

Commencement

FALL 2020

Lubbock, Texas

December 19





TEXAS TECH UNIVERSITY®

FALL 2020

Commencement

Saturday, December 19, 2020

9:30 a.m., Lubbock, Texas

TABLE OF CONTENTS

Administration		3
About Texas Tech University		4
University-Wide Commencement Ceremony		8
Commencement Speaker		10
Student Speakers		11
Individual College Student Speakers		12
Acknowledgements		13
<i>Convocations Committee</i>		
<i>College Readers</i>		
<i>Administrative Representatives</i>		
<i>Student Banner Bearers for Ceremonies</i>		
<i>Audio/Visual Team</i>		
<i>Program Production</i>		
Candidates for Military Commission		14
Candidates for Teacher Certification		14
Graduation Honors		14
List of Graduate Degree Candidates		15
List of Undergraduate Degree Candidates		23
College Banners		36
Academic Dress and Procession		38

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 of Animal and Food Sciences*

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.

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

TEXAS TECH UNIVERSITY SYSTEM CHANCELLOR / BOARD OF REGENTS

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*Chancellor,
Texas Tech University System*

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Dallas, Texas*

MR. DUSTY WOMBLE

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MS. BROOKE WALTERSCHEID

Muenster, Texas

ACADEMIC OFFICERS

MARK SHERIDAN, Ph.D.

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Postdoctoral Affairs;
Dean, Graduate School;
Professor of Biology*

MICHAEL SAN FRANCISCO, Ph.D.

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Professor of Biology*

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*

GENEVIEVE DURHAM
DECESARO, M.F.A.
*Interim Dean, J.T. & Margaret Talkington
College of Visual & Performing Arts;
Professor of Dance*

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

ALIZA WONG, Ph.D.
*Interim Dean, Honors College;
Professor of History*

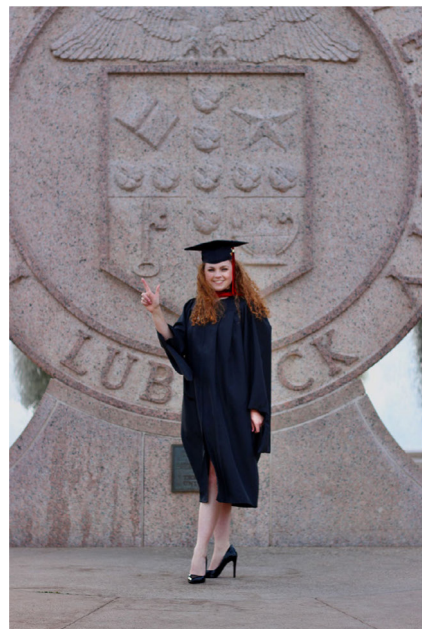
PATRICK C. HUGHES, Ph.D.
*Vice Provost, University Programs and Student
Success; Professor of Communication Studies*

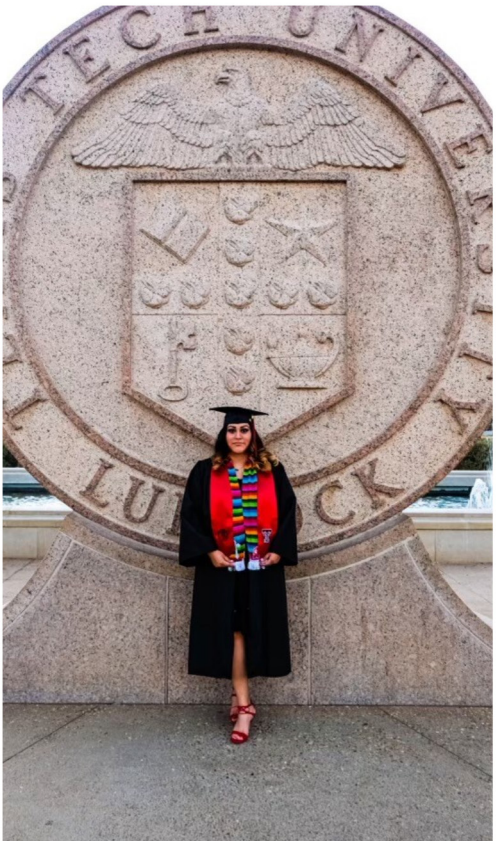
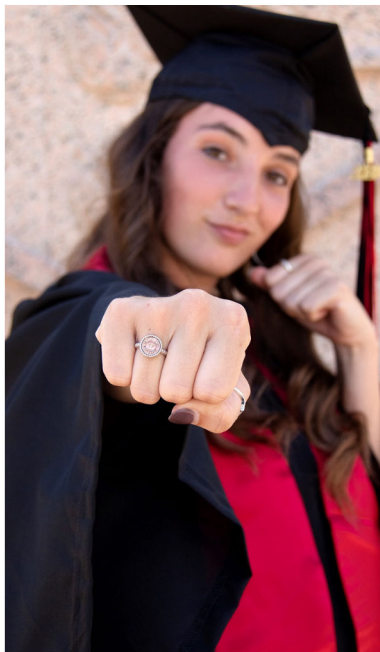
FROM ITS VERY BEGINNING the Texas Tech University community has had a sense of destiny and an awareness of the impact it could and would have on Texas and the wider world. Originally named Texas Technological College, Texas Tech opened in 1925 with six buildings, four schools (Agriculture, Engineering, 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 40,000 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.

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, December 19, 2020

9:30 a.m.

Presiding	Dr. Lawrence Schovanec <i>President, Texas Tech University</i>
National Anthem	2019-2020 University Choir
Welcoming Remarks	Dr. Lawrence Schovanec Mr. Christopher M. Huckabee <i>Board of Regents, Texas Tech University System</i>
Introduction of Commencement Speaker	Dr. Lawrence Schovanec
Commencement Speaker	Mr. Mark Bass <i>CFP®, CPA, AIF®, Pennington, Bass & Associates</i>
Student Speakers	Ms. Lori Guerrero <i>Graduating with a Doctorate in Interior and Environmental Design</i> Mr. David Rivero <i>Graduating with a Bachelor of Business Administration in Finance</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;</i> <i>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. Michael San Francisco, <i>Interim 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. Aliza Wong, <i>Interim Dean, Honors College</i> Dr. Tim Dodd, <i>Dean, College of Human Sciences</i> Dr. David Perlmutter, <i>Dean, College of Media & Communication</i> Prof. Genevieve Durham DeCesaro, <i>Interim Dean, J.T. & Margaret Talkington</i> <i>College of Visual & Performing Arts</i> Dr. Patrick Hughes, <i>Vice Provost for University Programs and Student Success</i> (presenting University Studies)
Recognition of Outstanding Students Class of 2020	Dr. Michael Galyean
Charge to the Graduates	Dr. Lawrence Schovanec
Alma Mater (Words on Back Cover)	Mr. Jeremy Nicholas Brown <i>Graduating with a Bachelor of Music</i>
Closing of Ceremony	

Saturday, December 19, 2020

9:30 a.m.

Welcoming Remarks

Dr. Lawrence Schovanec
President, Texas Tech University
Mr. Christopher M. Huckabee
Board of Regents, Texas Tech University System

Commencement Address

Mr. Mark Bass
CFP®, CPA, AIF®; Pennington, Bass & Associates

Student Speakers

Ms. Lori Guerrero
Graduating with a Doctorate in Interior and Environmental Design
Mr. David Rivero
Graduating with a Bachelor of Business Administration in Finance

Dean Message to Graduates

Dr. Mark Sheridan, *Vice Provost for Graduate and Postdoctoral Affairs; Dean, Graduate School*
Dr. William Brown, *Dean, College of Agricultural Sciences & Natural Resources*
Prof. Jim Williamson, *Dean, College of Architecture*
Dr. Michael San Francisco, *Interim 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. Aliza Wong, *Interim Dean, Honors College*
Dr. Tim Dodd, *Dean, College of Human Sciences*
Dr. David Perlmutter, *Dean, College of Media & Communication*
Prof. Genevieve Durham DeCesaro, *Interim Dean, J.T. & Margaret Talkington College of Visual & Performing Arts*
Dr. Patrick Hughes, *Vice Provost for University Programs and Student Success (presenting University Studies)*

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



Mark Bass, CFP®, CPA, AIF® is a financial planner with Pennington, Bass & Associates. He is an associated person with Cetera Advisors, Inc. (a fee-based registered investment adviser), a registered principal with Cetera Advisors, Inc. (a FINRA broker/dealer), and is affiliated with Independent Planners Group (a firm specializing in insurance, annuities, and structured settlements). Pennington, Bass & Associates is entrusted with over \$420 million of client assets.

Mark holds a B.B.A. with a major in Economics from Baylor University (1973) and a B.B.A. with a major in Accounting from Texas Tech University (1978). Bass has served on the Boards of the International Association for Financial Planning and the Institute of Certified Financial Planners (both now combined and known as the Financial Planning Association). In 1987, he was listed by *Money* magazine as one of the top 200 financial planners in the United States. In 1998, he received the John B. Keeble III Award for Integrity and Excellence as a financial planner. In 2015, he was

named to the Financial Times list of the Top 400 Financial Advisors in the United States. In 2017, Cetera Advisors gave him their Lifetime Achievement Award for service to the profession. In 2020, he was again named to the Forbes/SHOOK list as one of the Best-In-State Wealth Advisors.

He has lectured for several colleges, universities, professional and civic groups, has written articles for professional financial planning periodicals, and has been quoted in numerous magazines and newspapers including *USA Today*, *Money*, *Kiplinger's Personal Finance*, and *The Wall Street Journal*. In addition, he has written for the general public and has appeared as a financial commentator on radio and television. He also was appointed by Congress as one of 200 delegates to the bipartisan 2002 National Summit on Retirement Savings.

His community service has included numerous organizations involved in social services and the arts. He is a board member and Treasurer of the Lubbock Entertainment and Performing Arts Association, which is developing The Buddy Holly Hall of Performing Arts and Sciences and a board member of the Lubbock Downtown Development Corporation. He is the past President and past Secretary/Treasurer of Civic Lubbock, Inc. (a non-profit organization devoted to promotion of the arts in Lubbock and appointed by the Lubbock City Council). He previously served on the boards of the Lubbock Symphony Orchestra, including a term as treasurer; the South Plains Food Bank; and chairman of the City of Lubbock Audit and Investment Committee. He has been a member of Second Baptist Church since its inception in August 1958 and has served in numerous roles, including Co-Chair of the Leadership Team (the church's governing body), a member of the choir, and a Deacon and Sunday School teacher.

Mark is married to Betsy and has two sons, Jordan and Grayson. Grayson is married to Nawal, and they have sons Ali (12) and Roy (6) and daughter Lulu (10). Mark has a stepson Chris and a stepdaughter Camille McKinzie, who is married to Curtis, and they have a daughter Liesl (12), a son Liam (4), and a daughter Lily (2).



Lori Guerrero is graduating with a Doctor of Philosophy in Interior and Environmental Design. She is the 2018 recipient of the Elo and Olga Urbanovsky Fellowship for her research exploring how land-use, particularly outdoor learning environments, influences public health. She is a member of the Coalition of Natural Learning at Texas Tech University and the statewide OLE! Texas Initiative. Lori specializes in promoting the well-being of children through nature in interior and exterior spaces. In addition to her academic accomplishments, she is a registered interior designer with over a decade of industry experience.



David Rivero, a Lovington, New Mexico, native, will be graduating with a Bachelor of Business Administration in Finance with a concentration in real estate and a minor in political science with honors from the Honors College. Prior to his current role, David led as the 2019-2020 Student Body President, where he and his team advocated for and represented over 39,000 Red Raiders on local, state, and national platforms. David has a desire for success and a passion for service, which fuels him to work hard and make a difference. David is a high achiever and is heavily immersed in both the Texas Tech University and Lubbock communities through his associations with the Student Government Association, Beta Theta Pi, Delta Sigma Pi, Mortar Board, Real Estate Organization, Finance Association, Hispanic Student Society, and the Catholic Student Association. He also served as the 2018 TTU Homecoming King.

INDIVIDUAL COLLEGE STUDENT SPEAKERS

College of Agricultural Sciences & Natural Resources	Hannah Van Der Schans <i>Bachelor of Science, Agricultural Communications</i>
College of Architecture	Meagan Matthews <i>Bachelor of Science, Architecture</i>
College of Arts & Sciences	Alexis Dennett <i>Bachelor of Science, Chemistry</i>
Jerry S. Rawls College of Business Administration	Arianna Webb <i>Bachelor of Business Administration, Management</i>
College of Education	Careli Lopez <i>Bachelor of Science, Education</i>
Edward E. Whitacre Jr. College of Engineering	Omer Rehmatullah Qureshi <i>Bachelor of Science, Computer Science</i>
Graduate School	Melinda Lori Anderson-Guerrero <i>Doctor of Philosophy, Interior Environmental Design</i>
Honors College	David Rivero <i>Bachelor of Business Administration, Finance</i>
College of Human Sciences	Flita Fernandes <i>Bachelor of Science, Apparel Design and Manufacturing</i>
College of Media & Communication	Deja Ja'Vonne Bowman <i>Bachelor of Arts, Advertising</i>
J.T. & Margaret Talkington College of Visual & Performing Arts	Madison Lee Fanning <i>Bachelor of Music</i>
University Programs and Student Success	Tatiana Neri <i>Bachelor of Arts, University Studies</i>

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. Erica Irlbeck
and Dr. Jason Headrick
College of Architecture – Prof. Darrick Wade
College of Arts & Sciences – Dr. Jorge Iber and
Dr. Marcus Tanner
Rawls College of Business Administration –
Mr. Derrick Ginter
College of Education – Dr. Anna Torres
Whitacre, Jr. College of Engineering –
Dr. Shu-Xia Tang and Dr. Ken Rainwater
Graduate School – Dr. Jon McNaughtan and
Dr. Rebecca Hays
Honors College – Ms. Raynie Gibbs
College of Human Sciences –
Dr. Bill Gustafson
College of Media & Communication –
Dr. Todd Chambers
University Programs –
Ms. Raynie Gibbs
*Talkington College of Visual &
Performing Arts* – Prof. Ghi Fremaux

ADMINISTRATIVE REPRESENTATIVES

College of Agricultural Sciences & Natural Resources – Ms. Macie Williams
College of Architecture –
Mr. Steven Dominguez
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. Alyssa Reichert
Honors College – Ms. Cheyenne Belew
College of Human Sciences –
Ms. Ashlee Brown
College of Media & Communication –
Ms. Julia Heard Witt
University Programs – Ms. Kelsey Kern and
Ms. Alyssa Wagner
*Talkington College of Visual &
Performing Arts* – Ms. Kathy Nordstrom

STUDENT BANNER BEARERS

College of Agricultural Sciences & Natural Resources – Ms. Hannah Van Der Schans
College of Architecture –
Ms. Madeline LaPointe
College of Arts & Sciences – Ms. Leah Kelly
Rawls College of Business Administration –
Ms. Hunter Nicole Hatfield
College of Education – Ms. Careli Lopez
Whitacre, Jr. College of Engineering –
Ms. Claire Elizabeth Ganci
Graduate School – Mr. Brian Desanti
College of Human Sciences –
Ms. Cynthia Okeke
Honors College –
Mr. Michael Scott
College of Media & Communication –
Ms. Saydie French
University Programs – Ms. Tatiana Neri
*Talkington College of Visual &
Performing Arts* – Ms. Victoria McElhinney

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

Aaron George Runnells
Nicholas James Volberding

CANDIDATES FOR TEACHER CERTIFICATION

Haylee Brianne Adams
Kelly Victoria Bless
Jeremy Nicholas Brown
Elvira Canelo
Johana Lizeth Castillo
Troy Landry Chester
Kathryn Elizabeth Cogar
Abigail Lauren Daley
Mariann Williams Davidson
Miranda Joy De Bruin
Megan D. Deisher
Erin Lea Espinoza
Daniel Colin Finley
Jonathan Wesley Fortson
Armando Fuerte
Zoe Elizabeth Fuqua

Madison Renee Gemblar
Daniel Golan
Eric Brandon Goodheer
Sarahlinna Nikole Guerrero
Danielle Joyce Halter
Tyler Ryan Harris
Demetra Denise Hight
Taylor Erin Jackson
Kaleigh N. Jackson
Careli Lopez
Maria Elena Lopez
Ashtwanic J.S. Lunford
Connor Thomas MacAllister
Ashley B. McClellan
Victoria Carleen McElhinney
Caitlin Margaret Michelson

Marisol Montanez
Jessica Meleny Moreno
Antonio Javier Musella-Gonzales
Jamie Nicole Nielson
Melissa Nunez Flores
Adriana Patino
Eda Perez
Rachel A. Perkins
Christan Layne Pilgrim
Misael Pineda
Rebecca Michelle Pollock
Judith Reyes
Jacklyn Michelle Robinson
Victoria Denise Rodriguez
Brennan Kenneth Ross
Amy Margaret Ruiz

Lena Samone Ruiz
Aurora Salazar
Ashley Marie Sanchez
Caleb Zachary Santacruz
Vinicius A. Santana
Cyndi Gabriella Segura
Kristen Grace Shuman
Christopher Philip Stockdale
Leslie Carina Tinoco-Ruiz
Lainey Riley Travis
Spencer Mccullouch Tripp
Crystal Vences
Kaylee Ann Woolsey

GRADUATION HONORS

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

Kaitlyn Ashleigh Albrecht
Theron Ethan Alcazar
Sofia Abdulkarim Bajunaaid
Audrey Michelle Bell
Sanjuana Carranza
Madison Lynn Claridy
Kathryn Elizabeth Cogar
Andrea Corkovic
Bailey Rae Cross
Fugang Deng
Alexiss Alisse Dennett
Victoria E Dennis
Sophie Shaffer Dirks-Martin
Layce Michelle Donnell
Courtney Ann Ekness

Kiersten Euresti England
Saydie Rose French
Conlee Kay Fuqua
Claire Elizabeth Ganci
Stephanie Davila Hart
Sarah Anne Hartman
Hunter Nicole Hatfield
Alexia Nicole Hernandez
Nathan Fox Holtman
Leah Marie Kelly
Jiyeon Kim
Elizabeth Anne Koch
Mallory Leone Langseth
Careli Lopez
Jessica Marie Marsh

Victoria Carleen McElhinney
Randell Sutton Miller
Philip Logan Mounce
Nancy Maria Munoz
Tatiana Neri
Kirsten Breanne Niemann
Kennedy D. Preas
Caroline Jane Ramsey
Jacquelyn Siena Roberts
Christy Lou Robinson
Mary Kelsey Robinson
Adán Javier Rubio
Sean Michael Shanklin
Kristen Grace Shuman
Blaine M Sieck

Kade Brian Sparger
Cole Austin Staggs
Kaimi Marie Story
Brianna Marie Swailes
Kenny Thien Tran
Hannah Markell Van Der Schans
Joseph Aubrey Wahl
Haley Kaye Wallace
Rachel E. Warman
Arianna Page Webb
Derek Michael Wells
Campbell Renee Williams
Savanna Marie Wilson
Jacob Kenney Young

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

Amber Lee Anderson

Dissertation: Three Essays on USDA's Direct Water and Waste Disposal Program In Oklahoma: An Evaluation
Major Professor: Todd Brashears

EDUCATIONAL LEADERSHIP

Gwendolyn Fallwell Coffey

Dissertation: Culturally and Linguistically Diverse Parental Participation: A Critical Analysis of the Power of Language in Special Education ARD Committee Meetings
Major Professor: Dusty Palmer

Lyndsay Thoms Lucas

Dissertation: Using Conceptual Blending Through Action Research to Create New Meaning
Major Professor: Dusty Palmer

John Miguel Martinez, Jr.

Dissertation: The STEM Initiative: The Maker-space and Its Influence on Transforming Teaching and Learning in a Middle School Setting
Major Professor: Joseph G. Claudet

HIGHER EDUCATION ADMINISTRATION

Magen Shaw Besancon

Dissertation: The Relationship between Dual Credit and Academic Advising: Examining Course Transfer and Degree Articulation of Dual Credit into Four Year Institutions in Texas
Major Professor: Dave Louis

Marilyn Christine Dement

Dissertation: Low-income Community College Students' Perceptions of Financial Aid and Factors that Influenced Their Decision to Not Apply for Need Based Aid
Major Professor: Stephanie J. Jones

INSTRUCTIONAL TECHNOLOGY

Mark Dame

Dissertation: Health Sciences Faculty Satisfaction in Distance Learning: A Relationship to Intent to Leave
Major Professor: Fethi A. Inan

DOCTOR OF MUSICAL ARTS

MUSIC

Matthew Shawn O'Neill

Dissertation: Facilitating an Empirical Understanding of the Free Improvisation Environment: A Progressive Set of Games Focusing on Listening, Space, and Feedback
Major Professor: Jennifer Jolley

Rodrigo Pessoa de Almeida

Dissertation: Starting from the End: A Proposal of Curriculum Guidelines for Cellists
Major Professor: Jeffrey Lastrapes

DOCTOR OF PHILOSOPHY

AGRICULTURAL AND APPLIED ECONOMICS

Abdullah Sultan Al Shammr

Dissertation: Linear, Factor and Dynamic Energy Price Forecasts and the Effect of Oil Price Shocks on the Stock Market in Selected Countries
Major Professor: Benaissa Chidmi

Antonia Gkerghi

Dissertation: Essays on the Economic Performance of Greece: Common Currency and Immigration
Major Professor: Darren Hudson

Niranjan Jayaramu

Dissertation: Risk Management and Environmental Policy for Pastoralism in the Tibetan Plateau
Major Professor: Chenggang Wang

Gonzalo Macera

Dissertation: Essays on the Impact of Economic Freedom on Investment, Entrepreneurship and Development
Major Professor: Benjamin Powell

Gertrude Nakakeeto

Dissertation: Essays on the US-China Trade War
Major Professor: Jamie Malaga

ANIMAL SCIENCE

Savannah Jayne Forgey

Dissertation: Development, Verification, and Validation of a RT-PCR Based Methodology for *Salmonella* Quantification as a Tool for Integrated Food Safety Management in Poultry from Live Production to Final Product
Major Professor: Marcos Sanchez-Plata

Nicholas Cade Hardcastle

Dissertation: Understanding the Impact of Reduced Water Use Beef Spray Chilling System on Beef Carcass Quality and Saleable Yield
Major Professors: Dale Woerner and Mark Miller

Mirena Markova Ivanova

Dissertation: Genomic and Molecular Identification and Characterization of *Enterobacteriaceae* and *Campylobacter spp.*
Major Professor: Guy Lonergan

Justin Edward Johnston

Dissertation: Investigation of Beef Brisket Palatability from Two Countries: Australia and the United States
Major Professor: Mark Miller

Benjamin Austin Kasl

Dissertation: Effects of Nutritional and Feeding Management Factors on the Abomasal Environment in Preweaned Dairy Calves
Major Professor: Michael Ballou

BIOLOGY

Sergio Castro Gonzalez

Dissertation: Understanding the Mutual Antagonism Between HIV and Autophagy
Major Professor: Ruth Serra Moreno

Yu Ning

Dissertation: Investigating the Roles of Lathosterol Oxidase and Sterol C4-demethylase in Leishmania Survival, Stress Response and Virulence
Major Professor: Kai Zhang

CHEMICAL ENGINEERING

Toni Elise Kirkes

Dissertation: Comprehensive Thermodynamic Modeling of Complex Aqueous Electrolyte Solutions
Major Professor: Chau-Chyun Chen

Leila Lesanpezeshki

Dissertation: Development of Gel-based Phenotypic Assays to Study Muscle Function and Genetics in *Caenorhabditis elegans*
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Hla Tun

Dissertation: Prediction of Mixed-Gas Adsorption Equilibria and Isosteric Heat of Adsorption from its Pure Component Adsorption Isotherms
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Dujuan Meng

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Shiva Moaven

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Marangely Gonzalez Cruz

Dissertation: Susceptibility of Agricultural Production Systems to Climate Extreme Hazards with Implications to the High Plains Region

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Adesewa Adebisi Odetayo

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Xiangyu Liu

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Ashish Mishra

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John Richard Schumacher

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Nadia Berleth

Dissertation: Determining the Integration of Mathematical Concepts in Family and Consumer Sciences Education

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Dissertation: Determining the Success of *Say Yes to FCS* as a Family and Consumer Sciences Marketing and Recruitment Tool...Is It Working?

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Kristie L. Storms

Dissertation: Three Essays Exploring Alternatively Certified Family and Consumer Sciences Teachers: A Mixed Methods Study of Perceived Gaps in Preparation, Self-Efficacy Levels, and Personal Journeys to the Profession

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Zachary Elijah Dailey

Dissertation: Constructing Prisms: Regional American Playwriting after the Great Recession (2008-2019)

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Tarek Kandakji

Dissertation: Identifying and Spatio-temporal Analysis of Dust Point Sources in Southwestern United States and Applying Robotics in Wind Erosion Studies

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Dissertation: Examining Thunderstorm Kinematic Structures in which Lightning Initiates and How the Causal Electrostatics are Generated

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HIGHER EDUCATION RESEARCH

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Dissertation: Women Persisting in STEM: A Learning-partnership Narrative of First-generation Students' Experiences with Academic Advising through Academic Probation

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Dissertation: Corporate Spin or Corporate Conscience? Examining Corporate Climate Change Communication Effects on Consumer Attitudes and Behaviors
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Dissertation: Transdermal Delivery of Metformin Using Microneedles and Iontophoresis for Combating Obesity
Major Professors: Shannon Galyean and Shu Wang

Rownock Afruza

Dissertation: Role of E4orf1 Protein in High Fat Diet Induced Liver Steatosis and Chronic Kidney Disease: A Novel Approach to Prevent Nonalcoholic Steatohepatitis and Renal Failure
Major Professor: Vijay Hegde

Md Shahjalal Hossain Khan

Dissertation: Role of E4orf1 Protein in Preventing the Progression of Cognitive and Synaptic Dysfunction in a Mouse Model of Alzheimer's Disease
Major Professor: Vijay Hegde

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Thesis: Narrating Mormon Identity in Ambivalent Spaces
Joseph R. Greiner

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Kassidy McKenna Solei Cox
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Thesis: Differentiating Post-Traumatic Stress Disorder and Depressive Disorders in Active Duty Army Personnel using the MMPI-2-RF and the PAI
Matthew J. Sharkey

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Cyrus Clemens Webb
Thesis: Searching for Hope Amid Hopelessness: The Modern Evolution of Afro-Pessimism and Social Death

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Eleanor Kathryn Foster
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Benjamin Lee Geiger
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Kalea McFadden
Thesis: Frozen Warfare: Managing Life in American Civil War Prisons

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Thesis: Crafting Appeals for Conversation: The Drivers of Intention to Adopt Water-Wise Agricultural Practices
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Clara Elizabeth McKenney
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Abderrahmane Amor

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Thesis: The Development of an Individualized Treatment Approach to Adult ADHD: A Case Study

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tors, and Recommendations for Future Training
Opportunities
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Thesis: Examining the Impacts of Infographics
on Consumers' Perceptions of Swine Industry
Sustainability Initiatives

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Factors of Australian Beef Navels Processed as
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Development of Local Humoral and Cell-Medi-
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Mass Spectrometry (REIMS) As a Novel, Real-
Time Method for Determining Beef Fatty Acid,
Amino Acid and Volatile Composition
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Thesis: A Comparison of Consumer Response
Using Paper and Digital Ballots for Eating Quality
Assessment of Beef Steaks

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Thesis: Extracting Turbulence Parameters from Second-by-Second Wind Speed Projections of dual-Doppler Sector Scans

Jessica Cristina dos Santos Souza

Thesis: Assessing Turbulence in Different Spots of Lightning Flash Propagation

Jake Nathaniel Williams

Thesis: Influence of Ice Nuclei Particle Parameterization on Cloud Formation and Electrification Using the COMMAS 3-D Model

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Kerrion D'Jon Campbell

Kathryn Ann Gibson

Ashley Mathews

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BIOLOGY

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Thesis: An Assessment of Monarch Butterfly (*Danaus Plexippus*) Prevalence and Milkweed (*Asclepias spp.*) Restoration in the Rolling Plains of West Texas

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CHEMISTRY

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Seyedehnastaran Hashemi

Atina Sadat Kia

Elnaz Nahirafee

ENVIRONMENTAL TOXICOLOGY

Cady Madelyn Mello

Thesis: Cytochrome P450 1A Enzymatic Activity in Sea Turtle Organs

FAMILY AND CONSUMER SCIENCE EDUCATION

Angella Michelle Barrett-Brady

Lachea Michelle Davis

Neida Eliza Martinez

FOOD SCIENCE

Angela Maria Perdomo Reyes

Thesis: mcr-gene in *Salmonella* and *Enterobacteriaceae* in Food Products, Food Producing Animals, and their Environments in the Dominican Republic

FORENSIC SCIENCE

Caitlin Marie Cranston

Thesis: Bugs and Drugs: Ketamine Detection from Necrophagous Insects Using Gas Chromatography-Mass Spectrometry

Kathryn Grace Ganley

Tyler Richardson

GEOGRAPHY

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Kurt Michael Callegari

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Haylie Danelle Hicks

Cameron Potratz

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Britton Cale Simpson

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Mary Jenise Maeker Torbert

INTERDISCIPLINARY STUDIES

Janay Kristen Blevins

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Lisa Mae Huntsman-Fox

Loryn Lindsey Lopez

Julia Elizabeth Montoya

Holly Erin Ready

Nikko Leand M. Valdez

Tenisha Roshea Woodard

KINESIOLOGY

Shelby Louise Armstrong

Zachary Grabovic

Lucas James Sosebee

MATHEMATICS

Saba Nafees

Thesis: Analytical Mathematics & Machine Learning - A Hybrid Approach to Deciphering Patterns in Genomic Data

Bobbie Leeann Nettle

Thesis: Dynamics of the Light Driven Evolutionary Models with Chemotaxis

NUTRITION AND DIETETICS

Kayli Brooke Bass

Hannah Grace Bruno

Allison Grier Carroll

Garey Stephen Compston, Jr.

Erin Elizabeth Elliott

Kacey Lee Haycox

Blair J. Hayes

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Katelyn Adriana Holston

Ryan Edward McElfresh

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Shavonne Enid Morrison

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Wendy Valencia

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Sherry Yee Tang

David Austin Young

GRADUATE CANDIDATES

PHYSICS

Zachary Monroe Brown
Sayani Ghosh

PLANT AND SOIL SCIENCE

Kamalpreet Kaur Dhillon
Thesis: Cloning and Characterization of Sorghum Bicolor Redroot Mutant Candidate Genes
Mark Douglas Mayo
Thesis: Estimating Cotton Yield in Breeder Plots Using Unmanned Aerial Vehicle (UAV) Imagery
Grace Flusche Ogden
Thesis: The Influence of Glufosinate in Auxinic-Based Herbicide Systems
Ved Parkash
Thesis: Production of Cucumber under Deficit Irrigation and Eggplant under Salinity Stress: Assessment of Physiology, Growth, Yield and Water Use Efficiency
Randy Lee Riddle
Pradip Sapkota
Thesis: Evaluation of Breeding Populations of Guar (*Cyamopsis tetragonoloba L.*) for Profitable Production in the Southwestern United States
Manavi Singh

SPORT MANAGEMENT

Muhammad Diop
Kathryn May Keenan
James Edison Rhodes

STATISTICS

Devage Dona Dulanjalee Damitha Karunaratne
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Hettiarachchige Sithma Sineka Pinto
Jayawardena
Lingjuan Qi
Kusal Chiranthath Rathnayake Mudiyansele
Jennifer Dana Wang
Thesis: A Comparison of Computation Time for Sequential Normal Scores with Other Nonparametric Statistical Process Control Methods

WILDLIFE, AQUATIC, AND WILDLANDS SCIENCE AND MANAGEMENT

Brett Ryan Andersen
Thesis: Influences of Habitat and Temperature on Winter Bat Assemblages
KR Vedolich
Thesis: Small Mammal Response to Weather and Vegetation Structure in an Isolated Rangeland

MASTER OF SCIENCE IN ACCOUNTING

Aaron Aguilar
Kaila Lorraine Beach
Diandria K. Carter
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Ashleigh Ann Jimenez
Mallory Leone Langseth
Kelly Renee Larimore

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Jaymie Michelle Newman
Prakrity Rimal
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Cody Shelton
Suzanne Ahmed Shoukfeh
Kinsey Christina Thomas
Jordan Andrew Wilson
Joshua Michael Wilson

MASTER OF SCIENCE IN CHEMICAL ENGINEERING

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Nishat Anjum
Xu Liu
Thesis: A Study of the Layer-By-Layer Films with Properties of Self-Healing and UV-Protection
Aditya Avinash Pore
David Nana Sonko Sackey
Grace Tambe Matsinkou
James Robert Tata

MASTER OF SCIENCE IN CIVIL ENGINEERING

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Mohamad El Samad
Christian David Harkins
Thesis: Development and Standalone Testing of a Gravity Dependent Biological Reactor
Joseph John
Solome Magambo Nakaweesa
Shantanu Shivaji Nalawade
Ryan David Oldigs
Samantha Dale Pagaran Rubin
Sumit Shrestha
Daniel Ryan Sweeney
Vaishnavi Sudhamaalya V
Rony Efrain Villanueva Cornejo

MASTER OF SCIENCE IN ELECTRICAL ENGINEERING

Ivan Alexander Aponte
Thesis: A Fundamental Study of DC/RF Breakdown and Corona of Atmospheric Air
Rupa Vani Battula
William Brooks
Thesis: Modeling and Assessment of Lighting Attachment Probabilities to Building Structures
David Felipe D'Croz Barón
Ryan James Lee
Thesis: Thermal Analysis of Skidding Energetic Materials
Everett Edward McArthur
Cesar Augusto Negri

Adnan Ahsan Shibib
Thesis: Development of Reconfigurable Metamaterial Terahertz Filters by Selective Optical Pumping of Vanadium Dioxide

MASTER OF SCIENCE IN INDUSTRIAL ENGINEERING

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MASTER OF SCIENCE IN MECHANICAL ENGINEERING

Iván Stuart Foster
Nitish Nagesh Kulkarni
Thesis: Probabilistic Analysis and Validation of 3D Printed Cubic Lattices
Chukwuemeka Nelson Nwauche
Thesis: Diagnostics of Rolling Element Bearing Using Transfer Learning
Mercy Akinyi Ombogo
Thesis: Prediction of Wear in the Acetabular Component of Hip Implants

MASTER OF SCIENCE IN PETROLEUM ENGINEERING

Abdullahi Maikanti Baru
Bryce Charles Durant
Junnan Ma
Thesis: History Matching for Reservoir Simulation by Use of Semi-Automatic Iteration Sample Method
Esan Shoostari

MASTER OF SCIENCE IN SOFTWARE ENGINEERING

Innocent Nwaukwa

MASTER OF SCIENCE IN SYSTEMS AND ENGINEERING MANAGEMENT

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Camila Marina Da Silva Marques
Max Christopher Dreager

PROFESSIONAL SCIENCE MASTERS

ENVIRONMENTAL SUSTAINABILITY

Andrew Phillip Aliyas
Garry Don Moore

CANDIDATES FOR UNDERGRADUATE DEGREES

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

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



College of Agricultural Sciences & Natural Resources

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Jace Tristan Browning
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2nd Major: History
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Elisa Noelle Garza-Lopez
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2nd Major: Political Science
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2nd Major: Political Science
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 Meghan Elizabeth Velardez
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 James Allen Raines
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 Mystery Kyndra Joy Needham
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 Lillian Marie Smith-Gentry
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 Alexis Jordan Valencia

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2nd Degree: Biology
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2nd Degree: Biology
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2nd Degree: Civil Engineering
 Tayla Maria Karkabi³
 Abigail Sussana Portocarrero
 Christy Lou Robinson¹

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 Kera Cené Miller
 Caroline Jane Ramsey¹
 Emily Paige Robertson

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 Payton Brek Hernandez

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Taryn Nicole Simental
Kaylee Brooke Simmons
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Dolores Alejandra Solis
Kaimi Marie Story¹
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McKinley Dawn Thacker
Sophia Tuong Vi Tran^{3,4}
Avery Morgan Tubbs
Kendra Taylor Ray,na Turpin³
Erika Valdez³
Amber Nicole Vela
Marcela Beatriz Villacorta
Cassidi Ann Warren Parrish
Brenna L. Wiles
Arianna Renee Williams
Leisha Anne Womble
Alan Yeh
Laurel Ruth Young
Sandra Yzaguirre Hinojosa

NUTRITION

Kanyinsola Akingbade
Alma Cecilia Arellano
Marielle Bueno
Haley Marie Carter
Sydney Elizabeth Cundiff^{1,4}
Kristina Jo DeVoy
Isabel Elena Dunn³
Julia Noel Guerra
Marina Khan
Tatum Lee McGehee¹
Ashley Rose McGuire³
Abigail Elise Metscher²
Angelica Rose Okinda
Brooke Mackenzie Pohlmeier³
Eileen Rios²
Olivia Ashton Williams⁴

NUTRITIONAL SCIENCES AND DIETETICS

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Gentry Rae Hicks²
Trenidad Lopez³
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Alleigh Morgan Netz²
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Brittany Price
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John Reece Benevides
Joseph Manuel Blankenship
Alan J. Bunn
Mason Thomas Burk
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Rachel Nicole Cormier¹
Logan De Belle
Jane Marie DeLaRosa
Marwa Diab El Arab¹
Erin Abigail Freeman
Conlee Kay Fuqua¹
Samantha Danielle Gomez²
Adrian Javier Gonzalez
Shelby Ann Henderson¹
Paul J. Hensley¹
Alyssa Nicole Love
Dionicio Maldonado
Griffin Boex Marchand
Samuel Wayne Marshall¹
David Scott Mendoza
Neilson Childs Mercer
Andrew Daniel Munoz
William Tucker Rhotenberry
Emily Anne Rogers
Krishnaa Dev Sachdeva
Antowon LeVar Shade
Jared Lev Tobin
Jared Michael Tomsu
Jacob T. Turpen
Heath Michael Warren

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Macie Colene Lilley
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Libby Day Shawver
Sommer Danielle Smith



BACHELOR OF ARTS

ADVERTISING

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Travis B. Barker
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2nd Major: Digital Media & Professional Communication

Ajaya Jamal Burleson
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Dorela Docaj
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Jacob Alviar Gerling¹
Max West Spilsbury Gus¹
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Connor Stuart Jackson
Kristen Michelle King
Benjamin Hayden Kinslow
Haley Kristine Goodman Lawson²
Mildred Daranza Lopez Salazar
Julia Raquel Mata
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Rory James McGowan
Casey Carmen Monteith²
Miranda Sherwood Montwill
Alyssa B. Moreno³
Madeleine Nutt²
Alexandra Grace Patti
Elaine Kathryn Roberson³
Scott James Sadler
Meghan Nicole Scully
Pete Santana Sosa
Alexandra Jesse Stricker
Chandler Reece Swanner
Trevor Marcus Thelander
McKenna Lee Thompson²
Allyssia Michaela Turton¹
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Miguel Vasquez
Logan Matthew Vitela
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McKenzie Griffin Wallis²
Fahim Issa Webber²
Brenna Leigh Williams

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Benjamin Conrad Barton
Chloe Michaela Boden²
Abigail Borunda³
Brianna Lyn Bradshaw
Tristan Richard Butcher
Monica Teresa Canales
Chloe Janai Cavazos
Jeremy A. Cohen
Bailey Rae Cross¹
William Braddock Dawson
Kolby Ryan Donnell²
Alison Ashlee Escalante
Saydie Rose French¹

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Madeline Paige Gorrell
Dawit Berhane Haile
Elliot Thomas Hale
Haley B. Hall
Landry McClellan Harris
Conner James Hess
Preston Chibuikem Ibeneme
Blake Andrew English
James Earl Jensen¹
Robert Parker Killian
Grant Thomas Langford
Clarissa M. Lloyd³
Alicia Liliana Martinez
Madison Montana McCasland
Hannah Grace McReynolds
Austin Jason Meek
Morgan Saron Mendez
Madison Shay Merrick
Devery Layne Orologio
Parker A. Pinnell²
Lauren Myra Powers¹
Jessica Marie Ramos
Alexander James Robinson
Derrius Rodgers
Christopher Charles Starnes²
Weslyn Marie Urquhart
Lexi Michelle Warden
Destiny Mia Williams
Jeffrey Ferrin Williams²
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Mia Daniella Ybarra²

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Nicholas Christopher Bowsher
Emma Corinne Burleson²
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Ryan Cramer
Kiersten Brenna Curtis
Madeline Grace Diffe
Layce Michelle Donnell¹
Tanner Beau Fowler
Jessica Michelle Fuentes
Bradley Noel Garcia³
Austin Rayne Gunnerson
Ryan Max Heller
Alexandra Nicole Humphreys
Reese Bradley Jackson
Eli Gabriel Jiménez³
Rebekah Leigh Latham

Ashley Nia Lewis
James Daniel Loss
Gregory De'von Monday
Brendon Conner Markus
Kyle Matthew Nichols
Tara Itie Okopie
Prince Kwaku Owsu-Yeboah
John Tanner Panagopoulos
Maria Pedraza
2nd Major: Digital Media & Professional Communication

Ciara Taylor Perozzi
Harrison Austin Roberts
Robyn Leslea Rush
Lizeth Salvador
2nd Degree: Human Development and Family Studies
Samantha Elizabeth Seigworth
Eliana Alexis Stern
Hallie Linn Stueckrath
Jarrett Trey Templeton²
Kenny Thien Tran¹
Kevin Adrian Wilcox

DIGITAL MEDIA AND PROFESSIONAL COMMUNICATION

Lexi Peyton Sills

JOURNALISM

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Reece Evan Nations
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Travis Cole Foerster
Felipe Raymundo Garcia
Angelica Gomez
Blake Carson Smallwood
Troy D. Sovern
Reagan Warren
Swade Lee West

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Shane Austin Barnett
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Blake William Duncum
Kaitlin Nicole Dunlap³
Shelton Kyle Dunn
Kaitlyn Jane Eulenfeld
Morgan Nicole Festa³
Preston Wade Gilmore
Eduardo Enrique Gomez Grimaldo
Jaedon Jean Hasbrouck

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

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James Wesley Holderman
Sarah Elizabeth Hopkins³
Max Jeffries Jacoby
Michael Anthony Johnson
Lauren Grace King²
Shelby Lynn Litzkow
Elizabeth Martinez
Shayla Rose Marvin²
Michaela Nicole Maxey²
Allison Anne Naughton
Mackenzie Anne O'Connell
Arieanna Alliah Peters
Amber Chanel Sample³
Alexandria Jane Schalow³
Giovanna G. Sutton³
Anne Carol Swartz
Courtney Lynn Villanueva
Tannor Wayne Walters
Rachel E. Warman¹
Carley Maegan Woods
Marisa Analise Yanez²
Tatum LeAnn Young²



TEXAS TECH UNIVERSITY
University Programs™

BACHELOR OF APPLIED ARTS AND SCIENCES

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Lorie Ann Hernandez
Vickie Velasquez Valdez
Jennifer Lane White²

BACHELOR OF ARTS

UNIVERSITY STUDIES

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Connor Bailey Adkins
Jaime L. Alexander³
Stephanie Ann Baker
Barrett Alexander Barnes
Thurston Ryder Beadle
Katherine Tara Bearden²
Brandon Scott Boatright
Amelia Marin Boettiger
LaKeith Dwain Brown
Isabel Candida Augusto Cabral
Allegra Roane Cantu
Jordan N'chelle Chavez³
Christopher Dao
Tyler Lee Deary
Riley Renee Edmister
Cassidy Belle Edwards²
Yusef Emad
William Joseph Fitzgerald
Kyle Williams Foster
Forrest Will Galloway
Ashley Marie Gayton
Melissa Gonzalez³
Brittany Guill³
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Victoria Michelle Hill
Matthew Alan Holthrop
Brandon Lee Hurley
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Riko Lamar Jeffers
Christian Dylon Lara
Kevin McLane Mannix
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Mason Reed McMeans
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Robert Charles Merrill II
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Debra Marie Mestemaker-Buzby²
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Marron Margaret Nassar
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Jared Matthew Padgett
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Brenda L. Rivera²
Arturo Rodriguez
Colson Michael Romano
Dixon Alexander Santana
William A. Searcy
Samuel Ross Seaver
Ryan Matthew Shetter
Desmon Lee Smith
Dorcas Ore-Oluwa Temil Solarin
Eugene Angelo Tonda
Jason Fraser Travis-Baker
Rey Trevino-Contreras
Brittany Lynn Truitt
Kyle Christopher Vigue
Bileili Villegas
Richard Edward Walker, Jr.
Florian Federico Willfort
Dwuane Emanuel Winningham

BACHELOR OF SCIENCE

UNIVERSITY STUDIES

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Shahpar Ishrat Binta
Conner Austen Eades
Jonathan Garrett Farrow³
Peyton Shea Goar
John Carlos Hernandez
Aubrey Leigh Lerma
Haylee Jade Mosley
Baxter Angstrom Moss³
Jose Lucas Romero
Chase Lain Thorpe
Tariq J'coreyan Vasher
Austin Allan Vaughn
Lauren Nicole Wagner



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

BACHELOR OF ARTS

DANCE

Destanie D'Ette Davidson
Genevieve Mishell Suarez

INTERDISCIPLINARY ARTS STUDIES

Jason Scott Dendy
2nd Degree: Computer Science
Ashley Marie Room
Li De Yu

MUSIC

Amy Michelle McPherson²

THEATRE ARTS

Kathleen Reagan Grimsley

BACHELOR OF FINE ARTS

ART

Zoe Elizabeth Fuqua
Samantha Raquel Garcia
Laura Avery Hopperdietzel
Patrick Ngugi Kamau³
Anna Christina Lovering
2nd Degree: English
Zachary Larenz Ochoa
Nathaniel Aaron Parodi
Lora L. Plaster¹
Kassidy Ann Price
Amanda Lee Spearman
Thomas St. Clair
Danna Simone Williams

THEATRE ARTS

AnnaRuth Aaron-DeSpain³
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BACHELOR OF MUSIC

Jeremy Nicholas Brown²
Troy Landry Chester
Kathryn Elizabeth Cogar¹
Mariann Williams Davidson¹
Miranda Joy de Bruin²
Megan D Deisher²
Erin Lea Espinoza²
Madison Lee Fanning¹
Daniel Colin Finley³
Jonathan Fortson
Armando Fuerte
Daniel Golan¹
Eric B. Goodheer²
Sarahlinna Nikole Guerrero²
Tyler Ryan Harris
Kaleigh Nicole Jackson¹
Brennan Gray Lowrey²
Connor Thomas MacAllister²
Nicole Yanin Magallón
Victoria Carleen McElhinney¹
Caitlin Margaret Michelson²
Marisol Montañez²
Antonio J. Musella-Gonzales
Jamie Nicole Nielson¹
Rachel Ashley Perkins³
Misael Pineda
Rebecca Michelle Pollock
Brennan Kenneth Ross¹
Ashley Marie Sanchez
Caleb Santacruz²
Vinicius Albuquerque Santana¹
Kristen Grace Shuman¹
Spencer McCulloch Tripp

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TEXAS TECH TRADITIONS

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

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



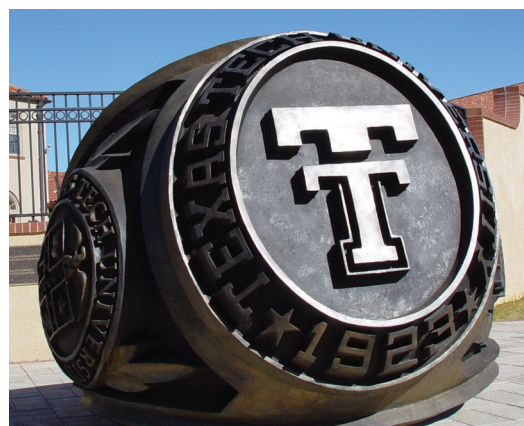
Raider Red or the Masked Rider?

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



The Texas Tech Class Ring

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



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



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.

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.

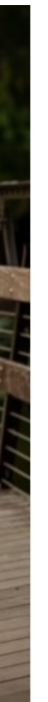
Agricultural Sciences & Natural Resources | Green
 Architecture | White and Gold
 Arts & Sciences | Royal Blue
 Business Administration | Royal Blue and Gold
 Education | Jade Green and Violet
 Engineering | Orange
 Honors | Honors Medallion
 Human Sciences | Maroon
 Media & Communication | Crimson
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

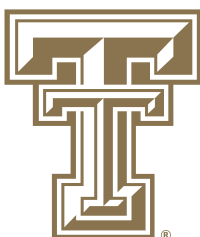


UNDERGRADUATE ROBE: A red stole displaying the Double T and seal of Texas Tech University distinguishes students receiving baccalaureate degrees. Degree candidates wearing red cords will graduate with honors designations based on a minimum 3.5 GPA.

Texas Tech University's December 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