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

MARK SHERIDAN, Ph.D.
Vice Provost for Graduate and Postdoctoral Affairs;
Dean, Graduate School;
Professor of Biology

JOSEPH HEPPERT, Ph.D.
Vice President for Research;
Professor of Chemistry

NOEL SLOAN, J.D., CPA
Vice President for Administration & Finance,
Chief Financial Officer

CAROL SUMNER, Ed.D.
Vice President for Diversity, Equity & Inclusion

WILLIAM F. BROWN, Ph.D.
Dean, College of Agricultural Sciences & Natural Resources; Professor, Animal and Food Sciences

JACK NOWLIN, Ph.D., J.D.
Dean, School of Law;
Professor of Law

AL SACCO, JR., Ph.D.
Dean, Edward E. Whitacre, Jr. College of Engineering;
Professor of Chemical Engineering

JIM WILLIAMSON, M.Arch.
Dean, College of Architecture;
Professor of Architecture

MARGARET L. WILLIAMS, Ph.D.
Dean, Jerry S. Rawls College of Business Administration

BELLA KARR GERLICH, Ph.D.
Professor and Dean of Libraries

W. BRENT LINDQUIST, Ph.D.
Dean, College of Arts & Sciences;
Professor of Mathematics

ROBIN LOCK, Ph.D.
Acting Dean, College of Education;
Professor of Special Education

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

TIM DODD, Ph.D.
Acting Dean, College of Human Sciences;
Professor of Hospitality Management

MARGARET L. WILLIAMS, Ph.D.
Dean, Jerry S. Rawls College of Business Administration

NOEL ZAHLER, D.M.A.
Dean, J.T. & Margaret Talkington College of Visual & Performing Arts;
Professor of Music

MICHAEL SAN FRANCISCO, Ph.D.
Dean, Honors College;
Professor of Biology

MR. JOHN D. STEINMETZ
Dallas, Texas

MR. JOHN B. WALKER
Houston, Texas

MR. RONNIE HAMMONDS
Houston, Texas

MR. DUSTY WOMBLE
Lubbock, Texas

MR. MICKEY L. LONG
Midland, Texas

MR. J. MICHAEL LEWIS
Dallas, Texas

MS. JANE GILMORE
Dallas, Texas

MR. MARK GRIFFIN
Lubbock, Texas

MS. GINGER KERRICK
Webster, Texas

MR. CHRISTOPHER M. HUCKABEE
Chairman
Fort Worth, Texas

JOSEPH HEPPERT, Ph.D.
Vice President for Research;
Professor of Chemistry

MAY 2019
From 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.
Since Texas Tech’s first graduation ceremony in the spring of 1927, more than 200,000 undergraduate and graduate degrees have been awarded by the university. From these proud graduates have emerged captains of industry, world-renowned surgeons, noted authors, famous singers, acclaimed teachers and professors, attorneys, entrepreneurs, agronomists, scientists, professional athletes, and countless others who have claimed positions of service and responsibility in a rapidly changing world.

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

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

From here, it’s possible.
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. Michael Galyean
Provost and Senior Vice President

Presentation of Bachelor's Degree Candidates
Dr. Randy McBe
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
( Words on Back Cover)
Ms. Madison E. Smith
Graduating with a Bachelor of Music

Recessional*
Texas Tech Commencement Band

* 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
Master’s Degree Candidates
Dr. Mark Sheridan
Vice Provost for Graduate and Postdoctoral Affairs;
Dean, Graduate School

Recognition of Outstanding Students
Class of 2019
Dr. Michael Galyean

Charge to the Graduates
Dr. Lawrence Schovanec

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

Recessional*
Texas Tech Commencement Band

* Please remain seated during the Processional and Recessional
Saturday, May 18, 2019
9:00 a.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. Dusty Womble
Board of Regents, Texas Tech University System

Introduction of Commencement Speaker

Dr. Lawrence Schovanec

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, Jr.
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

Class of 2019

Dr. Michael Galyean

Charge to the Graduates

Dr. Lawrence Schovanec

Alma Mater
(Words on Back Cover)

Mr. Joshua D. Reynolds
Graduating with a Bachelor of Music

Recessional*

Texas Tech Commencement Band

* Please remain seated during the Processional and Recessional
# Commencement Ceremony

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

<table>
<thead>
<tr>
<th>Event</th>
<th>Person(s)</th>
</tr>
</thead>
</table>
| 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  
*Chairman, Board of Regents, Texas Tech University System* |
| Introduction of Commencement Speaker     | Dr. Lawrence Schovanec |
| 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  
*Dean, College of Architecture* |
| Recognition of Outstanding Students      | Dr. Michael Galyean |
| Class of 2019                            |                                                                         |
| Charge to the Graduates                  | Dr. Lawrence Schovanec |
| Alma Mater                               | Mr. Joshua D. Reynolds  
*Graduating with a Bachelor of Music* |
| (Words on Back Cover)                    |                                                                         |
| Recessional*                             | Texas Tech Commencement Band |

*Please remain seated during the Processional and Recessional*
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.”

Barry 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 archival 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, Pattiiann 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. Andrea 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. Markcia Horton
Dr. Catherine Jai
Mr. Jesse Jou
Ms. Jessica Kirschner
Dr. Belinda Kleinmans
Dr. Erin Marie Legacy
Dr. Jonathan Marks
Dr. Barent McCool
Ms. Sheon Montgomery
Dr. Mark Moore
Mr. Damian Pantoya
Dr. Michelle Pearson
Ms. Gabi Perez-Hunt
Mr. Tom Rohrig
Dr. Jhones Sarturi
Ms. Courtney Seely
Dr. Waleri Smith
Ms. Stephanie Soto
Ms. Carye Syma
Mr. Jake Syma
Dr. Marcus Tanner
Dr. Leslie Thompson
Dr. Susan Tomlinson
Mr. Von Venluiuen
Dr. Jian Wang
Mr. Seth Warren-Crow
Dr. Richard Watson
Dr. Lynn Whitfield
Ms. Feruzan I Williams
Dr. Aliza Wong
Ms. Kiley Yonovich

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 Saldana
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 Cogiser, 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 Irlebeck, 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.
CROWNED 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.

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

MACE BEARERS

Graduate School Ceremony

7:30 P.M., MAY 17 ................................................................. WALTER SMITH, Ph.D.
Professor of Curriculum and Instruction,
College of Education

Undergraduate Ceremonies

2:30 P.M., MAY 17 ................................................................. JOHN ZAK, Ph.D.
Professor of Biology,
College of Arts & Sciences

9:00 A.M., MAY 18 ................................................................. MATTHEW SALDAÑA, Ph.D.
Professor of Wind Science Engineering,
National Wind Institute

1:30 P.M., MAY 18 ................................................................. SHERICE GEARHART, Ph.D
Assistant Professor of Public Relations,
College of Media & Communication

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 Moore
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 McKhailly 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 Stevens
Michael Lawrence Tagliahue
Jenna Leanne Townsend
Kendra Viet
Alexander Paul Vogler
Marah Maclaire Walls
Jordan Taylor White
Tucker McAaron Wise
Kristen Dené York

14 TEXAS TECH UNIVERSITY
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 Ray**

*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

**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 Design-based 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*: Poniendo 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*: Horn Concerti from Baroque to Romantic: Fingering Strategies and its Benefits to Philippine Music for Bassoon and Piano  
*Major Professor*: Mark Morton

**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 McTeer’s “California Counterpoint: The Twittering Machine,” and James M. Davids’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 Professors*: Mark Morton and Virginia Wheaton

**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**

*Major Professor*: Mark Morton

**Lindsay Marie Smith**

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

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**MAJORS**

**Agricultural Education**

**Educational Leadership**

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**DOCTORAL CANDIDATES FOR GRADUATE DEGREES**

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**MAY 2019**

15
DOCTOR OF PHILOSOPHY

AGRICULTURAL AND APPLIED ECONOMICS

Glenn Lucas Furton
Dissertation: The Political Economy of Reform
Major Professors: Adam Martin and Alexander Salter

Gifty Siensso
Major Professor: Conrad Lyford

AGRICULTURAL COMMUNICATION AND EDUCATION

Carla Andrea Millares Forno
Dissertation: The Effects of Instructor Characteristics 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 Semichemicals on Pigs' Behavior, Physiology and Production
Major Professor: John McGlone

Kelsea Marie Brown
Major Professor: Alexandra Protopopova

David Leo Campos
Dissertation: Isolation, Application and Optimization of Lactic Acid Bacteria Cultures L28 Lactobacillus salivarius and J19 Enterococcus faecium to Reduce Listeria monocytogenes on Cheese
Major Professor: Mindy Brashears

April K. Englishby
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 Phenotypic 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
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Dissertation: Evaluation of Vitamin A and Zinc Propionate Supplementation on Performance, Sera Metabolites, Muscle Fiber and Carcass Characteristics in Beef Steers
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Dissertation: Enrichments Strategies that Modify Cat Behavioral Patterns: Their Applications in Improving Welfare
Major Professor: John McGlone

COUPLING, MARRIAGE, AND FAMILY THERAPY

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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
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CIVIL ENGINEERING

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

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

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 Priyantya Jayawickrama

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

CHEMISTRY

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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

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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
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CURRICULUM AND INSTRUCTION

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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 Adolescents 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
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Dissertation: Out of School Time (OST) STEM Activities Impact on Middle School Students’ STEM Persistence: A Convergent Mixed Methods Study
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Dong Zhou
Dissertation: A Sociocultural Analysis of Chinese Scholars’ Perceptions of their Academic Writing Experiences in American Academia
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Dissertation: Essays on the Macroeconomic Effects of Monetary and Macroprudential Policies
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EDUCATIONAL PSYCHOLOGY

Christy Kennon Chapman
Dissertation: Co-morbid Anxiety Disorders in Children and Youth with Autism Spectrum Disorders
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Dissertation: Facilitating Young Children’s Conceptual Knowledge of Mathematics Through Physical Activity
Major Professor: Tara Stevens

ENGLISH

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Dissertation: Investigating Possibility of Lock-on in a Photo-conductive Semiconductor Switch (PCSS) for High Power Applications
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Dissertation: The Last Visit: Poems
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Major Professors: Mary Jane Hurst and Scott Baugh

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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
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Dissertation: How to Fit All the Planets in a Model Solar System: Poems
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Dissertation: Fantasies of Wales: Some Paleographic Evidence for the Mediating Role of Gerald of Wales
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Dissertation: Susceptibility to Kidney Diseases from Chronic Exposure to Arsenic or Nicotine
Major Professor: Kamleshwar Singh

Lucy Porada Lim
Dissertation: Analysis of Indoor Radon in Texas and Depleted Uranium in Hawai‘i
Major Professor: David Klein

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

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 Maria 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
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Elyas Uyghur Awaner
Dissertation: A Receiver Function Study of Southern California Lithosphere Using Wavefield Iterative Deconvolution
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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
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

Samer Melhem
Major Professor: Narissra Punyanunt-Carter

NUTRITIONAL SCIENCES

Malilha 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 Heinez

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-Al Phase Diagram at High Temperature
Major Professor: Mahdi Sanati

Alexandra Vladimirzovna Gordinenko
Major Professor: Anthony B. Kaye

Michael C. Holcomb
Dissertation: Coordination of Ventral Furrow Formation during Drosophila Gastrulation through Mechanical Stress Feedback
Major Professor: Jerzy Blawzdziewicz

Suei Del Carmen Skinner Ramos
Dissertation: Toward a Phase-imaging Optical Nanoscope
Major Professor: Luis Grave de Peralta

PLANT AND SOIL SCIENCE

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

Niwanthi Dissanayake Disssanayake Ralalage
Dissertation: Cellulose Dissolution in Ionic Liquids
Major Professor: Nouredine 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
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

MEDIA AND COMMUNICATION

Lynn Jessica Fomuna Agnoun
Dissertation: Raising Her Voice Across Africa: Women’s Empowerment Through Digital Storytelling
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Nicole Kathleen Borrenpohl
Major Professor: Kendall Gerdes

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Dissertation: Developing Ambient Methods for Ambient Rhetorics
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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 ART EDUCATION
Valeria Duron
Hector Ryan Grandorf
Xiuyin Hu
Areezo Kayal
Thao Ha Le
Maria Lourdes Leon
Zachary Wayne Morris
Zane Tyler Morrison
Zane Tyler Robles
Steven Nathaniel Roop
James Austin Taylor
Josiah Kent Thomas
Marissa Leigh Williams

MASTER OF ARTS
Taylor Denise McKinney
Thesis: An Archaeological Examination of Lifeways at Mission San Lorenzo de la Santa Cruz, Real County, Texas (41RE1)

ANTHROPOLOGY
Krista Lynn Kasael

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 Heathly
Michelle Ann Hershberger
Thesis: Managing Graduate Teaching Assistant Misbehaviors: Perspectives of Basic Course Directors’ from the Front Porch

ECONOMICS
Abdullah Sultan Al Shammr

ENGLISH
William Raiford Brown
Dissertation: 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

HISTORY
Jacquelyn Irene Anderson
Kayla Michelle Gray

Kylea Leanne Maples

INTERDISCIPLINARY STUDIES
Kerry Jean Kisean Allen
Hamza Bin Khalid
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Lorena Fabiana Alarcon
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Matthew Lee Horn
Kai Ying Hsu
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Xiaoyu Liu
Miles Jeffrey Pedretti-Allen
Nagisa Shimizu
Tyler James Simpson
Martheventy Herry Theopilia Soumokil
Brett Lee Stine
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MASS COMMUNICATIONS
Blake Alexander Bayardo
Stephen Samuel Castro
Meredith Ann Caudle
Morgan Victoria Castro
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
Alcicia Marie King
Carolyn Elise Owen
Simon Scott Parmley
Mackenzie Sterling Pierce
Emileaann 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
  Thesis: Multifaceted Religion and its Relationship with Violent Attitudes and Behaviors

PHILOSOPHY
Patrick Nicholas Brooks
Chad Ryan Cummings
Mark Andrew Simoncic
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Colin Gordon Viray
  Thesis: Developing and Evaluating Cognitive Behavioral Case Formulations and Network Analyses Within Complex, Comorbid Cases: Implications for Treatment

POLITICAL SCIENCE
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
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-Barguthi
Megan Aranda
Consuelo del Val Zaballos
Noemie Hamaide
  Thesis: Les multiples visages de la gare: genre romanesque, lieu anthropologique, non-lieu, lieu d’insécurité 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
Eile Arline Rickman
  Thesis: Multifaceted Religion and its Relationship with Violent Attitudes and Behaviors

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Cherylan Butler
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Fabiola Stephanie Vargas

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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

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Katherine Elizabeth Snyder
Sydney Elizabeth Ann Stegint
Ryan Cade Timmons
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Sarah Velez
Austin Davis Zamarripa

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Kristine Michelle Johnson
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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
Dora Zita Bosnyak
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

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Nectaria Paraskevi Delgadillo
Jesus Andres Fuentes Valverde
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Yixuan Huang
Haley Elizabeth Kirychuk
Lauren Lise Pokorynzski
Christopher Michael Rojas
Luca Sacher
Justice Harrison Saldana
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 Philipott
Qi Zhang

MASTER OF SCIENCE
AGRICULTURAL AND APPLIED ECONOMICS
Sawsan 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
*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 Volunteering 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*

Kersey Elizabeth Jacobs
*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**

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

**BIOTECHNOLOGY**

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

*Marisa Elise Wagley*

**COMPUTER SCIENCE**

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

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*Thesis: Understanding Cyber Attacks Using Text Mining*

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**ENVIRONMENTAL TOXICOLOGY**

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*Thesis: Regional Surveillance and Seasonal Variation of Eyeworm (Oxyuris petrowi) and Caecalworm (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)*

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**FORENSIC SCIENCE**

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*Thesis: The Use of Entomological Samples as Potential Odor Biomarkers for Decomposition Stages*

Kiernyn 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*

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

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*Thesis:* Numerical Studies of Hydrogen Outgassing from Copper Electrodes

Michael Christopher Brown
*Thesis:* Modeling and Integration of Vanadium Redox Flow Battery with the Grid

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

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*Thesis:* Armature Performance in Miniature FCG’s

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

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*Thesis:* Transformer for Medium Voltage and Low Voltage Interface, Simulation and Analysis

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Aditya Amol Magdum
Rashan Sreshtha
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*Thesis:* Quantifying a New Horizontal Well Gas Anchor Performance

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

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*Thesis:* Visual Analytics of Multidimensional Data Using Immersive High Performance Computing Center Data

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Samantha Morgan Villarreal
Cyré Charlene Virgo
Shanen Lee Warneke
Spencer Bleu Whitney
Tony Wojnarek
Hannah Beth Woodlee
Catie Nicolette Wright
Meggan Colleen Yancey
Kaley McCall York
Daniela Yossema Zavala
2nd Major: Spanish
2nd Degree: Sociology
Bailey Nicole Barrett
Micah Michelle Danielle Guerrero
Ryne Thomas Sepper
Kaitlyn Shae Sugg
Natalia Tsokos
Isabelle Esther Wheeler
Vanita Veronica Wright

SOCIAL WORK
Aliyah Destinie Acuria
Bruce Thomas Archer
Coby Ryan Benson
Garrett Lane Bratron
2nd Degree: Microbiology
Preston M Brower
Katherine Suzanne Brown
Amanda Kay Crouch
Jonathan Felipe Diaz
D’Nika Lea Edwards
Landon Charles Fuller
Britney Alayne Garnica
Jennifer Odaly’s Garza
Anelly Noemi Grimaldo
Jesse Wayne James
Sara Nicolle Limp
Samuel Ricardo Lozoya Reyes
Shaillee Brooke Manning
Marissa Nicole Martin
Monica Raquel Martinez
Joseph Dane McKittrick
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Jarrett Ray Mieure
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Jack A Reichel
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Reuben Adrian Rodriguez
Kaitlan Christy Ruckel
Reagan Michelle Sanders
Lee Le Mary Elizabeth Scholz
Taryn Noelle Skoumal
Haley Renee Stevers
Chloe Lea Stewart
Paige Elizabeth Test
Ashleigh Allison Tidwell
Kayla Christine Ulbrich
Kaeli Lynn Yager

SPANISH
Ethan Christian Andersen
Rivir Scott Berry
Leslie Nicole Blake
Odalis Saray Cardenas
2nd Degree: Communication Studies
Paige Annette Carroll
Leonardo Daniel Castañeda
Alexander Tomas Cesani
Daniel Joshua Cruz
Deissy Marlene De La Rosa Sandovaal
Juana Silvia Flores-Garcia
Mariela Ann Grimaldo
2nd Degree: Chemistry
Jenna Michelle Hooten
2nd Degree: Biology
UNDERGRADUATE CANDIDATES

BACHELOR OF GENERAL STUDIES

Alexis Elena Aguilar
Brooklyn Lee Anderson
Bianca Andrade
Kimberly Baca
Vijay Krishnakumar Balasekaran
Darren Théodore Bouyer
Lauren Beth Cockrell
Hannah Asha Daniel
Khadijah Regine Davis
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Abigail Paige Kelley
Joshua Aaron Meador
William Wyatt Morris
Joel Thomas Muth
Victoria Chikoari Okoronkwo
Kaetlie Rose Palomin
Anthony Joseph Pascullo

2nd Degree: Cell and Molecular Biology
Joel Jesse Perez
Samantha Kay Petty
Christopher Robert Ramos
Michael Pierce Raney
Ashton Tyler Rangel
Benjamin Phillip Rantz
Shannon Kortnarin Record
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Garrett Lee Rose
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Glen Earl Waldo III

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Collin Lane Willenborg
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Katie Elizabeth Younglas
Qi Ji Zhu

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BIOCHEMISTRY

Rana Ali
Stephan Brian Azatian
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Kwame Kusi Opoku
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Mark Harout Shahanin
Joshua Allen Silief
Jorge Sosa
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BIOLOGY

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Oscar Almazán
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Juan P Badía
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Angel Barrón
Summer Renée Beckworth
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Aymoide Alimat Tahir
Eduard Kyle Palanca
Benjamin James Thompson
Ryan Gregory Tijerina
Jacqueline Esther Velasquez
Anahi Velaquez
Geralene Reyes Villaverde
Urooj Wahid
Nickolas Damien Weyandt
Kristen Alexander Wolf
Christina Marie Wright

CELL AND MOLECULAR BIOLOGY

Alexander Tomiwa Akande
Amanda Marie Benge
Matthew Peter Le Blanc
Edward Sloan Miller
Megan Tara Murchison
Jason Matthew Peirce
Stephen Andrew Saltus
Darron Chandler Tharp
Jaclyn Paige Williams
Theodora Ebehiemere Winter

1 Summa Cum Laude 2 Magna Cum Laude 3 Cum Laude 4 With Honors 5 With Highest Honors
CHEMISTRY

Elisabeth Belay³
Anisha Bhakta
Aaron Reid Bigbie
Brandon William Broyles
Amy Michelle Daniel
Edidiong Abasi Daniel Daniel³
Gabriel Antonio Estrada
Zachary Thomas Kemp²,⁴
Florentino Abaga Nsue Medja
Meeraf Mulugeta³
Dwayne Douglas Reaves
Savannah Nicole Stone
Katya Yesenia Torres Ulloa¹
Kevin Paul Tovar
Henry Jared Trubenstein¹⁴
Vivian Wohl

ECONOMICS

Brendon Lawrence Bessiere
Trevor John Latchford
Cristian Mendez
Neel Prasad Roy¹
Catherine Torres Leone

GEOSCIENCES

Jean Christophe Cangah
Jacob Nicholas Cifone
Andrew Louis Crabtree³
Yesenia Duque
Ruben Alonso Guel
Isaac Trevor Moody
Nicholas Vincenzo Narduzzo³
Emmanuela Manzan Niamkey
Justin Adimabua Ojemi
Moira Josee Plantier
Justin Patrick Roeder²
Blake Anthony Smith
Doyuere Kosselinan Frederic Soro
Jacob Christopher Sullivan
Joshua Robert Sundgren²,⁴
Santosh Swamianathan
Matthew Patrick Williams
N’Dri Assenzue Karen Aymare M Yao

KINESIOLOGY

Hailee Jean Adams
Brian Thomas Adams¹
Ini Adebobun
Kyleigh Nichole Allie³
Kaleb Asher Arguello
2nd Degree: Marketing
William King Arrott
Kelsey Kristine Asbery²
Olatunji Asekun
Yasmine Abu Baker
Erin Elizabeth Barth³
Cassandra Nichole Batchelor²
Baylie Ann Benge¹
Hannah Elise Benton
Sara Agustina Bernadette
Sydney Carolyne Betcher²
Reed Grayson Brannon
Bailee Elaine Bunnell
Amanda Michelle Burton¹⁴
Jenny Cardoso
Wendy Li Carey³
Nicholas Emmanuel Casas
Alyssa Marie Castillo¹
Mariana Cesar
Kristen Lindsey Chapa
Ethan Thomas Chavez
Sierra Angelica Chavez
Chandler N Check¹
Justin Matthew Clark¹
Josey Shyanne Cleveland²
Joshua Raymund Cortez
Kiersten Jane Cox¹
Javier Andres Cruz-Cortes
Michael Cole Crye²
Surya Elisse Daniel
Drew Connor Davis
Megan Nicole Davis
Sarah Beth Davis³
Luis Daniel Diaz
Michelle Rose Dyck
Laura Beth Earhart
Joshua Ryan Flores³
Bernardo Galvan²,⁴
Jose Salvador Garcia, Jr.¹
Kimberly Ann Garza
Marc Anthony Garza
Kimberlyn Shaye Glenn³
Emily Peyton Gonzales³
Jade Breanne Greer
Mitchell Garrett Haines
Shannon Blair Halbert
Kennedy Bree Hallmark
Jacob Paul Harris
Zachery Dewey Wayne Harris
Caylen Renee Harshbarger
Sydney Elise Henderson
Celeste Danielle Hernandez
Kaylee Layne Hinton
Rebecca Lynn Huffman
Celeste Halley Johns
Tiffani Lynnette Johnson
Joshua Raymond Kast
April Anne Kelley¹
Kaitlyn Louise Kennedy²
Hailee Ondrea King³
Deylon Briann Kirschling
Natasha Paige Koschel²,⁴
Ryan Dale Lacy²
Shelby Sue Larkins
Catherine Janae Latimer³
Katarina Ann Leal
Mikaela Huntley Lechtenberger
Sarah Madison Leder
Jennifer Renee Lemmon
Kelsey Breann Lemus
Joshua Michael Lewis³
Hunter Brent Little²
Aiden Joseph Margritz³
Phillip James Mark
Marisa Emily Martin
Karla Martinez
Perla Martinez
William Hunter Martin
Allison Brooke Mastrandonas
Emily Claire May³
Jared Christopher May
Molly Rebecca McClain²
Garrett Chandler McCullough
Emily Elizabeth McDonald
Megan Elyse McClothing¹
Kara Ashlan McIntire
Robert Edwin Meyer III²,⁴
Brittany M Meza
Abigail Elizabeth Minnery³
Sage Allison Mizell³
Colin Dean Morgan
Gugulethu Mthupha³
Leslie Neavez²
Kiera Kyette Nevels-Washington
Fernando E Nunez
Colton Joel O’Brien
Eseose Melanie Ogbebor
Aerion Ashleigh Olive-Coates³
Sabrina Adriana Ortiz
Andrew Joseph Parisi²
Skyler Rebeka Pearlman³
Jesse Robert Perez¹
Jensen Renee Perkins
Valencia Marie Ramirez
Joshua Patrick Re²
Riley Benjamin Reich¹,⁴
James Edison Rhodes
Antonio Rivera
Angelique Marie Robles¹
Shannon Kathleen Rockwell²
Christian Rodriguez¹
Alexis A Ruiz
Noah Elliott Sager
Alissa Maria Sartos³
Bailey Aspen Sapieha
Landon Nathaniel Sawyer³
Claire Julia Schexnadyer
Cory John Shackelford
Lindsay Rae Shadden¹
Sami Muhammad Shahzad²
Keaghan Cori Shinn¹
Derrick Walnumbe Simiyu
Samantha Elise Smith
Brandon Richard Spencer¹
Jacob Howard Spruill
Elizabeth Faye Styrn³
Hannah Ilisa Taub
Megan Elizabeth Tetzlaff²
Jenna Leanne Townsend¹,⁴
Austin Matthew Treese³
Jesus Raymundo Vaquera
Brandyn Joseph Vasquez
Jero Joseph Vick
Bertha Bethsabe Villarreal
Courtney Nicole Warren
2nd Major: Sport Management
Richard Anthony Webster
Selene Alejandra Webster
Elisabeth Alice White
Trevor Blake Williams²,⁴
Christopher Winne Yaneza
Joacim Zuniga

MATHMATICS

Creed Wills Abell V
Samuel Alcantar
Brittany Nicole Bonnett
John Denton Callaway
Michael David Chandler
Ty Andrew Crenshaw³
Danielle Renee Diaz
Mikayla Anne Dom
David Nwawuba Ejiegu
Jimmie LaNell Evans¹,⁴
Kip Keith Fletcher¹
Sergio Gomez
Abram Francisco Gonzales
Adrian Gonzalez
Katherine Rose Gourley²
Brandi Tyshon Hennington

¹Summa Cum Laude  ²Magna Cum Laude  ³Cum Laude  ⁴With Honors  ⁵With Highest Honors
UNDERGRADUATE CANDIDATES

Anvar Kenneth Szulczyn
Montana Nicole Williams

SPORT MANAGEMENT

Madison Chukwudi Akamnnonu
Haley Renee Bruedigam
Dylan D Bush
Sasha Chanel Campos
Allen Brent Cochran
Sheldon James Coleman
Jared Robert Cook
Christian Arturo de los Santos
Julia Elizabeth DeZendor
Daniel Jose Duron
Jonathan M Farias
Jonathan Ellis Ferrant
Reymundo G. Garcia
Hayden David Gowens
Rylie Paige Jacobs
Jolie Noelle Joniec
Charles Jones
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Healeigh Rae Lane
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Houston Matthew Miller
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James Raymon Pullen
Isaac Jerod Shepard
Timothy Joel Snell
Terence Jordan Steele
Paul Henry Thomas
Christopher Ingersoll Vanisko
Bailey Jo Whilden
Kaitlyn Leona Woods

BACHELOR OF SCIENCE IN INTERNATIONAL ECONOMICS

Danny Mac Cottet
Andrew Stephen Diaz
Triston Mitchell Keith Halbert
Victor Munir Hazbun
Austin Xavier Hernandez
Ian Alexander Holman
Joshua Andre Mitford
Brian R Owens
Jacob Andrew Polvado
Jessica Adriana Pinon
Triston Mitchell Keith Halbert
Allen Brent Cochran

BACHELOR OF BUSINESS ADMINISTRATION ACCOUNTING

Marzouk Murtoza Ali
Zachary Edward Allen
Caroline Grace Anderson
Kaymen L. Anderson

Teresa Anne Williams

Abrielle Frances Arnold
Courtney Anne Bartholomew
Brigham Alexander Beatty
Korbin Drew Beierschmitt

2nd Major: Management

Natalie Moreira Bennett
Conner Scott Bentley
Avni Bhakta
Morgan Jennifer Blank
Andrew Patrick Blazer
Kathryn Paige Bouldin
Justin Taylor Bowman
Kathleen Elizabeth Bramow
Andrea Elizabeth Brandt
Logan Leight Brandt
Rebecca Diana Brown
Caitlin Lindenfeld Byerly
Madison Kate Carpenter
Courtney Michelle Carr
Austyn Kate Casale
Ying Chen
Michael J. Chiasmore
David Christopher Cole
Christopher Michael Corbin
Collin Michael Croskery
Lillie Robyn Damrich
Kimberly Del Angel
Cory Michael Dunlap
Juan Elizar Duran
Molly Clare Elkins
Samantha Nicole Fahey
Eric Gomez Fernandez
Austin Joseph Ficken

2nd Major: Finance

Vladislava Flic
Walker Hayes Franz
John Michael Getz
Andrew Thomas Gray
Rachel Anne Hancock
Llewellyn Harkness

2nd Major: Finance

Troy Mathis Harris
Matthew Troy Hebert
Sidney Meagan Henderson
Benjamin Luis Hernandez
John Christopher Hetmian
Kylie Irish Hight
Nadia Waritha Hogan
Eric Anthony Honesto
Cullen Joseph Hottenger
Benjamin Lance Howse
Hannah Rose Jensen
Hannah Danielle Johnson
Jonathan Andrew Jones
Logan Kyle Kelly
Yonghoon Denny Kwon
Haley Nicole Ky

2nd Major: Management

Zuber Lalani
Shane Alan Lawless
Gerardo Lopez-Delgadillo
Nancy Martin
Johnnie Cornell Martinez

2nd Major: Marketing

Taylor Gregory Mason
Monica Ophelia McGee
James Ryan McGhee
William Kyle McGhee
Kara Michelle McKay
Nancy Wu McNeil
Callie Shea Melton
Joanna Lee Michna

1Summa Cum Laude  2Magna Cum Laude  3Cum Laude  4With Honors  5With Highest Honors

PHYSICS

Ismael Alaniz
James Raymond Alvarado Christian
Colin Travis Brown
Lorenzo Joel Chapa
David Quoc Son Do
Michael Ray Henry
William James Milestone
Heath Montgomery
David Alexander Oliver
Sean Mariano Pinal
Aldo James Rico
Kenton Duane Sanders
Carlos Felipe Silva

2nd Major: Mathematics

MAY 2019
Kirby Marshal Miller
2nd Major: Management

Kade Emerson Mohr
2nd Major: Finance

Starr Brielle Monroe
Allison Renee Moreno
Trevor Jackson Nicholas
Ysabella Jane Olivarez
Michael Ryan Pearsall²
2nd Major: Finance
Dana Michelle Pelletier³
Wallace V. Pope
Simao Pusti
Fernando Adam Ramirez
Raul Reyes
Chase Michael Robertson³
Alfredo Rodriguez
Marilu Esther Rodriguez
2nd Major: Management Information Systems
Robert Frederick Rodriguez⁴
Sarah Renay Rodriguez³
Emily Ruth Ryan³
Austin Paul Sanders
Christine Faith Saso³⁴
Cailin Ashley Scherpereel³
Hailey Renee Schindler Anderson
Aguinaldo Benedito Sebastian³
Brandon James Selph³
2nd Major: Management Information Systems
Cody Tyler Shelton
Alejandra Beatriz Solís³
Jared R. Sorbet
Allison Rebekah Stafford³
Eric Matthew Summerlin⁷
Lydia Mae Swonke³
Troy Daniel Symons³
Olivia Marie Taylor³
Eric Matthew Teller
Lindsey Brooke Test⁴
Whitney Brooke Thoms
Ma’Kayla Nicole Tillman
Kaylynn M. Tonarello
Alexandra Torres
Elda Andrea Torres
Ethan Louis Voit
McKenzee Jordyn Volz³
Samantha Nicole Waldheim³
Carly Joy Walley
Laura Marie Vie Warner³
Cole Gage Williamson
Callie Elizabeth Wood³
Xinwei Wu
Zihui Wu³
Silway Xin
Mami Yamamoto
Chase Houston Yandell

Braxton Kent Iden²
John Wesley Isaac
Katrina Elizabeth Jones³
Colton Christopher Kemp
Zachary Jones Marsh
Trey Andrew Masek
Gabriella Elise Mathis³
Massimo Vincent Parisi
Daniel Kelly Patton
Jared Thomas Smith³
Paige L. Williams³

FINANCE
Mallory Kaye Adams³
Xavier Chukwuemezika Aliche
Isabel M. Araujo³
Colton Thomas Asing
Luke La’akea August Auten³
Omar Francisco Barrera García
Jordan Chelsea Benavides³
Olivia Rae Bergeron³
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
Damin Castillo
Christopher Kyle Cate³
Hunter Andrew Cisco³
Michael David Clark²
Jordon Thomas Cox³
Shelby Matthews Cox
Anna Victoria Creecy
Alexander James Crowley¹
Jacob Joe Davis³
Mason Douglas Davis³
Andrew Ian Deeter
Ann Browning Dodson³
Stella Lane Doyle³
Allison Bailey Eklund
Kaleb Shimelies Feleke³
Garrett Hicks Fisher
Nicholas Fischer Foos
2nd Major: Accounting
Sara Isabel Galvan
Guillermo Enrique Gameros
Andres Daniel Garza³
Jack Randall Gaubert
Grant T. Gilbert
William Sadler Glenn
Matthew David Gordon
Brittney Ann Grabbe³
2nd Degree: Agricultural & Applied Economics
Jackson Harold Grimes
Noemí Guereca
Nicholas Paul Haddick
Mia Sky Hadley-Ward
Paul Dudley Hatch³
Jonathan Ward Higgs
Robert Collin Hinson¹
Roger Thomas Hoffman
Hudson Reed Hyer
Russell Stover Ivy
Tarun Kumar Jakkaraju
Jake Charles Jarvis³
Isahia Mathew Johnson
Colton Michael Jorgenson
William Cole Kassul
Ryan Sangjoon Kim
Max Morris Kinney
Jon Claude Kirbo³
Michael B. Kirbo³
2nd Major: Accounting
Nicole Kissiel
Clayton Stockton Kothmann³
Eric Albert Kowalk
John Phillip Lanyt²
Juan Carlos Larrieu
Matthew Robert Lawler
Matthew James Lis³
Charles Joseph Lloyd
Allyssa Jessalyn Lopez
Payton Rae Lumpkin
Dylan T. Lumsden³
Martha Lucia Martinez Perales³
Daniel H. Matson
Annette Ruth Mayne³⁴
Audrey Lynn Mays
Jacob C. McDougall³⁴
Alicia Nicole Mendoza³
Garrett Thomas Michelsen³
Danielle Lynda Murphy³
Umair Shafiq Nasser³
Jaymee Michelle Newman
Christian Shelby Nichols
Mary Margaret Nolan³
Audrey Angela Ohihaber³
Colby Shane Pair
Nicholas J. De Palma-
ci
Bailey Erin Patrick
Mason Ryan Perkins
Alex Benjamin Peterson
Dylan Ryan Price
Hayden Davis Richard
Issac Isiah Rodríguez
Christine Faith Ruybalid³
Tara Michelle Salvatore³
Joseph Daniel Schreiber
Lily A. Scott³
Alec Michael Smith
Emily Jane Smith
Payton Allen Smith
John Parker Stafford
Cole Victor Stoveken
Justin M. Sward¹
Matthew William Tarpley
Lucas S. Teeler
Tristan Edward Thatcher²
2nd Major: Accounting
Aniekakabasi Okechi Uba
Alexandra D. Valenstein³
Matthew Tate Wagner²
Nile Walker²
Tyler Jonathon Wheaton
Evan Spencer Williams
Gordon Pate Williford
Augustus Ray Winkler

ENERGY COMMERCE
Mateo J. Bahamonde Berrezuela³
Alex Conner Blanchard
Claire Ashley Clark
Benjamin Andrew Coronado
Christopher Joseph Cox
Audrey Marie Cuyler
Jordon Chaye Dean
Shelby Erin Frazier³⁴
Timothy A. Gallego
Amy Marie Gennrich³
Deanna Gonzalez³⁴
2nd Major: Finance
Travis R. Groschke³
Krystal Hsiung³

Max Morris Kinney
Jon Claude Kirbo³
Michael B. Kirbo³
2nd Major: Accounting
Nicole Kissiel
Clayton Stockton Kothmann³
Eric Albert Kowalk
John Phillip Lanyt²
Juan Carlos Larrieu
Matthew Robert Lawler
Matthew James Lis³
Charles Joseph Lloyd
Allyssa Jessalyn Lopez
Payton Rae Lumpkin
Dylan T. Lumsden³
Martha Lucia Martinez Perales³
Daniel H. Matson
Annette Ruth Mayne³⁴
Audrey Lynn Mays
Jacob C. McDougall³⁴
Alicia Nicole Mendoza³
Garrett Thomas Michelsen³
Danielle Lynda Murphy³
Umair Shafiq Nasser³
Jaymee Michelle Newman
Christian Shelby Nichols
Mary Margaret Nolan³
Audrey Angela Ohihaber³
Colby Shane Pair
Nicholas J. De Palma-
ci
Bailey Erin Patrick
Mason Ryan Perkins
Alex Benjamin Peterson
Dylan Ryan Price
Hayden Davis Richard
Issac Isiah Rodríguez
Christine Faith Ruybalid³
Tara Michelle Salvatore³
Joseph Daniel Schreiber
Lily A. Scott³
Alec Michael Smith
Emily Jane Smith
Payton Allen Smith
John Parker Stafford
Cole Victor Stoveken
Justin M. Sward¹
Matthew William Tarpley
Lucas S. Teeler
Tristan Edward Thatcher²
2nd Major: Accounting
Aniekakabasi Okechi Uba
Alexandra D. Valenstein³
Matthew Tate Wagner²
Nile Walker²
Tyler Jonathon Wheaton
Evan Spencer Williams
Gordon Pate Williford
Augustus Ray Winkler
Komi Khamis Koko  
2nd Degree: University Studies

Joseph Terrence Farber Matzko  
2nd Degree: Agricultural & Applied Economics

Matthew Rae Mitchell  
Justin Michael Monfils  
Jake Ryan-Spearman Nash  
Benjamin Padilla³

INFORMATION TECHNOLOGY

Leonard Joshua Anguiano  
Douglas Alexander Bednorz  
Matthew Alexander Bernstein¹  
John Thomas Billington¹  
Jose Eloy Camero, Jr²  
Christopher Joseph Congelosi  
Luke Dehan  
Jordan Michael Flowers³  
Fabian Samuel Fuentes  
Brianna Nicole Goodemout⁴  
Edward Adam Harding  
Sean Michael Hodges  
Juan Pablo Isaac  
Ryan James Kenney  
Victoria Rochelle King³,⁴  
Thien D. Le¹  
Joseph Michael Lira  
Casey Harrison Macaluso²  
Samantha Maria Martinez  
Zacary Luis Martinez  
Alexandra Juliet Miller  
Andrew-Adil Zafar Miller³  
Brian Boi Long Nguyen  
Emmy Ogo K Nnoso Anyaka³  
James Hunter Nordyke  
Ana Margarita Peña  
John Florencio Peña  
James William Petrie III³  
Cesar Armando Regino  
Crisbel Rodriguez  
Nicholas Anthony Small  
Andrew McClellan Smith  
Maria Isabel Torres

MANAGEMENT

Shayla Renee Achen³  
Richard Hayden Adamson  
Carlos Eduardo Arellano Becerra  
Cameron Jett Barnett  
Lauren Patricia Barry  
William Paul Beirnes  
Coiit Michael Bertrand  
Melanie Kay Bradley  
Lauren Juel Bragg⁴  
Wyatt Cotter Brannan  
Joseph Philip Brugger  
Armando Isaiah Calvo  
Jarrett J. Campbell  
John Thomas Carly³  
Christopher James Cazavos²,⁴  
Tyler Blake Christie  
Kelton Martinez Clark  
Cameron J. Clayton³  
Chanston Blake Cochran  
David A. Cole  
Connor Charles Cook  
Levi P. Cooper  
Nicoletta Jasmine Coppedge  
2nd Major: Marketing  
Nicholas Robert Dieter  
Jace Daniel Drennan  
Kaleb William Earls  
David Colvin Fegan  
Avery Elizabeth Ferris³  
Donald Zachary Ford  
Shayann Taylor Frishman  
Derek Thomas Furman  
Omar Mohammad Gaballa  
Analea Garza  
Kshitzeraj S. Gautam¹,⁴  
Cassandra Annette Gomez²  
Riley N. Gonzales  
Jacob Ross Goodner  
Paul David Graafisma II  
Jonathan Atrue Gumbs  
Alana Brooke Hamilton  
Gwendolyn Nicole Hammons  
Blake Vincent Hardy  
Andrew Laine Harrison  
Rachael Claire Harriss  
Dylan Lane Hawkins  
Hunter Wayne Hawkins  
Ryan Russell Hughes¹  
William Charles Hulshof³  
Doreilyn Margarette Jackson  
2nd Degree: Languages & Cultures

Tiera Nicole Johnson  
Kendall Brianne Kerlee²  
Brandon Lee Koch  
Megan L. Krodell  
Taylor Nicole Kuhlman  
Alexander Collins Landon  
Ashley Sarah Lane  
Crystal DeAnn Lopez³  
Neil Fares Marol  
Christy Ann Martín  
Michael David Martinec  
Christian Martínez³  
Ricardo Alexis Martínez  
William C. McKenzie  
Rachel Ann McMillan¹  
2nd Major: Marketing  
Caroline Merritt Millorn³  
Shawnee Lynn Moreland  
Bushe Sayer Morgan  
Liliana Victoria Muñoz  
Chandler Konrad Neinst³  
Claire Suzanne Newberry  
Rachael Sinclair Noschese  
Happiness Toechuchkwu Okeke  
2nd Major: Marketing  
Carlea Morgan Oldani²  
Rachel Michelle Overman  
2nd Degree: Human Sciences

Toluwanimi Mary Oyebode  
Giovanni Miguel Pancotti¹  
Bradley William Patton  
Ashton Thomas Perry  
Courtney MKayla Pierce²  
2nd Major: Marketing  
Andrew Caleb Platter  
Christopher Karsten Pontikes  
Jay Francis Pultorak  
Kailee Doris Querner  
Regan Laura Raines  
Reina Elizabeth Ramirez  
Gatin Douglas Reed  
Sebastian Bernard Reyes  
Bruno Reyes, Jr.  
Briton Alan Robinett  
Emily Milan Robinson  
Cassandra E. Rodriguez  
Megan J. Rodriguez  
Jake William Salyer

John N. Sanches  
2nd Major: Marketing  
Paulo José Zau Dos Santos  
Hollye Brianna Shearer  
2nd Major: Marketing  
Shannon Denise Shipley³  
2nd Major: Marketing  
Kevin Joshua Smith  
2nd Degree: Agricultural & Applied Economics

Shelby Allison Smith  
Shelby Marie Smith  
2nd Major: Marketing  
Gloria Jennifer Solorzano  
Emilee Claire Sorenson  
Andrew Hance Sorrels  
Dillon Keith Springfield  
John Albert Steele  
Lexi Leigh Swenhaugen³  
Samuel Joseph Tagartia  
Arthur B. Thomas  
Cassandra A. Thompson  
Kathryn Ursin³  
Rachael Anne Vaden³  
Samuel Alejandro Verduco  
Ras Ryan Villanueva  
Iridian L. Villegas  
Ashley Vizziano³  
Erik McKenna Vito³  
Macy Lauren Wade  
Diana Marie Wagner  
Tyler Nicole Lee Wagner  
Brock Dylan Walker  
Donald Raymond Warner  
John Grayson Watson  
Lindsay Ann White  
Dylon Austin Wieland  
Billy L. Wilborn  
Sam H. Wilkins  
Zayne Arik Willems  
Shelby Lynn Winn  
Logan Brady Winstead  
Alyssa Anne Winter  
Bowie Hoecker Wynne  
Shelbi Paige York⁴

MANAGEMENT INFORMATION SYSTEMS

Bryce Alan Blunt  
Elyzza Kay Bobadilla³,⁴  
Sarah Maria Davila  
Christian Bernhard Dreifuerst  
Timothy Richard Durgin³  
Mason Levi Fletcher  
Ian Matthew Gallimore³  
Callie Grace Gilmore³,⁴  
Lauren Noelle Gregory³  
Dillon Martin Hensel  
Jaclyn Alexandra Herman  
Bryan Michael McGaha³  
Zi Long Mei  
Christopher William Merrill  
Emma Grace Merriott¹,⁴  
Lior Nachmias  
Bailey Danae Norman  
Prathamesh Adwait Phadnis  
Nathanial John Possis  
Andrea Marie Ramirez  
Alexandria Nicole Reeves  
Carlos Rico  
Bryce Sterling Shoemaker⁴  
Christopher Taylor Sims  
Christian Alexander Valline  
Ryan Joseph Vasquez

¹Summa Cum Laude  ²Magna Cum Laude  ³Cum Laude  ⁴With Honors  ⁵With Highest Honors
UNDERGRADUATE CANDIDATES

Nitika Verma
Colin Yang
Carter Lane Young
Kallef Yousef

MARKETING
Amy Leann Adams3
Andrew Ryan Alaniz
Karina Lizeth Alfaro
2nd Major: Management
Whitney Danielle Allen
2nd Major: Management
Clayton Lynn Anderson
Kaleb Asher Arguello
2nd Degree: Kinesiology
Edgar Fernando Arias Zepeda
Elizabeth Nicole Barclay
Uleixis Benitez
Mckenna Aleise Bess
2nd Major: Supply Chain Management
Kolton Brent Bishop
Carlee Alexis Bissett
2nd Degree: Agricultural & Applied Economics
Lukas Jonathan Blackman
Merritt Elizabeth Blankenau2
Danielle Madison Bodette1,4
2nd Major: Management
Ryan Matthew Brewster
Morgan Taylor Brymer1,4
2nd Degree: Management
Juan Jesus Cabrales
Joseph Samuel Ortiz Cannata
Joseph William Cantu
Austin Carruthers
Victoria Elyse Celestine3
Megan Elizabeth Childers
Jack Francesco Mario Giampi3
2nd Degree: Public Relations
Jason Scott Clemmer
Roscoe E. Clatt II
2nd Major: Management
Allison Coe
David J. Connelly
2nd Major: Management
Makena L. Cooper
Ashley Roxanne Cowgill
2nd Major: Management
Austin Clay Cullifer
Lauren Elizabeth DeFrancisco
Keely Brooke Ehlers5
Jacob Piatt Emmett
Megan Elizabeth Fritz3
Daniel Fu
2nd Major: Management
Mark Robert Gant
Viviana Garrido Andrade
Katherine Moore Giddings
Michaela Susan Glendening4
2nd Major: Management
Breonna Jae Glespie
Will Garrett Grady3
Josey Nichole Graham
Austin Paul Hardin
Storey Michelle Hauf
Alexander Haymonds4
Sydney Ann Helbert3
Angel Humberto Hernandez
Michael Scott Hess5
Courtney Paige Horton
Maura Lindsey Hunter3
Theodore Joseph Jahn
Tatiana Lauren Jaramillo
Jasmine Simone Johnson3
Arnella Jusupovic5,6
Jobbie King
Leighton Rylee King3
2nd Degree: Retail Management
Cayla Leeann Kinnard2
2nd Major: Management
Ryan Andrew Lackey
MeKelee LaFoy5
Brian Nicholas Lang3
Jessica Jordan Larsen2
Emily Kathryn Leuschner
Chanel Asante Tawaa Lewis-Bonsu
2nd Major: Management
Samuel Scott Lichtenwalter
Christian Darryl Lindberg
2nd Major: Management
Gideon W. Little
Mayra Maldonado
2nd Major: Management
Matthew Anthony Mangus
Ellie Elaine Marlowe
Eric Antonio Marrero
2nd Major: Management
Cheyenne Marzban
2nd Major: Management
Grant Christopher Mason
Elizabeth Diane McDonough3
2nd Major: Management
Taylor James Mckickle
Cole Alan Miller3
2nd Major: Management
Conrad David Mills
Matthew Blain Moore
Caleb Noah Moshon3
McKenna Kate Myers
Anthony Vincent Natoli
2nd Major: Management
Kelly Joyce Neel1
Billy Wayne Newby III
Coltin Tyler Nied
Mariah Yoko Northup7
Lindsay N. Ollivant4
Michael Isaac Ortiz
2nd Major: Management
Shane William Park
2nd Major: Management
Benjamin Caleb Phillips
Emily Marie Phillips
Anne Margaret Pickwoad3
2nd Major: Management
Cameron William Pierce3
2nd Major: Management
Lindsey Ann Pineda
Jacob Wayne Poole3
Taylor Marie Presley
Brock David Purcell
Blair Alyssa Raney3
Cassidy Kay Reynolds
Jenna Rene Richardson4
Matthew Jacob Ridenour
2nd Major: Management
Griffyn Kennedy Ruiz
John Alan Sadler
Tiffany Sheree Satterwhite1
Michael Mahlmeister Scott
2nd Major: Management
Andria Jean Shackelford3
Kunal Kiran Singh
Ethan Louis Smith3
Dylan Brandon Snider
Zachary A. Spangler
2nd Major: Management
Kristen Lea Stratton
Kathleen Isabelle Summers3
2nd Major: Management
Austin Gerhard Syska
Evan James Tomlinson
Aaron Nicholas Villa3
Madeleine Nicole Villarreal
Violet Kathleen Watson1
Emilie Elizabeth Webb
2nd Major: Management
McKaylee Lynn Weishuhn
Jacqueline Kyndall Weisinger3
Catherine Jane West
Thomas Blake White
2nd Major: Management
Taylor Lee Winchester3
Zachary Glenn Wise2
2nd Major: Management
Jessie Marie Witten6,7
2nd Major: Management
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 Friedricks
2nd Major: Information Technology
Elizabeth Ann Genrich3
Jonathan Yordanos Ghebreamlak2
Samuel Feshatsion Ghirmay3
Stephanie Gomez4
Shelby D. Griggs3
McKenna Nicole Heath
Kristina Marie Hickl1
John Anthony Kirkwood2
Mike Ardell MacEwan1,3
Michael Holland Mead
Ricardo Alberto Melendez
Weston Health Owens
Cameron Kristen Quares
Luis O. Reyna II
Blake Alexander Rollen
Colleen Megan Ryan
2nd Major: Finance
Jacob Anthony Schwartz3
Megan Nicole Sealy
Joli D. Smith1
Alexander Reid Torres
Robel Rusom Tsegu
Katelyn Elizabeth Valdron3

MULTIDISCIPLINARY STUDIES
Ryan Arline Achen3
Luis Alvarez, Jr.

BACHELOR OF SCIENCE
MULTIDISCIPLINARY SCIENCE
Ty James Bush3

MULTIDISCIPLINARY STUDIES
Tata Summa Cum Laude
Tata Magna Cum Laude
Tata Cum Laude
Tata With Honors
Tata With Highest Honors
Edward E. Whitacre Jr.  
College of Engineering

BACHELOR OF SCIENCE

CHEMICAL ENGINEERING

Abel Abraham³  
William Nicholas Aegerter³  
Jose Alejandro Aguilar  
Elizabeth Ijeoma Agwale  
Hassan Naeem Akhwand  
Mohammed Alawadhi³  
Haley Lynn Allison³  
Dexter Onyango Aringo³  
Paulin Bokele Bangfo  
Caroline Ashley Bayse  
Bara’a Hani Bizi  
Doriano Andres Bouobda Tchuenkam  
Joshua Edward Bryant  
Nicholas Scott Byerly  
Clay Austin Callan  
Cody Alexander Cameron  
Joe Anthony Carrera, Jr.⁴  
Sarah Louise Carriere  
Sheree Clendening  
Francis Albert Cobbinah⁴  
Justin Michael Davis⁴  
Khoa Dang Do³  
Nicholas Durante³  
Abdel Elzindo  
Jenni L. English³  
Fernando David Fernandez³  
Gabriel Alberto Franco  
Hilario Christopher Garza  
Joseph Anthony Griesel³  

Civil Engineering

Talal Yasser Alothai  
Mckenzie Lee Aubuchon  
Yasser Ahmad Bahameed  
Michael Patrick Barden  
Brenden John Bartels³  
John Brandon Bishop³  
Madison Taylor Braswell³  
Clay Wesley Brownlee³  
Matthew Franklin Burgis  
Trevor Calcic Calvert  
Bryce Kenneth Carlile  
Travis John Christopher  
Blake Anthony Collins³  
Chandler S. Davis  
Steven Christopher Donnelly³  
Mohamad Saoud El Samad  
Robert William Flynn³  
Adam German Frias  
Audrey Alycia Giesler³  
Grayson Z. Glidewell  
Brendon Wayne Gommez  
Daniel Robert Hunter

¹Summa Cum Laude  ²Magna Cum Laude  ³Cum Laude  ⁴With Honors  ⁵With Highest Honors
Miguel Angel Jaimes
Faisal Khalil
Duke Yu Min Kim
William Sansom Klump
Jacob Alexander Lermá
Mckenzie Alyssa Lesnasky
Samuel Joseph Levatio
Mathew Hunt Lusk
Joanna Madrigal
Marcus Don Michalewicz
Blaine Mackenzie Odom
Ryan D. Oldiges
Darrison Gage Orpinel

2nd Degree: Architecture

Kevin C. Oxford
Zeff I. Pena
Thomas William Peppers
Curtis William Peters
Lauren Marcella Priddy
Fernando Ivan Rodriguez Perez
Samantha Dale Pagaran Rubin
Chumtep Sawatdiraksa
Eva Mauri Schexnider
Landon Lee Schulte
Jonathan Lee Shih
Drew Alexander Skweres

2nd Degree: Architecture

Lydia Grace Smith
Austin Thomas Starkey
Joseph Landry Stewart
Daniel Ryan Sweeney
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Derek Karl Troeger
Brendan Alexander Vasquez
Vaishnvi Sudhamaalya V.
Vanessa Vega
Andy Troy Wagner
Kaitlyn Leigh Warmaack
James Edward White
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COMPUTER ENGINEERING

Michael Lee Bates
Kenneth James Cody
Edilmo Gideon Eggah
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Adam Lee Harper
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Braden Thomas Lee
Mark J. Mathews
Zarka Hussain Sabrany McClung
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Weston Leonel Salinas
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Luke R. Silvestre
Joshua Logan Warren
Eric Stephen Wauer

Scott Frederick Blechman
Jonathan James Bouligny
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Payas Chratrath
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Indiana Nathaniel Cooper
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Adriana Mae Holley
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Louis Everett Joseck
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Arsalan Kamaie
Andrew Michael Kennedy
Rajeev Kuikkel
Pradip Lamiala
Mayank Loyalka
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Shambhavi Makeswaran
Reid Andrew Malone
Kevon D. Manahan
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Jacob David Monroe
Cody Vincent Otterbine
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Ruben Perez III
Kien T. Phan
Anusarika Prasai
Luis Daniel Rausseo
Aaron T. Riggs
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Caleb C. Sanchez
Shrey Shrivastava
Darien Andrey Sokolov
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Brett Ian Stapleton
Brandon Richard Stelhing
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Alexander Mekonen Tesfazgi
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David Aaron Turner
Lino Abel Vilgen Gracia
Allie Briana Wallace
Mia Lyn Ward
Joseph M. Wisor
Simon Membere Woldemichael
Asad Yakoob
Fei Zhou
Xingyu Zhou

CONSTRUCTION ENGINEERING

Austen Guy Bailly
Gunnar K. Bishop
Rhett Blane Butler
Diego Dominguez
Ryan Glen Harris
Timothy James Loader
Jay M. Sims
Kenneth J. Williams

ELECTRICAL ENGINEERING

Eskindir A. Abebe
Caleb Robert Braswell
Saul Abram Byers
Ryan A. Clark
Adrian Contreras
Neil Rameshchandra Dahya
Alex Brent Dobberstein
Alan Estrada
Adrian Flores
Shannon Marie Flynn
Nathanial C. Fryar
Kirina Gajadhara
Abigail Warner Gershman
Antonio I. Gil
Connor William Halsey
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Michael Hugh Johnson, Jr.
Nathanael Arthur Johnson
Alparslan Kayar
Elissa I. Lindquist-Sher
Jordan T. Morris
Crystal Dwon Nelson
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Daniel Dean Noile
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Cristian J. Ramirez
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Mina M. Tawfies
Petros B. Tesfom
Cindy I. Tzapin
Robert Villatoro
Haris Bin Zulhilmi Nadesan

ENVIRONMENTAL ENGINEERING

Austin Wade Bird
Ryan Patrick Conner
Jordan Marie Duncan
Valerie Jane Gardner
Berkleigh Reagan Gressett

2nd Major: Petroleum Engineering

Tori Kaylyn Haugvoll
Ghazi James Ibrahim
Lili Kenya Kelley
John Michael Lewchuk
Mihna Kamille Lewis
Kayla Jean Petersen
Diego Y. Ramirez
Eleodoro Silva, Jr.
Katherine Elizabeth Snyder
Sydney Elizabeth Ann Stegint
Ryan Cade Timmons
Maria Celeste Velázquez Ortiz
Sarah Velez
Austin Davis Zamarripa

INDUSTRIAL ENGINEERING

Mina H. Abadeer
Omar Dayem
Cesar Ivan Alonso
Annie Ida Archuleta
Haroon Afzalai Aregbe
Jesslyn Jeanette Armansyah
Hunter Lamar Arvin
John Kade Colley
Matthew Christopher Dierlam
UNDERGRADUATE CANDIDATES

Samuel Nicholas Guarisco
Reagan John Horton
Priscilla Ipiha
Kazi Zahirul Islam
Brystelle Maria Kounahawa Talom
Daniel Forrest Leach
Nadia Daryn Martinez
Emily Michelle Mollenkopf
Ebichi E. Nduka II
Navaphol Ousup
Audrey Anne Pan
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Kenneth Joshua Porter
Niraj Puri
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Zakir Hashain Siddiqui
Travis Hill Stubenrouch
Richie Pegui Tepondjou
Oluchi O. Ukaegbu
Victor Manuel Valdez
Jared Paul Wolfe
Lotus Rain Young
Ahmed Mohamed Younis

MECHANICAL ENGINEERING
Wasseem Abdousalam Aboubaker
Saheed Olautunde Adebayo
Oluwaseun Adegamola Aderieke
Emmanuel O. Adusei
Deborah Somayia Alagwu
Agha Faraz Ali
Bryan Ricardo Alvarez
Ahmed N. Aly
Donaciano Andrade
Zane Antone Andrews
John Adam Aucar
Victor Miguel Avila
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Jibran Butt
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Kerrion D’Jon Campbell
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Princewill Ehiru
Raeid Muhammed Elkhodary
Lauren Brooke Faske
Harrison E. Ferguson
Nathan Joseph Fields
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Kevin Garcia
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Cameron John Gardner
Aashish Gautam
Joseph Robert Gmitter
Benjamin Mason Godinez
Samuel Daniel Godinez
Julio Orlando Gonzalez Rueda
Aaron Jamie Gonzalez
Eric O. Gonzalez
Curtis James Grupe
Garrett Gabriel Gruss
Jeffrey Ryan Guajardo Reyna
Davis Nelson Hall
Mohamed Elbushra Hamza
Adrian Joshua Harvey
Leonard John Horan III
Erica Rae Horning
Jonathan Michael Hoyt
Ryan Moegle Hall
Zachary W. Humphries
Anthony-Moses Ikekogu
Jax D’Dellan Isclaw
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Collin Andrew Jacobs
Sam Harris Jacobs
Ashley Nicole Jensen
Juan Daniel Jimenez-Campos
Cannor Daniel Johnson
Matthew Lynn Johnson II
Kinzee Lee Juergens
Yeomin Jung
Bastian Kasunuran
Ethan Riley Keamey
Steven Michael Kern
Mohamed Tarek Khalil
Shaheer Haider Khan
Shane Willes Knerr
Morgan Lynn Komar
William Allen Krause
Seok Lee
Jacob Connor Leslie
Marcus Jeremy Rozario-Levine
Jesus Martin Lopez
Jose Manuel Lopez
Brittany Michelle Love
Rance Jacob Lowery
Brennan Jae Macklin
David Maldonado
Phillip Gregory Muresh
Brandon John Martinek
Leovan Martinez-Leija
Robert Martinez, Jr.
Jonathan Dylan Mays
Wesley Clark Mazurek
Belgane Mmbomgn
Charles Hayden McIntyre
Joshua Douglas Moore
Shawn Michael Moore
Tanner Blane Morgan
Seth Christian Morton
Tanner Cade Morton
Matias Muller Leano
Taimour Murtaza
Christopher Tyler Musselman
Saul Nevarez
Leigh Ann Nichols
Justin Wayne Norwood
Sidney C. Nseodo
Joshua William O’Hair
Raphael Chisom Ohazurike
Chelsea Jane Olmert
Jesse C. Okoro
Andres Chavez Olivas
Jose Omar Oviedo
Adrian Jose Padron
Kody Daniel Parkhurst-Johnson
Austin Chase Penney
Krzyzstof Radoslaw Polanski
Justin Shane Popinka
Giovanni Pozos
Cohl Thomas Prosiwe
Jamie Lynn Pugh
Andrew Jacob Pullara
Jisel Lupita Ramirez
Thomas Avery Lane Reynolds
Tatum Alexander Rhyne
Curtis Stanley Riley
Joshua Blake Riley
John Michael Robertson
Kal Davis Rogstad
Garrett Louis Rolfe
William Robert Rose
Israel Ruiz
Collin Stuart Schasteen
Travis Michael Schattel
Marcus Greenwood Searle
Austin Tyler Secrist
Jacob Alexander Self
Brian A. Sevin
Syed Nasar Shah
Sohaib Shama
Jai Athiswar B. Singh
Derrick Andrew Slaton
Grayson Scott Smith
Jonathan Clark-Marrouche Smith
Kathryn Ruthanne Smith
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Ryan Wendell Stomp
Christian Chancelor Thomas
Zachary Taylor Trela
Austin Wayne Ulcak
Marissa Lee Vanorsdale
Marco Antonio Velasco
Amando Jose Vigil
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Alexander Paul Vogler
Rio Joquin Wagley
David Andrew Ward
Ty Mitchell Waring
Ranusha Wattegoda
James Marcus Wauson
Chase Darius Westman
Sean D. White
William Joseph Wright
Mingyi Wu
Marcus Jerome Yanello
Lyman Kade York
Casey Ryan Young
Hao Zheng Zhang
PETROLEUM ENGINEERING
Ahmmad Qassim Abu-Hijleh
2nd Major: Mechanical Engineering
Indro Wicaksono Adisoemarta1
2nd Major: Mechanical Engineering
Cesar Armendariz
William Roy Arthur III
Oluwaseyi Balogun
Christian Eduardo Barajas
Benjamin Floyd Bell
Joseph John Black1
Zachary Michael Bolke3
Phuong Duc Bui1
Stephanie Nhat-Huyen Bui
Richard Bryan Cantu
Douglas K. Carriger III1
Shavon Artis Carvin
Alejandro Castillo
Yeong Sheng Chang
Scott Thomas Coleman2
Brandon Jeffrey Cullum
Richard Scott DelPrincipe2
Leonardo Deutsch
Kounandy Mamah Diakite
Kristian Dominguez1
Taylor Holt Eads
Vedaste Gashumba
2nd Major: Mechanical Engineering
Kade Michael Gentry
Grant Evan Goodman1
James Calvert Hawkins
Hunter Gordon Hughes
Shawn Taha Jamal1
Alec James Jasik
Justin Prekebena Jituboh
Yassine Alli Kone
Donovan Larios
Leland Lloyd Looger3
Emily Loudenback
Devin Ray Marion1
Colton Ross Matus
Alasdaire George Mchpail
Nelson David Mejia
Alexander Michael Montgomery2
Gatimbirizo Daniel Mucyo2
Angel Armando Munoz
Reda Ghassan Nourredine
Sandra Maria Abinya Odhiambo
Pedro Javier Ojeda Duran
Trevor Kristian Olson
Abraham O. Olude1
Brahima Piezana Ouattara
Daniel Kwame Yoboah Owusu-Ansah3
Samuel Wayne Parker
Jose Antonio Pena1
Addison Tatsuhiro Pacard
Ronald Henry Propper
Katie Samantha Ramirez1
Jasymnn Marie Reber
Elizabeth Ann Reeder3
Kyla Brianna Daniel
Vincent Dameon Crisp
Ashlee Diane Cox
Kyla Brianna Daniel
Amy M. Faltinek1
Marcus Daniel Gonzalez2,4
Ashley Nicole Hernandez
Darian Alicia Lopez
Erin Jennette Smith1,5
Brady Flores
Neomy Flores
2nd Degree: Biology
Sarah Elizabeth Fowler
Graciela Gallegos
2nd Degree: Biology
Molly Taylor Gilmore1,4
2nd Degree: Spanish
Miranda Celeste Gonzales
Ashley Ann Graas3
Lauran Katharine Harrell
Hannah Louise Harrison
Rahel Tatiya Harrison
Nettie Alexandria Hetzel
Kristina Kalas Hewitt
Sarah Nahid Hooshmand3
Kyla Rose Jenner
Rainey Speed Judd1
Sara Kathleen Kelly

Marti LeAnn Walker
Omar Zeinuddin1
Rosie Amah Zokoh

Ryan Joseph Buck
Jasmine Alyse Chavez
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Courtney Lynn Coker1
Audrey Hayes Dittmar3
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Ryann Alyssa Flack
Katelynn Noel Franklund4
Nicole Elizabeth Guindon
Adrian Gregory Ibanez
Kayla Renee Johnson1
Ivy Noelle Lane
Allison Marie Reinacker
Braxton Rachelle Rutledge
Laura Jean Thomas2

Robert Jacquelyn Bramble
Michaela Marie Bundy1
Mackenzie Dale Clark
Ashlee Diane Cox
Vincent Dameon Crisp
Kyla Brianna Daniel
Amy M. Faltinek1
Marcus Daniel Gonzalez2,4
Ashley Nicole Hernandez
Darian Alicia Lopez
Erin Jennette Smith1,5
Brady Flores
Neomy Flores
2nd Degree: Biology
Sarah Elizabeth Fowler
Graciela Gallegos
2nd Degree: Biology
Molly Taylor Gilmore1,4
2nd Degree: Spanish
Miranda Celeste Gonzales
Ashley Ann Graas3
Lauran Katharine Harrell
Hannah Louise Harrison
Rahel Tatiya Harrison
Nettie Alexandria Hetzel
Kristina Kalas Hewitt
Sarah Nahid Hooshmand3
Kyla Rose Jenner
Rainey Speed Judd1
Sara Kathleen Kelly
MAY 2019

UNDERGRADUATE CANDIDATES

Kareem Alphonse Fray
Mary Elizabeth Franklin
Mashakil Ahmed Fazlul
Madison Rachel Frazee
Madeline Marie French
Natalie Grace Freeman
Nanfa Furaha Frey
Nicole Elizabeth Fries
Olivia Elizabeth Frost
Phoebe Grace Fuentes
Reagan Rae Fugate
Samantha Marie Funk
Stephanie Ann Funk
Tiffany Joy Funk
Yamasaki Nan "Wendy" Fukuda

MACHINERY AND MANUFACTURING

Shakira Lynn Falcon

Mental Health Counseling

Lindsay Renee Lambert

Nursing

Cynthia DeAnda
Bradley Scott Davis
Molly Kristiann Davila
Chloe Darko
Molly Kristiann Davila
Bradley Scott Davis
Cynthia DeAnda

NURSING

Michael Alton Ammons
Kathryn Blanks
Sofia Margaret Davis
Jameson Lentz Dowell
Sarah Michelle Dowor
Blayne Elizabeth Denner
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Belisha Juanita Gibson
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Abigail Susan Jackie
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Amanda Vanida Khanan
Colette Laura Kittel
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Michael Anthony Lawler
Megan Celeste Lively
Mark Jeffery McCool
Lauren Elizabeth Munna
Caitlyn Mullins

2nd Major: Nutritional Sciences & Dietetics
Annastacia Marie Massina
Robin Ezine Opara
Hannah Elizabeth Ovela
Kara Frances Perez
Dina Hisham Ramadan
Lauren Darlene Reyes
Amber Elizabeth Scarborough
Hailee Raelyn Shohey
Shana Thomas
Kolin Grant Waldrop

NUTRITIONAL SCIENCES
AND DIETETICS

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Zakhia Nikoili Carroll
Stephani Renee Clevenger
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Mia Alexandria Corkill
Ashlan Danielle Farmer
Kennedy Richard Thomas Harris
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Ryan Edward McElfresh
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Jada LeAnn Rankin
Anna Sophia Salazar
Amelia Grace Soria
Hannah Mae Thomas
Madeline Grace Trapp
McKenna Hope Watkins
Katharine Marie Westfield
Baiyu Zhao

PERSONAL FINANCIAL PLANNING

Sarah Michelle Cogan
Kaylee Zhyade-Marie Hardy
Mickey Blane Heflin
Nicolas Hernandez
David Michael Hughes
Kelechi Ibe
Hookyung Kim
Cameron Martinez
Vitor Castro Rocha
Anthony Charles Strain

HUMAN SCIENCES

Daniel Kwadwo Acheampong
Ifelouwa Mercy Babatunde
Kortlahn Anais Ballard
Sierra Elizabeth Bassett
Madison Leigh Brandes
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Mohammed Gamaaleidin Fawzi
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Sabrina Esperanza Garcia
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Maricela Martinez Geck
Jane Kathryn Gehrig
Olivia Gabrielle Gennarelli
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Stephanie Janea Guerrero
Amber Anne Harth
Austin David Hernandez
Kirstin Megan Hood
Ashlyn Breanna Hunter
Carter Leigh Janes
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Xavier Dominique Jones
Amber Elizabeth Juarez
Peyton Poornom Kieslich
Taylor Alysse Kiker
Lindsey LaFave
Christi Denise Linder
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Taylor Kate Martinez
Caroline Mya Mitchell
Macy Michelle Moseley
Erica Brooke Muse
Cayla Von Napper
Samantha O’Brien
Samantha Rae Ochoa
Tarean Elizabeth Odom
Deborah Leigh Olmos
Rachel Michelle Overman

2nd Degree: Management

Gage Paulk
Jacqueline Virginia Perez
Hailey Madison Poehls
Angela Crabtree Pozника
Sylvia Rangel
Andrew Mark Rios
Makenzie Noelle Rubin
Alexis Socheata Sa
Maci Marie Sanders
Brooke Janae Sanguinetti
Clair Marie Shaffer
Shariif Abdiiaziz Sharif
Rebecca Paige Sheehy
Cara Caitlyn Shoemaker
Jordan Lynne Stafford
Marshall Wayne Sweden
Jason Keith Taylor
Donna Shamon Thompson
Alejandro Torresdey
Kaitlynn Elizabeth Tucker
Sydney Louise Vanderpool
Luis Benjamin Rodriguez Vasquez
Kristina Marie Villareal
Erika Danielle Wallace
Joseph Walton IV
Kristin Ashley Ward
Alyssa Lael Watson
Amanda Jordan Wiggs
Lauren Elizabeth Young

HUMAN SCIENCES

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<table>
<thead>
<tr>
<th>Name</th>
<th>Major</th>
</tr>
</thead>
<tbody>
<tr>
<td>Madison Rose Alanis</td>
<td>Communication Studies</td>
</tr>
<tr>
<td>Peyton Elizabeth Villanueva</td>
<td>Communication Studies</td>
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<tr>
<td>A'Lara Kaye Smith</td>
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<td>Astrid Wallis Schuelke</td>
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<tr>
<td>Paola Rojas Perez</td>
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<td>Communication Studies</td>
</tr>
<tr>
<td>Peyton Elizabeth Villanueva</td>
<td>Communication Studies</td>
</tr>
</tbody>
</table>

**COMMUNICATION STUDIES**

- Thomas Matthew Althoff
- Aubrey Renee Ard
- Tyler Phoenix Ayotte
- Ryan D. Behrends
- James William Bowers
- Sydney Elaine Brammer
- William Arren Broussard
- Ashley Anastasia Bueno
- Jonathon Marcus Castillo
- Catelynn Justine Cave
- Rebecca Marie Chapman
- Kyndal Nicole Cowan
- Erin LaTrice DeGrate
- Maria Judith DeMarco
- Olivia L'heu Donelson
- Erin Nicole Eggleston
- Madison McKenzie Ellis
- Kailee Elizabeth Farace
- Chase William Fehr
- Tanner Ray Ford
- Zeer Shalom Foster
- Emily Katherine Frank
- Jordan Alyssse Frierson
- Dubelza Galvan
- Eric Rene Garza
- Rebecca Lynne Gombac
- Henry Robert Granda
- William Leslie Harper
- Lenore Madison Hernandez
- Shelby Dean Johnston
- Kyle Bradley Jones
- Logan Neal Kelley
- Chloe Brook Killebrew
- Caleb Kriebbaun
- Blake Anthony LaGrassa
- Lilybeth Leyva

**COMMUNICATION STUDIES**

- 2nd Degree: Psychology
- Oscar Adrian Medina
- Meagan Alice Messina
- Mallory Kathleen Moynihan
- Sara Ansley Northington
- Scarlett McKenna Pearson
- Aimee Lee Pedraza
- Madison Nicole Petry
- Bryan Rangel
- Bryanna Marie Reese
- Britanny Machel Rodriguez
- Kendrick Delon Sheffield
- Savannah Jean Shelby
- Janice R. Sides
- Macy Jo Swiggin
- Colton King Stewart
- Taylor Rene Stewart
- Austin Mitchell Strange
- Kelley Rae Thomas
- Ariele Rene`e Urias
- Erin Elizabeth Wallney
- Chelsey Marie Weems
- Bethany Kay White
- Caroline LeeAnn Whittenburg
- Sarah Elizabeth Wood
- Trenton Jordan Woodard
- Callie Leigh Wynn
- Kaylee DeAnne Zachry

**COMMUNICATION STUDIES**

- Sydney Denise Hatfield

**COMMUNICATION STUDIES**

- Carlos Arevalo
- Robert Mason Bartke
- Armando Baylon
- Trevor Dakota Blass
- Alexa Marybeth Boutwell
- Weston Kerr Brooks
- Abigail Katherine Capps
- Elizabeth Ann Cockrell
- Cameron Alistair Dawson
- Christian A. Dominguez
- Sergio Eduardo Estala
- Anthony A. Estolano
- Jonathan M. Gibson
- Jacob Daniel Gurley
- Kate Elizabeth Halloran
- Jordan R. Hernandez
- Elizabeth Paige Hertel
- Manuel Higareda
- Tiffany Paige Hodges
MAY 2019

UNDERGRADUATE CANDIDATES

Ryan Matthew Humphries
Victoria Jane Johnson
Kassidi N. Jones
Laura Grace Knight
Joshua A. Lara
Annika Leigh Larson
Theodore Trinidad Leos
Emerson Lindley
William Jacob Lopez
Shane Douglas Lum
Sergio Isaiah Madrid1
Sam Casford Malone
Felicity Maro Maltby
Patricia Martinez
Justin L. Maxie
Samuel Carson Medlin
William Garrett Medlin
Raven Isabella Nelson1,4
Chase Nicholas Nogle
Alozie Chinedum Nwachukwu, Jr.
Sofia Olvera1
Gabrielle Elise Puente3
Andrea Rachel Rankine3
Morgan Renee Reed
Caleb Wayne Riley
Rebekah A. Rudd
Gregory Dane Sandercocx
Zachary John Schroeder
Kirsten N. Smith
Derrick Mark Spencer
Aaron Chase Spivey
Connor G. Stewart
Madisen Renee Stubbs
Kayla Rose Thrasher1
Annie Elizabeth Walker
Michael G. Westrope

JOURNALISM
Alexis Christine Atkinson
Kayla Elizabeth Black
Audra Alin Brigham
Matthew Danilo Cardenas
David Olson Gay3
Natassia Sheridan Henry
Caroline Rose Huey1
Aundrea Brianne Jackson1
Samantha Anne Jarpe
Ali Reed Kneisel1
David Alejandro Lucero2
Jay Michael McCully
Tori McGee
Nydia Raylene Natividad2
Mary Hana Onishi1,4
Lyndsey Nicole Privett3
Joshua Oscar Garcia Ramirez
Zuriel Ulanda Sanders
Gabrielle Raymond Taite
Tyler Coleman Tyre
Oscar Guillermo Vielma

BACHELOR OF ARTS

PUBLIC RELATIONS
Chandler Ross Anderson
Eloy Armendariz2
Alyssa Monique Armentrout
Alexis Grace Austin
Hannah Bailey Ayers3
Chase Thomas Bailey
Constanza Basurto
Bailey Kay Been1,4
Brooke An Biermeier
Tatum Cate Cagle1
Kimberly Self Christy2
Jack Francesco Mario Ciampi3
2nd Degree: Marketing
Steven James Collins
Sarah Elizabeth Cumming
Seth Edward DeRuitter
Emily Jen Dirks3
Kristyn Tyra Edwards
Osamagbe Miracle Ehioghe
Andrew Scott Eldredge
Avery Sue Elliott2
Margaret Mary Figenshaw
Elizabeth Theresa Fleishman
Nicole Deneice Fleming1
Brendan Curtis Fox
Ashton Faith Gaconnier
Kathryn Mary-Margaret Galbraith
Pamela Marie Gandy2
Jordan M. Gilchrist
Mikaela Ray Gonzales
Sal Anthony Gonzalez
Lauren LAnn Henderson2
Abby Elizabet Herring1
Kelsey Michelle Holt2
2nd Major: Advertising
Erin Ashley Hopkins3
Cailyn Hosnner
Jason Bruce Johnson
Travis Alan Johnson
Hunter Alayna Johnston
Joshua Call Jones
Brenna Ann Juhnke
Sarah Kim Kielyt
Madeleine Jean King
Lauren Avery Kriss1,5
Ryan Daniel Lachmann
Cesar Augusto Lopez
Karlye Jo Loughman
Keely Jaye Maddux
Noah Francis Mallindine
Carly Michelle Manning1
Nicole Michelle Marquis
Morgan Eileen Martell1
Adrian D. Martin

MEDIA STRATEGIES
Stephanie Sarah Antone
Ronnie Garrett Barrow
Elise Hope Bressler
Anthony Patrick Capra
Ryan Christopher Castilleja
Grayson Cole Duyck
Ellie Mikayla Ebanks
2nd Major: Communication Studies
Catherine Fernandez
Johnathan R. Garcia
Hope Katherine Colleen Henderson3

1Summa Cum Laude 2Magna Cum Laude 3Cum Laude 4With Honors 5With Highest Honors

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 Beliew
London Mackenzie Bradley
Brandon Dale Brooks
Samantha Burns3
Courtland Quinn Carter
McLane Rollen Carter
Breanna Castille
Derrick Christian Caudillo3
Anthony A. Chavez2
Marvin Anthony Clayborne
Carrie Jean Coates2
Carly A. Cox
Lauren Ashley Diah
Genavie Dezahrai Enriquez
Sean J. Flinchbaugh

TEXAS TECH UNIVERSITY Programs

MAY 2019 41
Bianca Alexandra Flotte
Amanda Reneé Gonzales
Sara Danielle Gonzales
Jessica Gonzalez
Barbara Ann Goss
Kayln Joann Gunter
Kendall Michelle Hadawi
Darvin Demonte Ham
Jessica Yanan Hao
Kristen Victoria Hayes
Tyler Ryan Heath
Avery Jackson Holmes
Marah M. Huart
Brittani Nicole Kling
Christopher Travis Koger
Megan Leigh Marks
Brandi LeaAnn McDonald-Coulston
Elia Montanez
Ryan Durham Morgan
Michael Brandon Mullins
Lauren Elaine Oswalt
John Angus Owens
Maria Cristina Owens
Jonathan James Pacheco
Lily Rayn Perez
Allegh Nicole Perry
Christopher Allan Pistorius
Daniel John Rentie
Dominique Sanchez
Phillip Edward Sinclair
Torrance Deon Slaughter
Jamie Smith
Carissa Marie Staats
Amanda Jill Stoltz
Hagen Joseph Stoute
Angela Nicole Thompson
Alexandra Danielle Watts
Joshua Jamal Wilkerson
Chen Zhang

Timothy Taylor Cantu Johnson
Spencer Erik Johnston
Jeremy Scott Lewis
Zachary Taylor Lindsey
Cedric Christopher Macklin
Thomas Dean Manning
Jared Thomas Mellinger
Jack Ryan Mullen
Austin David Murray
Ellen Brady Ojeda
Aldo Pierre Salazar
Leslie Allin Salazar
Erik Joshua Sandoval
Israel Silva
Jacob Thomas Toone
Cristian Gilbert Valerio
Ryan Matthew Veith
Ian Edward Watkins
Ryan Charles Wright
Rachel Elizabeth Quan Cook
Andrew Wesley Creacy
Hayley Diane Crowder
Sarah Sawamuru Daly
Madeline Nicole Davis
Taylor Maria Duffy
Christopher Duran
Savanna Alecia Escobar
Yinting Fan
Molly Joy Farrell
Melanie Arlene Gamble
Julia Grace Gordon
Jasmine Michelle Henderson
McKenna Mary Henderson
Christopher Hernandez
Mason Elizabeth Huckabee
Brooke Renee Hughes
Larae Jean Hurley
Rylee Meghan Jones
Conner Chase Kaso
Lisa Diann Lacy
Morgen James Macke
Bailey Jaclyn Manning
Amanda Norris Martinez
Alison Nicole McPherson
David Ochoa
Heather Marie Polk
Amanda Addie Prohaska
Kathia Evelin Ramirez
Andrew Robert Reyes
Brittany McKenley Roberts
Natayio Santiago
Maritza Katriel Seidl-Perez
Joseph Ryan Stoval
Rachel Elizabeth Wilson
Matthew Joseph Cubillos
Alec Adam Gallardo
Heather Lynn Harris
Rebekah Ann Holt
Stefanie Gabrielle Infante-Steeley
Jacob Patrick Medina
Ray Edward Patterson

J.T. & Margaret Talkington
College of Visual & Performing Arts

BACHELOR OF ARTS

ART
Ashley D’Ann Barrett
Sarah Michelle Sustrick

DANCE
Sulma Estrella Lovo Benitez
Celeste Mar Delgado
Hannah Noel Haessler
Sidney Alyssa Loftin
Courtney Carroll Rickel
Tiara Chanise Scarlett
Juliet Sadie Wallace
Hailey Breana West

MUSIC
Lucas David Ariaz
2nd Degree: Physics
Caleb Song-Hwa Chong
Alexander Henrik Helligberg
Jordan Kollyn Kirksey
2nd Degree: Economics

THEATRE ARTS
Madison McKay Davis
Zachery Allen Ell
Jordan Ayrton Gargiulo
Collyn Neal Glaspie
McKenzie Pearce
2nd Degree: Mathematics
Emmeelee RoseMarie Schooler
Kalyen Rebecca Villalon
Kylie Nicole Zweifel

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
Travis Alan Boyd
Mallory Marin Brown
Ryan Matthew Buchanan
Jacob Matthew Bush
Joshua Lee Coltharp
Noah Mitchell Davis
Rocky Lyle De Hoyos
Shawn Tyler Deguire
William Cullen Eastland
Landon Shane Edwards
Cristian Estrella
Chase William Robert Garrett
Sterling Lee Hanssz
William Jacob Hoover

BACHELOR OF FINE ARTS

ART
Jordan Elizabeth Adamo
Sabrina Elise Aitken
Dean Arbov
Shane Diuk Athulathmudali
Norma Judith Bautista
Cecil Carden
Marisa Monique Casillas
Juliana Dionicia Chavez

BACHELOR OF INTERDISCIPLINARY ARTS

Brittany Erin Bell
Heather Sara Curtis
Iván Santiago Bravo

BACHELOR OF MUSIC

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

1Summa Cum Laude 2Magna Cum Laude 3Cum Laude 4With Honors 5With Highest Honors
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

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 Slutton  
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

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

The Faculty Banner displays the university colors, red with black, and features the university seal encircled by the words “Seal of Texas Tech University.” The seal was designed by William Ward Watkin, the original campus master planner, in 1924. The shield is a black escutcheon quartered by a red cross, on which are arrayed 10 cotton bolls, symbolic of the importance of cotton to West Texas and representing Lubbock County and the nine surrounding cotton-producing counties. These symbols also reflect one of the original missions of Texas Technological College: “To provide students with a thorough education in textiles and technical engineering.” The shield features emblems that evoke the university, community, state and nation. In the upper-left quadrant, a book symbolizes religion and academic traditions. A star in the upper-right corner stands for the Lone Star State of Texas. In the lower left a key represents home, and in the lower right the lamp of knowledge indicates the primary mission of Texas Tech University: “To develop and advance knowledge.” Above the shield, an eagle, the national bird of the United States, spreads its wings. Mindful of the claims of all these constituencies, the faculty of the university create, transmit, and preserve knowledge.

The College of Agricultural Sciences & Natural Resources was one of the four founding schools of the university in 1924. The college banner was redesigned for use in the May 2005 graduation. Dr. Marvin Cepica, former dean of the college, developed the design with approval and input from the College Marketing Committee. The background color, maize, was established by the Intercollegiate Code to represent the agricultural disciplines. The design, with a map of the continent of North America, reflects the global scope of modern agriculture and natural resources management.

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

The blue background color of the College of Education banner reflects the light blue color designated for education by the Intercollegiate Code and is also seen in the velvet border of education master’s and doctoral hoods and doctoral gowns. The upper area of the banner carries a school building encircled by the words “College of Education” and “Scholarship, Leadership, Service” to represent the primary roles of the college as a unit dedicated to preparing teachers and furthering educational scholarship, leadership, and service. The Double T logo appears at the bottom of the banner.

The Jerry S. Rawls College of Business Administration banner was designed through a collaborative effort of the staff in the college’s Undergraduate Services Center. The background color of the banner is drab. The central image on the banner is a map of the world centered on Lubbock with the Texas Tech University Double T symbol rising from a focal point in the South Plains. The banner symbolizes the impact of globalization in the modern business environment.

The College of Arts & Sciences banner was redesigned in 2014 by Randy Lacy, unit coordinator in the college. Crafted with classical typography and bold lines, the banner replaces the previous college seal with the famous Double T logo. The red and black colors appropriately represent the largest and most diverse college in the university.

The Graduate School banner is blue. Imposed on this background is a white circle within a light blue one. These circles contain the image of a golden open book and a burning lamp. The open book symbolizes knowledge and the lamp represents a light by which to study. The banner was designed by the late Associate Dean Thomas Langford and Ms. Beth Cain, who was a Graduate School staff member and artist for many years.
The banner of the Edward E. Whitacre, Jr. College of Engineering features the seal of the college set on a field of orange, the academic color for engineering. The seal of the college, inspired by a 2009 design by chemical engineering student Unwana Essien, is encircled with a border of red, white, and black, symbolizing the spirit of Texas Tech University and the Red Raiders. The two stars represent the ethical duty of engineers to themselves and society. The four symbols in the center of the seal stand for the foundations of engineering: • The light bulb, surrounded by a ribbon and questions, represents the inspiration of engineers to answer questions and solve problems. • The square and globe represent the engineer’s work as building blocks for the world. • The hammer and screwdriver represent the practical application of the engineer’s work. • The atomic figure surrounding the beaker represents the confluence of math, science, and technology in the mind of the engineer.

The Honors College banner features a sky blue field onto which is placed a silhouette of one of the Administration Building bell towers in dark blue. Superimposed on the silhouette is the Honors College emblem in gold: an open book that transforms into a bird taking flight. This symbol represents how learning stimulates human creativity. At the bottom of the banner are the words in gold: “University Honors College.”

The College of Human Sciences banner was redesigned in 2016 and adapted from an original design by former faculty member Dr. Ben Goh. The design depicts an adult, an adolescent, and a child. The diversity of faces and ages represents the families and communities served by the college in its mission to improve and enhance human lives through teaching, research, and outreach. The image of the globe represents the goal of not only serving the lives of those in the local community, but also connecting with the global community.

The College of Media & Communication banner illustrates waves of information emanating from a single point—one voice heard by many. The banner is white with a crimson background framing waves of information reaching the public. Crimson is the color assigned by the Intercollegiate Code to journalism, the common core subject area of the college. The white field represents honesty, decency, and purity. Beneath the crimson field 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.
Wearing academic dress at commencement ceremonies dates from the early history of the oldest universities created during the twelfth and thirteenth centuries. Because educated people were almost always of the clergy, the black gown is an adaptation of the “cope,” a long mantle or cloak of silk or other cloth worn by church dignitaries in processions and on other occasions. The long gown and cowl (similar to the academic hood of today) were worn by priests and monks for warmth in the cold medieval buildings.

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

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

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

For example, those who have received advanced degrees from Texas Tech University wear hoods lined with red and black. The Oxford—the so-called mortarboard—is black and has a long tassel fastened to the center. The tassel is usually worn with the pendant over the left front of the cap. Different colored tassels are often worn on the bachelor’s and master’s caps to indicate the type of degree. The tassel on the cap of the doctoral candidate, except for professional degrees, is either gold or black. The doctoral degree holders may also wear the velvet tam with a gold tassel.

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

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

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

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

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

HONOR CORDS / MEDALLION

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

<table>
<thead>
<tr>
<th>College</th>
<th>Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agricultural Sciences &amp; Natural Resources</td>
<td>Green</td>
</tr>
<tr>
<td>Architecture</td>
<td>White and Gold</td>
</tr>
<tr>
<td>Arts &amp; Sciences</td>
<td>Royal Blue</td>
</tr>
<tr>
<td>Business Administration</td>
<td>Royal Blue and Gold</td>
</tr>
<tr>
<td>Education</td>
<td>Jade Green and Violet</td>
</tr>
<tr>
<td>Engineering</td>
<td>Orange</td>
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<td>Honors</td>
<td>Honors Medallion</td>
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<tr>
<td>Human Sciences</td>
<td>Maroon</td>
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<tr>
<td>Media &amp; Communication</td>
<td>Crimson</td>
</tr>
<tr>
<td>University Programs</td>
<td>Red</td>
</tr>
<tr>
<td>Visual &amp; Performing Arts</td>
<td>Brown</td>
</tr>
<tr>
<td>Wind Energy</td>
<td>Blue and Green</td>
</tr>
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</table>

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

TEXAS TECH COMMENCEMENT ANNOUNCEMENTS

GRADUATE PHOTOGRAPHS

A professional photographer will be taking photos of graduates as they receive their diplomas. You may view and order photos online at www.candidcolorphotography.com. 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.
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.