

Commencement

SUMMER 2020

Lubbock, Texas

August 8, 2020





TEXAS TECH UNIVERSITY®

SUMMER 2020

Commencement

Saturday, August 8, 2020

| 9:30 a.m. Lubbock, Texas

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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*

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

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*Vice President for Administration & Finance,
Chief Financial Officer*

CAROL SUMNER, Ed.D.

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

BYRON KENNEDY

Vice President for University Advancement

JOSEPH HEPPERT, Ph.D.

*Vice President for Research and Innovation;
Professor of Chemistry*

JAMIE HANSARD

Vice President for Enrollment Management

TEXAS TECH UNIVERSITY SYSTEM CHANCELLOR / BOARD OF REGENTS

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*Chancellor,
Texas Tech University System*

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MS. BROOKE WALTERSCHEID

Muenster, Texas

ACADEMIC OFFICERS

MARK SHERIDAN, Ph.D.

*Vice Provost for Graduate and
Postdoctoral Affairs;
Dean, Graduate School;
Professor of Biology*

W. BRENT LINDQUIST, Ph.D.

*Dean, College of Arts & Sciences;
Professor of Mathematics*

TIM DODD, Ph.D.

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

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*Dean, School of Law;
Professor of Law*

MARGARET L. WILLIAMS, Ph.D.
*Dean, Jerry S. Rawls College of
Business Administration; Professor of Management*

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

WILLIAM F. BROWN, Ph.D.

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

JESSE PEREZ MENDEZ, Ph.D.

*Dean, College of Education
Professor of Education*

NOEL ZAHLER, D.M.A.

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

JIM WILLIAMSON, M.Arch.

*Dean, College of Architecture;
Professor of Architecture*

AL SACCO, JR., Ph.D.

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

EARNSTEIN DUKES, M.L.S.

Dean of Libraries

MICHAEL SAN FRANCISCO, Ph.D.

*Dean, Honors College;
Professor of Biology*

PATRICK C. HUGHES, Ph.D.
*Vice Provost, University Programs and Student
Success; Professor of Communication Studies*

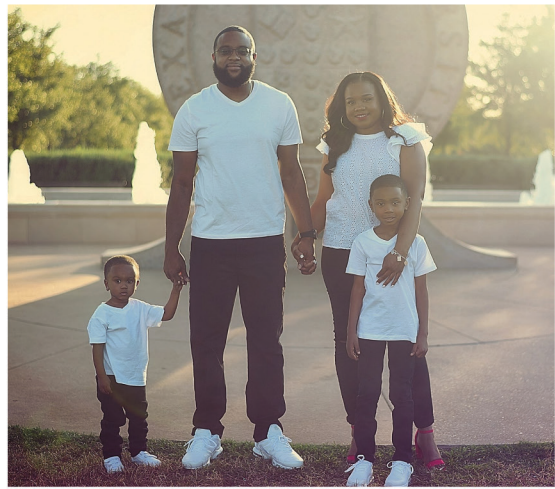
FROM ITS VERY BEGINNING the Texas Tech University community has had a sense of destiny and an awareness of the impact it could and would have on Texas and the wider world. Originally named Texas Technological College, Texas Tech opened in 1925 with six buildings, four schools (Agriculture, Engineering, 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.

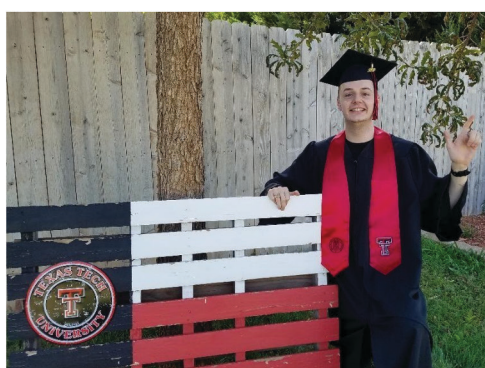
Today, Texas Tech continues to thrive, with more than 38,000 students enrolled in its 11 colleges: Agricultural Sciences & Natural Resources, Architecture, Arts & Sciences, Jerry S. Rawls College of Business Administration, Education, Edward E. Whitacre, Jr. College of Engineering, Honors College, Human 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.

UNIVERSITY-WIDE COMMENCEMENT CEREMONY

Saturday, August 8, 2020

9:30 a.m.

Presiding	Dr. Lawrence Schovanec <i>President, Texas Tech University</i>
National Anthem	2019-2020 University Choir
Welcoming Remarks	Dr. Tedd L. Mitchell <i>Chancellor, Texas Tech University System</i> Mr. Christopher M. Huckabee <i>Board of Regents, Texas Tech University System</i>
Introduction of Commencement Speaker	Dr. Lawrence Schovanec
Commencement Address	Ms. Ginger Kerrick <i>Deputy Director of the Exploration Integration and Sciences Directorate at NASA, Johnson Space Center</i>
Student Speakers	Mr. Armando Velazquez <i>Graduating with a Doctorate in Environmental Toxicology</i> Ms. Rachel Givens <i>Graduating with a Bachelor of Science in Psychology</i>
Conferring of Degrees	Dr. Lawrence Schovanec Dr. Michael Galyean <i>Provost and Senior Vice President</i>
Presentation of Degree Candidates	Dr. Mark Sheridan <i>Vice Provost for Graduate and Postdoctoral Affairs; Dean, Graduate School</i> Dr. William Brown, <i>Dean, College of Agricultural Sciences & Natural Resources</i> Prof. Jim Williamson, <i>Dean, College of Architecture</i> Dr. Brent Lindquist, <i>Dean, College of Arts & Sciences</i> Dr. Margaret Williams, <i>Dean, Jerry S. Rawls College of Business Administration</i> Dr. Jesse Perez Mendez <i>Dean, College of Education</i> Dr. Al Sacco, Jr., <i>Dean, Edward E. Whitacre, Jr. College of Engineering</i> Dr. Michael San Francisco, <i>Dean, Honors College</i> Dr. Tim Dodd <i>Dean, College of Human Sciences</i> Dr. David Perlmutter, <i>Dean, College of Media & Communication</i> Dr. Noel Zahler, <i>Dean, J.T. & Margaret Talkington College of Visual & Performing Arts</i> Dr. Patrick Hughes, <i>Vice Provost for University Programs and Student Success</i> (presenting University Studies and Wind Energy degrees)
Recognition of Outstanding Students Class of 2020	Dr. Michael Galyean
Charge to the Graduates	Dr. Lawrence Schovanec
Alma Mater (Words on Back Cover)	2019-2020 University Choir
Closing of Ceremony	

INDIVIDUAL COLLEGE CEREMONIES SPEAKERS AND MESSAGES

Saturday, August 8, 2020
9:30 a.m.

Welcoming Remarks

Dr. Tedd L. Mitchell
Chancellor, Texas Tech University System
Mr. Christopher M. Huckabee
Board of Regents, Texas Tech University System

Commencement Address

Ms. Ginger Kerrick
*Deputy Director of the Exploration Integration and Sciences Directorate at NASA,
Johnson Space Center*

Dean Message to Graduates

Dr. William Brown, *Dean, College of Agricultural Sciences & Natural Resources*
Prof. Jim Williamson, *Dean, College of Architecture*
Dr. Brent Lindquist, *Dean, College of Arts & Sciences*
Dr. Margaret Williams, *Dean, Jerry S. Rawls College of Business Administration*
Dr. Jesse Perez Mendez *Dean, College of Education*
Dr. Al Sacco, Jr., *Dean, Edward E. Whitacre, Jr. College of Engineering*
Dr. Mark Sheridan *Vice Provost for Graduate and Postdoctoral Affairs;
Dean, Graduate School*
Dr. Michael San Francisco, *Dean, Honors College*
Dr. Tim Dodd *Dean, College of Human Sciences*
Dr. David Perlmutter, *Dean, College of Media & Communication*
Dr. Patrick Hughes, *Vice Provost for University Programs and Student Success*
(presenting University Studies and Wind Energy degrees)
Dr. Noel Zahler, *Dean, J.T. & Margaret Talkington College of Visual & Performing Arts*

Faculty/Staff/Alumni
Message to Graduates

College of Agricultural Sciences & Natural Resources
College of Architecture
College of Arts & Sciences
Jerry S. Rawls College of Business Administration
College of Education
Edward E. Whitacre, Jr. College of Engineering
Graduate School
Honors College
College of Human Sciences
College of Media & Communication
University Programs and Student Success
J.T. & Margaret Talkington College of Visual & Performing Arts

INDIVIDUAL COLLEGE STUDENT SPEAKERS

College of Agricultural Sciences & Natural Resources	Hagan Wright <i>Bachelor of Science, Natural Resources Management</i>
College of Architecture	Hannah Soenksen <i>Bachelor of Science, Architecture</i>
College of Arts & Sciences	Rachel Givens <i>Bachelor of Science, Psychology</i> Marta Wojtkowskis <i>Bachelor of Science, Biology</i>
Jerry S. Rawls College of Business Administration	Olasubomi Adewumi <i>Bachelor of Business Administration, Energy Commerce</i>
College of Education	Emily Beam <i>Bachelor of Science, Education</i>
Edward E. Whitacre, Jr. College of Engineering	Kennedy Reyes <i>Bachelor of Science/Master of Science, Environmental Engineering</i>
Graduate School	Armando Velazquez <i>Doctorate, Environmental Toxicology</i>
Honors College	Hafsa Zuberi <i>Bachelor of General Studies</i>
College of Human Sciences	Tezarea Derry <i>Bachelor of Science, Nutrition</i>
College of Media & Communication	Micah Palomo <i>Bachelor of Arts, Public Relations</i>
J.T. & Margaret Talkington College of Visual & Performing Arts	Breanna Velasquez <i>Bachelor of Fine Arts, Art</i>
University Programs and Student Success	Kevin Mosher <i>Bachelor of Science, Wind Energy</i>



Ms. Ginger Kerrick of Webster, Texas, was appointed by Gov. Greg Abbott to the Board of Regents of the Texas Tech University System on March 6, 2019. She currently serves as a member on the Academic, Clinical and Student Affairs Committee and the Audit Committee. Her term expires on Jan. 31, 2025.

Kerrick is the Deputy Director of the Exploration Integration and Sciences Directorate at NASA, Johnson Space Center.

She began working for NASA as a summer intern in 1991 and started her first permanent assignment at Johnson Space Center in May of 1994 as a Materials Research Engineer. In 1995, she was reassigned to the Mission Operations Directorate as an instructor for the International Space Station (ISS) Environmental and Life Support System. Her responsibilities include training development, simulator development and training conduct for both crew and flight controllers.

Kerrick served as NASA's first Russian Training Integration instructor in 1997 providing support to the first crew that would live onboard on the ISS. In 2001 she was selected as the first non-astronaut Capcom (short for Capsule Communicator), the

person in Mission Control that speaks to the on-orbit crew. Later, in February of 2005, she was selected as a Flight Director. This selection made her the first female Hispanic Flight Director in the history of NASA.

She is a member of the Society of Women Engineers, volunteer coordinator for Triumphant Tails, Inc. and serves as the emcee for the annual Galveston Polar Plunge benefitting Special Olympics.

Kerrick was recognized by the Texas Governor's Commission for Women for her outstanding leadership and dedicated service to the nation's space program, as well as her commitment to inspire others through giving back to her community.

In 2006, Kerrick was one of five women named to the Texas Women's Hall of Fame. She was named a distinguished alumna by Texas Tech University in 2004, and she also was recognized as a distinguished alumna in 2012 by the Texas Tech Alumni Association.

Kerrick was a two-year member (2014-15) of the Board of Directors for the Texas Tech Alumni Association serving on the Scholarship, Chapter Development and Academic Recruitment Committees. In 2015, Kerrick taught in the STEM Master of Business Administration program at Texas Tech University's Rawls College of Business Administration.

Kerrick received a Bachelor of Science in physics in 1991 and a Master of Science in physics in 1993 from Texas Tech University. She was born and raised in El Paso, Texas.



Armando Elizalde Velazquez is an international student from Mexico graduating with a Ph.D. in Environmental Toxicology.

He was a recipient of a Helen de Vitt Jones Graduate Fellowship and a Good Neighbor Mexican American Scholarship.

Along his career at Texas Tech, Armando served in leadership positions at the Society of Environmental Toxicology and Chemistry (SETAC), an important professional society in the field of environmental toxicology and chemistry, first as a Public Relations Officer of LE-SETAC and later as Student Rep of SETAC-SC.

Besides his scientific knowledge, Armando also possesses strong communication skills, being awarded third place and the People's Choice Award in 2018 and third place in 2019 at the Three Minute Thesis (3MT) competition of the Graduate School. He was also invited to speak at Texas Tech Public Radio KTTZ-FM 89.1 in 2019 to talk about his research and record a script to be used for the Graduate School.

Community service and scientific outreach were also part of his activities at TTU, participating actively in Adopt-a-Highway;

Friends of the Library Lubbock; Tech Savvy; Tech to Town; Scales, Tails and Trails; Science: It's a Girl Thing; Shake Hands With Your Future; and science fairs for Lubbock elementary schools as a judge.



Rachel Givens was born and raised in Round Rock, Texas. She graduated from Saint Dominic Savio Catholic High School in 2017 and began her college education at Texas Tech University in the Fall of 2017. She majored in Psychology with two minors in English and History. During her time as an undergraduate student, she was affiliated with the Alpha Lambda Delta and Phi Eta Sigma honor societies. During her last year at Texas Tech, she worked as an undergraduate research assistant in Dr. Robert Morgan's Forensic and Correctional Psychology Research Lab. After graduation, she will continue her education by pursuing a Juris Doctorate here at the Texas Tech School of Law.

ACKNOWLEDGEMENTS

CONVOCATIONS COMMITTEE

Dr. Courtney D. Gibson, Chair
Dr. Marcus Tanner, Co-Chair
Mr. Ian Barba
Ms. Shelley Barba
Mr. Jacob M. Baum
Mr. Jordan Bell
Dr. Shane Blum
Dr. Rhonda Boros
Dr. Valerie Borum
Dr. Alec Cattell
Ms. Luciana C. Cavazos
Dr. Julie Chang
Dr. Danny Choi
Mr. Don Collier
Dr. Fanni Coward
Dr. John A. Dawson
Dr. Audra Day
Ms. Esther De Leon
Ms. Amiee Dixon
Prof. Genevieve Durham
Dr. Nadia Flores
Ms. Jordan Frierson
Dr. Kristi Gaines
Dr. Michael Giesselmann
Ms. Maggie Gilchrest
Ms. Sarah Hatley
Mr. Ben Haugland
Dr. Vijay Hegde
Ms. Laura Heinz
Dr. Annette Hernandez
Ms. Markicia Horton
Mr. Nate Imai
Dr. Catherine Jai
Mr. Jesse Jou
Ms. Jessica Kirschner
Dr. Belinda Kleinhans
Dr. Erin Marie Legacey
Dr. Jonathan Marks
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. Walter Smith
Ms. Stephanie Soto
Ms. Carrye Syma
Mr. Jake Syma
Dr. Leslie Thompson
Dr. Susan Tomlinson
Mr. Von Venhuizen
Dr. Jian Wang
Mr. Seth Warren-Crow
Dr. Richard Watson
Dr. Lynn Whitfield
Ms. Feruzan I Williams
Ms. Heidi Winkler
Dr. Aliza Wong
Ms. Kiley Yonavich

COLLEGE READERS

College of Agricultural Sciences & Natural Resources – Dr. Warren Conway
College of Architecture – Mr. Darrick Wade
College of Arts & Sciences – Dr. Jorge Iber and Dr. David Roach
Rawls College of Business Administration – Mr. Derrick Ginter
College of Education – Dr. Anna Torres
Whitacre, Jr. College of Engineering – Dr. Tewodros Ghebrab
Graduate School – Dr. Aaron Zimmerman and Dr. Tim Dallas
Honors College – Dr. Aliza Wong
College of Human Sciences – Dr. Bill Gustafson
College of Media & Communication – Dr. Todd Chambers
University Programs and Wind Energy – Dr. Sarah Schwintz
Talkington College of Visual & Performing Arts – Dr. Jacqueline Henninger

ADMINISTRATIVE REPRESENTATIVES

College of Agricultural Sciences & Natural Resources – Ms. Macie Williams
College of Architecture – Ms. Amy Peterman
College of Arts & Sciences – Ms. Kymberli Saldaña
Rawls College of Business Administration – Ms. Geleah Sharp
College of Education – Ms. Karen Noles
Whitacre, Jr. College of Engineering – Ms. Patricia Rodriguez
Graduate School – Ms. Vanessa Bara and Ms. Katie Chapman
Honors College – Ms. Cheyenne Belew
College of Human Sciences – Ms. Ashlee Brown
College of Media & Communication – Ms. Julia Heard Witt
University Programs – Ms. Kacey Marshall and Ms. Alyssa Wagner
Talkington College of Visual & Performing Arts – Ms. Kathy Nordstrom

STUDENT BANNER BEARERS

College of Agricultural Sciences & Natural Resources – Mr. Hagan Wright
College of Architecture – Ms. Anna Gonitzke
College of Arts & Sciences – Ms. Marta Wojtkowski
Rawls College of Business Administration – Ms. Crystal Onwukaife
College of Education – Ms. Emily Beam
Whitacre, Jr. College of Engineering – Mr. Tristan Atkin
Graduate School – Mr. Jonathan Verbeten
College of Human Sciences – Ms. Tezarea Derry
Honors College – Ms. Hafsa Zuberi
College of Media & Communication – Ms. Karena Friesen
University Programs – Ms. Jennifer Rubio
Talkington College of Visual & Performing Arts – Ms. Michelle Shin

AUDIO/VISUAL TEAM

David Hougland, Associate Athletics Director/
Broadcast Services
Scott Edwards, Lead Communications
Engineer
Riannon Rowley, Game Day Producer
Tanner Fowler, Student Editor

PROGRAM

This program was produced by the Office of the Provost in cooperation with the Convocations Committee and the Office of Official Publications at Texas Tech University, Lindsay Hallowell, Director, and Kaelene Hansen, Senior Editor.

This program is an unofficial list of Summer 2020 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.

CANDIDATES FOR MILITARY COMMISSIONS

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

Matthew Edwards

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

Cassandra M. Poehlein

CANDIDATES FOR TEACHER CERTIFICATION

Sydney Victoria Adams
Danielle Nicole Addison
Shannon Aguirre
Felicity Alarcon
Cassandra M Almendariz
Andrea Amaya
Ana Lucrecia Apen Rodriguez
Oakley Jane Arave
Yadira Sarai Avalos
Annamay Medina Bancroft
Emily Anne Beam
Allison Lee Beam
Celeste Anna Benavides
Nicole Giselle Bolanos-Mata
Natalie Michelle Brizuela
Tyler Ray Burchett
Juan Carlos Camacho
Krystan Nichole Carey
John Edward Carlin
Shyanne Lashea Carpenter
Matthew M Carrillo
Molly Christine Castle
Jasmine Monet Coleman
Kathryn Rene' Cottrell
Courtney Blake Crimm
Veronica Cecilia De La Fuente
Samantha Nicole Elliott
April Lynn Gallegos
Erica Garcia
Matthew Anthony Garcia
Madison Renee Gembler
Amy Gibbs
Sarah Marie Gomez
Yadira Salinas Gomez

Maria Ana Gonzalez
Iris Elaine Gonzalez
Calla Destiny Gregg
Danielle Joyce Halter
Larissa Brooke Hastings
Elizabeth Nicole Hermosillo
Ana Karen Hernandez
Vanessa Hernandez
Lindsey Lee Hiracheta
Genita Leanne Jackson
Josselyn Abigail Jimenez
Kayleigh Elicia Jordon
Amairani C Juarez
Dillon McDowell Junkin
Madison Nicole Kansteiner
Madison Alexis King
Kaytlyn L Koeppen
Joshua Austin Kull
Gisselle Anelee Lara
Kayla A Lester
Lea A Linthicum
Claudia E Lobato Alvarez
Careli Lopez
Kielsey H Lopez
Ashlynn Renee Lopez
Alexis Lopez Lopez
Bethany Jo Lopez
Cassie Denise Lopez
Allexandra K Lyons
Lizbeth Martinez
Ariel Martinez Llamas
Heather Lynn Mcdaniel
Benjamin Patrick McQuirk
Rebecca Christine Meadows

Amaris Luann Medina Perez
Alexaih Brooke Meil
Jessica Meraz
Ana Maria Montoya Sanchez
Estefania Morales
Jessica Meleny Moreno
Magaly Grisel Moreno
Holly L Murphy
Leonor Nguyen
Brittany Moriah Nikolettopoulos
Ana Karen Ochoa
Belen Olvera
Elyssa Renee Orona
Maria Luisa Pantoja
Ashley Chasmin Patrick
Erica Perez
Brittany Celeste Perez
Eda Perez
Mischel S Pinon
Courtney Lacour Quintero
Claire Mackenzie Railsback
Jessica Abigail Ramirez
Jessica Rangel
Cynthia Teresa Requena Renteria
Judith Reyes
Mackenzie Blair Riggs
Tera Nicole Rinard
Dixie Marie Riser
Samantha Lynn Roark
Trinidad Rodriguez
Ashley D Rodriguez
Jacqueline Rodriguez
Victoria Denise Rodriguez
Derwin Rodriguez

Candice Ann Rogers
Mariela Giselle Rosales
Joselyn Rueda
Lena Samone Ruiz
Yasmin I Saenz
Maria Isabel Saldivar
Lizbeth Esmeralda Sanchez Alquicira
Yolanda Sandoval
Elizabeth Nicole Saucedo
Bernadette B Sifuentes
Ocean Blue Smiley
Rachel Antoinette Smith
Luz Adriana Solis
Rebeca Abigail Soto
Kelley Ann Speer
Reid Stillwagoner
Tatum Naomi Tanner
Courtney Rackler Tijerina
Jennifer Salazar Torres
Waleska Yvellis Town
Alyssa Danyelle Tracy
Janet Trevizo
Diane Marie Banayat Valencia
Selena Christine Vallejo
Kelley Rene' Valliant
Isabel Vazquez
Crystal Vences
Sofia Mabel Villanueva
Dorene Jasmine Villarreal
Mikayla Paige Williams
Khariah Carol Williams
Thalia Nancy Yanez Castellanos
Melina Zavala

GRADUATION HONORS

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

Sujan Aryal
Allison Lee Beam
Emily Anne Beam
Karena Friesen

Audrey Jade Green
Tien Hoang
Candra Naomi Hurley
Jennifer Rubio

Michael S. Russo
Kendall Ann Tilton
Samantha L. Ward
Hagan Dirk Wright

Parker Jay Zimmerman
Hafsa Zhra Zuberi

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

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

DOCTOR OF EDUCATION

EDUCATIONAL LEADERSHIP

Ricardo Eden Garza

Dissertation: Advancing Reading Strategies for English Learners: A Case Study of Affective Actions on Primary Reading Instruction
Major Professor: Fernando Valle

Lashanda Renee Lewis

Dissertation: Equitable Access to Advanced Mathematics Coursework for Students from Low-socioeconomic Status Backgrounds: The Impact on Barriers on Student Course Selections in Middle School
Major Professor: Alexander Wiseman

Jonathan E. Martinez

Dissertation: Principals' Impact on Teachers' Use of Culturally Responsive Teaching in Texas Region One Education Service Center with Hispanic Sixth Grade English Learners and Special Education Students: A Multiple Case Study Approach
Major Professor: Alexander Wiseman

HIGHER EDUCATION ADMINISTRATION

Dara A. Anderson

Dissertation: The Relationship between Teaching Presence and Student Satisfaction in Graduate Distance Education Courses
Major Professor: Dave Louis

Dominic Anthony Aquila

Dissertation: Faculty Perceptions of the Relation Between Liberal Arts and Professional, Vocational, and Skills-Based Programs of Study
Major Professor: Stephanie J. Jones

Angela DeVonne Dampeer

Dissertation: African American Male Undergraduate Students' Perception of Campus Racial Climate at a Predominately White Private Religiously Affiliated Higher Education Institution
Major Professor: Bryan Hotchkins

Geron David Scates

Dissertation: Factors that Influence Career Technical Student Completion Rates at a Texas Community College
Major Professor: Stephanie J. Jones

DOCTOR OF MUSICAL ARTS

Luis Fernando Rayo

Dissertation: Developing Control in Piano Technique
Major Professor: Stacey Jocoy

Orlando Ruiz

Dissertation: Analysis of Roberto Sierra's *Rapsodia for Solo Trumpet and Wind Ensemble*
Major Professor: Andrew Stetson

Gregory Patrick Tsalikis

Dissertation: A Survey of Expected Qualifications for Texas 5A and 6A High School Percussion Directors
Major Professor: Lisa Rogers

Elizabeth Ashley West-Davis

Dissertation: Dominick Argento's *Miss Manners on Music*: A Performance Guide for Singers
Major Professor: Rebecca Hays

DOCTOR OF PHILOSOPHY

AGRICULTURAL AND APPLIED ECONOMICS

Anne Oluwatosin Musa

Dissertation: Essays on Food Security in the United States
Major Professors: Ryan B. Williams and Carlos Carpio

Jorge Romero-Habeych

Dissertation: Quasi-experimental Estimation of Cotton Yields Under, and Crop Insurance Impacts on, the Adoption of Alternative Irrigation Systems
Major Professor: Darren Hudson

Sima Siami-Namini

Dissertation: Essays on Monetary Policy and Income Inequality
Major Professor: Conrad Lyford

AGRICULTURAL COMMUNICATIONS AND EDUCATION

Nellie Lynn Hill

Dissertation: Public Opinion of Gene-Editing in Agriculture: A Mixed-Method Study of Online Media and Metaphors
Major Professor: Courtney Meyers

Kelsi Morgan Opat

Dissertation: Disseminating Scientific Information to Generation Z Through Podcasts: An Explanatory Sequential Mixed Methods Study
Major Professor: Erica Irlbeck

ANIMAL SCIENCE

Rosine Manishimwe

Dissertation: Antimicrobial Resistance in Gram-negative Bacteria from Food Producing Animals
Major Professor: Guy Loneragan

BIOLOGY

Abdulaziz Yahya Alqahtani

Dissertation: Recombinant Pyocins as a Potential Therapy to Treat *Pseudomonas aeruginosa* Acute and Chronic Wounds
Major Professor: Randall Jeter

Saba Nafees

Dissertation: Application of Multivariate Tensor-based Orthogonal Polynomials to Biological Sequences
Major Professor: Sean H. Rice

BUSINESS ADMINISTRATION

Mengxi Chen

Dissertation: Two Essays on Initial Public Offerings
Major Professor: Jack Cooney

GRADUATE CANDIDATES

Hyungeun Choi

Dissertation: State-Level Economic Conditions, Local Sentiment, and Corporate Bond Credit Spreads

Major Professors: Jeffery Mercer and Will Armstrong

Timothy Jun Kaskela

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Esteban Javier Garcia
Nicholas David Key
Sabrina Alicia King
Kaylee Michelle Kinzie
Lauren Elizabeth Lobmeyer
Anna Elizabeth Lowe²
Daniela Martinez
George Mitchell McCoy
Casey Lane Mushinski
Kelechi V. Obi³
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Ruben Alejandro Perea
Victor Plosca
William T. Reed
Carlos Eduardo Salazar
Caleb Walker Schnatz
William Hayden Scott
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Thomas Parker Torres
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SUPPLY CHAIN MANAGEMENT

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Taylor Jordan Konovalski
Marlene Ortiz³
Decker Wayne Reno



TEXAS TECH UNIVERSITY
College of Education

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Erica Garcia¹
Matthew Anthony Garcia
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Yadira Salinas Gomez²
Iris Elaine Gonzalez¹
Jessica Nicole Gonzalez
Maria Ana Gonzalez¹
Calla Destiny Gregg¹
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 College of Engineering

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 Hamza Khan
 Daphni Valyncia Leonard³
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 Asim Alahwas
 Thamer Naif Alhathal
 Braulio Abeud G Bartolomeu Cunha
 Delio Eliud Cunha
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 Roberto C. Barrera
 Lurvin Gisell Bernardes
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 Jesus Alfredo Bravo³
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 Charles Alvin Bryan
 Jazzmin Aaliyah Casillas
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Hans William Hudyncia²
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 Joshua Charles Kitziger
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 Wesley Ring Porter
 Jesus Antonio Rongel
 Esteban Andres Ruiz Proano
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 Zachariah Creed Walker
 Cleo Christine Weber
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TEXAS TECH UNIVERSITY

College of Human Sciences

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 Ellis Katherine Martin

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 Morgan Alyse Carmichael

FAMILY AND CONSUMER SCIENCES EDUCATION

Oakley Jane Arave

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 Lexi Lu Anderson
 Hiwot Assaye
 Halle-Jane Begwin
 Lisa Cao³
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 Darienne Layne Clinton
 Madelyne Marie Consley
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Daphne Brooke Chavez
Ashley Marie Holmes Cushman
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TEXAS TECH UNIVERSITY
**College of Media
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Kipp Colin Bennett-Chew¹
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Spencer Gregory Cullen
Jenna Caroline Curtis
Travis J. Doke
Kyle Gay
Hayden Richard Hefty
Maklen Alexander Marchant
Ivan Monarrez
Greyson C. Murchison
Tanner George Picard
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Brittany Anne Powell
Timothy Grant Rhoades
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Hannah Lange Sullivan
George Daniel Wanjaw
Samantha L. Ward¹
Tiara Lynn Williams
Phillip Tyler Woods

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Rubi Aguirre
2nd Major: Communication Studies
Kiani Earl Bell
Nikolaus Arron Coldiron³
Ryan Rakim Craig
Judson Eddins²
Tatianna Alisha Henry³
Garrett Adam Kidd
Oriabure Nathaniel Bryant Okoruwa Uwagbale
Marina Alexandra Ramirez
Myles Ray Salazar
Jonathan Brent Seaborn
Henry Jace Zielinski

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Karena Friesen¹
Joseph Alexander Reynoso²
Karen Lindsay Rios

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Katelyn M. Lipham

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Lane Barret Christianson II
McKenna Rose Duncan
Jacee Laine Fellows
Siboney Vanesa Flores
Alexander Ray Gonzalez
Kristyn Rylee Guerra
Ryan M. Haralson
Alexandria Michell Hernandez
Greyson C. Jones
Grant Allen Kersey
Tyler King
Alexis Rene' McLeod
Adam Lucas Reed

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Sophia Rose Rodriguez
Joshua Omar Silva
Blake Collins Skipper
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Zane Michael Wagner

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Marco Vincent Rodriguez
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TEXAS TECH UNIVERSITY

University Programs™

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UNIVERSITY STUDIES

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Anish Banerjee
Andrew Patric Bartnowak
Mark Cooper Bryant
Nicole Cain Campbell
Tyler Keith Carr
Tonya Castillo
Andie Elizabeth Clark
Chandler Keith Craig
Landon Todd Dennis
Desenia Maria Estrada
Maricella Krystal Flores
Haymon Trey Gentry
Erika Ann Gomez

Gilbert Lee Gonzales
Westin Lee Goodman
Tatum Deann Gray
Katy Suzanne Grissom
Mia Ann Hargrove
Jarrius Glenn Jackson
Noah Leighton Jones
Candida Nicheala Johnson
Erick Kabuya Kabanangi
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Jennifer Rubio¹
Donna Snyder
Arden Margaret Olga Stehling
Evan Dean Thompson
Gavin Gibbs Walker
Cody Allen Wells
Christy Marie Werner
Brandon Sean Williams
Ryan Bradley Williams
Avery Elizabeth Wright³

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UNIVERSITY STUDIES

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Adriana Llanas²
Justin R. McCall
Paige Morgan McCauley
West Marshall Reddell
Kathryn Nicole Stewart
Madeline Marie Vela
Marissa Clare Zoch

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Daniel Edward Kern
Leao Cumbo Lubongo
Braun Marcus Marquez
Dillon Wade Morrow
Kevin Michael Mosher¹
Celeste Soloya
Timothy Koy Stone



TEXAS TECH UNIVERSITY

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

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ART

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DANCE

Paige Allison Barger

MUSIC

Emily Marie Peek
Michael Anthony Werner⁴

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ART

Taylor Shae Lindstrom
Michelle Shinn²
Breanna Elisa Velasquez¹
Hannah Noelle Willstrop
Paxton Elise Yeager
Second Degree: Psychology

BACHELOR OF MUSIC

Samuel Thomas Acosta
John Michael Alvarado
Jasmine A. Andrade
Dillon McDowell Junkin
Mykel Ilyse McDonald³
Blake Shawn Wells

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

COLLEGE BANNERS

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

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



the original campus master planner, in 1924. The shield is a black escutcheon quartered by a red cross, on which are arrayed 10 cotton bolls, symbolic of the importance of cotton to West Texas and representing Lubbock County and the nine surrounding cotton-producing counties. These symbols also reflect one of the original missions of Texas Technological College: “To provide students with a thorough education in textiles and technical engineering.” The shield features emblems that evoke the university, community, state and nation. In the upper-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.



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

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



The blue background color of the **College of Education** banner reflects the light blue color designated for education by the Intercollegiate Code and is also seen in the velvet border of education master's and doctoral hoods and doctoral gowns. The upper area of the banner carries a school building encircled by the words “College of Education” and “Scholarship, Leadership, Service” to represent the primary roles of the college as a unit dedicated

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

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



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

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



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

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



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

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



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

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

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

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

the words in gold: "University Honors College."

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



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

the lives of those in the local community, but also connecting with the global community.

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



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

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

The banner for **University Programs** exhibits the colors of Texas Tech with a red background trimmed in black. The focus of the banner is the silhouette of the Administration Building's bell tower, which is an iconic symbol of Texas Tech. Just as the university is comprised of many parts, University Programs integrates multiple programs from colleges across the university. The traditional Double T placed in a window of the tower signifies the



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

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



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

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

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



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

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

ACADEMIC DRESS AND PROCESSION



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



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

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

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

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

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

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

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

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

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

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

COLORS REPRESENTING FIELDS OF STUDY

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

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

HONOR CORDS / MEDALLION

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

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

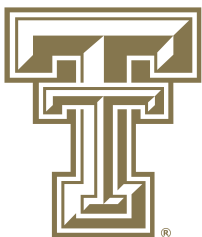


UNDERGRADUATE ROBE: A red stole displaying the Double T and seal of Texas Tech University distinguishes students receiving baccalaureate degrees. Degree candidates wearing red cords will graduate with honors designations based on a minimum 3.5 GPA.

Texas Tech University's August 2020 Virtual Commencement Ceremonies are available at <http://www.ttu.edu/livestream/>.







TEXAS TECH UNIVERSITY®

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

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

MATADORS

MUSIC BY
HARRY LEMAIRE
BANDMASTER
TEXAS TECH COLLEGE

Voice

Fight Mat-a-dors for Tech. Songs of love we'll
sing to thee. Bear our ban-ners far and wide.
Ev-er to be our pri-de. Fear-less cham-pions ev-er be.
Stand on heights of vic-tor-y. Strive for hon-or
ev-er more. Long live the Mat-a-dors