

Commencement

FALL 2019

Lubbock, Texas

December 13-14





TEXAS TECH UNIVERSITY®

FALL 2019

Commencement

Friday, December 13, 2019
Saturday, December 14, 2019
UNITED SUPERMARKETS ARENA

2:30 p.m. and 7:30 p.m.
9:00 a.m. and 1:30 p.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 of Animal and Food Sciences*

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Professor of Chemistry*

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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*

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*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.

*Interim Dean, College of Human Sciences;
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*Dean, J.T. & Margaret Talkington
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Professor of Music*

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

AL SACCO, JR., Ph.D.

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*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.

COMMENCEMENT CEREMONY

Friday, December 13, 2019
2:30 p.m.

Presiding	Dr. Lawrence Schovanec <i>President, Texas Tech University</i>
Processional*	Texas Tech Commencement Band <i>Dr. Sarah McKoin, Conductor</i>
National Anthem	Mr. William Henrik Zetterstrom <i>Graduating with a Bachelor of Music</i>
Welcoming Remarks	Mr. J. Michael Lewis <i>Vice Chairman, Board of Regents, Texas Tech University System</i>
Introduction of Commencement Speaker	Dr. Lawrence Schovanec
Commencement Address	Mr. Chris Snead <i>Vice President of Operations of the Texas Tech University Alumni Association</i>
Conferring of Degrees	Dr. Lawrence Schovanec Dr. Michael Galyean <i>Provost and Senior Vice President</i>
Presentation of Bachelor's Degree Candidates	Dr. Stefanie Borst <i>Associate Academic Dean, College of Arts & Sciences</i> Dr. Jesse Perez Mendez <i>Dean, College of Education</i> Dr. Noel Zahler <i>Dean, J.T. & Margaret Talkington College of Visual & Performing Arts</i>
Recognition of Outstanding Students Class of 2019	Dr. Michael Galyean
Charge to the Graduates	Dr. Lawrence Schovanec
Alma Mater <i>(Words on Back Cover)</i>	Ms. Kameryn Reese Mattingly <i>Graduating with a Bachelor of Music</i>
Recessional*	Texas Tech Commencement Band

** Please remain seated during the Processional and Recessional*

COMMENCEMENT CEREMONY

Friday, December 13, 2019
7:30 p.m.

Presiding	Dr. Lawrence Schovanec <i>President, Texas Tech University</i>
Processional*	Texas Tech Commencement Band <i>Dr. Sarah McKoin, Conductor</i>
National Anthem	Mr. Jarrett Nolan Hatcher <i>Graduating with a Bachelor of Music</i>
Welcoming Remarks	Ms. Ginger Kerrick <i>Board of Regents, Texas Tech University System</i>
Introduction of Commencement Speaker	Dr. Lawrence Schovanec
Commencement Address	Mr. Chris Snead <i>Vice President of Operations of the Texas Tech University Alumni Association</i>
Conferring of Degrees	Dr. Lawrence Schovanec Dr. Michael Galyean <i>Provost and Senior Vice President</i>
Presentation of Doctoral and Master's Degree Candidates	Dr. Mark Sheridan <i>Vice Provost for Graduate and Postdoctoral Affairs; Dean, Graduate School</i>
Recognition of Outstanding Students Class of 2019	Dr. Michael Galyean
Charge to the Graduates	Dr. Lawrence Schovanec
Alma Mater <i>(Words on Back Cover)</i>	Mr. Jarrett Nolan Hatcher <i>Graduating with a Bachelor of Music</i>
Recessional*	Texas Tech Commencement Band

** Please remain seated during the Processional and Recessional*

COMMENCEMENT CEREMONY

Saturday, December 14, 2019

9:00 a.m.

Presiding	Dr. Lawrence Schovanec <i>President, Texas Tech University</i>
Processional*	Texas Tech Commencement Band <i>Dr. Sarah McKoin, Conductor</i>
National Anthem	Mr. William Henrik Zetterstrom <i>Graduating with a Bachelor of Music</i>
Welcoming Remarks	Mr. Christopher Huckabee <i>Chairman, Board of Regents, Texas Tech University System</i>
Introduction of Commencement Speaker	Dr. Lawrence Schovanec
Commencement Address	Mr. Tom Stone <i>Head Coach for TTU Soccer</i>
Conferring of Degrees	Dr. Lawrence Schovanec Dr. Michael Galyean <i>Provost and Senior Vice President</i>
Presentation of Bachelor's Degree Candidates	Dr. Nurcan Bac <i>Senior Associate Academic Dean, Edward E. Whitacre, Jr. College of Engineering</i> Prof. Mitzi Lauderdale <i>Associate Academic Dean, College of Human Sciences</i> Dr. Patrick Hughes <i>(presenting University Studies and Wind Energy degrees) Vice Provost for University Programs and Student Success</i>
Recognition of Outstanding Students Class of 2019	Dr. Michael Galyean
Charge to the Graduates	Dr. Lawrence Schovanec
Alma Mater <i>(Words on Back Cover)</i>	Mr. Jarrett Nolan Hatcher <i>Graduating with a Bachelor of Music</i>
Recessional*	Texas Tech Commencement Band

** Please remain seated during the Processional and Recessional*

COMMENCEMENT CEREMONY

Saturday, December 14, 2019
1:30 p.m.

Presiding	Dr. Lawrence Schovanec <i>President, Texas Tech University</i>
Processional*	Texas Tech Commencement Band <i>Dr. Sarah McKoin, Conductor</i>
National Anthem	Mr. William Henrik Zetterstrom <i>Graduating with a Bachelor of Music</i>
Welcoming Remarks	Mr. J. Michael Lewis <i>Vice Chairman, Board of Regents, Texas Tech University System</i>
Introduction of Commencement Speaker	Dr. Lawrence Schovanec
Commencement Address	Mr. Tom Stone <i>Head Coach for TTU Soccer</i>
Conferring of Degrees	Dr. Lawrence Schovanec Dr. Michael Galyean <i>Provost and Senior Vice President</i>
Presentation of Bachelor's Degree Candidates	Dr. Margaret Williams <i>Dean, Jerry S. Rawls College of Business Administration</i> Prof. Jim Williamson <i>Dean, College of Architecture</i> Dr. David Perlmutter <i>Dean, College of Media & Communication</i> Dr. William Brown <i>Dean, College of Agricultural Sciences & Natural Resources</i>
Recognition of Outstanding Students Class of 2019	Dr. Michael Galyean
Charge to the Graduates	Dr. Lawrence Schovanec
Alma Mater <i>(Words on Back Cover)</i>	Mr. Jarrett Nolan Hatcher <i>Graduating with a Bachelor of Music</i>
Recessional*	Texas Tech Commencement Band

** Please remain seated during the Processional and Recessional*



Christopher Snead is the Vice President of Operations for the Texas Tech Alumni Association where he has been employed for over 20 years. He is a 1995 graduate of Texas Tech University with a bachelor's degree in technical communication. He also serves as the Vice Chairman of the College Baseball Foundation and on the boards of Fellowship of Christian Athletes. Snead has been publicly recognized for his dedicated service to Texas Tech. In 2017, he received the "Pursuit of Excellence" award from the Office of Transition and Engagement, and in 2016, he was tabbed with the "Inclusive Excellence" award from the Office of Diversity and Community Engagement. He is recognized at Texas Tech as an honorary varsity letter winner in baseball, an honorary Saddle Tramp, and a member of the Matador Society.

Most notably, Mr. Snead is a football official in the Southeastern Conference where he has been selected to work multiple post season assignments, including the SEC Championship games in 2016 and 2018, the Rose Bowl and College Football Playoff Semifinal in 2015, and the Orange Bowl in 2017. In 2016, the National Football Foundation named him the Outstanding Official of the year.

Snead is a distinguished alumnus of Alpha Kappa Psi Professional Business Fraternity as well as J.M. Hanks High School in El Paso, Texas. He has been recognized by the Young Professionals of Greater Lubbock, Inc. as one of Lubbock's Top 20 Professionals Under 40 and was also tabbed a National Education Alumni Trust Scholar. He was named a Paul Harris Fellow by Rotary International, and he is the author of the critically acclaimed book, *The Bleacher Bible*.



Tom Stone was named the fourth head coach in Texas Tech soccer history on May 25, 2007. Prior to his arrival at Texas Tech, the team had a record of 6-63-1 in Big 12 play and had gone 0-10-0 in conference four of the previous six seasons. In Stone's first year and a half as coach, the team quickly matched that win total, going 6-5-1 in conference play. In 2010, the Red Raiders went 11-8-1, marking the program's third-ever winning record and first in 15 seasons. Two years later, the Red Raiders made the NCAA Tournament for the first time in program history. In 2013, the Red Raiders made another appearance in the second round after recording a program-record 18 wins. In 2014, Stone's squad won 16 games and climbed as high as sixth in the national coaches' polls before advancing to the program's first-ever Sweet Sixteen. For the breakout campaign, he was named the NSCAA Central Region Coach of the Year.

In 2015, the Red Raiders won their first-ever Big 12 Championship, defeating Kansas 1-0. The year also saw Stone pick up his 100th win at the helm of the Red Raider program when the team beat South Florida 2-1. The Red Raiders went .500 the following two seasons, and in 2018 went 14-5-3, beating a program-record four ranked opponents and leading the nation in shutouts with 14 in the process. As of 2018, Stone has led Texas Tech to the NCAA Tournament in six of the last seven seasons.

Stone was named an All-American soccer player in high school and then went on to play for Duke from 1984-1987. He was a three-time First Team All-ACC selection, picking up the honors his freshman, junior, and senior seasons. Stone's breakout year came in 1986 as a junior when he tallied 16 goals, the second-most in a season in program history. He also assisted on four goals to bring his points total to 36, the ninth-most in program history.

Stone's first coaching job was as a part-time assistant at the University of Denver in 1996 and as a volunteer assistant at Duke in 1997. Then, from 1997-2000, Stone coached girls' soccer for the Colorado Rush youth soccer club. Under his leadership, the team won 35 state cups, 12 regional championships, and eight national championships. He left the Rush to coach professionally in the Women's United Soccer Association. He led the Atlanta Beat to the league's inaugural championship game, losing in overtime to the Bay Area CyberRays.

Stone returned to college coaching in 2006 when he was hired as an assistant for the Clemson Tigers. He spent one year there, helping the Tigers to an 11-8-4 record and an appearance in the Elite Eight of the NCAA Tournament.

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
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Dr. Catherine Jai
Mr. Jesse Jou
Ms. Jessica Kirschner
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Dr. Jonathan Marks
Dr. Barent McCool
Ms. Sheon Montgomery
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Dr. Michelle Pearson
Ms. Gabi Perez-Hunt
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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

MUSIC ENSEMBLE

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

COLLEGE READERS

College of Agricultural Sciences & Natural Resources – Dr. Erica Irlbeck
College of Architecture – Mr. David Isern
College of Arts & Sciences – Dr. Jorge Iber and Dr. David Roach
Rawls College of Business Administration – Mr. Derrick Ginter
College of Education – Dr. Kathryn Button
Whitacre, Jr. College of Engineering – Dr. Ting Lin
Graduate School – Dr. Bill Gelber and Dr. Erica Irlbeck
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. Dorothy Chansky

ADMINISTRATIVE REPRESENTATIVES

College of Agricultural Sciences & Natural Resources – Ms. Macie Reese
College of Architecture – Ms. Amy Peterman
College of Arts & Sciences – Ms. Kymberli Saldaña
Rawls College of Business Administration – Ms. Geleah Sharp
College of Education – Ms. Karen Noles
Whitacre, Jr. College of Engineering – Ms. Tonette Rittenberry
Graduate School – Ms. 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

PROGRAM

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

STUDENT BANNER BEARERS

College of Agricultural Sciences & Natural Resources – Ms. Alyssa Soles
College of Architecture – Mr. Amir Halabi
College of Arts & Sciences – Ms. Alyssa Patterson
Rawls College of Business Administration – Mr. Juan Duque
College of Education – Ms. Erica D. Mayo
Whitacre, Jr. College of Engineering – Mr. Khang Huynh
Graduate School – Ms. Jen Hewitt
College of Human Sciences – Ms. Presley McNeely
Honors College
2:30 p.m. – Mr. Corey McDonald
9:00 a.m. – Mr. Vincent Dela Cruz
1:30 p.m. – Ms. Cassidy Williams
College of Media & Communication – Ms. Bailey Johnson
University Programs – Ms. Sarah Dishongh
Talkington College of Visual & Performing Arts – Ms. Ann Sikes

FACULTY BANNER BEARERS

2:30 p.m. – William "Bill" Westney, Ph.D.
Paul Whitfield Horn Professor of Music, Talkington College of Visual & Performing Arts
7:30 p.m. – Doug Smith, Ph.D.
Associate Professor of Couple, Marriage, and Family Therapy, College of Human Sciences
9:00 a.m. – Barent (Barry) McCool, Ph.D.
Associate Professor in Restaurant, Hotel, and Institutional Management
1:30 p.m. – Jaeki Song, Ph.D.
Area Coordinator and Professor of Management Information Systems, Jerry S. Rawls College of Business Administration

LIBRARY BANNER BEARERS

2:30 p.m. – Ms. Barbara McArthur
9:00 a.m. – Ms. Laura Heinz
1:30 p.m. – Ms. Shelley Barba

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

PRESIDENTIAL MACE

CROWNED BY A FLAME symbolizing the Light of Knowledge, the Texas Tech University Presidential Mace is the symbolic staff of the power and authority of the university. It is constructed of lathed and molded bronze that has been rubbed with a layer of 24K gold. The school crest is presented on either side directly under the flame. Hand-rubbed black walnut has been used for the connecting shafts. The mace was designed by Professor Robly A. Glover in the School of Art. Professor Glover's artwork is on display throughout the United States and included in the permanent collections of the Art Institute of Chicago, The Yale Silver Collection, and the Victoria and Albert Museum in London.

MACE BEARERS



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

Graduate School Ceremony

7:30 P.M., DECEMBER 13 KAJ GITTINGS, PH.D.
*Associate Professor of Economics
College of Arts & Sciences*

Undergraduate Ceremonies

2:30 P.M., DECEMBER 13 JON MCNAUGHTAN, PH.D.
*Assistant Professor of Educational Psychology and Leadership
College of Education*

9:00 A.M., DECEMBER 14 KURT CASWELL, M.F.A.
*Professor and Director of Honors Arts and Letters
Honors College*

1:30 P.M., DECEMBER 14 SAMUEL JACKSON, PH.D.
*Associate Professor of Animal and Food Sciences
College of Agricultural Sciences & Natural Resources*

GRADUATION HONORS

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

Juan Francisco Alvarez
Kurt Michael Callegari
Abigayle Elizabeth Chase
Matthias Andrew Contreras
Hannah Leigh Decker
Sarah Elizabeth Dishongh
Ashley Nicole Elliott
Robin Marie Elliott
Hemra Esenyayzov

Hannah M. Estes
Andrew Don Fields
Isabelle Simone Geoffrion
Jean-Christian A. Guiton
Sherri Ann Halsted
Joshua Eli Harvill
Sarah Elizabeth Hirsch
Khang Huynh
Stephanie Paige Kuzmack

Ayla Lucille Lopez
Ash Malhotra
Jennifer Anna-Marie Martin
Erica D. Mayo
Presley Kate McNeely
Alyssa Victoria Patterson
Cole Thomas Perkins
Karlee Arlene Roach
Nicole Noelle Rochelle

Yana Romo
Alexia Sawyer
Alyssa Paige Soles
Kelsie Lee Tackitt
Bailee Nichole Tanguma
Emily Noelle Wade
Haven Day Middleton Walker
Amber Nicole Wallace
Michael Austin Willis

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

Danny Lee Johnston

Dissertation: Relationships of Instructional Faculty of Agricultural Educator Teacher Preparation Programs of Organizational Culture and Selected Outcome Measures and Employee Characteristics

Major Professor: Steven Frazee

EDUCATIONAL LEADERSHIP

Jessica Mase Parker

Dissertation: Improving Teaching and Learning: A Case Study of a Rural Texas Elementary School's Implementation of Professional Learning Communities and Culturally Responsive Pedagogical Practices

Major Professor: Irma Almager

HIGHER EDUCATION ADMINISTRATION

Richard A. Haas

Dissertation: Graduate Student Perceptions of Barriers to Bystander Engagement in Settings where College Students are at Risk of Sexual Assault

Major Professor: Stephanie J. Jones

DOCTOR OF PHILOSOPHY

AGRICULTURAL AND APPLIED ECONOMICS

Anthony Mwangi Macharia

Dissertation: Essays on Small Holder Irrigation and Mango Production in Kenya

Major Professor: Carlos Carpio

Patrick Kibet Rono

Dissertation: Essays on Household Food Security Among Smallholder Farmers and Pastoralists in Kenya

Major Professor: Shaikh M. Rahman

Mumina Guyo Shibia

Dissertation: Essays on the Mechanism and Effects of the Vegetation Index-Based Livestock Insurance for Pastoral Household in Northern Kenya

Major Professor: Shaikh M. Rahman

AGRICULTURAL COMMUNICATION AND EDUCATION

Peng Lu

Dissertation: Critical Thinking Attitude: An Exploratory of a Critical Thinking Construct

Major Professor: Scott Burris

ANIMAL SCIENCE

Katelyn Ortega Bennett

Dissertation: Phenotypic and Genotypic Characterization of Persistent and Transient L. monocytogenes Strains to Elucidate Mechanisms of Survival in the Food Processing Plant Environment and Impact on Virulence

Major Professor: Kendra K. Nightingale

Jonathan Charles DeClerck

Dissertation: Investigating Thin Beef Cull Cow Realimentation Strategies

Major Professor: Ryan J. Rathmann

Andrea Renea English

Dissertation: Mitigation of Antimicrobial Drug Resistance and Changes in the Microbiome of Feedlot Cattle Supplemented with *Lactobacillus salivarius* L28 as an Alternative to Sub-Therapeutic Antibiotics

Major Professor: Marcos X. Sanchez-Plata

Keelyn Elizabeth Hanlon

Dissertation: Evaluation of the Fresh Beef Bacterial Community through Processing and Retail Display Conditions using 16s rRNA Gene Amplification Sequencing

Major Professors: Mark F. Miller and Mindy M. Brashears

Ashley Renee Lembke

Dissertation: Comparison of a Manual Boneless Beef Trim Sampling Method to Traditional N60 Plus Sampler™ and N60 Excision Sampling

Major Professor: J. Chance Brooks

Loni Woolley Lucherk

Dissertation: Palatability of Grass-Finished and Grain-Finished Beef Strip Loin Steaks of Varying Intramuscular Fat Levels and Wet Aging Treatments

Major Professor: Mark F. Miller

BIOLOGY

Pooya Aavani

Dissertation: A New Theoretical Treatment of Pathogen and Host Evolution

Major Professor: Sean H. Rice

Lucas James Heintzman

Dissertation: Past, Present and Future Landscape Changes in the Southern Great Plains: Effects of Urbanization and Energy Extraction on the Playa Network

Major Professor: Nancy E. McIntyre

Neha Kumari

Dissertation: The Effect of Abiotic Interactions on *Prymnesium parvum* and its Microbiome

Major Professor: John Zak

CHEMICAL ENGINEERING

Samira Abedi

Dissertation: Microfluidic Study of the Dynamics of Crystal Nucleation and Partial Coalescence in Mono-disperse Two-dimensional Oil-in-water Emulsions

Major Professor: Chau-Chyun Chen

Rozana Bari

Dissertation: Calorimetric Characterization of Energetics and Amorphous Materials

Major Professor: Sindee L. Simon

Jennifer Erin Hewitt

Dissertation: Development of *Cuenorhabditis elegans* as a Model Organism for Duchenne Muscular Dystrophy using a Novel Multi-environment Phenotyping Framework

Major Professor: Siva Vanapalli

Harnoor Kaur

Dissertation: Local Composition Activity Coefficient Models for Mixed-Gas and Liquid Adsorption Equilibria

Major Professor: Chau-Chyun Chen

Yong Joon Lee

Dissertation: Solid-State Phase Transition Kinetics of Organic Molecules with the Application of AFM

Major Professor: Brandon L. Weeks

Qi Li

Dissertation: Micro-Rheological Investigations of Colloidal Systems

Major Professor: Gregory B. McKenna

Evelyn Lopez

Dissertation: Glass Transition Temperature and Reaction Kinetics of Cyanurates in Bulk and Under Confinement and Signatures of Structural Recovery of Polystyrene

Major Professor: Sindee L. Simon

Madhusudhan Reddy Pallaka

Dissertation: Calorimetric Characterization of Nanoconfined Melts, Glasses and Reactive Monomers

Major Professor: Sindee L. Simon

Mohammed Mustafizur Rahman

Dissertation: Dehydroaromatization of Methane Over ZSM-5 Supported Molybdenum Carbide Catalysts

Major Professor: Sheima Khatib

Sheik Mohammed Saeed Tanveer

Dissertation: Thermodynamic Models for Major Electrolytes and Swelling of Hydrogels in High Salinity Produced Water

Major Professor: Chau-Chyun Chen

CHEMISTRY

Miranda Crawford Andrews

Dissertation: Computational, Synthetic, and Spectroscopic Investigations of Molecular Switches, their Effects on Pendant Groups, and their Abilities to Form and Affect Measurable Changes in Supramolecular Assemblies

Major Professor: Anthony F. Cozzolino

Patrick Jordan Larson

Dissertation: Catalysis in Metal-organic Frameworks Using Pendant and Linker Hydroxyl Sites

Major Professor: Anthony F. Cozzolino

Ying Liang

Dissertation: Vibrational Spectroscopy in the Study of Ionomer Material Properties

Major Professor: Carol Korzeniewski

Nadeesha Jayani Silva

Dissertation: Molecular Electronic Properties and Inter-Molecular Interactions in Various Polymers

Major Professor: Clemens Krempner

Jingfu Zhao

Dissertation: Sensitive Analysis of Proteins and Glycoproteins Derived from Biological Samples: Quantitative Proteomics and Glycoproteomics by LC-MS/MS

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Junxuan Zhao

Dissertation: Exploring the Fundamentals of Using Infrastructure-based LiDAR Sensors to Develop Connected Intersections

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COMPUTER SCIENCE

Vibhuti Gupta

Dissertation: Big Data Stream Analytics with AI Techniques

Major Professor: Rattikorn Hewett

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Stephanie Anne Van Horn

Dissertation: The Criminogenic Needs of Female Offenders: Relationships between Criminal Risk Factors and Recidivism

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Dissertation: The Relational Experiences of International Students at a Large University in the Southwest Region in the United States

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COUPLE, MARRIAGE, AND FAMILY THERAPY

Megan Ruth Story Chavez

Dissertation: Integrated Behavioral Healthcare: Formative Program Evaluations of Training Activities

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CURRICULUM AND INSTRUCTION

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Dissertation: Nontraditional Students' Perceptions of Autonomous Learning and Factors Influencing Their Learning in Developmental Mathematics Courses

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Dissertation: A Comparative Case Study of 21st Century Focused Professional Development (PD) Embedded within Biology Professional Learning Communities (PLCs) Among Three High Schools in a Single School District

Major Professor: Rebecca Hite

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Dissertation: Exploring the Multiple Goals and Challenges Related to Enacting a Model of Project-Based STEM Education in One District: Perspectives of Teachers and Administrators
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Mitchell Dwain Kelley

Dissertation: Design and Simulation of a Fuel Cell Power Plant with Dynamic Multi-Unit Load Sharing in Grid-connected and Grid-isolated Modes of Operation
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Zhenyu Sun

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Major Professors: Hongxing Jiang and Jingyu Lin

ENVIRONMENTAL TOXICOLOGY

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EXPERIMENTAL PSYCHOLOGY

Francesco Vincenzo Donato

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Mindi Mozell Price

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Dissertation: Visual Search Characteristics When Using a Navigation System Focusing on Driver Age, Display Size and Environmental Illumination

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Dissertation: Sit-stand Unit Use for Employee Health in Higher Education Environments

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

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Dissertation: Independent Video Games and the Games 'Indiestry' Spectrum: Dissecting the Online Discourse of Independent Game Developers in Industry Culture

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Dissertation: Assessing Gatekeeping Factors and Jurist and Journalist Perceptions of Gatekeeping and Framing in Media Coverage of the Texas High Courts

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NUTRITIONAL SCIENCES

Md Akheruzzaman

Dissertation: E4orf1, A Novel Adenovirus Derived Protein to Improve Diabetes and to Reduce Liver Fat

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Dissertation: Role of Adipose Renin-Angiotensin System Inhibition and Omega-3 Fatty Acids in Obesity and Breast Cancer Crosstalk

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Srikanth Tangirala

Dissertation: Experimental Study of the Impact of Frac Fluid Invasion and Mitigation of Formation Damage using Surfactants in Conventional and Tight Formations

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Dissertation: Fabrication and Study of Electrochemical, Mechanical and Tribological Properties of Al Alloys Coatings by Cold Spraying

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Dissertation: The Impact of Receipt of Social Security Supplemental Income on Vocational Rehabilitation Closure Status for Transitional-aged Youth

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Dissertation: Detecting the Long-term Frequency of Large-scale Wind Power Ramp Events Observed in ERCOT's Aggregated Wind Power Time-series Data

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Dissertation: Wind Plant Optimization Opportunities Based on Scanning-based Measurements and Advanced Measurement Analysis Techniques

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Thesis: A Critical Examination of Sensation and Public Memory
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Thesis: Watchman Nee, His Teaching, and the Imagined Influence of Chinese Context
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Yazmine Patricia Huizar
Thesis: Early Life and Genetic Associations of Adult Metabolic Dysregulation
Michael Vitro

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Thesis: Causes and Consequences of Rohingya Refugee Crisis: A Case of Doubly Alienated People
Janice Julia De Leon
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Thesis: Sibling Abuse: The Role of Familial Intervention and Its Effects on Familial Contact

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ART

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 Dillon Chase Rouse
Thesis: Another Tale in the Depot District: The Development Process for Shame on Me

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 Franklin Wilson Lacey
Thesis: Composing with a Crowd: Harnessing the Energy of Collaboration
 Pablo Seguel Ponce
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Thesis: Entering the Bal: Strategies of Adoption in a North American Elective Folk-Dance Community

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 Camila Marin Melo
 Tracie Allyson Kiyomi Pettus
 Melissa D'anne Sullinger

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AGRICULTURAL AND APPLIED ECONOMICS

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 Rok Novak
 Ted Robinson Woolsey
Thesis: Investigating U.S. Breast Cancer Mortality Rates Using Big Data
 Daniel Sánchez-Piñol Yulee

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Thesis: Chew on This: Investigating Public Perceptions of Lab Grown Meat
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Thesis: An Analysis of Consumer Perceptions, Attitudes, Visual Attention Allocation, and Willingness to Pay for Clean Label Food Items

AGRICULTURAL EDUCATION

Hunter Coen Parrott
 Ashley Dawn Semler
Thesis: Students' Perceptions of Problem-Based Learning in Undergraduate Courses

ANIMAL SCIENCE

Danielle Lisa Evers
Thesis: The Effects of Diet and Aging of Australian Longissimus Lumborum on Beef Flavor
 Sebastian Edoardo Mejia Turcios
Thesis: Effects of Bismuth Subsalicylate and Encapsulated Calcium-Ammonium Nitrate on Feedlot Beef Cattle Production
 Karla Melissa Rodriguez Flores
Thesis: Lethality and Post-Package Pasteurization Treatments on Reducing Salmonella spp., Shiga Toxin-Producing Escherichia coli and Listeria monocytogenes in Ready-to-Eat Meat and Poultry Products
 David Andrés Vargas Arroyo
Thesis: Microbial Growth and Shelf-life Study on Pork Loins by the Application of Different Antimicrobials

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ATMOSPHERIC SCIENCE

Cameron John Nixon
Thesis: The GOES-16 Geostationary Lightning Mapper: Lightning Trends Within Tornadoic Quasi-Linear Convective Systems

BIOENGINEERING

Hugo Joseph Michel Minière
Thesis: Jet Stability in Yield Stress Materials

BIOLOGY

Andres Leonardo Rodriguez Cordero
Thesis: Conservation and Geographic Distribution of Crocodylians in Bolivia (*Caiman Yacare*, *Caiman Latirostris*, *Melanosuchus Niger*, *Paleosuchus Palpebrosus*, *Paleosuchus Trigonatus*)

BIOTECHNOLOGY

Anusha Shayamalee E. Abeysinghe

COMPUTER SCIENCE

Cameron Christopher Cortines
Siddharth Santoshkumar Mehta
Christopher T. Phelan
Thesis: A New Framework for Knowledge Problems in Answer Set

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Michael A. Daniels

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Mona Maher
Eman Nizar Nasrallah

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Ayodeji Emmanuel Adeniyi
Thesis: Evaluation of *Salmonella* and Shiga Toxin-Producing *Escherichia Coli* Isolated from Pet Food and Antimicrobial Susceptibility Patterns
Paola Melisa Moncada Muñoz
Thesis: Antimicrobial Resistance in Honduran *Salmonella* and in *Escherichia Coli* Recovered from Cattle in the U.S.
Remio Teixeira Moreira
Thesis: Efficacy of UV Light, Photohydroionization* and Beefxide* on Reducing *Escherichia coli* O157:H7 on Beef Trimmings Used in Ground Beef Production
Sara Margarita Munoz Mendoza
Thesis: Fate of Spore-Forming Pathogens in High and Reduced Moisture, Processed Meat and Poultry Products Subjected to Post-Packaging Pasteurization

FORENSIC SCIENCE

Preston E. McCullough
Thesis: An Investigation into Jail Programming and Recidivism

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Thesis: Hearing the Deaf Community: Miscommunication of Medical Accommodations

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Thesis: Petrology and Geochemistry of the Illinois Basement and Related Rocks from St. Francois Mountains, SE Missouri
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Thesis: Diagenesis of Upper Pennsylvanian (Missourian) Hoxbar Sandstone from the Anadarko Basin and its Impact on Reservoir Quality (Caddo County, Oklahoma)

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Ramiro Ramirez, Jr.
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Thesis: Breast Cancer with Machine Learning in MATLAB
Veniamin L. Smirnov

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Kemia Carter
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Tayler Brooke Jameson
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Jannin Macias
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Thesis: Light Absorbers for Optical-Thermal-Electrical Energy Conversion
Andrew Paul Smith

PLANT AND SOIL SCIENCE

Bishwoyog Bhattarai
Thesis: Silage Production Potential of Forage Sorghum, Pearl Millet, and Corn Under Limited Irrigation
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Thesis: Effects of Cultivar and Irrigation on In-Season Fruit Accumulation and Retention
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Thesis: Utilizing Phenotypic Traits to Predict Seedling Field Vigor in a Cotton Breeding Program

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Kyle Richard Russell

Thesis: Weed Management Systems in Auxin Tolerant Cotton and Non-Auxin Tolerant Cotton Response to Stimulated Dicamba Drift

Manish Sapkota

Thesis: Soil Health Variability Among Residential Landscapes Impacts Urban Water Conservation

Yazhou Sun

Thesis: Assessment of Cotton Water Stress with Unmanned Aerial Systems Remote Sensing

SPORT MANAGEMENT

Cade Tucker Castro

Hiawatha Culver III

Jonathan Ray Falcon

Samantha Judd

Megan Alece Metz

Dakota Parrish

Brooke Nicole Robertson

Sam Swindle

STATISTICS

Pooya Aavani

Thesis: Detecting Imprinting and Maternal Effects Using Monte Carlo Expectation Maximization Algorithm

Isuru Dilan Dassanayake

Zhuanzhuan Ma

WILDLIFE, AQUATIC AND WILDLANDS SCIENCE AND MANAGEMENT

Courtney Elizabeth Jasik

Thesis: Relationship Between Huisache (*Acacia farnesiana*) Canopy Cover and Understory Forage Characteristics in Texas Coastal Prairies

Courtney Lyn Threadgill Ramsey

Thesis: Pronghorn Fawn Survival, Bed-site Characteristics and Adult Doe Habitat Selection in Southeastern New Mexico

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Alexis Aguilar

Kelsey Nicole Cook

Collin Denson

Alexis Haley Dyndul

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Mingming Shi

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Trevor Wilson

Hannah Micaela Woodruff

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Brennan Kashmere Cox

Edward Amel Nash Crawley

Israel Juarez

Limeimei Xu

Fatih Yildirim

Thesis: A Statistical Analysis of Limit Equilibrium Factors of Safety for Slope Stability Analysis

MASTER OF SCIENCE IN ELECTRICAL ENGINEERING

Wayne Edward Cox

Thesis: Design and Implementation of a Rayleigh Pulse Forming Network for Automated Control

Sonia Cyuzuzo

Jon Michael Gresham

Roburm Hanangala

Leah R. Harper

Henry J. Johnston

Aashish Pant

Thesis: Modelling and Design of Grid Connected Doubly Fed Induction Generator

Karan Tusharbhay Shah

Ketan Babanrao Shende

Rajendra Shrestha

Zhenyu Sun

Justin Lee Talavera

Yves Laurent Tchatchoua Tongwa

Thesis: Software Defined Radio (SDR) Based Non-Contact Vital Signs (NCVS) Sensor System

Cedrick Tchoupe Nono

Thesis: Analysis of the Impact of Nonlinear Loads' Harmonics on Synchronous Generators Lifetime

Jing Wang

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Yasutaka Peter Yanagisawa

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Lianning Zhu

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Thesis: Integration and Optimization of Iso-tachophoresis on a Programmable Microfluidics Automaton

Adel Bassam Darwiche

Sarah Maria Hilfers

Chaeun Kim

Thesis: Design and Control of a Scaled Wind Turbine

Kelsea Kay Miller

Matthew Brian Mills

John William Nowlin

Thesis: Electrospinning Nanofiber Scaffolds with Alignment Gradient and Three-Dimensional Structure

Gou Saitou

Connor Dale Woodruff

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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."



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Mallory Faith Roberts³
Mason Garrett Shank
Rylee McCall Tribble
Nicholas Mauricio Valdez

JOURNALISM

Sydney Rae Carpenter
Danielle Brienne Dixon
Caraline Elizabeth Louise Gaston
Kayla Kristine Ivy
Jaira Nechelle Poole
Sabrina Leigh Stovall

MEDIA STRATEGIES

Sheridan Baize
Mabi Angelica Balerio
William M. Catalan
Elijah Nathaniel Cisneros²
Caleb James Fowler
Mckenna Kathryn Gabriel
Emily Faith Hall
2nd Degree: Political Science
Luis Emilio Herrera-Perales
Hayden Kyle Hersey
Levi Konnor Holt
Harmony Elise Huglen-Hawkins
Logan William Ibbott
Erik Spence Johnson

Dylan S. Meyer
Austin R. Mireles
Kelsey Lynn Nelson
Adrian Nephtali Nunez
Harvey G. Pittman
Mariann Elizabeth Pruett
Sydney Ryan Riggs
Savannah Nicole Rodriguez
Tristan Andrew Tannich
David Alejandro Tarango
Miranda Wanner
Katy Wells

2nd Major: Creative Media Industries

Zachary Dey Williams
Hayden Craig Wright
Mallory Elise Yancey
Alexander Christian Ynfante

PUBLIC RELATIONS

Benjamin Owen Anderson
Sarah Kathleen Armstrong
McKenzie Christine Bishop
Parker Clay Boyd
Anna Elizabeth Brock
Emiline Claire Caffey
Julia Ashton Castilaw
Michael Patrick Cockrell
Kristen Blair Cooper
Mackenzie E. David
Taylor Nicole Dickinson
Alicia Monique Dominguez
Victoria Charlene Ellison
Kyler Jon Franklin
Cristal Argelia Gonzalez
2nd Major: Advertising
Dylan James Housley
Paige Huff
Marcella Ivins
Cathryn Megan Lamb
Ronald Charles Mazfield
Camryn Alexis Mayer³
Madeleine Evans Meyer³
Raegan Brooke Milligan²
Garrett Michael Murray
Whitney Marie Nichols
Donovan Ortiz¹
Kayla Nicole Owens¹
Kyle Edmund Panzer
Corrine Y. Riley
Alyssa Anne Rivas
Valerie Frances Robinson
Nicole Noelle Rochelle¹
Reece Landon Rodgers
Katy Aileen Sanders
Briana Santos
Mohamed Shaheen Shiffli Kader
Naba Siddiq
Claire Elizabeth Smith²
Isaac Soto
Brianna Isabelle Suarez
Laura Elyse Throneberry
Evan Jeremiah Triplett
Laurel Claire Webb
Marisa Alexandra Werner
Reagan Katherine Whitaker

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

UNDERGRADUATE CANDIDATES



TEXAS TECH UNIVERSITY

University Programs™

BACHELOR OF APPLIED ARTS AND SCIENCES

Josh Aaron Jones
Theresa Kay Reed

BACHELOR OF ARTS

UNIVERSITY STUDIES

Jeffrey Scott Amon
Launa Victoria Archibald
Scott Audibert
Brennan Bailey Barnett
Jamie Dawn Bridges²
Chase Ryan Brouillette
Jesse Brown
Robert Bruns
Seth Collins
Alexander Vincent Cremente
Jordan Elizabeth Dain
Sarah Elizabeth Dishongh¹
Vaughn Dejoah Dorsey
Deidra Babe Dutschmann
Favour Chimaroke Egbuka
Justine Madrid Flores
Jason Forslund
Debby Renae Furr
Laura Nicole Gentolizo
James Conner Gopffarth
Courtney Michelle Greger
Frank Bone Hines
Spencer Gregory Holcomb
Shelley Renee Isbell
Bryce Chander Kiser
Karsen Elizabeth Kloster
Claudia Samantha Lozano Frausto
Joseph Don Marin
Jacob Quentin Mattison
Joshua High Mcdaniel
Kelly Erin McGinnis
Talyn Blays Messick³
Skyler Thomas Mirocha
Marshall Thomas Moore
Octavious Delkese Morgan
Daniella D Munoz²
Deshawn Donye Nix
Alyssa Marie Norris
Ejowvokoghene Divine Oduduru
London Blake Ogletree
Noel Efemena Onobun
Sarah Elise Otoole²
Santiago Edward Paiz
Skylar Ann Penney³
Nicole Mae Peterson
Amber Nichole Pounds
Nicole Leann Pritchard
Aadarsh Pundhir
James Dylan Rampick
Shianne Joy Rankin
Meg J'Lain Ratheal
Sara Nicole Reid
Kyle Peter Rhinehart
Austyn Taylor Rivas
Tracy Rivera

Robert Montgomery Riza
Alexia Sawyer¹
Sandhya Govina Sharma
Jonna Rhea Sharp
Stephanie Leigh Sides²
Mark P Stamps
Allyson Mackenzie Standard
Jillian Jane Stock
Christopher M Sullivan
Westyn Dean Swenson
Torii Neikol Thompson
Selena Alicia Torrez
Nicholas Andrew Uresti
Maurice George Vann
Amber Nicole Wallace¹
Rilee Saige Weatherford
Michael Weldon Whittle
Bekah Jane Wood²
Sharon Kay Yeates

BACHELOR OF SCIENCE

UNIVERSITY STUDIES

Erick Arizpe
Lorin Frances Davila
Abigail Amanda Felps
Vashati Amy Guadalupe Garcia
John Carlos Hernandez
Gilberto Mazza
Sahar Humayun Mirza
Desmond Desean Moore
Chukwuka P Ojiyi
Joshua James Powell
Emmanuel Quinones
Chase Lain Thorpe
David Matthew Waggoner
Christopher Walls

WIND ENERGY

Keegan Estes Bartkus
Christopher Shawn Bell
Anthony De Luna
James Anthony Diaz
Kevin Dominguez
Zachary Dante Garcia
Matthew David Henslee
Seth Joey Lozano
Timothy Owens
Leslie Alin Salazar
Samuel Cloud Weston



TEXAS TECH UNIVERSITY

J.T. & Margaret Talkington

College of Visual & Performing Arts™

BACHELOR OF ARTS

ART

Tiffani Ryann Finkbone

DANCE

Ashlyn Taylor Brown
2nd Degree: Marketing

INTERDISCIPLINARY ARTS STUDIES

Aaron Christopher Ellis
Kristen Alexandra Mitchell

MUSIC

Madison G. Kennell²
Shannon Taree Koonce

THEATRE ARTS

Sara Elizabeth Hunter¹
Diana Carolina Lee
Troy Evan McKinney
Kenney Fitzgerald Morris, Jr.
Christian Samuel Peck
Taylor McKenzie Sines¹
2nd Degree: English

BACHELOR OF FINE ARTS

ART

Alejandra Marie Aguirre
Chandler Wayne Campbell²
Sarah Elizabeth Lewellen
Lauren E. Liedtka
Clinton Richard McDuff
Ann Louise Sikes¹

THEATRE ARTS

Madison Layne Bryan³
Taralynn Tatiana Rachell Francis³
2nd Degree: Kinesiology
Nathan Lovelle Fuentes
Zachary Tyler Haile
Madelyn Tye Robertson³

BACHELOR OF MUSIC

Aaron David Amaya
Justin Neil Anderson²
Lily Rae Ann Arnett³
Amy Eris Aycock¹
Bonnie Bleau Bearden²
Jessica Aryn Calvit²
Austin DeMoss³
Adam Andrew Evans³
Natalie Anne Galindo
Jarrett Nolan Hatcher
Benjamin Robert Horton
Gil Edward Jarvis²
Tristan Eliot Keller¹
Madeline Claire Kerkemeyer²
Alexander Scott Kolb³
Kameryn Reese Mattingly²
Karisma Lorraine Mendoza³
Gillian Noelani Quiggle²
Chandler Leigh Renshaw
Isaiah Stephen Rodriguez³
Tyler Ricky Serrato³
Elisa Nicole Shiller
Morgan Elizabeth Smith²
Nicholas Ryan Tharp
Kathryn Elizabeth Thompson³
Rachel Lynn Tilley
Lukas Benjamin Wasserman²
Kyle William Worley³
William Henrik Zetterstrom

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

RECEPTIONS AND OTHER CEREMONIES

INDIVIDUAL COLLEGE RECEPTIONS

Immediately After Commencement Ceremony

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

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

College of Arts & Sciences | Foyer Area of Room 104, Holden Hall

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

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

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

College of Human Sciences | El Centro, Human Sciences Building

College of Media & Communication | Ballroom, Student Union Building

J.T. & Margaret Talkington College of Visual & Performing Arts | Theatre Arts Foyer

University Studies and Wind Energy | Matador Room, Student Union Building

CANDIDATES FOR MILITARY COMMISSIONS

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

Douglas Guberman

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 COMMENCEMENT ANNOUNCEMENTS

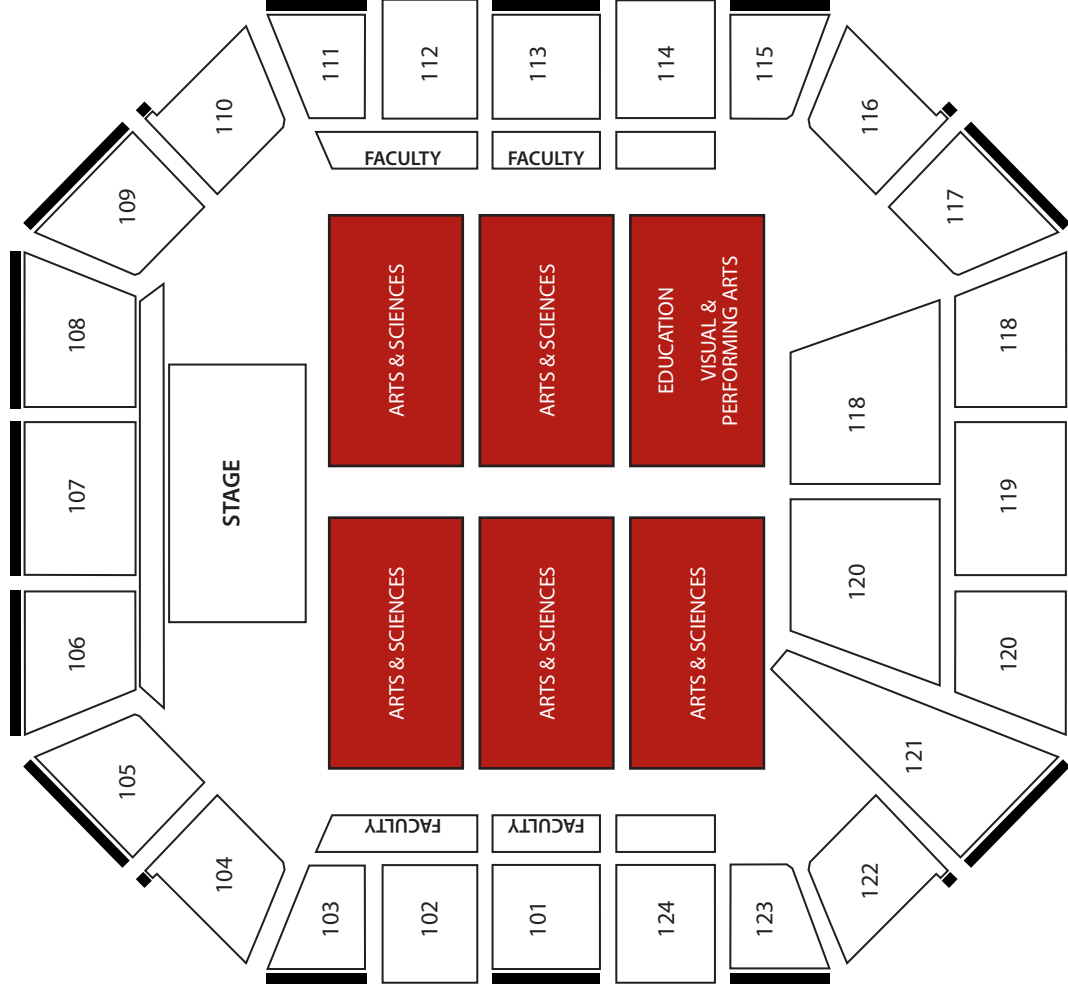
GRADUATE PHOTOGRAPHS

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

COMMENCEMENT DVD

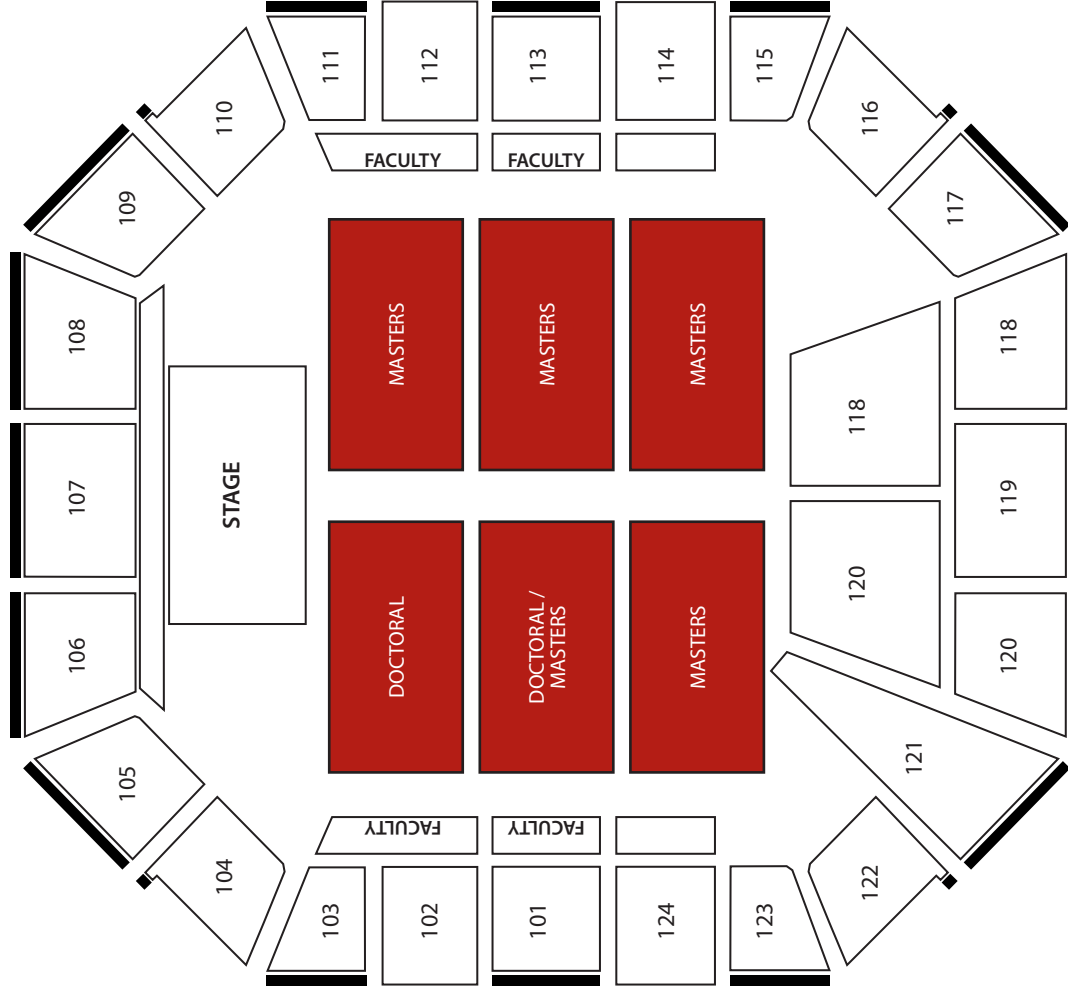
The Texas Tech Alumni Association encourages graduates to order a Texas Tech Commencement DVD to commemorate their achievement. The \$45 purchase also will include a one-year Texas Tech Alumni Association gift membership. This membership will help graduates stay connected to Texas Tech. To reserve a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

FRIDAY, DECEMBER 13, 2:30 p.m.



denoted by

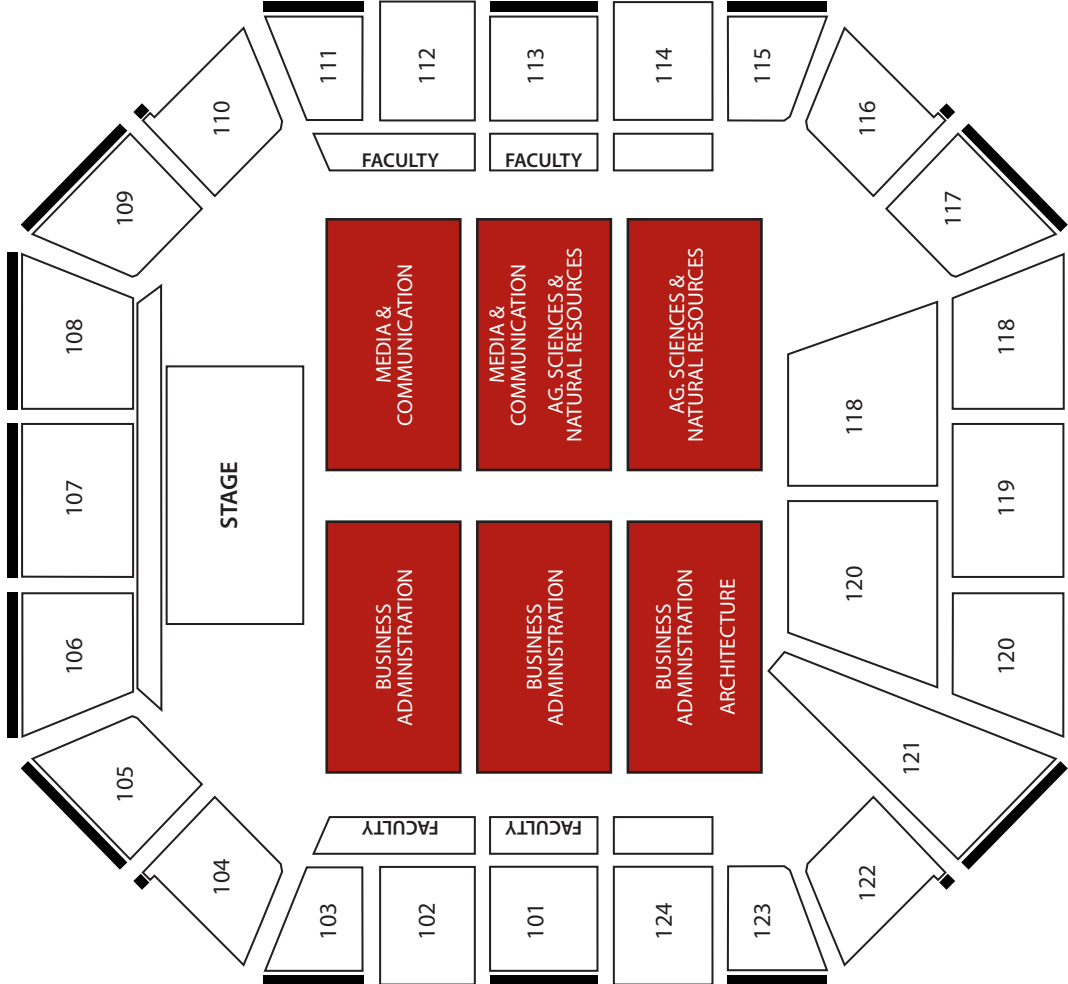
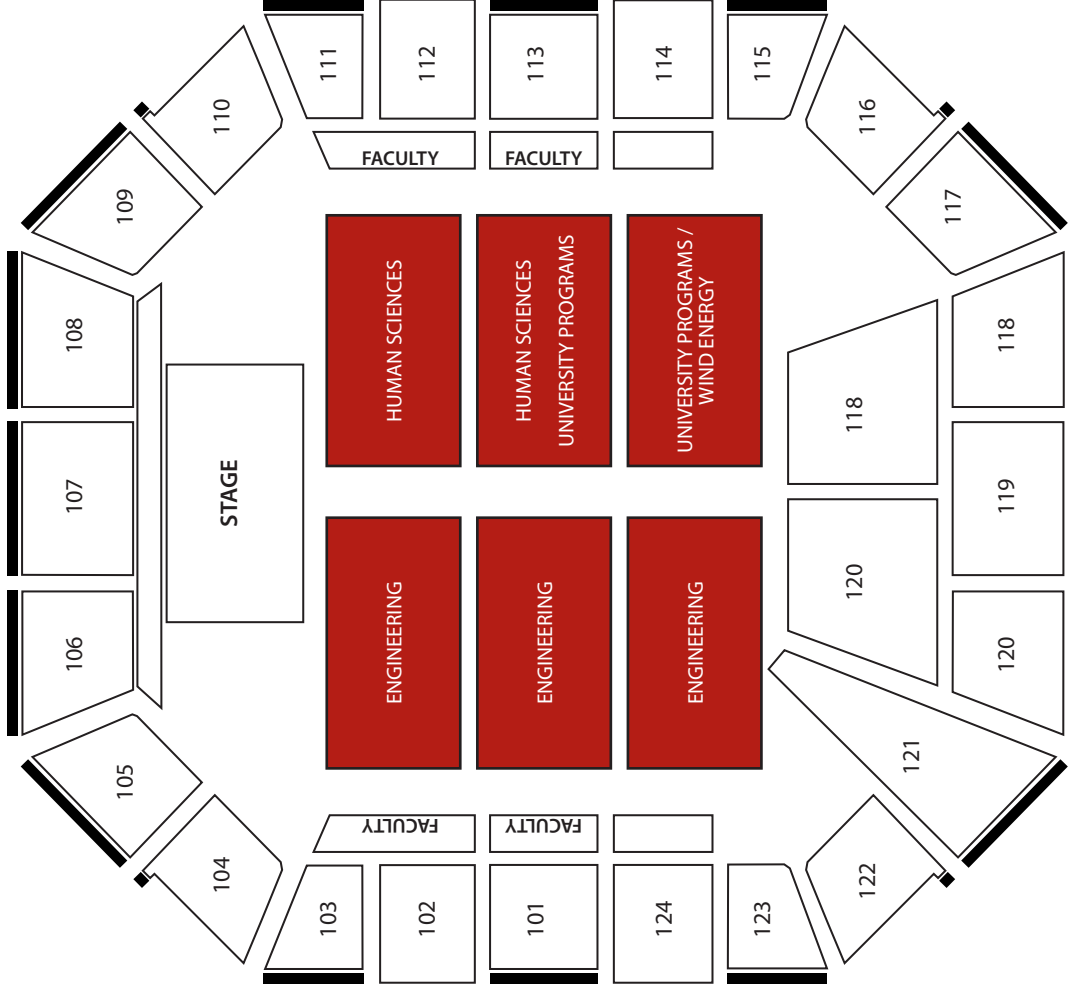
FRIDAY, DECEMBER 13, 7:30 p.m.

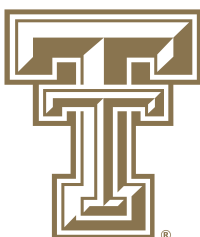


denoted by

SATURDAY, DECEMBER 14, 9:00 a.m.

SATURDAY, DECEMBER 14, 1:30 p.m.





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