Doug Hamman

Whitacre, Jr. College of Engineering -

Dr. Ken Rainwater and Dr. Martin Azese

Graduate School - Dr. Bill Gelber

Honors College - Dr. Martin Azese

College of Human Sciences -

Dr. Bill Gustafson

College of Media & Communication -

Dr. Todd Chambers

University Programs and Wind Energy -

Dr. Marcus Tanner

Talkington College of Visual &

Performing Arts - Prof. Karl Dent

#### **ADMINISTRATIVE REPRESENTATIVES**

College of Agricultural Sciences & Natural

Resources - Ms. Macie Reese

College of Architecture -

Ms. Amy Peterman

College of Arts & Sciences -

Ms. Kymberli Saldaña

Rawls College of Business Administration -

Ms. Geleah Sharp

College of Education - Ms. Karen Noles

Whitacre, Jr. College of Engineering -

Ms. Tonette Rittenberry

*Graduate School* – Ms. Katie Chapman

Honors College - Ms. Cheyenne Belew

College of Human Sciences -

Ms. Ashlee Brown

College of Media & Communication -

Ms. Julia Heard Witt

University Programs - Ms. Kacey Marshall

and Ms. Rachel Frazier

Talkington College of Visual &

*Performing Arts* – Ms. Kathy Nordstrom

#### **PROGRAM**

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

#### STUDENT BANNER BEARERS

College of Agricultural Sciences & Natural

Resources - Ms. Kaylynn Kiker

College of Architecture - Ms. Kaitlyn Warmack College of Arts & Sciences -

Mr. Blake Ferguson

Rawls College of Business Administration -Ms. Nancy McNeil

College of Education - Ms. Erin Gorden

Whitacre, Jr. College of Engineering -

Ms. Anam Mahmood

Graduate School - Ms. Ashley West

College of Human Sciences -

Ms. Molly Gilmore

Honors College

2:30 p.m. - Ms. Abigail Raef

9:00 a.m. - Ms. Valerie Gardner

1:30 p.m. - Mr. Jacob Howle

College of Media & Communication -

Ms. Caroline Huey

*University Programs* – Mr. Avery Holmes

Talkington College of Visual &

Performing Arts - Ms. Heather Lynn Harris

#### **FACULTY BANNER BEARERS**

2:30 p.m. - Fanni Coward, Ph.D. Associate Professor of Curriculum and Instruction, College of Education

7:30 p.m. - Claudia Cogliser, Ph.D. Associate Professor of Management,

Rawls College of Business Administration

9:00 a.m. - Jean Scott, Ph.D. Professor of Human Development and Family Studies, College of Human Sciences

1:30 p.m. - Erica Irlbeck, Ph.D. Assistant Professor of Agricultural Education and Communications, College of Agricultural Sciences & Natural Resources

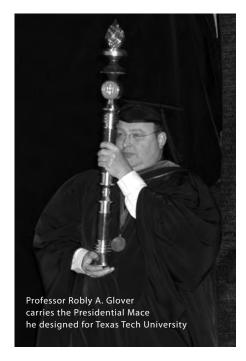
#### LIBRARY BANNER BEARERS

2:30 p.m. – Ms. Jingjing Wu

9:00 a.m. – Mr. Matt McEniry 1:30 p.m. – Mr. Joshua Salmans

This program is an unofficial list of Spring 2019 graduates and should not be used to determine a student's academic or degree status. The actual award of honors reflected on a student's diploma will be determined by the student's final academic average. The university's official registry for conferral of degrees is the student's permanent academic record kept by the Office of the Registrar.

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**

#### **Undergraduate Ceremonies**

1:30 P.M., MAY 18 ..... SHERICE GEARHART, Ph.D

Assistant Professor of Public Relations, College of Media & Communication

National Wind Institute

#### **GRADUATION HONORS**

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

Aliyah Destinie Acuña Kathrine Nikole Adams Indro Wicaksono Adisoemarta Oscar Almazan Stephan Brian Azatian Courtney Anne Bartholomew Rivir Scott Berry Danielle Madison Bodette Caitlin Jane Boyle Rodie Wayne Brister Emma Catherine Brocato Hope Sheriece Brookshire Phuong Duc Bui Amanda Michelle Burton Austyn Kate Casale Lucchese Lena Cogdell Garrett M. Cole Olivia Marie Copeland Lillian Elizabeth Corrigan Hannah Asha Daniel Madison McKay Davis Maria Judith DeMarco Kristian Dominguez

Destiny Alyse Doran Juan Eliazar Duran Jenni L. English Adrian Nguyen-Si Falco Blake Aaron Ferguson Kip Keith Fletcher **Emily Katherine Frank** Pauline LeeAnn Franklin John Matthew Froboese Pamela Marie Gandy Jonathan M. Gibson **Emily Ann Gideon** Molly Taylor Gilmore Bailey Jo Gomez Stephanie Gomez Kerry Erin Gonyeau Erin Elizabeth Gorden Baylie Morale Halbakken Adam Lee Harper Jaxom H. Hartman Joseph Michael Hartman Caroline Rose Huey **Avery Jackson Holmes** 

**Hannah Sabine Hughes** Ethan Gregory Johnson Kaylynn Beth Kiker William Sansom Klump Claire Marie Linenberger Anam Mahmood Thachary Ray Mayer Monica Ophelia McGee Nancy Wu McNeil Jamilla Wanjiko Menefee Marissa Jean Medina Benjamin Isaac Mills **Taylor Elizabeth Moose** Quoc Trieu Nguyen Jessica Elizabeth Nichols Karina Ocañas Lindsay N. Ollivant Shree Ashish Patel Kara Beth Pepper Jesse Robert Perez Kien T. Phan Lauren Marcella Priddy Abigail Eleanor Raef

Yoana Duran Ramirez Nandini Arunava Ray Sparsh Pratik Ray Riley Benjamin Reich Robert Davis Rickard **Brittany McKhailey Roberts** Christian Rodriguez Abdou Khadim Sakho **Breelin Noelle Shafer** Colton Thomas Shaw Peyton Nicole Sifrit Avery Claire Smith **Brandon Richard Spencer** Courtney Shae Stephens Haley Renee Stevers Michael Lawrence Tagliabue Jenna Leanne Townsend Kendra Viet Alexander Paul Vogler Marah Maclaire Walls Jordan Taylor White **Tucker McAaron Wise** Kristen Dené York

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

#### Nicole Rav

Dissertation: Pin It, Share It, Like It, Retweet It: California Agriculture Teachers Perceived Usefulness of Social Media in their Professional Learning Major Professor: Courtney Meyers

#### **EDUCATIONAL LEADERSHIP**

#### Brian Rav Bibb

Dissertation: Improving College Readiness and Preparedness: Using Professional Development and Curriculum Alignment to Improve Instructional Practices and Build Capacity and Selfefficacy in Teachers and Principals Major Professor: Joseph Claudet

#### Stephanie Denise Free

Dissertation: Focused on Intentional Learning (FOIL) of Inclusive Practices for Campus Leaders Major Professor: Joseph Claudet

#### Farrah Dawn Gomez

Dissertation: An Investigation of a Professional Learning Program for Campus Based Instructional Leaders to Increase Student Engagement and Teacher Capacity Major Professor: Joseph Claudet

#### William Dewayne Paul, Jr.

Dissertation: Instructional Technology Integration: A Teacher-based Intervention in a Rural School Major Professor: Fernando Valle

#### Joshua Paul Wheeler

Dissertation: Investigating the Liberation Mindset: A Phenomenological Study of the Practices and Mindsets of Effective Teachers Working with Underserved Student Populations Major Professor: Fernando Valle

#### Kellie Jean Wilks

Dissertation: Intentional Technology Integration and Digital Literacy Development: A Designbased Insider Action Research Study Major Professor: Joseph Claudet

#### HIGHER EDUCATION ADMINISTRATION

#### **Brook Redmon Dickison**

Dissertation: Decreased State Appropriations and their Impact on Texas Public Four-Year Higher Education Institutions Tuition Rates through Deregulated Tuition

Major Professor: Stephanie J. Jones

#### Reymundo Ramos

Dissertation: Poniendose Las Pilas: A Critical Discourse Analysis of First-time in College Latino Male Experiences in a Comprehensive Academic Enrichment Program at a Large, Public, Hispanic-Serving Institution in Texas

Major Professor: Hugo Garcia

#### Lindsay Ann Voyles

Dissertation: University Personnel's Perceptions of and Experiences with Student-Athletes and Athletic Student Services Programming Major Professor: Stephanie J. Jones

#### Wendy Elaine Yoder

Dissertation: Student Perceptions of how Faculty Advising Supports the Academic Persistence of Students of Color at one Predominantly White Institution

Major Professor: Stephanie J. Jones

#### **DOCTOR OF MUSICAL ARTS**

#### Candice Lane Aipperspach

Dissertation: Antimilitarisitc Reactions to 9/11: An Analytical Performance Guide to Ned Rorem's "Aftermath" Major Professor: Rebecca Hays

#### Spencer Phillip Hartman

Dissertation: The Flutist's Palette: An Integrated Approach to Expanding Sonic Timbre through Phonetics and Vocal Practices
Major Professor: Lisa Garner

#### Ian Paul Hewetson

Dissertation: An Annotated Bibliography of Original Works for Flute, Horn and Piano Major Professors: Christopher M. Smith and Lisa Rogers

#### Skye Antoinette Holmes

Dissertation: Connecting Visual Art and Music: Adam Schoenberg's "Picture Studies," Cindy McTee's "California Counterpoint: The Twittering Machine," and James M. David's "I Saw the Figure 5 in Gold"

Major Professor: Sarah McKoin

#### William Linthicum-Blackhorse

Dissertation: Anthology of Adaptations, Analysis and Discussion of an Original Composition, Musical Drama, and 21st Century Music Topics regarding Edgar Allan Poe's "The Raven" Major Professor: Peter Fischer

#### Hannah Frances Macgillivray

Dissertation: A Modern Edition of the Johann Matthias Sperger's "Sonata for Contrabass and Violincello in B Minor" Major Professors: Mark Morton and Virginia Whealton

#### Guytano Martorano III

Dissertation: Developing a Sight-reading Pedagogy for the Brass Studio: The Use of Supplemental Material to Improve Sight-reading Ability Major Professor: Kevin Wass

#### Justin Ryan Nelson

Dissertation: Songs in the Night: Selected Male Part-songs of Anton Bruckner Major Professor: John Hollins

#### Vince Nico Ocampo

Dissertation: Six Characteristic Pieces of the Philippine Music for Bassoon and Piano Major Professor: Richard Meek

#### Pablo Seguel Ponce

Dissertation: Simandl-Plus: Double Bass Fingering Strategies and its Benefits to Technical and Artistic Interpretation of Music Major Professor: Mark Morton

#### Lindsay Marie Smith

Dissertation: An Examination of Selected Double Horn Concerti from Baroque to Romantic Major Professor: Christopher M. Smith

#### **DOCTOR OF PHILOSOPHY**

#### AGRICULTURAL AND APPLIED **ECONOMICS**

#### Glenn Lucas Furton

Dissertation: The Political Economy of Reform Major Professors: Adam Martin and

Alexander Salter

#### Gifty Sienso

Dissertation: Essays on Food, Nutrition, Health and Development in Northern Ghana Major Professor: Conrad Lyford

#### AGRICULTURAL COMMUNICATION AND EDUCATION

#### Carla Andrea Millares Forno

Dissertation: The Effects of Instructor Characterisics and Student Gender on Student Expectations of Instructor Effectiveness: A Mixed Methods Study Major Professor: Amy Boren-Alpizar

#### **ANIMAL SCIENCES**

#### Edgar Omar Aviles Rosa

Dissertation: The Effect of Swine's Semiochemicals on Pigs' Behavior, Physiology and Production Major Professor: John McGlone

#### Kelsea Marie Brown

Dissertation: The Sociable Dog: A Systematic Experimental Investigation of Canine Social Behaviors Major Professor: Alexandra Protopopova

#### **David Leo Campos**

Dissertation: Isolation, Application and Optimization of Lactic Acid Bacteria Cultures L28 Lactobacilus salivarius and J19 Enterococcus faecium to Reduce Listeria monocytogenes on Cheese

Major Professor: Mindy Brashears

#### April K. Englishbey

Dissertation: Evaluation of Antimicrobial Interventions to Reduce Escherichia coli in Surface Irrigation Water and Produce Grower's Perceptions of the Food Safety Modernization Act Produce Safety Rule Major Professor: Kendra Nightingale

#### Alejandra Ramirez Hernandez

Dissertation: Assessing the Effect of Interventions on Pathogens and the Microbial Ecology of the Poultry Processing Chain by Microbial Profiling and the Phentotypic and Genotypic Characterization of Antimicrobial Resistance Major Professors: Marcos Sanchez and Mindy Brashears

#### Joel D. Sugg

Dissertation: Evaluation of Eragrostis Tef as a Forage Option for Grazing Beef Cattle on the Southern High Plains Major Professor: Jhones Sarturi

#### Kimberly Blair Wellmann

Dissertation: Evaluation of Vitamin A and Zinc Propionate Supplementation on Performance, Sera Metabolites, Muscle Fiber and Carcass Characteristics in Beef Steers Major Professor: Bradley Johnson

#### Lingna Zhang

Dissertation: Enrichments Strategies that Modify Cat Behavioral Patterns: Their Applications in Improving Welfare Major Professor: John McGlone

#### **BIOLOGY**

#### Meijun Dong

Dissertation: Soil Microbial Community Resistance and Resilience to Biodiesels vs. Petroleum Diesel

Major Professor: Deborah Carr

#### Weda Shalika Deshani Karunaratne Silva

Dissertation: Characteristics and Significance of Batrachochytrium dendrobatidis Monolayers and Mucinolytic Activity

Major Professor: Michael San Francisco

#### **BUSINESS ADMINISTRATION**

#### Corev Allison Collins

Dissertation: Data Breach Severity and Debt Market Responses Major Professor: Derek Oler

#### Kimberly Jane Tribou

Dissertation: An Empirical Analysis of External Audit Fees Paid by the United States Federal Government Agencies Major Professors: Denton Collins and William Pasewark

#### Yangmei Wang

Dissertation: The Influence of Compensation Incentives on Risky Investments: Evidence from Interim CEOs

Major Professor: Kristen Cook

#### Ashley Nicole West

Dissertation: The Role of Trait and State Moral Disengagement on FIN 48 Earnings Management Major Professor: Gary Fleischman

#### **CHEMISTRY**

#### Haoxi Chai

Dissertation: Regulation of PUT3, a Plasma Membrane Polyamine Uptake Transporter in Arabidopsis thaliana, by SOS1 and SOS2 Major Professor: Huazhong Shi

#### Megan Elizabeth Gonzalez

Dissertation: Defining Academic Safety Culture: A National Study Major Professor: Dominick Casadonte

#### Hyunsik Kim

Dissertation: Chemical Dynamics Simulations on Intermolecular Energy Transfer using a Unified Bath Model for Studying Liquid and Gas Phase Dynamics Major Professor: William L. Hase

#### Reed Aldon Nieman

Dissertation: A Theoretical Study of Carbon-based Functionalized Materials Major Professor: Clemens Krempner

#### **CIVIL ENGINEERING**

#### Tharanga Kumara Dissanayaka Mudiyanselage

Dissertation: Evaluation of Novel Asphalt Binder Modifiers and Additives to Improve Extreme Temperature Rheological Properties for **Enhanced Pavement Performance** Major Professor: Sanjaya Senadheera

#### Shuaigi Huang

Dissertation: Random Parameter Models with Nonlinear Functional Form and Heterogeneous Overdispersion Major Professor: Venky Shankar

#### Mehdi Jamali

Dissertation: A Human-centric Approach to Classify Post-disaster Recovery Priorities Major Professor: Ali Nejat

#### Suraj Dhoj Khadka

Dissertation: A Comprehensive Experiemental Study of Mineralogical and Mechanical Properties of Geopolymer Modified Fine and Coarse Grained Soils Major Professor: Priyantha Jayawickrama

#### Osman Okuyucu

Dissertation: Engineering Characterization and Adaptation of Controlled Low Strength Material (CLSM) Containing High Pozzolan Contents for Civil Engineering Applications Major Professors: Sanjaya Senadheera and Priyantha Jayawickrama

#### **COUNSELOR EDUCATION**

#### Kathleen Ann Phelan

Dissertation: American Indian Holistic Healing: Phenomenological Inquiry Sculpting the Circle of Life Major Professor: Aretha Marbley

#### COUPLE, MARRIAGE, AND **FAMILY THERAPY**

#### Nicholas Dee Hayes

Dissertation: Exploring the Impact of Therapist Feedback on Stress and Optimism in Substance Use Disorder (SUD) Treatment Major Professor: Kristy Soloski

#### Neli Morris

Dissertation: Testing Relationship Curvilinearity and Identifying the Moderators Between Technology Use and Individual and Interpersonal Well-Being Outcomes Major Professor: Jaclyn Cravens Pickens

#### **CURRICULUM AND INSTRUCTION**

#### **Khalid Burgess**

Dissertation: African American Students in High School Science: Effective Practices in Culturally Relevant Teaching Major Professor: Faith Maina

#### Charity Gamboa Embley

Dissertation: "Do Not Get Me Wrong — I Love American Culture, too.": A Postcolonial Narrative Inquiry Into the Identity Shaping of Filipino American Adoescents Using Literary Texts About Filipino Immigrants Major Professor: Jeong-Hee Kim

#### Michael Robert Ladick

Dissertation: Consistently Inconsistent: A
Content Analysis of Risk Management and Insurance Standards within National and
State Financial Education Curricula
Major Professor: Aaron Zimmerman

#### **David Christopher Taylor**

Dissertation: Out of School Time (OST) STEM Activities Impact on Middle School Students' STEM Persistence: A Convergent Mixed Methods Study Major Professor: Jerry Dwyer

#### Dong Zhou

Dissertation: A Sociocultural Analysis of Chinese Scholars' Perceptions of their Academic Writing Experiences in American Academia Major Professor: Rene Saldana

#### **ECONOMICS**

#### Behzod Bahadirjanovich Ahundjanov Dissertation: Impacts of Environmental and Tax Regulations Major Professor: Michael D. Noel

#### Hassan Anjum Butt

Dissertation: Essays in Financial Economics Major Professor: Michael D. Noel

#### Peumali Surani Withanage

Dissertation: Essays on the Macroeconomic Effects of Monetary and Macroprudential Policies Major Professors: Masha Rahnama-Moghadam and Armando Lopez

#### **EDUCATIONAL PSYCHOLOGY**

#### Christy Kennon Chapman

Dissertation: Co-morbid Anxiety Disorders in Children and Youth with Autism Spectrum Disorders Major Professor: Tara Stevens

#### Kristen Nicole Slate Lyons

Dissertation: Facilitating Young Children's Conceptual Knowledge of Mathematics Through Physical Activity Major Professor: Tara Stevens

#### **ELECTRICAL ENGINEERING**

#### **David Heinrich Barnett**

Dissertation: Development of a Highly Tunable Reflex Triode Vircator Major Professor: John Mankowski

#### Animesh Roy Chowdhury

Dissertation: Investigating Possibility of Lock-on in a Photo-conductive Semiconductor Switch (PCSS) for High Power Applications

Major Professor: Ravi Joshi

#### Hieu Khac Anh Nguyen

Dissertation: Simulation Studies of Breakdown and Charge Growth in Pulsed Power Systems Driven by Microwave Excitation Major Professor: Ravi Joshi

#### **ENGLISH**

#### Chad M. Abushanab

Dissertation: The Last Visit: Poems Major Professor: John Poch

#### Sumaia Ahmed Aldubaikhi

Dissertation: Young Saudis' Attitudes Toward Saudi Pidgin Arabic Major Professors: Mary Jane Hurst and Scott Baugh

#### Margaret Emma Brandl

Dissertation: The Valley of Your Heart: Three Novellas Major Professor: Katie Cortese

#### Joseph Peter Dornich III

Dissertation: The Ways We Get By: Stories Major Professor: Leslie Jill Patterson

#### Mark Lee Keats

Dissertation: Loud and Mute Birds: A Novel Major Professor: Katie Cortese

#### Brian Ronald Larsen

Dissertation: Pilotage: Poems
Major Professor: William Wenthe

#### Kerry Manzo

Dissertation: "When We See It, We Shall Be Happy": The Mbari Movement, Queer Emergence, and Counterpublics in the Production of West African Literature Major Professor: Kanika Batra

#### Bethany Anne McKinney

Dissertation: How to Fit All the Planets in a Model Solar System: Poems Major Professor: John Poch

#### Sarah Jane Sprouse

Dissertation: Fantasies of Wales: Some Paleographic Evidence for the Mediating Role of Gerald of Wales Major Professor: Julie Couch

#### **ENVIRONMENTAL TOXICOLOGY**

#### Yu-Wei Chang

Dissertation: Susceptibility to Kidney Diseases from Chronic Exposure to Arsenic or Nicotine Major Professor: Kamaleshwar Singh

#### Lucy Porada Lim

Dissertation: Analysis of Indoor Radon in Texas and Depleted Uranium in Hawai'i Major Professor: David Klein

#### Katherine Rosellyn Shaw

Dissertation: Determination of Several Elements in Chelonia mydas and Pterodroma hypoleuca from Hawaii
Major Professor: David Klein

#### EXPERIMENTAL PSYCHOLOGY

#### Elizabeth Marie Niedbala

Dissertation: An Extension to Group-based Uncertainty Reduction: Extreme Self-perceptions of Ingroup Prototypicality

Major Professor: Zachary Hohman

# FAMILY AND CONSUMER SCIENCE EDUCATION

#### Kyle Lynn Roberson

Dissertation: A Road Never Traveled: Using Autoethnography to Gain Insights for Improving Correctional Education and Reducing Recidivism Major Professor: Karen L. Alexander

#### **FINE ARTS**

#### Sarai Grace Brinker

Dissertation: Creating an Arts-integrated Prenatal Education Course: An Applied Ethnographic Approach to Addressing the Problem of Pre and Post-natal Wellness in High-risk Populations Through the Arts

Major Professor: Angela Mariani

#### Candice Marie Holley

Dissertation: Marian Devotion in Music: Three Settings of the Ave Maris Stella by Selected Composers at the Santissima Annunziata, Florence (17-1900 A.D.) Major Professor: Angela Mariani

#### Kimberly Lauren Jones

Dissertation: Women in Contemporary Israeli Cinema Major Professor: Constance Cortez

#### Charles Andrew Whitehead

Dissertation: Creating Musical "Truth": An Interdisciplinary Application of Selected Elements from Konstantin Stanislavski's Acting 'System' to the Classical Pianist's Selection, Preparation and Performance of Music for Solo Recital Major Professor: William Westney

#### **GEOSCIENCES**

#### Elyas Uyghur Anwer

Dissertation: A Receiver Function Study of Southern California Lithosphere Using Wavefield Iterative Deconvolution Major Professor: Harold Gurrola

#### HOSPITALITY ADMINISTRATION

#### Ahmed Abdulaziz Alshiha

Dissertation: Culture Intelligence, Job Satisfaction, and Turnover Intention in the Saudi Arabian Hotel Industry Major Professors: Shane C. Blum and Jingxue Yuan

# HUMAN DEVELOPMENT AND FAMILY STUDIES

#### Cary Rebecca Oldham

Dissertation: A Longitudinal Study of the Timing of First Sex in Romantic Relationships and Subsequent Relationship Quality Major Professor: Silvia Niehui

#### INDUSTRIAL ENGINEERING

#### Amin Nikakhtar

Dissertation: Piecewise Linear Approximation for Separable Concave Programming Problems Major Professors: Ismael DeFarias and Victoria Howle

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

#### Eric Don Busby

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

#### MECHANICAL ENGINEERING

#### Erik Alfredo Chumacero-Polanco

Dissertation: Nonlinear Dynamics of Human Upright Postural Stability on a Balance Board Using an Ankle-Hip Model Major Professor: James Yang

#### Kevin James Hill

Dissertation: Pre-stressing Aluminum Powder to Promote Reactivity Major Professor: Michelle Pantoya

#### Qi Lu

Dissertation: Robust Control for a Quadrotor Unmanned Aerial Vehicle in Complex Environments Major Professors: Siva Parameswaran and Beibei Ren

#### MEDIA AND COMMUNICATION

Lynn Jessica Foumena Agnoung

Dissertation: Raising Her Voice Across

Africa: Women's Empowerment Through

Digital Storytelling

Major Professor: Kent Wilkinson

#### Samer Melhem

Dissertation: A Mixed Method Approach to Comparing Cultural Influence on Communication Apprehension in an Employment Interview Setting Major Professor: Narissra Punyanunt-Carter

#### **NUTRITIONAL SCIENCES**

#### Maliha Tabassum Munir

Dissertation: Vitamin D3 Regulates Breast Cancer Cell and Macrophage Function in the Tumor Microenvironment Major Professor: Shaikh Rahman

#### Ziaul Hasan Rana

Dissertation: Analyses of National and Local Data to Determine Associations in Separate Child and Adult Samples: Examining Predictors of Stunting Among 24-59 Month Old Children in Bangladesh and Interrogating Associations of Weight History and Attempts to Lose/Manage Weight in West Texas, US

Major Professor: John Dawson

#### Sanjoy Saha

Dissertation: Effect of a Nutrition Education Intervention with or without a School Garden on Selected Factors that Influence Dietary Behavior of Fruit and Vegetable Consumption among Elementary School Children in Lubbock, Texas Major Professor: Wilna Oldewage-Theron

#### PERSONAL FINANCIAL PLANNING

#### Leobardo Diosdado

Dissertation: Household Choices and Debt Organizations: Three Essays Analyzing the Effects of Debt Obligations on a Household's Utility and/or Consumption Major Professor: Donald Lacombe

#### PETROLEUM ENGINEERING

#### Abdunaser Omar Susi

Dissertation: Quantitative 3D Analysis of Fracture Propagation Resulting from Composite Layering Effect in Unconventional Reservoirs Major Professor: Lloyd Heinze

#### **PHYSICS**

#### Hawra Abdullah M. Alghasham

Dissertation: Phase\_Recovery Thermal Imaging Major Professor: Luis Grave de Peralta

#### Omar Hammad H. Alsalmi

Dissertation: First Principles Study of the Binary Ti-AI Phase Diagram at High Temperature Major Professor: Mahdi Sanati

#### Alexandra Vladimirovna Gordienko

Dissertation: A Comprehensive Study of the Growth of TiO2 Via Pulsed-laser Deposition: Annealing Effects, and Substrate-Film Interface Physics

Major Professor: Anthony B. Kaye

#### Michael C. Holcomb

Dissertation: Coordination of Ventral Furrow Formation during Drosophila Gastrualtion through Mechanical Stress Feedback Major Professor: Jerzy Blawzdziewicz

#### Sueli Del Carmen Skinner Ramos

Dissertation: Toward a Phase-imaging Optical Nanoscope Major Professor: Luis Grave De Peralta

PLANT AND SOIL SCIENCE

#### Madhay Dhakal

Dissertation: Improvement of Perennial Warm-season Native Grassland with Alfalfa Major Professor: Charles P. West

#### Niwanthi Dissanayake Dissanayake Ralalage

Dissertation: Cellulose Dissolution in Ionic Liquids

Major Professor: Noureddine Abidi

#### Nana Yaw Owusu Kusi

Dissertation: Potassium Uptake, Utilization and Chemistry in Cotton and Soils of the Texas Southern High Plains
Major Professor: Katie L. Lewis

#### Rand Michael Merchant

Dissertation: Management of Glyphosate-resistant Palmer Amaranth in West Texas Major Professor: Peter Dotray

#### Yedan Victoria Xiong

Dissertation: Calibration of ALMANAC Model and APSIM Model for Simulating Growth of WW-B.Dahl Old World Bluestem [Bothriochla bladhii (Retz) S.T. Blake] Major Professor: Charles West

#### **SPANISH**

#### Jesús David Ramírez Méndez

Dissertation: Adjetivacion, Creatividad y Descripcion: La Dimension Estetica del Nuevo Periodismo en la Narrativa de Arturo Perez-Reverte y Luis Spota Major Professor: Jorge Zamora

#### **SPECIAL EDUCATION**

#### Rebecca Lynn Beights

Dissertation: Examining Visual Attention in Autism Spectrum Disorder: An Exploratory Analysis of Instructional Stimuli in Young Children Major Professors: Westley Dotson and Ann Mastergeorge

# SYSTEMS AND ENGINEERING MANAGEMENT

#### **Eric Duane Easton**

Dissertation: The Quantification of HILF Event Resilience in Electric Power Delivery Major Professors: Mario Beruvides and Andrea Jackman

### TECHNICAL COMMUNICATION AND RHETORIC

#### Nicole Kathleen Borrenpohl

Dissertation: Dangerous Freedom, American Liberty, and Peaceable Citizens: Firearms and American Identity Through the Smithsonian National Museum of American History Major Professor: Kendall Gerdes

#### Mark Evan Davis

Dissertation: Developing Ambient Methods for Ambient Rhetorics Major Professor: Greg Wilson

#### Julie Marie Gerdes

Dissertation: Constructing Risk in Emergency Health Responses: A Rhetorical Analysis of Transnational Zika Communication in the Caribbean

Major Professor: Greg Wilson

#### Elizabeth Erin Kafka

Dissertation: User Experience of the LMS: Using an LXA-based Heuristic to Inform the Pedagogical Experience Major Professors: Kelli Cargile Cook and Brian Still

#### Jack Thomas Labriola

Dissertation: Investigating the User-centered Design Method: Designing an App for a Better Undergraduate Collaborative Experience Major Professor: Brian Still

# WILDLIFE, AQUATIC AND WILDLANDS SCIENCE AND MANAGEMENT

#### Matthew R. Acre

Dissertation: Assessing Demography, Habitat Use, and Flow Regime Effects on Spawning Migrations of Blue Sucker in the Lower Colorado River, Texas Major Professors: Richard Stevens, Allison Pease and Timothy Grabowski

#### Byron R. Buckley

Dissertation: Characterization and Analysis of Immune Genes in Northern Bobwhite (Colinus virginianus)

Major Professor: Brad Dabbert

#### WIND SCIENCE AND ENGINEERING

#### Joseph B. Dannemiller

Dissertation: Investigation of HWind Simulation Wind Speeds and a Methodology for Simulating Distributions of Extreme Winds in Hurricane Environments

Major Professors: Doug Smith and Stephen Morse

#### **MASTER OF AGRIBUSINESS**

Lance Sears Easterling, Jr. Garrett Layne Scitern John Colton Stephens

#### **MASTER OF ARCHITECTURE**

Addison Thomas Cundiff

Valeria Duron

Taylor Ryan Grandorf

Hector I. Guerra Garza

Xiuyin Hu

Arezoo Kayal

Thao Ha Le

Maria Lourdes Leon

**Zachary Wayne Morris** 

Ethan Tyler Morrison

Zane Tyler Robles

Steven Nathaniel Roop

James Austin Taylor

Josiah Kent Thomas

Marissa Leigh Williams

#### MASTER OF ART EDUCATION

Elizabeth April Dawn Terry-Griffith

#### MASTER OF ARTS

#### **ANTHROPOLOGY**

**Taylor Denise McKinney** 

Thesis: An Archaeological Examination of Lifeways at Mission San Lorenzo de la Santa Cruz, Real County, Texas (41RE1)

#### **COMMUNICATION STUDIES**

Dalton Michael Bergan

Thesis: A Rhetorical Examination of

Memory and Masculinity

Shavanna Joyce Caruso

Thesis: Exploring Emergent Roles in Stepfamilies

Jackson Scott De Vight

Thesis: Rituals of Security and American Identity:

Two Papers on the Contemporary Moment

Kyra Nicole Heatly

Thesis: Performance and Power:

Confronting Hollywood's Mediated

Portrayals and Treatment of Women

Michelle Ann Hershberger

*Thesis*: Managing Graduate Teaching Assistant Misbehaviors: Perspectives of Basic Course

Directors' from the Front Porch

#### **ECONOMICS**

Abdullah Sultan Al Shammre

*Thesis*: The Impact of Oil Market Shocks on the Stock Market Returns in Saudi Arabia:

A Markov Regime Switching Approach

#### **ENGLISH**

William Raiford Brown

Dakota Shawn Chisum

Alexa Nicole Dodd

Amie Caroline Hunter

Thesis: Graphic Novels as a Medium

for Challenging Gender Stereotypes

Wesley A. Jones

Thesis: Monsters and Masculinity: Orientalism,

Imperialism, and Existential Threat in

Late-Victorian Gothic Fiction

Morgan Clare Noble

Thesis: Forging Fate: The Tale of Thomas

Malory's Morgan Le Fay

Omonpee W. Petcoff

Briana Kaye Stewart
Fred Davis Winchester IV
Thesis: More Than Keeping It Real:

Whiteness in Contemporary Hip-Hop

#### **EXPERIMENTAL PSYCHOLOGY**

**Anthony Miles Foster** 

*Thesis*: The Secrets We Tell: The Impact of Motivation and Disposition on Concealable Stigma

Disclosure

Ashley Alexandra Garcia

Serena Mangano

Michael Shaun Penuliar

#### **HISTORY**

Jacquelyn Irene Anderson

Kayla Michelle Gray

Thesis: Superstition Paved the Way: The Ideological Origins of Superstition and Witchcraft in Anti-Catholic Rhetoric in

the Sixteenth Century

Kayla Leanne Maples

Thesis: Heroic Contradictions: Religion, Machismo and PTS Among Mexican, Mexican American and Chicano Vietnam Veterans

#### **INTERDISCIPLINARY STUDIES**

Kerryian Kisean Allen Hamza Bin Khalid Erika Lizzeth Casarez Rachel Marie Frazier

Joshua Michael Montano

LANGUAGES AND CULTURES

Lorena Fabiana Alarcon

Yesica Lorena Amaya Camargo

Matthew Lee Horn

Kai-Ying Hsu

Sahar Jaf Shateri

Dylan Prescott Lewis

Xiaoyu Liu

Miles Jeffrey Pedretti-Allen

Nagisa Shimizu

Tyler James Simpson

Marthevienty Herny Theopilia Soumokil

Brett Lee Stine

Sultan Yahya Tawhari

#### MASS COMMUNICATIONS

Blake Alexander Bayardo Stephen Samuel Castro

Meredith Ann Caudle

Morgan Victoria Cornell

Traci Sue Couch

Bianka Torre' Curvey

Melissa Ann Elias

James Scott Greenhaw

Thesis: Rather Mindless or Rather Beneficial:

How Visual Selective Attention May be

Improved Through Increased Hours

Spent Playing Video-Games Per Week

Hailey Madeline Herrick

Kevin Hagen Hoffman

Paul Allen Hunton Alicia Marie King

Carolyn Elise Owen

Simon Scott Parmley Mackenzie Sterling Pierce **Emilieann Marie Riley** Lana Tipsy Rush Chloe Catherine Vaughan Laura Anne Webb

Madison Renae Woodhouse Bingbing Zhang

Thesis: Why do People Use Memes to Talk about Politics? Application of Uses & Gratifications Theory to Political Memes

#### **MATHEMATICS**

Vedant Tripathi

#### **PHILOSOPHY**

Patrick Nicholas Brooks Chad Ryan Cummings Mark Andrew Simoncic Donald Elwood Soles III Colin Gordon Viray

#### **POLITICAL SCIENCE**

Jiayi Zhou

Thesis: Ancestry, Religion, Context, Discrimination Experience: Explaining the Partisan Orientations of Asian Americans

#### **PSYCHOLOGY**

Victoria Leigh Beach

*Thesis*: Examining the Relations between Hopelessness, Thwarted Interpersonal Needs, and Death Ideation among Older Adults: Does Meaning in Life Matter?

Jordan Ann Gette

Thesis: Socioeconomic Status and Risk Perceptions of Cannabis: Assessing the Role of Race

Nikki La Rosa

Thesis: The Moderating Role of Pessimism in the Relation between Peer Victimization, Thwarted Interpersonal Needs and Suicide Ideation

Chelsy Shay Simmons

Thesis: Executive Function, Intent to Exercise, and Consideration of Future Consequences: A Mediation Model

Casey Garrett Thornton

Thesis: Developing and Evaluating Cognitive Behavioral Case Formulations and Network Analyses Within Complex, Comorbid Cases: Implications for Treatment

#### **ROMANCE LANGUAGES**

Dania Ashraf Al-Barghuthi Megan Aranda Consuelo del Val Zaballos Noemie Hamaide

Thesis: Les multiples visages de la gare: genre romanesque, lieu anthropologique, non-lieu, lieu d'anxiété et personnages

Myriam Rubio Hernández Alexander Evan Smith

#### **SOCIOLOGY**

Alexandra Maria Haney Thesis: Title IX Disclosure: Factors Impacting a Person's Likelihood of Filing a Title IX Report

Caleb Timothy Lawson

Thesis: The Effect of Heteronormative Socialization on Beliefs, Attitudes, Perceptions, and Behaviors

Elle Arline Rickman

Thesis: Multifaceted Religion and its Relationship with Violent Attitudes and Behaviors

#### STRATEGIC COMMUNICATION AND INNOVATION

Cherylan Butler Courtney Corinne Carr John Philip Christian Kimberly Lisa Eye Kimberly Jean Hoelscher **Angela Crawford Jones** Mallory Megan Peek Lisa Rena Vasquez Hailey Angeline Walker Valonia Noelle Walker David Michael Wiechmann

#### **TECHNICAL COMMUNICATION**

Jeanna Goodrich Balreira Michelle Nichole Cowan Erin Anne Jerison Dina Teresa Lopez Katie Sanchez

#### **MASTER OF BUSINESS ADMINISTRATION**

#### **GENERAL BUSINESS**

Hussain Raza Abidi Jennifer Ann Anderson Victoria Selina Anzaldua Jordan Armstrong Kristen Rose Baca Kristin Diann Bailey Zackery Justin Baird **Robin Claire Bankey** Lance Taylor Beyer Christopher Sam Boren Sarah Elise Brinson Sara Postl Brown **Daniel Willis Capps** Jonathon Joseph Chanev Laxmi Ayushi Chintakayala Zachary Robert Daniels Xuan Ngoc Dao Catano Andrew Lee Davis Daniel Marc De Simon Phuong Thao Thi Dinh Jeremy V. Doan **Andreas Norbert Dreifuerst** Reagan Faith Ewing Scotty Dean Goodale Jarrod Douglas Graham Christina M. Hansen **Rhett Tyler Harris** Lucy Ho Andy Peter Katzianis Addison Faye Kirk Alexandra Denise Kobus

Elias Antonio Lainez

Barnan Lamichhane

Christopher Quang Le

Justin F. Langreck

Mitchell Ryan Lott

Andrew Ameche Maduneme Parker Reid Martinez Brandon R. McCoy Gabriel Ignacio Medellin Tuong Nhat Nguyen Cynthia Nguyen Lauren Nolan Carly Louise Oberdieck Parth Upendra Patel Adrian Anna Polizzi Paul James Priebe Tejal Rana Garrett James Randle Weston Case Seidler David Matthew Serna Patrick Christian Seymore Billy J. Sibley Stephen Theodore Singleton Logan Paul Smith William Alan Sommer Sara Elizabeth Sorge Spencer Shawn Spriggs Sydney Terry Reynaldo Torres Arellano Erik Howard Torring IV Kingsley Ugoji Varun Vemulapalli Keltin L. VonGonten Weston G. Waldo Bruce O'brian Wilson, Jr. Johnathan S. Young

#### MASTER OF EDUCATION

#### **COUNSELOR EDUCATION**

Imani Eunique Brown Martin Nassar Carrasco Elaine Rozanna Coddington-Shannon Allison Chelsey Cook Kaymi Lynn Franco **Emilee Beyer Hammond** Taylor Laurin Hendrix Ugochi Blessing Iwuji Justin Andrew Kellar Mi-Chelle Leong Jennifer Renea Maldonado Katherine Broadwell McAlpine William Peter Miller Hayley Danielle Olson Connor W. Ondriezek Kelsey Grace Ondriezek Bryana Leigh Ortiz Taylor C. Rindlisbacher Lindsey Ann Roush Murry Thompson Sandlin Kayla Elizabeth Stephens Katelyn Fain Trotter Shannon Elizabeth Walding Chen Wang Elizabeth Gremillion Witmore

#### **CURRICULUM AND INSTRUCTION**

Wade H. Allen Allison Ann Brown Valerie Castillo Ira Gjini Krystal Lynette Gonzalez Melissa Marie Hernandez Rebecca Maxine Ugalde Lindsey E. Young

#### **EDUCATIONAL LEADERSHIP**

Joseph Rocco Ennis II
Ysabel M. Garza
Lindsay Allison Harris
Kelli Ann Heathington
Morgan N. Holstead
Emily Rose Jackson
Kelleigh Nichole Knight-Whitten
Rebecca Ann LaChance
Ragini Parmar-Sell
Monica Salinas
Jarod Ross Scott
Patrick J. Villarreal
Tamara Marie Williams

#### **EDUCATIONAL PSYCHOLOGY**

Fabiola Stephanie Vargas

**Brandi Cristine Dennis** 

#### HIGHER EDUCATION ADMINISTRATION

Kelsey Lynn Frazier
Tyler Dion Hollowell
John Albert Jaso
Molly Ann McLean
Johnathon Thomas Morrissey
Courtney Lynn Savage
Thesis: The Impact of Experiences of
Asexual Students in Four-Year
Institutions of Higher Education
Molly Ann Thome
Alexis Blanche Tiefa
William Joseph Trahan II

#### **INSTRUCTIONAL TECHNOLOGY**

Alicia Katherine Bell Erin Noelle Calvert Gina Monroe Covington Yusuf Murat Ozdemir Ashley Nicole Parker Allison G. Stenson

#### **SPECIAL EDUCATION**

Susana Gonzales Andrews **Chad Anthony Applegate** Maurlissa Lynne Armstrong Erin Michelle Barker Cassidee Bean Amabilia Borunda Jamie Lee Bowling Cassidy Boyer **Taylor James Brooks** Laura Ann Burns Shaniqua Tyshena Butler Shauntee D. Carpenter Molly Walker Clark Hillary Suzanne Cobb Karina Onofre Cortez Paige Dawn Davidson Roxanna Nicole De Leon Wendy Marie Douglas Lauren Elizabeth Dunnam Jena Ellender Stacey Pennell Evans Stephanie Nicole Foster Crystal J. Galvan Joly Denis Giraldo Cedric Choy Goree Gloria M. Guerrero

Jason Haight

Amanda Lynn Hampton Heather Anne Hatcher Katie Nicole Horne Jessica Lynn Howard Tammie Marie Hundley Blanca Evelyn Jara Heather Lea Jeffers Brandi Harris Jordan Kirsten Leya Leatherwood Candice Olivia Lewis Marixa Letycia Lopez Dianela Martin Devon Kelsey Maun Rebecca Irean McGuire Samantha Jo Davidson McLendon April Marie Medina Andrea Marie Meehan Shellev Price Moreno

Andrea Marie Meehan
Shelley Price Moreno
Sarah Beth Mossberger
Heather Nicole O'Brien
Allison Renee Ortega Munoz
Haley Joan Palermo
Rene Perez
Melinda Whigham Piercefield

Yessenia Quezada Angela K. Reid Kasey Faye Rivas Juan Roel Rivera Nicole Michelle Sepulveda

Devin Nicole Sisomphou Hayley Danielle Stephan Kari Beth Steward Katherine Elizabeth Sulak Tara J'lee Toombs Amber Lee Wallace Erica Ann Temple White Mary Ann Williams

# MASTER OF ENVIRONMENTAL ENGINEERING

Austin Wade Bird Ryan Patrick Conner Jordan Duncan Valerie Jane Gardner Berkleigh Reagan Gressett Tori Kaylyn Haugvoll Ghazi Ibrahim Lili Kenya Kelley John Michael Lewchuk Mihna Kamille Lewis Kayla Jean Petersen Diego Y. Ramírez Eleodoro Silva Katherine Elizabeth Snyder Sydney Elizabeth Ann Stegint Ryan Cade Timmons María Celeste Velázquez Ortiz Sarah Velez Austin Davis Zamarripa

#### **MASTER OF FINE ARTS**

**ART** 

Carolina Alamilla Stephanie Rae Berrie Jessie Anne Dodington Michael A. Emerson Kristine Michelle Johnson Nathalie Dominique Lawrence Lauren Elena Lopez Jeramiah Jonathan Macha Monica Nicole Prado Samantha Jessica Resendez

#### THEATRE ARTS

Michelle Renee Benson
Thesis: Of Beauty Queens and
Childhood Dreams: An Original Play
Dóra Zita Bosnyák
Sara Abigail Bugh
Lauren Christine Carlton
Christen Leanne Connolly
Angela Gant
Caden James Glass
Jacob Charles Henry
Heyjin Kwon
Christina Lee Proper
William Lander West-Davis

#### **MASTER OF MUSIC**

**Andrew Bartley Campbell** Sarah Elizabeth Cornett Nectaria Paraskevi Delgadillo Jesus Andres Fuentes Valverde Zhenyu Gao Molly Kathleen Hickey Yixuan Huang Haley Elizabeth Kirychuk Lauren Lise Pokorzynski Christopher Michael Rojas Luca Sacher Justice Harrison Saldaña Chad David Scarborough Thesis: The Double-Tonic Complex and Yavorsky's Mutability Nathan Andrew Southwick Jayme Terrell Vaughn-Linebarger Ray Anthony Velasquez David Benedict Warren

# MASTER OF MUSIC EDUCATION

Rong Chen

# MASTER OF PUBLIC ADMINISTRATION

Yousef Shakeeb Mohammad Bani Melhem Sophia Br'Shey Copeland Tyler Henry Dominguez Terence McGrath Cole David McNiel Alexis Fay Milligan Trevor Dan Minyard Jeffrey Morris James Christopher Mullen Vincent Odhiambo Ndar Desiree Esosa Ojo Love Osahenrumwen Osemwegie Colten Jacob Philpott Oi Zhang

#### **MASTER OF SCIENCE**

AGRICULTURAL AND APPLIED ECONOMICS

Sawssan Boufous Laura Marie Bowen Leobardo Diosdado Christopher Yoe Williams, Jr.

Thesis: Effects of Nitrogen Fertilizer on Dryland Grain Sorghum Yield in the Texas Panhandle

#### AGRICULTURAL COMMUNICATIONS

Kimberly Raye Cantrell

Thesis: The Effect of Gluten-Free Labels

on Consumer Perceptions Chamonix Estelle Mejia

Rachel Siobhan Remmele Foster

Thesis: Agricultural Producers' Perceptions of and Preparedness for Agricultural Risks and Desired

Communication Strategies Kelsey Ann Smith

Thesis: A Case Study: Student Perceptions of a High-Impact Agricultural Learning Experience

#### AGRICULTURAL EDUCATION

Kristyn Julia Dickey

Thesis: One Seed at a Time: How an Urban Community Gardening Program Promotes Prosocial Development in Youth: A Grounded Theory Study

Haylee Marie Lindsey

Thesis: An Assessment of Factors Affecting Volunteerism in the Texas 4-H Program

**Emily Raines Oliver** 

Thesis: A Comparison of the Knowledge of and Attitudes Toward Sustainable Agriculture of High School Students in Texas and Nicaragua

Savannah Caroline Schroeder Thesis: The Effect of Metacognition on Emotional Engagement, Arousal and Attention During the Learning Process

#### **ANIMAL SCIENCES**

Dylan Cole Easley

Thesis: A Novel Controlled-Rate Freezer for Improved Semen Cryopreservation

Kerbey Elizabeth Jacobs

**Emily Nicole Mahalitc** 

Thesis: Effects of Lactic Acid Submersion of Beef Trimmings Stored 24 or 48 h and Subsequent Chub Storage Duration on Initial Ground Beef Odor and Color During Retail Display

Reginald Laramie Priest

Thesis: Flavor Profiles and Traits of Crossbred Dairy Cattle

Lauren Margaret Reitsma

Thesis: Effects of Oral Calcium Bolus Supplementation on Immune Cell Calcium Flux and Functionality in Primiparous and Multiparous Dairy Cows

Rachel Lauren Wyant

Thesis: Comparing Demand and Preference Assessments for Food Products in Dogs

#### **ARID LAND STUDIES**

Nwasinachi Uzoma Menkiti

Thesis: Understanding Land Cover Change in a Dry Sub-Humid Nature Reserve in Ghana Through OpenStreetMap and Remote Sensing

#### ATMOSPHERIC SCIENCE

Sarah Marie Dillingham

Thesis: A Case Study of a High-Precipitation Supercell-Bow Echo Transition on 4-5 June 2008 Jessica Mary McDonald

Thesis: An Analysis of Observed Cold Pools in VORTEX-SE Supercells and Quasi-Linear Convective Systems

#### **BIOLOGY**

Devin Hunter Kilborn

Bigyan Rimal

Thesis: Effect of Laser Stimulation and Cadmium Stress on Germination, Biomass Production and Cadmium Uptake in Brassica Napus

#### **BIOTECHNOLOGY**

Jair Torres Montford Armand Wagner Northcut Shivani Patel Helen Grace Scott

Thesis: Optimal Acclimation of C4 Photosynthesis Indicates Limited Long-Term Response to Elevated Temperature and CO2 Marisa Elise Wagley

#### **COMPUTER SCIENCE**

Shivendra Satish Dubeer Zakery Alexander Fyke

Thesis: Wearable Devices: A Tool for the Malicious Reconnaissance of Private Spaces

Chaitra Tirumalesh Kulkarni

Thesis: Understanding Cyber Attacks

Using Text Mining Abhishek Kumar

Jaichandra Mouli Sesetty Navya Yenuganti

#### **ENVIRONMENTAL DESIGN**

Melinda Lori Anderson-Guerrero Daniah Mohammednidal Ashoor Reem Hassan Bagais Mahnaz Ensafi Taylor Paige Haight Alicia Denise McDonald Hayley Marie Richburg

#### **ENVIRONMENTAL TOXICOLOGY**

Kendall Renée Blanchard

Thesis: Regional Surveillance and Seasonal Variation of Eyeworm (Oxyspirura petrowi) and Caecal worm (Aulonocephalus pennula) Infection in Northern Bobwhite Quail (Colinus virginianus) of Rolling Plains, TX

**Audrey Nicole Martinez** 

Thesis: Characterization of Serotonin and Gut Microbiota Following Exposure to Antibiotics in White-tailed Deer (Odocoileus virginianus)

#### **FAMILY AND CONSUMER SCIENCE EDUCATION**

Brittany Dawn Rebuck

#### **FINANCE**

Bailey Kay Allen Erwin Paul Baquirin Dylan Fairchild Bennett Andrew Lamar Charpentier Mason G. Clinesmith Leobardo Diosdado David A. Galaz **Zachary Scott Garrison** 

Benjamin Anthony Haber Chanpollen Im Tobias Walker Pavlik Peter Luccio Pineda Saavedra **Grant Alexander Sandercox Edward Spear** William Trevor Talley Christen Kaye Turner

#### **FORENSIC SCIENCE**

Katie Elizabeth Blanar

Thesis: The Use of Entomological Samples as Potential Odor Biomarkers

for Decomposition Stages Kierstyn Lauren Evans

Thesis: Determining the Confidence of Fingerprint Examiners at Various Steps in the ACE-V Method

Nataly Aracely Gomez

Thesis: Detection of Metformin in Dried Blood on Cotton Cloth Using QuEChERS Procedure and Liquid Chromatography-Mass Spectrometry (LC-MS)

Kiana Latrice Holbrook

Thesis: The Instrumental Evaluation of Blood Decomposition Volatiles on Various Substrates and their Relationship to Presumptive Test Methods

Jennifer Lee Raymer

Thesis: Evaluation of Decomposition Residual Odor using Sus Scrofa as a Sampling Model

#### **GEOGRAPHY**

Congliang Zhou

Thesis: Deep Learning of Geospatial Patterns for Remote Sensing Image Downscaling

#### **GEOSCIENCES**

**Donald Maute III** 

Thesis: Investigation of the Fe-Ti-HFSE enrichment in the Raftsund Intrusion, Årsteinen Lofoten-Vesterålen archipelago, Northern Norway Katie Jo Pevehouse

Thesis: Characterization of Weathering Profiles Across the Great Unconformity - St. Francois Mountains, Missouri

Amanda Raschel Rivera

Thesis: Origin of an Unusual Limestone Breccia Bed in the Boquillas Formation (Upper Cretaceous), Big Bend National Park, Texas

#### HOSPITALITY AND RETAIL MANAGEMENT

**Zachary Robert Daniels Dimin Wang** 

Brooke D'nee Willis

Thesis: Consumer Power in Flux: Implications of International Privacy Regulations on Consumer Attitudes towards U.S. Online Retailers

#### **HUMAN DEVELOPMENT AND FAMILY STUDIES**

Rachel Anne Correale

Thesis: Preservice Teachers' Beliefs About Socioemotional Skills and Kindergarten Readiness

Leslie Monique Hasty

Thesis: The Impact of a Noun vs. Verb Manipulation and Sibling Relationship Quality on Children's Helping Behavior

#### INTERDISCIPLINARY STUDIES

Christopher Michael Covarrubio Darryl Norwood Dora Anthony Dean Johnson, Jr. Jeremy Ross Overby John Phillips Robb Brooke Allison Wasson

#### **KINESIOLOGY**

Beatriz Sarahi Benavides
Thais Camargos Zanatta Benoit
Vanja Bogetić
Luke David Chowning
Brittany Ann Claffey
Brenna Nicole Coffman
Daniel Philip Galvez
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Bundit Preechavanichwong
Jonah Ray Sell
Rachel Elizabeth Whatley

#### **MATHEMATICS**

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#### MICROBIOLOGY

Megan Marie Barnett

#### **NUTRITION AND DIETETICS**

Gene Thao

#### **NUTRITIONAL SCIENCES**

Wei-Lin Huang

Thesis: Pilot Study Comparing 2 Types of Behavioral Intervention to Reduce Sedentary Behavior: Impact on Psychosocial, Behavioral, Anthropometric, and Medical Outcomes Hyunjung Lee

Thesis: The Association between Food Insecurity, Poor Hygiene Conditions, and Child Undernutrition among Pastoral Households in the Somali region, Ethiopia Makenzie Catherine Miller

Thesis: Nutrition Education Needs Assessment of Farmers Market Participants in Lubbock, Texas Rufus James Theophilus

Thesis: The Development of Complementary Food for Food-insecure Infants and Young Children in Malawi

#### PERSONAL FINANCIAL PLANNING

Sara Abbott
Lamya Abdulaziz Alsaadi
Johnson Antwi
John Charles Betts
Christopher Sam Boren
Ricardo Blanco Hermosillo
Kyle Bradley
Amber Monique Castro
Ruizhi Chen
Ying Chen

James Francis Connolly III Alma Gabriela Contreras **Douglas Tavares Custodio Emily Grace De Young** Davaajargal Dorjsuren Maria Anna Eriksen Nicholas Estefan **Doneen Fitzsimmons** Caleb R. Gold Christopher Michael Greenlaw Collin T. Hall December Anne Holladay Steven Michael Insinna Stan Terrelle King, Jr. Katherine Tillie Krause Adam Charles Legler Sean Mark Linder Michelle Wai-Yan Lo **Tanner Ray Merritt** Nickolas Derrick Mitchell **Brandon Lee Montierth** Thaddeus David Moore II Brian W. Morton II Quinn Julian Moser Joseph Straughan Nagel Matthew Edward Nicholson Luis Jared Ochoa Olamide Aminat Olaiide **Andrew Richard Powers** Benjamin Samir Rahman Estela Rangel Rachel Lauren Romero Monica Romo Amanda Renee Shaw

#### PLANT AND SOIL SCIENCE

Laura Michelle Berry William George Dodge

**Ashley Styles** 

Han Xue

Monica Irin Wood

*Thesis*: Image Based Yield Estimation in Cotton Using UAS

Andrew Harrison Dunlap

Thesis: Effects of Soybean Maturity, Planting Date, and Irrigation on Biomass, Yield, and Yield Components in the Texas High Plains

Pushpinder Pal Kaur

Thesis: Re-envisioning QTL Dynamics in Rice: Interaction of the Drought-Mediated Yield Penalty QTL qDTY12.1 With its Genetic Background

Rael Khayeli Otuya

*Thesis*: Soil Microbial Community Response to Management in Improved Pastures of the Semi-Arid Texas Southern High Plains

Ashmita Rawal

Thesis: Determination of Base Saturation
Percentage in Agricultural Soils via Portable
X-ray Fluorescence Spectrometer
Shaida Sultana Rumi
Thesis: Conversion of Low-quality
Cotton to Bioplastic
Luke Nelson Stutler

#### SPORT MANAGEMENT

Blake Andrew Bowling Skyler Robert Cassity Kami Parker Fryar Avery Terrell Gilliam Rhett Tyler Harris Kate Marie Klepetka Gino Jared Saucedo Mary Kathryn Stephens Ashlee Nicole Villarreal Danielle Enriqueta Villarreal

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

Drew Garraway Arnold

Thesis: The Immunocompetence and Immunomodulation of Northern Bobwhite Quail (Colinus virginianus) Matthew Robert James Jackson

Thesis: Evaluating the Effectiveness of UAV-based Remote Sensing Systems to Detect Rangeland Plant Species in the Texas Panhandle

Jessica Ann Mehta

Thesis: An Examination of Juvenile Northern Bobwhite Survival and Movement Patterns in Late Summer and Early Fall on the Rolling Plains of Texas

Emily Teresa Richardson

Thesis: Salinity Adaptation in the Harmful Alga, Prymnesium Parvum

# MASTER OF SCIENCE IN ACCOUNTING

Zachary Edward Allen Caroline Grace Anderson Kaymen Leighanne Anderson Abrielle Frances Arnold Courtney Anne Bartholomew Natalie Moreira Bennett **Conner Scott Bentley** Morgan Jennifer Blank Andrew Patrick Blazier Kathryn Paige Bouldin Justin Taylor Bowman Kathleen Elizabeth Bramow Andrea Elizabeth Brandt Logan Leigh Brandt Rebecca Diana Brown Caitlin Lindenfeld Byerly Madison Kate Carpenter Courtney Michelle Carr Austyn Kate Casale Ying Chen David Christopher Cole Christopher M. Corbin Hayden Joe Dedear Kimberly Del Angel Juan Eliazar Duran Samantha Nicole Fahey

Eric Gomez Fernandez Vladislava Filic John Michael Getz Phillip Scott Gilbert Bryce Hammock Rachel Anne Hancock Tyler James Hardin Llewellyn Harkness V Matthew Troy Hebert Collin Brooks Heidenheimer Sidney Meagan Henderson Benjamin Luis Hernandez Kylie Irish Hight Nadia Waritha Hogan **Eric Anthony Honesto** Benjamin Lance Howse Logan Ryleigh Kelly Yonghoon Denny Kwon Haley Nicole Hong Ky Zuber J. Lalani Nancy Martin Monica Ophelia McGee William Kyle McGhee James Ryan McGhee Kara Michelle McKay Amanda Alicia Mendoza Joanna Lee Michna Kirby Marshal Miller Allison Moreno William Henry Northcutt Audra Renae Park Dana Michelle Pelletier Chase Michael Robertson Sarah Renav Rodriguez Robert Frederick Rodriguez Emily R. Ryan Christine Faith Saso Cailin Ashley Scherpereel Brandon Selph Alejandra Beatriz Solis Allison Rebekah Stafford Eric Matthew Summerlin Lvdia Mae Swonke Olivia Marie Taylor Whitney B. Thoms Ma'Kayla Tillman Ethan Louis Voit McKenzi Jordvn Volz Samantha Nicole Waldheim Laura Marie Warner Gage Williamson Callie Elizabeth Wood

# MASTER OF SCIENCE IN CHEMICAL ENGINEERING

Tatiana M. Colon Martinez Raul Eduardo Dominguez-Ramirez Rafikul Islam

Chase Houston Yandell

# MASTER OF SCIENCE IN CIVIL ENGINEERING

Nathin S. Flemins Darrius Q. Knox Armando Maldonado Rosario Joe Steven Martinez III Sunday Odeleke Ojo Justin Adrian Palad Jonathan Allen Ramlow Michael Scott Rauschuber James F. Robinson IV Anil Shrestha Shang-Ting Tsai

#### MASTER OF SCIENCE IN ELECTRICAL ENGINEERING

Joy Acharjee

Thesis: Numerical Studies of Hydrogen Outgassing from Copper Electrodes Michael Christopher Brown Yaswanth Reddy Challapuram

Thesis: Modeling and Integration of Vanadium

Redox Flow Battery with the Grid

Saleh Dinkhah

Thesis: Vehicle to Grid (V2G) for Reliable Microgrid Operation: Voltage/Frequency Regulation and Real-time OPAL-RT Digital Simulation

Satwik Gali

Henry John Gaus III

Thesis: Armature Performance in Miniature FCG's

Sindhusha Gorla

Christopher Housewright

Gina Marcela Muñoz Quintero

*Thesis*: Analysis of Protection Coordination in Substations of SPEC's Distribution System and the Renewable Energy Sources Integration Impact

Dhruv Dilipkumar Patel

Rashan Shrestha

Thesis: Cascaded H Bridge Based Solid State Transformer for Medium Voltage and Low Voltage Interface, Simulation and Analysis Vishwanath Tadikonda

Shubham Trehan

# MASTER OF SCIENCE IN INDUSTRIAL ENGINEERING

Anoop ram chowdary Ancha Ashwanth Balasundaram Anurag Shyam Bhagwatkar Prathamesh Arvind Desai Vishvaieet Anil Deshmukh Shaunak Devgaonkar Rahul Kadivendi Aditya Amol Magdum Faisal Shafi Nadkar Chetan Nayak Pranali Rajendra Patil Samudrika Narendra Sawant Soham Neelesh Wadnap Thesis: Biofabrication of 3D Cell-Encapsulated Tubular Constructs Using Dynamic Optical Projection Stereolithography Siruo Wang

# MASTER OF SCIENCE IN MECHANICAL ENGINEERING

Loudon Lee Campbell V Grant Toler Gowdy

Thesis: Effect of Microstructure Surface Geometry on Drone Propeller Efficiency and Performance Kevin James Hill Jarrid Paul Morales Jurkowski
Tom Lennart Padeken
Renita Kathleen Walze
Thesis: Aluminum Particle Reactivity as a
Function of Alumina Shell Structure:
Amorphous versus Crystalline

# MASTER OF SCIENCE IN PETROLEUM ENGINEERING

William Roy Arthur III Isaac D. G. Karmon II

Thesis: Quantifying a New Horizontal

Well Gas Anchor Performance

Xinyue Liang

Daniel Kwame Yeboah Owusu-Ansah

Ismael Morgan Siffon

Thesis: Effect of Oil Composition in Minimum Miscibility Pressures Using Mixtures of CO2, N2 and Lean Gas

# MASTER OF SCIENCE IN SOFTWARE ENGINEERING

Patrice Fote Fote
Daniel Wayne McAdams
Erik Andrew Peterson
Lino Abiel Virgen Graci
Thesis: Visual Analytics of Multidimensional
Data Using Immersive High Performance
Computing Center Data

#### MASTER OF SCIENCE IN SYSTEMS AND ENGINEERING MANAGEMENT

Ronny Daszinnies Le-Roy Julian Gräff Alica Höpken Robert Devin Macaulay Eric Joseph McGarrah Danielle Stephanie Hanney Sinte Madison Eugene Wilson

#### MASTER OF SOCIAL WORK

Franz Joseph Andersen Rheanna Dawn Archer Kelci Janae Bedingfield Daizha R. Berry **Davin Justice Darnell** Lajuane Diamonique Davis Shelby Elizabeth Enevoldsen Monica Renae Garcia Griselda Perez Herrera James Edward Kuehl III Leah Ann Lawrence Matthew John Leber Misty Dawn Nolan Karlie Claire Scott William Christopher Scott Stephanie Monique Silva **Dylan Diane Stout** Amber Rose Valadez

#### CANDIDATES FOR UNDERGRADUATE DEGREES

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

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



TEXAS TECH UNIVERSITY
College of Agricultural Sciences & Natural Resources

#### **BACHELOR OF SCIENCE**

#### **AGRIBUSINESS**

Jess Wayne Francis Jacey Elizabeth Guest<sup>2</sup> Nicolas Evan Hardin Christopher Anthony Lich<sup>3</sup> Devin Lane McBryde Marcus Leonard Shamburger<sup>3</sup> Collin Ryan Voyles

#### **AGRICULTURAL AND APPLIED ECONOMICS**

Caleb Douglas Anderle Leanna Megan Ashe Wyatt Lane Bagwell Rhett Michael Bain Hayley Nicole Bates<sup>2</sup> Luke Morgan Baumgardner Arthur William Beckwith Eric Jordan Bell

2nd Degree: General Business

Carlee Alexis Bissett 2nd Degree: Marketing Eric Jason Boecker

Brock Christian Boyd Clay Mitchell Braden<sup>1</sup> Makenzie Kate Bradlev Shannia Marie Bustos

Mason McCord Coor Cody Daniel Copeland

Jake Laning Fisher Brittney Ann Grabbe<sup>2</sup>

2nd Degree: Finance

James Call Green Dylan Osborne Hall<sup>2</sup>

2nd Degree: General Business Tyler Wesley Hough Alexis Marie Huseman Curtis Milton Langford

Robert Anthony Holman Looney<sup>2</sup>

Joseph Terrence Farber Matzko 2nd degree: General Business

Cameron Lane McCarley Cass Jacob McLaughlin

Nathan Elliot Needham Kace Allen Neskorik

Kwaku Baah Obeng Theophilus Shickel Painter

Grant Taylor Petty

Johnathon Samuel Powledge

Grant Collin Read Leslie Logan Rinehart

Michael Jakob Romines Kevin Joshua Smith

2nd Degree: Management

Michael John Weller Haley Madison Wheeler

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Anneke Marie Boer<sup>3</sup> Reneé Patricia Boyle Emma Catherine Brocato<sup>1</sup> Hope Sheriece Brookshire<sup>1</sup> **Brooke Nicole Chilcutt** Samantha D. Chumley Claire Marie Cleveland<sup>2</sup> Lucchese Lena Cogdell<sup>1</sup> Aspen Eaton<sup>1</sup> Kiley Lynn Elder Bailey Paige Eubank<sup>2</sup> Matthew William Griffith Payton Elise Harrell<sup>1</sup> Kara Delaine Harris<sup>3</sup> Morgan Jolene Holmes Jacob Stanley Howle<sup>2,4</sup> McKenna Drace Johnson Lauren Michelle Long Jacqueline Alexis May Madison A. McKay Mary Christine Moenning<sup>2</sup> Garrett M. Moughon Carolyn J. Perry Keni Shae Reese<sup>2</sup> Allison Dawn Reid<sup>3</sup> Dane Rivas Elizabeth Marie Schroeder<sup>3</sup> Alexandra Taylor Shelton Alexis Rae Sherman<sup>2</sup> Steelie Jae Smith Lyndi Lane Starr Courtney Shae Stephens<sup>1</sup> Alicia Kay Straley Kennadee Shyanne Taylor<sup>2</sup> Carter Hill Turner Taylor Kristina Young

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Keleigh Katlin Collinsworth<sup>2</sup>

**Ethan Lane Curry** Kourtney R. Davis<sup>2</sup> Katharine Springer DesHotels<sup>3</sup> Cassidy Joy Devault Hannah Lee Eichman<sup>2</sup> **Emily Anna Fischer** Morgan Paige Friesenhahn Reaganlynn Anderson Gambill Ty Randal Gillespie Dallas Anne Goldammer<sup>3</sup> Kerry Erin Gonyeau<sup>1,5</sup> Zachary L. Goodwin April Marie Grantham<sup>2</sup> Emily Jane Gravlin<sup>3</sup> DeLaney Kay Hanagan Joshua Ray Harwell Matthew Averitt Henderson<sup>2</sup> Ryan Augustus Holaway Destiny Marie Holtzman Sarah Jane Huey Shannon Jean Hutchison **Taylor Leigh Jennings Dustin Robert-Earl Jones** Kaylynn Beth Kiker<sup>1</sup> Morgan Makena Kinnear Cole Rvan Kleman Garrett Weldon Looka Huey Jeffrey Lee Manahan Kodi Blair Marion<sup>1</sup> Thachary Ray Mayer<sup>1</sup> Julianna Marie Maynard<sup>2</sup> Trace Myles McBride Madison Clare McCarty Shyenne McCowan<sup>3</sup> Wesley Walker McCutcheon<sup>3</sup> Jake Curry McMillin<sup>3</sup> Allisyn Layne Melcher Julie Ann Miller Benjamin Isaac Mills<sup>1</sup> April Ann Molitor<sup>1</sup> Coleman Ray Morrison<sup>3</sup> Kirby Loyd Nixon<sup>2</sup> Rachel Noel O'Donnell **Brittany Lynn Parks** Payton Jean Robb Leighton Clay Robbins Heather Ann Roberds<sup>2</sup> Madison Rae Romine Danielle Marie Schainost<sup>2</sup> Madelyn Elizabeth Shank Ben Colton Sheets<sup>2</sup> Alivia Brooke Souther Samuel Keith Spradlin Megan Faith Tipping Cynthia Daniela Tovar Courteney Savannah Walker<sup>3</sup> Casey Lee Weaver Keith Allan Weyerts

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#### **FOOD SCIENCE**

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Hadley Garrett Baker

#### INTERDISCIPLINARY AGRICULTURE

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**Trevor Daniel Roberts** Cecilia Rodriguez Drew Alexander Skweres 2nd Degree: Civil Engineering Kaitlyn Leigh Warmack 2nd Degree: Civil Engineering Travis Levi Whitehead



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#### **ANTHROPOLOGY**

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Bianca Sabrina Almazán

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Christian Malik-Shakur Taylor Sean Flynn Thurmond

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2nd Major: Technical Communication

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Audrey Cruz³
Destiny Alyse Doran¹
Yoana Duran Ramirez¹
Nicole Ann Evans¹
William Brian Felty²⁴
Pauline LeeAnn Franklin¹
Abigail L Friedrichs
Amanda Noel Ganus¹⁵

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Trevor Jay Glenn<sup>2</sup>
Cassandra Aimee Gonzalez
Orion Alexander Greenwood
Daniel Joseph Grim
Kaleigh Ryann Hampton<sup>3</sup>
Emily Louise Henning
Ashton Nichole Hoot
Melissa Sue Lindsey<sup>3</sup>
Megan Catherine Linton
2nd Major: Global Studies

Rachel Myers McKinney

Lilian Elizabeth Northcutt Karina Ocañas<sup>1</sup> Isaac Lee Pena<sup>2</sup> Barrett Camille Rice

2nd Major: Psychology

Claire Lorraine Seekins<sup>1</sup> Megan Janell Simmons<sup>2</sup>

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#### **GEOSCIENCES**

Markicia Tykeshiuna Horton

#### **GLOBAL STUDIES**

Marisa Isabel Carrión
2nd Major: Spanish
Madison Nicole Collins
Leandro Constancio Dos Santos Joao
2nd Degree: International Economics
Ansley Elizabeth Deshotel<sup>3</sup>
2nd Major: Sociology
Andrew Cole Morales
Remilekun Sarah Ogunsanya<sup>2</sup>
Leda Sofia Ortiz

Noah Evan Anderson

#### **HISTORY**

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2nd Major: Political Science
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Anvar Kenneth Szulczyk Montana Niccole Williams<sup>4</sup>

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# BACHELOR OF SCIENCE IN INTERNATIONAL ECONOMICS

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Ysabella Jane Olivarez Michael Ryan Pearsall<sup>2</sup> 2nd Major: Finance

Dana Michelle Pelletier<sup>3</sup>

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Allison Rebekah Stafford<sup>3</sup> Eric Matthew Summerlin<sup>2</sup>

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Braxton Kent Iden<sup>2</sup> John Wesley Isaac Katrina Elizabeth Jones<sup>3</sup> Colton Christopher Kemp Zachary Jones Marsh Trey Andrew Masek Gabriella Elise Mathis<sup>3</sup> Massimo Vincent Parisi **Daniel Kelly Patton** Jared Thomas Smith<sup>3</sup> Paige L. Williams<sup>3</sup>

#### **FINANCE**

Mallory Kaye Adams<sup>3</sup> Xavier Chukwuemeka Aliche Isabel M. Araujo<sup>3</sup> Colton Thomas Asing Luke La'akea August Auten<sup>3</sup> Osmar Francisco Barrera Garcia Jordan Chelsea Benavides<sup>2,4</sup> Olivia Kae Bergeron<sup>3</sup> Mark Adrian Tongio Bernardo **Christopher Thomas Best** 2nd Major: Accounting Sammy Charles Bosco Alec Aubrey Bowerman Bryan Duffy Bowling Bryan Z. Brown Kaden Daniel Burlison Damian Castillo Christopher Kyle Cate<sup>3</sup> Hunter Andrew Cisco<sup>1</sup> Michael David Clark<sup>2</sup> Jordon Thomas Cox<sup>3</sup> Shelby Matthews Cox Anna Victoria Creecy Alexander James Crowley<sup>1</sup> Jacob Joe Davis<sup>3</sup> Mason Douglas Davis<sup>2</sup> Andrew Ian Deeter Ann Browning Dodson<sup>2</sup> Stella Lane Doyle<sup>2</sup> Allison Bailey Eklund Kaleab Shimeles Feleke<sup>1</sup>

**Garrett Hicks Fisher** Nicholas Fischer Foos 2nd Major: Accounting

Sara Isabel Galvan

**Guillermo Enrique Gameros** Andres Daniel Garza<sup>3</sup>

Jack Randall Gaubert Grant T Gilbert William Sadler Glenn Matthew David Gordon Brittney Ann Grabbe<sup>2</sup>

2nd Degree: Agricultural & Applied Economics

Jackson Harold Grimes Noemy Guereca Nicholas Paul Haddick Mia Sky Hadley-Ward Paul Dudley Hatch<sup>1</sup> Jonathan Ward Higgs Robert Collin Hinson<sup>1</sup> Roger Thomas Hoffman Hudson Reed Hyer Russell Stover Ivy Tarun Kumar Jakkaraju Jake Charles Jarvie<sup>2</sup> Isaiah Mathew Johnson Colton Michael Jorgenson William Cole Kassul Ryan Sangjoon Kim

Max Morris Kinnev Jon Claude Kirbo<sup>3</sup> Michael B. Kirbo<sup>2</sup> 2nd Major: Accounting Nicole Kiszkiel

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**Eric Albert Kowalk** John Phillip Lanty<sup>2</sup> Juan Carlos Larrieu Matthew Robert Lawler Matthew James Lis<sup>3</sup> Charles Joseph Lloyd

Alyssa Jessalyn Lopez Payton Rae Lumpkin

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#### **INFORMATION TECHNOLOGY**

Leonard Joshua Anguiano **Douglas Alexander Bednorz** Matthew Alexander Bernstein<sup>1</sup> John Thomas Billington<sup>1</sup> Jose Eloy Carnero, Jr3 Christopher Joseph Congelosi Luke Dehan Jordan Michael Flowers<sup>2</sup> Fabian Samuel Fuentez Brianna Nicole Goodman<sup>4</sup> **Edward Adam Harding** Sean Michael Hodges Juan Pablo Isaac Ryan James Kenney Victoria Rochelle King<sup>2,4</sup> Thien D. Le3 Joseph Michael Lira Casey Harrison Macaluso<sup>2</sup> Samantha Martinez Zacary Luis Martinez Alexandra Juliet Miller Andrew-Adil Zafar Miller<sup>3</sup> Brian Bao Long Nguyen

Emmy Ogo K Nonso Anyakwo3 James Hunter Nordyke Ana Margarita Peña

John Florencio Peña James William Petrie III3

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**Grant Christopher Mason** 2nd Major: Management

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Kelly Joyce Neel<sup>1</sup> Billy Wayne Newby III Coltin Tyler Nied Mariah Yoko Northup<sup>2</sup> Lindsay N. Ollivant<sup>1,</sup> Michael Isaac Ortiz

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Lindsey Ann Pineda Jacob Wayne Poole<sup>3</sup> Taylor Marie Presley **Brock David Purcell** Blair Alyssa Raney<sup>3</sup> Cassidy Kay Reynolds Jenna Rene Richardson<sup>2</sup> Matthew Jacob Ridenour

2nd Major: Management Griffvn Kennedv Ruiz

John Alan Sadler Tiffany Sheree Satterwhite1 Michael Mahlmeister Scott 2nd Major: Management

Andria Jean Shackelford<sup>3</sup> Kunal Kiran Singh Ethan Louis Smith<sup>3</sup>

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Aaron Nicholas Villa<sup>3</sup> Madeleine Nicole Villarreal

Violet Kathleen Watson<sup>1</sup> Emilye Elizabeth Webb

2nd Major: Management

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Catherine Jane West Thomas Blake White

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Wilson Chong Wong 2nd Major: Management

#### SUPPLY CHAIN MANAGEMENT

Aaron Price Blackmon Dannah Suzanne Boynton Adam Blake Collins Sean Christopher Dooley Adrian Josue Fabela **Brian Matthew Friedrichs** 2nd Major: Information Technology

Elizabeth Ann Genrich<sup>2</sup>

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Ricardo Alberto Melendez Weston Health Owens Cameron Kristen Quarles

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2nd Major: Finance Jacob Anthony Schwartz<sup>3</sup> Megan Nicole Sealy Joli D. Smith<sup>1</sup> **Alexander Reid Torres** Robel Rusom Tsequ<sup>2</sup> Katelyn Elizabeth Valdron<sup>3</sup>



#### **BACHELOR OF SCIENCE**

**MULTIDISCIPLINARY SCIENCE** Ty James Bush<sup>3</sup>

**MULTIDISCIPLINARY STUDIES** 

Ryann Arline Achen<sup>3</sup> Luis Alvarez, Jr.

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Rhina Murphy Kylie Alexis Murray Ándrew Ortiz<sup>2</sup> Madeline Leigh Owen<sup>1</sup> Jacquelin Barbara Payne<sup>3</sup> Jocelyn Celeste Payne<sup>1</sup> Tatiana Ramirez<sup>2</sup> Regina Figueroa Ramos Rylee Nicole Randolph<sup>3</sup> Faith Danielle Riddle<sup>2</sup> Sarah Elizabeth Ross<sup>3</sup> Jocelyn Sánchez³ Kathryn Nana Sanders<sup>1</sup> Caroline Paige Santa Ana Kailee Lane Schimmel<sup>1</sup> Kristen Susan Schmidt<sup>3</sup> Ashley Briann Smith<sup>2</sup> Lacey Louise Smith<sup>2</sup> Shawn Micheal Sparkman<sup>2</sup> Hailee Skylar Staggs<sup>3</sup> Bailie Nicole Sureddin<sup>1</sup> Ashley Michelle Swain<sup>3</sup> Morgan Bailey Tarrant<sup>3</sup> Tristin Kaye Taylor<sup>3</sup> Nicholas James Varney<sup>2</sup> Alexandra Michelle Vazquez<sup>3</sup> Kelly Marie Waheed<sup>2</sup> Lexy Lee Walters Erica Leigh Wanke<sup>3</sup> Alyssa Lane Weaver<sup>3</sup> Amanda Jordann Webb<sup>2</sup> Jacob Daniel White Kayele Morgan Wilhelm Kalli Renee Willis<sup>3</sup> Danchen Zhou



### **BACHELOR OF SCIENCE**

### **CHEMICAL ENGINEERING** Abel Abraham<sup>3</sup>

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### **CONSTRUCTION ENGINEERING**

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María Celeste Velázquez Ortiz

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Oluwaseun Adedamola Adenipekun

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### **BACHELOR OF ARTS**

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### **BACHELOR OF SCIENCE**

### APPAREL DESIGN AND MANUFACTURING

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#### **PUBLIC RELATIONS**

**Chandler Ross Anderson** Eloy Armendariz<sup>3</sup> Alyssa Monique Armentrout Alexis Grace Austin Hannah Bailey Ayers<sup>3</sup> Chase Thomas Bailey Constanza Basurto Bailey Kay Been<sup>3,4</sup> Brooke Ann Biermeier Tatum Cate Cagle<sup>3</sup> Kimberly Self Christy<sup>2</sup> Jack Francesco Mario Ciampi<sup>3</sup> 2nd Degree: Marketing Steven James Collins Sarah Elizabeth Cumming Seth Edward DeRuiter Emily Jen Dirks<sup>3</sup> Kristyn Tyra Edwards Osamagbe Miracle Ehioghae Andrew Scott Eldredge Averey Sue Elliott<sup>2</sup> Margaret Mary Figenshaw Elizabeth Theresa Fleishman Nicole Deneice Fleming<sup>1</sup> Brendan Curtis Fox<sup>3</sup> Ashton Faith Gaconnier Kathryn Mary-Margaret Galbraith Pamela Marie Gandy<sup>1</sup> Jordan M. Gilchrist Mikaela Ray Gonzales Sal Anthony Gonzalez Lauren LeAnn Henderson<sup>2</sup> Abby Eliabeth Herring<sup>3</sup> Kelsey Michelle Holt<sup>2</sup> 2nd Major: Advertising Erin Ashley Hopkins<sup>3</sup> Cailvn Hossner Jason Bruce Johnson Travis Alan Johnson Hunter Alayna Johnston Joshua Call Jones Brenna Ann Juhnke Sarah Kim Kielty Madeline Jean King Lauren Avery Kriss<sup>1,</sup> Ryan Daniel Lachmann Cesar Augusto Lopez Karlye Jo Loughman Keely Jaye Maddux Noah Francis Mallindine Carly Michelle Manning<sup>1</sup> Nicole Michelle Marquis Morgan Eileen Martell<sup>2</sup>

Shav Elizabeth McMullan<sup>2,4</sup> Jamilla Wanjiko Menefee<sup>1</sup> Kelsyi Paige Meza MacKenzie Rae Mitchell Hannah G. Moreland Bethany Ann Naranjo Alexander Luis Narvaez Baily Elaine Neatherlin Kaitlyn Renee Nicholson Dulce Paloma Palop Cole H. Parker<sup>3</sup> Rachel Ann Pereboom Joseph Steven Pfund . Hannah Wellman Phillips Kellis Jenette Pike Roehm Poet-Galvin Lilli Ann Pollard<sup>3</sup> Layne Allison Powers Parker Reyes Faith Roberts Alicia Bianca Rodriguez Sara Elena Rodriguez<sup>3</sup> Vanessa Nicole Salinas<sup>2</sup> Sara Elizabeth Shivers<sup>2</sup> Savannah Lea Shultz<sup>2</sup> Peyton Nicole Sifrit<sup>1</sup> Haley Renee Sparks Lauren B. Stowers Ian Patrick Sumera Shanae Nicole Swack<sup>2,4</sup> Blake Lee Swanner Mary Claire Sweatt Grace Elizabeth Sylvester Tristan Taylor Torres<sup>2</sup> Cullen Cole Wainwright<sup>2</sup> **Emma Grace Wilkins** Curry Qui Wilson Natalie Anne Wilson Caroline Jane Yarbrough<sup>2</sup> Sara Victoria Zapata



### **BACHELOR OF ARTS**

### **UNIVERSITY STUDIES**

Andrea Adjei Brett Mitchell Alvarez Stephanie Alvarez **Brooks Taylor Baack** William Edward Baldridge Tammara Barnes Lon Spencer Bates Connor Ryan Beck Kayla Sue-Avery Belew London Mackenzie Bradley **Brandon Dale Brooks** Samantha Burns<sup>3</sup> Courtland Quinn Carter McLane Rollen Carter Breanna Castille Derrick Christian Caudill<sup>3</sup> Anthony A. Chavez<sup>3</sup> Marvin Anthony Clayborne Carrie Jean Coates<sup>2</sup> Carly A. Cox Llauren Ashley Diaz Genavie Dezahrai Enriquez Sean J. Flinchbaugh<sup>2</sup>

Adrian D. Martin

Bianca Alexandra Flotte Amanda Rene'e Gonzales<sup>2</sup> Sara Danielle Gonzales Jessica Gonzalez Barbara Ann Goss Kayln Joann Gunter Kendall Michelle Hadawi<sup>2</sup> Darvin Demonte Ham Jessica Yanan Hao Kristen Victoria Hayes Tyler Ryan Heath<sup>2</sup> Ávery Jackson Holmes<sup>1</sup> Mariah M. Huart Brittani Nicole Kling Christopher Travis Koger Megan Leigh Marks Brandi LeaAnn McDonald-Coulston Flia Montanez Ryan Durham Morgan Michael Brandon Mullins Lauren Elaine Oswalt John Angus Owens<sup>3</sup> Maria Cristina Owens Jonathan James Pacheco Lily Rayn Perez<sup>2</sup> Alleigh Nicole Perry Christopher Allan Pistorius Daniel John Rentie Dominique Sanchez Phillip Edward Sinclair<sup>2</sup> Torrance Deon Slaughter Jamie Smith Carissa Marie Staats Amanda Jill Stewart<sup>3</sup> Hagen Joseph Stoute Angela Nicole Thompson Alexandra Danielle Watts Joshua Jamal Wilkerson Chen Zhang

### BACHELOR OF SCIENCE

### **UNIVERSITY STUDIES**

Oluwapelumi Mary Akinseinde Karan Babu Christopher Alan Gross Dustin R. Hernandez Kyle Patrick Hill Andrew John Azariah Hudson Komi Khamis Koko **Destiny Addison Moore** Hunter Keith Munden Ramon Robert Reyna Peter Steinmetz

### WIND ENERGY

Justin Dwayne Allison Edgar Barrera<sup>3</sup> Travis Alan Boyd<sup>2</sup> Mallory Marin Brown<sup>2</sup> Ryan Matthew Buchanan Jacob Matthew Bush Joshua Lee Coltharp Noah Mitchell Davis Rocky Lyle De Hoyos Shawn Tyler Dequire<sup>2</sup> William Cullen Eastland Landon Shane Edwards Cristian Estrella Chase William Robert Garrett1 Sterling Lee Hannsz William Jacob Hoover

Timothy Taylor Cantu Johnson Spencer Erik Johnston Jeremy Scott Lewis **Zachary Taylor Lindsey** Cedric Christopher Macklin Thomas Dean Manning Jared Thomas Mellinger<sup>3</sup> Jack Ryan Mullen Austin David Murray Ellen Brady Ojeda Aldo Pierre Salazar Leslie Alin Salazar Erik Joshua Sandoval Israel Silva Jacob Thomas Toone Cristian Gilbert Valerio Ryan Matthew Veith lan Edward Watkins Ryan Charles Wright



### **BACHELOR OF ARTS**

ART

Ashley D'Ann Barrett Sarah Michelle Sustrick

### DANCE

Sulma Estrella Lovo Benitez Celeste Mar Delgado Hannah Noel Haeussler<sup>3</sup> Sidney Alyssa Loftin<sup>2</sup> Courtney Carroll Rickel Tiara Chanise Scarlett Juliet Sadie Wallace<sup>3</sup> Hailey Breana West

#### **MUSIC**

Lucas David Ariaz 2nd Degree: Physics Caleb Song-Hwa Chong Alexander Henrik Hellberg Jordan Kollyn Kirksey<sup>1</sup> 2nd Degree: Economics

#### THEATRE ARTS

Madison McKay Davis<sup>1</sup> Zachery Allen Ell Jordan Ayrton Gargiulo Collyn Neal Glaspie<sup>3</sup> McKenzie Pearce<sup>2</sup> 2nd Degree: Mathematics Emmalee RoseMarie Schooler Kalyn Rebecca Villalón<sup>2</sup> Kylie Nicole Zweifel

### **BACHELOR OF FINE ARTS**

ART

Jordan Elizabeth Adamo Sabrina Elyse Aitken Dean Arbov Shane Diluk Athulathmudali Norma Judith Bautista Cecil Carden Marisa Monique Casillas<sup>2</sup> Juliana Dionicia Chavez

Rachel Elizabeth Ouan Cook<sup>3</sup> **Andrew Wesley Creacy** Hayley Diane Crowder Sarah Sawamura Daly<sup>3</sup> Madeline Nichole Davis Taylor Maria Duffy<sup>3</sup> Christopher Duran Savanna Alecia Escobar<sup>2</sup> Yinting Fan<sup>3</sup> Molly Joy Farrell<sup>3</sup> Melanie Arlone Gamble<sup>3</sup> Julia Grace Gordon<sup>3</sup> Jasmine Michelle Henderson McKenna Mary Henderson<sup>2</sup> Christopher Hernandez Mason Elizabeth Huckabee<sup>3</sup> Brooke Renee Hughes<sup>2</sup> Larae Jean Hurley Rylee Meghan Jones<sup>2</sup> Conner Chase Kaso Lisa Diann Lacy Morgen James Macke Bailey Jaclyn Manning<sup>2</sup> Amanda Norris Martinez<sup>3</sup> Alison Nicole McPherson **David Ochoa** Heather Marie Polk Amanda Addie Prohaska Kathia Evelin Ramirez **Andrew Robert Reves** Brittany McKhailey Roberts1,4 Natayio Santiago<sup>2</sup> Maritza Katriel Seidl-Perez Joseph Rvan Stovall<sup>3</sup> Rachel Elizabeth Wilson

### THEATRE ARTS

Matthew Joseph Cubillos<sup>3</sup> Alec Adam Gallardo<sup>2</sup> Heather Lynn Harris<sup>1</sup> Rebekah Ann Holt<sup>2</sup> Stefanie Gabrielle Infante-Steely<sup>2</sup> Jacob Patrick Medina Ray Edward Patterson

### **BACHELOR OF** INTERDISCIPLINARY ARTS

**Brittany Erin Bell** Heather Sara Curtis Iván Santiago Bravo

### **BACHELOR OF MUSIC**

Gabriel F. Aquilar Matthew Aguirre<sup>2</sup> Corey Austin Anderson Savannah Belle Bingham<sup>3</sup> Nicholas Cheon<sup>3</sup> Wyatt Scott Ely Wesley Adam Engel Colquitt<sup>2</sup> Morielle Eileen Haller Sara Marie Marnik<sup>2</sup> Kaitlyn Doreen Martinez Gabrielle Sara Muller Jessica Renee Prescott<sup>3</sup> Spencer M. Reese Joshua Duncan Reynolds Jacob Andrew Roberts<sup>3</sup> Cassandra M. Saucedo<sup>3</sup> **Kevin Daniel Sells** Madison Elizabeth Smith Stephania Valencia Jennifer Alyse Winchester

### RECEPTIONS AND OTHER CEREMONIES

### INDIVIDUAL COLLEGE RECEPTIONS

Immediately After Commencement Ceremony

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

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

College of Arts & Sciences | Holden Hall, South Lawn

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

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

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

College of Human Sciences | El Centro, Human Sciences Building

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

J.T. & Margaret Talkington College of Visual & Performing Arts Hemmle Foyer, Music Building

University Studies | Red Raider Lounge, Student Union Building

Wind Energy | Room 107, National Wind Institute

### **OTHER CEREMONIES**

Air Force ROTC Military Commissioning | Friday, May 17, 11:30 a.m., International Cultural Center Auditorium

Army ROTC Military Commissioning Friday, May 17, 9:00 a.m., International Cultural Center Auditorium

### CANDIDATES FOR MILITARY COMMISSIONS

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

Michael Barrick-Gilbert Levi Cooper David Garcia-Navarro Triston Halbert Jacob Herbig John Kirkwood Taylor Moose Jack Mullen **Daniel Patton** Luis Reyna II Marcus Rozario-Levine Derrick Slatton Robert Talbot

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

Ethan Andersen **Toby Bitonel** Joseph Chandler Stephen Conkright Douglas Custodio Collin Edwards Joshua Kast Mariah Northup Torrance Slaughter **Troy Symons** Phillip Winston

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

Ryan Buchanan Will Glenn

The following student is being commissioned as a Second Lieutenant in the Texas Army National Guard: Lance Morrison

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

The Faculty Banner displays the university colors, red with black, and features the university seal encircled by the words "Seal of Texas Tech University." The seal was designed by William Ward Watkin,



the original campus master planner, in 1924. The shield is a black escutcheon quartered by a red cross, on which are arrayed 10 cotton bolls, symbolic of the importance of cotton to West Texas and representing Lubbock County and the nine surrounding

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

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



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

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

The dimensions and proportions of the College of Architecture banner are based on the Golden Ratio creating



the Golden Rectangle, within which is the logarithmic Golden Spiral. The ancient Greeks recognized these geometries as significant and aesthetically pleasing, and architects from Vitruvius to Corbusier have used these pro-

portions as a means of design. The blue diagonal lines represent the architectural diagram, while the blue-violet fabric, the designated color for Architecture, is woven in a chevron pattern representing the complexity of digital design and fabrication. The banner was designed by David Isern and Simon Alvarez, graduates of the College.

The blue background color of the College of Education banner reflects the light blue color designated for education



by the Intercollegiate Code and is also seen in the velvet border of education master's and doctoral hoods and doctoral gowns. The upper area of the banner carries a school building encircled by the words "College of Education" and "Scholarship, Lead-

ership, Service" to represent the primary roles of the college as a unit dedicated

to preparing teachers and furthering educational scholarship, leadership, and service. The Double T logo appears at the bottom of the banner.

The Jerry S. Rawls College of Business Administration banner was designed through a collaborative effort of the staff



in the college's Undergraduate Services Center. The background color of the banner is drab. The central image on the banner is a map of the world centered on Lubbock with the Texas Tech University Double T symbol rising from a focal point in the

South Plains. The banner symbolizes the impact of globalization in the modern business environment.

The College of Arts & Sciences banner was redesigned in 2014 by Randy Lacy, unit coordinator in the college. Crafted



with classical typography and bold lines, the banner replaces the previous college seal with the famous Double T logo. The red and black colors appropriately represent the largest and most diverse college in the

university.

The **Graduate School** banner is blue. Imposed on this background is a white circle within a light blue one. These circles contain the image of a golden open book and a burning lamp. The open book symbolizes knowledge and



the lamp represents a light by which to study. The banner was designed by the late Associate Dean Thomas Langford and Ms. Beth Cain, who was a Graduate School staff member and artist for many years.

The banner of the Edward E. Whitacre. **Jr.** College of Engineering features the seal of the college set on a field of orange,



the academic color for engineering. The seal of the college, inspired by a 2009 design by chemical engineering student Unwana Essien, is encircled with a border of red, white, and black, symbolizing the spirit of Texas Tech University and the Red Raiders.

The two stars represent the ethical duty of engineers to themselves and society. The four symbols in the center of the seal stand for the foundations of engineering:

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

The Honors College banner features a sky blue field onto which is placed a



silhouette of one of the Administration Building bell towers in dark blue. Superimposed on the silhouette is the Honors College emblem in gold: an open book that transforms into a bird taking flight. This symbol represents how learning stimulates human creativity. At the bottom of the banner are

the words in gold: "University Honors College."

The College of Human Sciences banner was redesigned in 2016 and adapted from an original design by former faculty member Dr. Ben Goh. The design depicts an adult, an adolescent, and a child. The diversity of faces and ages represents the



families and communities served by the college in its mission to improve and enhance human lives through teaching, research, and outreach. The image of the globe represents the goal of not only serving the lives of those in the

local community, but also connecting with the global community.

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



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

decency, and purity. Beneath the crimson is the name of the college.

The banner for University Programs exhibits the colors of Texas Tech with a red background trimmed in black. The focus of the banner is the silhouette of the Administration Building's bell tower,



which is an iconic symbol of Texas Tech. Just as the university is comprised of many parts, University Programs integrates multiple programs from colleges across the university. The traditional Double T placed in a window of the tower signifies the

future that awaits students who complete these programs in preparation for successful careers.

The J.T. & Margaret Talkington College of Visual & Performing Arts banner is black with a blue drape surmounted by a silver swathe that evokes the creative energy infused in all the arts. The top of the banner features the words "College



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

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

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



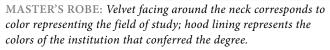
information. The key in the foreground of the banner symbolizes the Libraries' role as guardian and safe keeper of all ideas. In the not too distant past, knowledge was considered sacred or something that was best kept

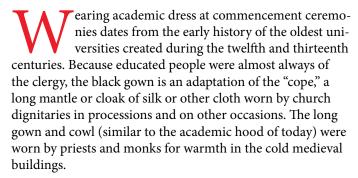
locked away, thus the symbolism of the key. The flames symbolize the Libraries' other and equally important role as the giver of knowledge, providing access to wisdom. For centuries, the use of fire was believed to be man's first step on the path to civilization; one characteristic of fire is its ability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

## ACADEMIC DRESS AND PROCESSION









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

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

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





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

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

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

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

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

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

### COLORS REPRESENTING FIELDS OF STUDY

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

Maize | Agriculture Blue-Violet | Architecture

White Arts, Letters and Humanities

Drab | Business Administration

Lilac | Dentistry
Copper | Economics
Light Blue | Education
Orange | Engineering
Brown | Fine Arts
Russet | Forestry

Maroon | Human Sciences

Crimson | Journalism Purple | Law

Lemon | Library Science

Green | Medicine Pink | Music

Apricot | Nursing

Silver Gray | Oratory (Speech)
Olive Green | Pharmacy
Dark Blue | Philosophy

Sage Green | Physical Education
Peacock Blue | Public Administration

Salmon Pink | Public Health Gold-Yellow | Science

Scarlet | Theology or Divinity Gray | Veterinary Science

Citron | Social Work

### **HONOR CORDS / MEDALLION**

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

Agricultural Sciences & Natural Resources | Green

Architecture | White and Gold Arts & Sciences | Royal Blue

Business Administration | Royal Blue and Gold

Education | Jade Green and Violet

Engineering | Orange Honors | Honors Medallion Human Sciences | Maroon

Media & Communication | Crimson

University Programs | Red

Visual & Performing Arts | Brown

Wind Energy | Blue and Green



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

### TEXAS TECH COMMENCEMENT ANNOUNCEMENTS

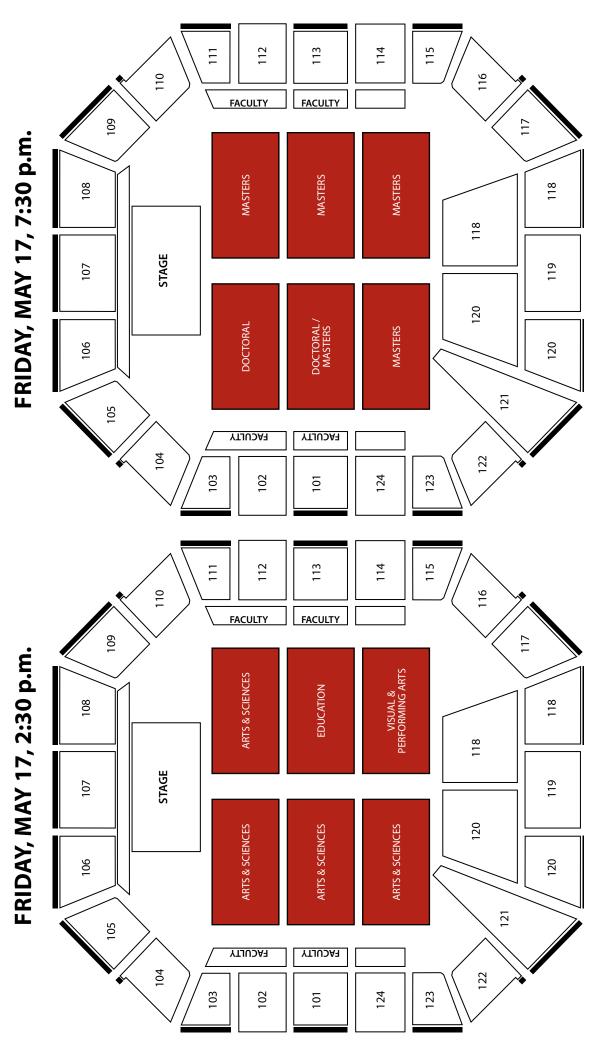
### **GRADUATE PHOTOGRAPHS**

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

### COMMENCEMENT DVD

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

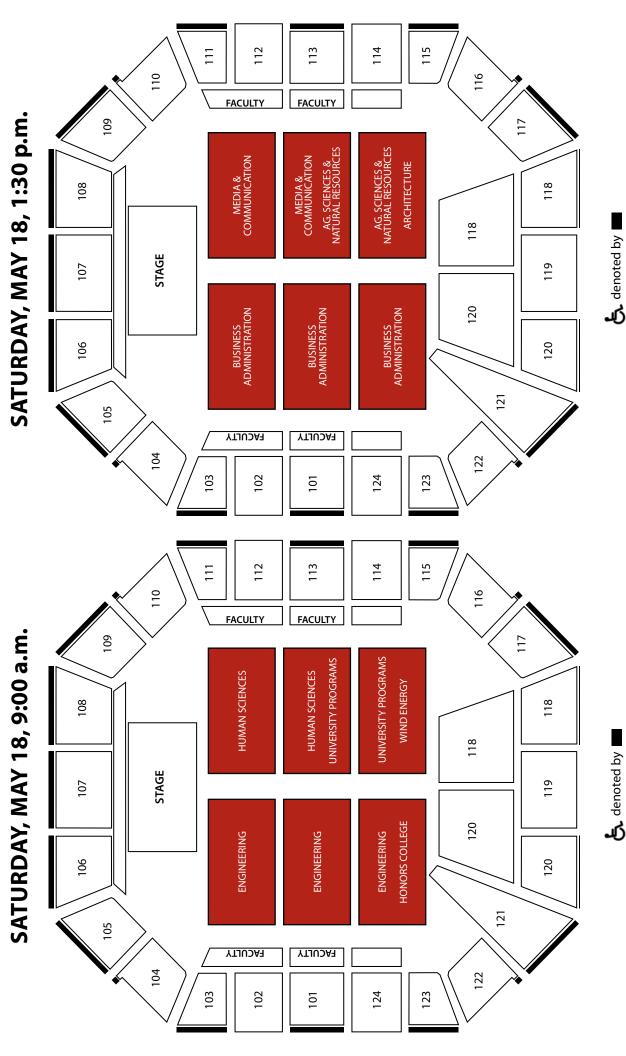




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# TEXAS TECH UNIVERSITY®

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

