

SUMMER 2018 COMMENCEMENT

AUGUST 11

Lubbock, Texas





TEXAS TECH UNIVERSITY®

**SUMMER 2018
COMMENCEMENT**

Saturday, August 11, 2018
UNITED SUPERMARKETS ARENA

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*

JOSEPH HEPPERT, Ph.D.

*Vice President for Research;
Professor of Chemistry*

MICHAEL L. GALYEAN, Ph.D.

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

CAROL SUMNER, Ed.D.

Vice President for Diversity, Equity and Inclusion

NOEL SLOAN, J.D., CPA

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

TEXAS TECH UNIVERSITY SYSTEM CHANCELLOR / BOARD OF REGENTS

ROBERT DUNCAN, J.D.

*Chancellor,
Texas Tech University System
Professor of Law*

MR. JOHN ESPARZA

Austin, Texas

MR. J. MICHAEL LEWIS

Dallas, Texas

MR. RONNIE HAMMONDS

Houston, Texas

MR. JOHN D. STEINMETZ

Dallas, Texas

MR. L. FREDERICK "RICK" FRANCIS

*Chairman
El Paso, Texas*

MR. CHRISTOPHER M. HUCKABEE

Fort Worth, Texas

MR. JOHN B. WALKER

Houston, Texas

MR. TIM LANCASTER

*Vice Chairman
Abilene, Texas*

MR. MICKEY L. LONG

Midland, Texas

MS. JANE GILMORE

Dallas, Texas

ACADEMIC OFFICERS

MARK SHERIDAN, Ph.D.

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

W. BRENT LINDQUIST, Ph.D.

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

LINDA C. HOOVER, Ph.D.

*Dean, College of Human Sciences;
Professor of Restaurant, Hotel and
Institutional Management*

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

*Dean, School of Law;
Professor of Law*

MARGARET L. WILLIAMS, Ph.D.

Dean, Jerry S. Rawls College of Business

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,
Animal and Food Sciences*

SCOTT RIDLEY, Ph.D.

*Dean, College of Education;
Professor of Education*

AL SACCO, JR., Ph.D.

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

NOEL ZAHLER, D.M.A.

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

JIM WILLIAMSON, M.Arch.

*Dean, College of Architecture;
Professor of Architecture*

MICHAEL SAN FRANCISCO, Ph.D.

*Dean, Honors College;
Professor of Biology*

BELLA KARR GERLICH, Ph.D.

Professor and Dean of Libraries

ABOUT TEXAS TECH UNIVERSITY

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 36,000 students enrolled in its 11 colleges: Agricultural Sciences & Natural Resources, Architecture, Arts & Sciences, Jerry S. Rawls College of Business, 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.





Photo credit: Student Media



Photo credit: Katie Spradlin, Student Media



Photo credit: Student Media



Photo credit: Student Media



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

Saturday, August 11, 2018

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	Bethany Noelle Herrera <i>Graduating with a Bachelor of Music</i>
Welcoming Remarks	Mr. John Steinmetz <i>Board of Regents, Texas Tech University System</i>
Introduction of Commencement Speaker	Dr. Lawrence Schovanec
Commencement Address	Lamar Smith <i>Congressman, 21st Congressional District of Texas</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>
Presentation of Bachelor's Degree Candidates	Dr. Randy McBee <i>Associate Dean, College of Arts & Sciences</i> Dr. Robin Lock <i>Associate Dean, College of Education</i> Dr. Amy Koerber <i>Associate Dean, College of Media & Communication</i> Dr. William Brown <i>Dean, College of Agricultural Sciences & Natural Resources</i> Prof. Jim Williamson <i>Dean, College of Architecture</i>
Recognition of Outstanding Students Class of 2018	Dr. Michael Galyean
Charge to the Graduates	Dr. Lawrence Schovanec
Alma Mater <i>(Words on Back Cover)</i>	Talisa Desiree Soto <i>Graduating with a Bachelor of Music</i>
Recessional*	Texas Tech Commencement Band

** Please remain seated during the Processional and Recessional*

COMMENCEMENT CEREMONY

Saturday, August 11, 2018
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	Bethany Noelle Herrera <i>Graduating with a Bachelor of Music</i>
Welcoming Remarks	Mr. Robert Duncan <i>Chancellor, Texas Tech University System</i>
Introduction of Commencement Speaker	Dr. Lawrence Schovanec
Commencement Address	Lamar Smith <i>Congressman, 21st Congressional District of Texas</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>
Presentation of Bachelor's Degree Candidates	Dr. Dennis Arnett <i>Associate Dean, Rawls College of Business</i> Dr. Mitzi Lauderdale <i>Associate Dean, College of Human Sciences</i> Dr. Al Sacco, Jr. <i>Dean, Whitacre Jr. College of Engineering</i> Dr. Rob Stewart <i>Senior Vice Provost (presenting for University Studies and Wind Energy)</i> Dr. Noel Zahler <i>Dean, Talkington College of Visual & Performing Arts</i>
Recognition of Outstanding Students Class of 2018	Dr. Michael Galyean
Charge to the Graduates	Dr. Lawrence Schovanec
Alma Mater <i>(Words on Back Cover)</i>	Talisa Desiree Soto <i>Graduating with a Bachelor of Music</i>
Recessional*	Texas Tech Commencement Band

** Please remain seated during the Processional and Recessional*

COMMENCEMENT SPEAKER



Lamar Smith represents the 21st Congressional District of Texas.

He serves as chairman of the Science, Space, and Technology Committee, which has jurisdiction over NASA, the Department of Energy including its 17 national laboratories, the Environmental Protection Agency, the National Science Foundation, the Federal Aviation Administration, and the National Institute of Standards and Technology. The Committee oversees agency budgets of approximately \$40 billion, where the primary focus is on research and development.

Congressman Smith also serves on both the Judiciary Committee and the Homeland Security Committee. He is a former chairman of the Judiciary Committee and the Ethics Committee, making him the only current member of Congress to have chaired three committees. He also founded the Border Security Caucus and Media Fairness Caucus.

Representative Smith was ranked the most effective member of the House in the 112th Congress (2011-2012) in a study jointly conducted by the University of Virginia and Vanderbilt University. According to the same study, he was ranked in the top 10 percent in effectiveness in the last eight Republican Congresses. He also has been named Policymaker of the Year by Politico for his work on patent-reform legislation.

A fifth-generation Texan and native of San Antonio, Congressman Smith graduated from Yale University and Southern Methodist University School of Law. He and his wife, Beth, have an adult daughter and son.

The 21st Congressional District includes parts of Bexar, Travis, Comal and Hays Counties and all of Bandera, Blanco, Gillespie, Kendall, Kerr and Real Counties. The district's population is about 700,000. Congressman Smith maintains district offices in San Antonio, Austin and Kerrville.

ACKNOWLEDGEMENTS

CONVOCATIONS COMMITTEE

Ms. Heidi Winkler, Chair
Dr. Courtney Gibson, Co-Chair
Mr. Ian Barba
Ms. Shelley Barba
Mr. Jordan Bell
Dr. Shane Blum
Dr. Rhonda Boros
Ms. Luciana Cavazos
Dr. Julie Chang
Dr. Danny Choi
Mr. Don Collier
Dr. Fanni Coward
Dr. John Dawson
Ms. Amiee Dixon
Prof. Genevieve Durham
Dr. Nadia Flores
Dr. Kristi Gaines
Mr. Samuel Gilbert
Dr. Roxie Godfrey
Mr. Ben Haugland
Dr. Vijay Hegde
Ms. Laura Heinz
Mr. Adam Howard
Dr. Catherine Jai
Mr. Jesse Jou
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Dr. Mark Moore
Mr. Damian Pantoya
Dr. Michelle Pearson
Mr. Tom Rohrig
Dr. Jhones Sarturi
Ms. Carrye Syma
Mr. Jake Syma
Dr. Marcus Tanner
Dr. Leslie Thompson
Mr. Von Venhuizen
Mr. Seth Warren-Crow
Dr. Richard Watson
Ms. Lynn Whitfield
Ms. Feruzan Williams
Dr. Aliza Wong

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

Agricultural Sciences & Natural Resources –
Dr. Warren Conway
Architecture – Mr. Darrick Wade
Arts & Sciences – Dr. David Roach
Business – Mr. Derrick Ginter
Education – Dr. Doug Hamman
Engineering – Dr. Mukaddes Darwish
Graduate School
9:00 a.m. – Dr. Aaron Zimmerman
1:30 p.m. – Dr. Tim Dallas
Human Sciences – Dr. Bill Gustafson
Media & Communication – Dr. Todd Chambers
University Programs – Dr. Marcus Tanner
Visual & Performing Arts –
Ms. Carol Flueckiger

ADMINISTRATIVE REPRESENTATIVES

Agricultural Sciences & Natural Resources –
Ms. Savannah Chambers
Architecture – Ms. Anna Martinez-Lopez
Arts & Sciences – Ms. Kymberli Saldaña
Business – Ms. Geleah Sharp
Education – Ms. Karen Noles
Engineering – Ms. Tonette Rittenberry
Graduate School – Ms. Vanessa Bara
Honors College – Ms. Cheyenne Belew
Human Sciences – Ms. Ashlee Brown
Media & Communication –
Ms. Julia Heard Witt
University Programs – Ms. Kacey Marshall
and Ms. Alyssa Wagner
Visual & Performing Arts –
Ms. Kathy Nordstrom

This program is an unofficial list of Summer 2018 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.

STUDENT BANNER BEARERS

Agricultural Sciences & Natural Resources –
Mr. Weston Allen
Architecture – Ms. Lauren Hunter
Arts & Sciences – Ms. Morgan Kidd
Business – Ms. Vivian Luu
Education – Ms. Elizabeth De La Cruz
Engineering – Mr. Hrishikesh Das
Graduate School
9:00 a.m. – Ms. Mary Stevenson Norman
1:30 p.m. – Mr. Marc Sutton
Honors College
9:00 a.m. – Ms. Grace Meehan
1:30 p.m. – Ms. Elizabeth McKenna
Human Sciences – Ms. Sierra Snyder
Media & Communication – Ms. Mattea Luckstead
University Programs – Ms. Stevie Michelle Sanchez
Visual & Performing Arts – Ms. Callie Murray

FACULTY BANNER BEARERS

9:00 a.m. – Dr. Gary Elbow
Professor of Honors and Geography
Honors College
1:30 p.m. – Dr. Andrea McCourt
Program Director, Human Resource Development, University Studies

LIBRARY BANNER BEARERS

9:00 a.m. – Joshua Salmans
1:30 p.m. – Innocent Awasom

PROGRAM

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

CANDIDATES FOR GRADUATE DEGREES

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

HIGHER EDUCATION ADMINISTRATION

Rima Adil

Dissertation: First-year Structured Advising Programs and their Impact on Community College Student Retention
Major Professor: Stephanie Jones

Rebecca J. Garlick

Dissertation: Faculty Perceptions of the Implementation of Integrated Developmental Reading and Writing in a Texas Community College
Major Professor: Stephanie Jones

Selsa Lucero Lerma

Dissertation: Persistence of First-generation, Part-time, Hispanic Students in Community Colleges
Major Professor: Stephanie Jones

Donna Leigh Wicker

Dissertation: An Exploration of Dental Hygiene Students' Experiences with and Perceptions of the Effectiveness of the Clinical Learning Environment for Dental Hygiene Practice Preparedness
Major Professor: Stephanie Jones

DOCTOR OF MUSICAL ARTS

Benjamin John Hawkinson

Dissertation: Passagi in Sixteenth-Century Sacred Polyphony: Bovicelli's *Regole*, *Passaggi di Musicae*
Major Professor: John Hollins

Oryana Racines Smakovic

Dissertation: The Influence of Feet Positioning on Posture and Balance of Upper-string Instrument Players
Major Professor: Annie Chalex-Boyle

Marc Lynn Sutton

Dissertation: Finding Interpretations: A Comprehensive Tempo Analysis of Phrases from Commercial Recordings of the Hummel Trumpet Concerto using Tempo Maps in Pro Tools
Major Professor: Andrew Stetson

DOCTOR OF PHILOSOPHY

AGRICULTURAL AND APPLIED ECONOMICS

Marty R. Middleton

Dissertation: Uncertainty Effects on Ogallala Aquifer Withdrawal: Is Regulation Needed?
Major Professor: Eduardo Segarra

AGRICULTURAL COMMUNICATION AND EDUCATION

Lindsay West Kennedy

Dissertation: An Examination of Experiential Learning Theory in Agricultural Communications Photography Instruction
Major Professor: Cindy Akers

ANIMAL SCIENCES

Yu Liang

Dissertation: The Effects of Various Nutritional Supplements on the Development, Innate Immunity, and Gastrointestinal Health of Young Dairy Calves
Major Professor: Michael Ballou

Whitney Danielle McGilvray

Dissertation: Effect of Immune System Stimulation on Protein Metabolism and Amino Acid Utilization in Growing Pigs
Major Professor: Anoosh Rakhshandeh

Zachary Kidd Foster Smith

Dissertation: Evaluation of Coated and Non-coated Implants in Beef Steers: Live Performance, Carcass Traits and Biological Responses
Major Professor: Bradley Johnson

Alyssa Brook Word

Dissertation: Evaluation of Yeast, Nonsteroidal Anti-inflammatory, and Metaphylaxis Products in Feedlot Cattle: Mitigation of Bovine Respiratory Disease and Feedlot Performance
Major Professor: Michael Ballou

BIOLOGY

Nardana Esmaeili

Dissertation: Aiming at Doubling Cotton Fiber Yield for the Dry-Land Agricultural Systems by Co-Overexpressing AVP1 and OsSIZ1
Major Professor: Hong Zhang

Scott McKinley Starr

Dissertation: The Effects of Land Use and Climate Change on Playa Wetlands and their Invertebrate Communities
Major Professor: Nancy McIntyre

BUSINESS ADMINISTRATION

Asmaa Abdullah Al-Fadhel

Dissertation: Nutrition Shelf Tags' Effectiveness: The Role of Nutrition Information Load and Label Type
Major Professor: Dale Duhan

Miles Condon

Dissertation: Incorporating Attitudes into a New Framework for Impulse Buying Behavior
Major Professor: Debra Laverie

Masoud Moradi

Dissertation: Two Essays on the Roles of Rhetorical Devices in Online Platforms
Major Professor: Mayukh Dass

Aniruddha Ashok Pangarkar

Dissertation: The Effects of Corporate Social Responsibility and Corporate Culture on Securing Frontline Service Employee Support During a Product-harm Crisis
Major Professor: Roy Howell

Hamid Vahidnia

Dissertation: Mechanisms of Opportunity through Person Exploitation: The Corporation, Capital and Closure
Major Professor: Ronald Mitchell

CHEMICAL ENGINEERING

Mir Shawkat Ali

Dissertation: Mechanotransduction and Control of Valvular Cell Phenotype as Tools to Inform Valvular Pathophysiology
Major Professor: Carla Lacorda

Md Nazir Hossain

Dissertation: Thermodynamic modeling of Aqueous Electrolytes and Ionic Liquids (ILs) with Electrolyte Non-random Two Liquid (eNRTL) Model
Major Professor: Chau-Chyun Chen

GRADUATE CANDIDATES

Mehdi Nekouei

Dissertation: Hydrodynamics of Droplet Dislodgement and Breakup in Confined Microfluidic Geometries
Major Professor: Siva Vanapalli

Zhiyuan Qian

Dissertation: Viscoelastic and Nanomechanical Behaviors of Polymeric Materials
Major Professor: Gregory McKenna

CHEMISTRY

Xinyou Ma

Dissertation: Chemical Dynamics Simulation of Ion-molecule Interactions and Reactions
Major Professor: William Hase

Anu Saini

Dissertation: Sustainable Catalysis Using Iron Based Complexes for Hydro Functionalization of C=X (O,N) Unsaturated Bonds
Major Professor: Michael Findlater

CIVIL ENGINEERING

Abdullah Karim

Dissertation: A Decision Support Framework for Fit for Purpose Assessments in Brackish Groundwater Units
Major Professor: Venkateshy Uddameri

Tea Vrtlar

Dissertation: Optimization of DGT Methyl Mercury Recovery, Bank Leaching Assessment and Evaluation of Stabilization Efforts on Mercury Fate and Transport in Freshwater Systems
Major Professor: Danny Reible

Guo Zheng Yew

Dissertation: Advances in Window Glass Design
Major Professor: Stephen Morse

CLINICAL PSYCHOLOGY

Shannon Leigh Harper

Dissertation: Maternal Anxiety and Depression Symptoms, Parenting, and Accommodation of Children's Anxious Symptoms
Major Professor: Catherine Epkins

Aaron Kimball Haslam

Dissertation: Mood and Affect During a Smoking Cessation Attempt in Those with Cancer: An Ecological Momentary Assessment Study
Major Professor: Andrew Littlefield

Sean Michael Mitchell

Dissertation: Perceived Social Support, Thwarted Interpersonal Needs, and Distress Due to Suicide Ideation Among Psychiatric Inpatients: The Moderating Effects of Criminal Associates
Major Professor: Kelly Cukrowicz

Jared Frederick Roush

Dissertation: Thwarted Interpersonal Needs and Suicide Ideation on Psychiatric Inpatients: An Examination of Six Psychological Processes Underlying Acceptance and Commitment Therapy
Major Professor: Kelly Cukrowicz

Paige Lindsay Seegan

Dissertation: Internalizing Symptoms and Health Behaviors Associated with Relational Peer Victimization: An Examination of Perceived Social Support and Hope in Relation to Youth Adjustment
Major Professor: Jason Van Allen

COMPUTER SCIENCE

Ahmad Omer A. Aseeri

Dissertation: A Machine Learning-based Security Vulnerability Study of XOR Arbiter PUFs for Resource-constraints Internet of Things
Major Professor: Yu Zhuang

COUNSELING PSYCHOLOGY

Tyler Chase Bradstreet

Dissertation: To be [Healthy] or not to be: Moderated Moderation of the Relationships between Masculinity, Future Orientation, SES, and Men's Health
Major Professor: Mike C. Parent

Samantha D. Christopher

Dissertation: Feminist Identity Development Among Young, Feminist Men in College
Major Professor: Elizabeth Sharp

Nina MacLean

Dissertation: Self-report on Criminal Risk Assessments and Disclosure of Psychiatric Symptoms among Offenders Adjudicated Not Guilty by Reason of Insanity
Major Professor: Robert Morgan

Yuki Shigemoto

Dissertation: Predicting Subgroups of Students based on Personal Growth Initiative and Posttraumatic Stress by Coping Flexibility
Major Professor: Christine Robitschek

COUPLE, MARRIAGE, AND FAMILY THERAPY

Brandon Paul Eddy

Dissertation: Husband Involvement During Pregnancy: A Grounded Theory
Major Professor: Stephen Fife

Cayla Minaiy

Dissertation: The Influence of Family Adaptability, Gender, and Shame on Adolescent Body Image
Major Professor: Kristy Soloski

CURRICULUM AND INSTRUCTION

Matthew Alexander Birdwell

Dissertation: A Qualitative Study of Implementation and Sustainability Factors of Professional Learning Communities on Campus Accountability and Improvement
Major Professor: Shirley Matteson

Selena Smith Connealy

Dissertation: Institutional and Organizational Influences on Collaborations between Informal Science Education and Schools
Major Professor: Walter Smith

Selenda K. Cumby

Dissertation: Exploring the Academic Resilience of First Generation Latina/o Teacher Candidates of Immigrant Parents in a Non-traditional Teacher Preparation Program through the Lens of Community Cultural Wealth
Major Professor: Shirley Matteson

Dimitrio A. Martinez Castro

Dissertation: The Effects of Attentional Focus on a Sport-specific Skill and Efficacy Beliefs
Major Professor: Doug Hamman

ECONOMICS

Yan Luo

Dissertation: Three Essays on Income Inequality
Major Professor: Masha Rahnama

ELECTRICAL ENGINEERING

Ronald Christopher Charter Anderson

Dissertation: Use of a Sequential Forward Floating Search Algorithm to Detect Subgroup Features in Heterogeneous Data Sets
Major Professor: Mary C. Baker

Xiaozhang Du

Dissertation: Optical Study on Hexagonal Boron Nitride
Major Professor: Hongxing Jiang

GRADUATE CANDIDATES

Nazifah Islam

Dissertation: Kilohertz Ultrafast High-density Electrochemical Capacitors
Major Professor: Zhaoyang Fan

Nimat Shamim

Dissertation: Analysis and Implementation of Model Predictive Control Technique for Converter Control in Grid Integration with Battery Energy Storage System and Fuel Cell Power System
Major Professor: Stephen Bayne

ENGLISH

Kazutaka Sugiyama

Dissertation: Finitude and Community: Posthumanism in Contemporary Fiction
Major Professor: Bruce Clarke

ENVIRONMENTAL TOXICOLOGY

Carmen Antonia Kautz Emborski

Dissertation: Transgenerational Effects of Ancestral Dietary Modifications: Investigations of Progeny Response Consistency and Modes of Transmission
Major Professor: Weimin Gao

Zhongwei Liu

Dissertation: Overcoming the Drug Resistance of Epidermal Growth Factor Receptor-Tryosine Kinase Inhibitors in Lung Cancer Cell Lines
Major Professor: Weimin Gao

Steven Todd Peper

Dissertation: Mosquito Surveillance and Tools to Aid in Intelligent Vector Management
Major Professor: Steven Presley

EXPERIMENTAL PSYCHOLOGY

David W. Hancock

Dissertation: Intersectionality and the Stereotype Content Model: Cognitive, Affective, and Behavioral Consequences for Multiple-categorized Individuals
Major Professor: Amelia Talley

Evvin Claire Jennings

Dissertation: The Effects of Interpolated Lectures, Self-testing and Notetaking on Learning from a Science Video Lecture
Major Professor: Roman Taraban

FAMILY AND CONSUMER SCIENCE EDUCATION

Carmen Nicole Pedersen

Dissertation: Family and Consumer Sciences Teachers' Characteristics, Attitudes Toward Poverty, and Learning Environment Climates
Major Professor: Barbara Allison

FINE ARTS

Jeff L. Day

Dissertation: Boundaries of Belief: Implications of the Paradox of Fiction on the Multifarious Layers of the Dramatic Narrative Found in Theatre's Fictional Worlds
Major Professor: Mark Charney

GEOSCIENCES

Ying Liu

Dissertation: High-resolution Mapping of Ground-level Fine Particulate Matter and the Associated Human Health Risks
Major Professor: Guofeng Cao

HIGHER EDUCATION RESEARCH

Mhd Hasan Al Mekdash

Dissertation: Four-Year College Degree Completion and Texas Public School District Factors: A Geospatial Quantitative Analysis of Texas Data Using ArcGIS, GeoDa, and R Programming Language
Major Professor: Valerie Osland Paton

Homer 'PeeWee' Lorenz Roberson, Jr.

Dissertation: Student Experiences of how Cultural Capital Influences First Generation College Students in Their First Year Attending a Four-year University
Major Professor: Lee Duemer

HISTORY

Amber Brianna Batura

Dissertation: Playboy's Vietnam: The Significance and Impact of *Playboy* Magazine on Soldiers in the Vietnam War
Major Professor: John Milam

Jonathon Walter Headford

Dissertation: "I Have the Saskatchewan Mentality in Me": A History of Saskatchewan Roughrider Fandom
Major Professor: Jorge Iber

HOSPITALITY ADMINISTRATION

Bandar Ali Altalhi

Dissertation: Antecedents to Turnover Intentions of Entry-level Employees at Community Hotels
Major Professor: Deborah Fowler

Kerry Todd Manis, Jr.

Dissertation: The Theoretical and Empirical Foundations of the Gamified System Acceptance Model (G-SAM); Antecedents, Outcomes, and the Technology Acceptance Model (TAM)
Major Professor: Deborah Fowler

HUMAN DEVELOPMENT AND FAMILY STUDIES

Sherley Ann Bedore

Dissertation: Investigating the Developmental Changes of the Self-Concept over Time
Major Professor: Elizabeth Trejos-Castillo

Manju Chawla

Dissertation: Alcohol and Substance Use in Young Population: A Developmental Approach
Major Professor: Elizabeth Trejos-Castillo

Timothy Wayne Dunn

Dissertation: A Test of Associations Among Generalized Attachment, Interpersonal Competence, Relational Self-construal and Happiness Among Undergraduates
Major Professor: Jacki Fitzpatrick

Nancy Ann Trevino-Schafer

Dissertation: Studies of Foster Care and Youth in Foster Care
Major Professor: Elizabeth Trejos-Castillo

INDUSTRIAL ENGINEERING

Andrea L. Arias Llorenty

Dissertation: Integrated Location and Routing Problems: Models, Algorithms and Applications in Drone-assisted Logistic Operations
Major Professor: Timothy Matis

MATHEMATICS

Aruna Roshan Adikari

Dissertation: Pseudo-endpoints of Chainable Continua and Endpoints of Nondegenerate Hereditarily Decomposable Chainable Continua
Major Professor: Wayne Lewis

Benoit Blaise Ahanda

Dissertation: Parametric Confidence Regions for Means of Symmetric Positive Matrices
Major Professor: Lief Ellingson

Ameen Abdulmohsin Alhassan

Dissertation: Endpoints and Opposite Endpoints of Chainable Continua and Subcontinua with some Properties
Major Professor: Wayne Lewis

Hum Nath Bhandari

Dissertation: Particle Swarm Optimization (PSO) Algorithm: Analysis Improvements, and Applications
Major Professor: Victoria Howle

Joshua David Engwer

Dissertation: Partitioned Implicit Runge-Kutta Timesteppers for Micromagnetics with Eddy Currents
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Dissertation: An Analysis of Block Verlet Timestepping and Lagged Force Evaluations for the Gravitational N-Body Problem
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Dissertation: Digital Human Posture and Motion Prediction Considering Cognitive Decision Making
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Dissertation: In-plane and Out-of-plane Flexible Ring Tire Model Development and Validation
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MEDIA AND COMMUNICATION

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Dissertation: The Role of Social Identity in Niche Online Dating Websites
Major Professor: Melanie Sarge

Jobi Martinez

Dissertation: Framing Inclusion and Exclusion: The Framing Strategies of Chief Diversity Officers in Higher Education
Major Professor: Kent Wilkinson

Mary Elise Stevenson Norman

Dissertation: The Effects of Gendered Media Primes on Children's Implicit Attitudes of Gender: Attitudes toward Girls, Boys and Gender Roles
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NUTRITIONAL SCIENCES

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Dissertation: Pain, Discomfort, and Enjoyment during Moderate Exercise: Relationships to Weight Status and Diet Quality
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Jie Liu

Dissertation: Anti-Atherosclerotic Effects of T0901317 Encapsulated Nanoparticles
Major Professor: Shu Wang

MD Khurshidul Zahid

Dissertation: Genetic and Dietary Regulations of Autophagy Activity and Cholesterol Homeostasis in Macrophage Foam Cells
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Dissertation: Modeling Multiphase Flow in Shale
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Krishna B. Bhandari

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Dissertation: High-throughput in Situ 3-D Phenotyping of Cotton Height, Leaf Area Index and Boll Distribution
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Dissertation: Genetic mapping of Leafspot Resistant QTLs and Introgression into West African Adapted and US-High Oleic Peanuts
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Dissertation: Hungry for Violence: How Food Security Influences Contentious Politics
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Dissertation: Repensando la Literatura Híbrida y Posmoderna: La Justicia Como Herramienta Analítica del *noir histórico*
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SPECIAL EDUCATION

Kathi Beyer Haynes

Dissertation: A Mixed Methods Study of Cross-age Math Tutoring Using Middle School Students Working with Low Math Achieving Kindergarten and First Grade Students
Major Professor: Janna Brendle

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Dissertation: Assessment and Treatment of Automatically Reinforced Behaviors: Examining the Relationship Between Physiological Responses and Aberrant Behaviors
Major Professor: Stacy Carter

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Dissertation: Variation and Plasticity and their Interaction with Urbanization in Guadalupe Bass Populations on and off the Edwards Plateau
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Dissertation: Developmental Morphology Quantification and Biomass Response to Seasonal Defoliation of Short, Mid and Tall Grasses of North America
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WIND SCIENCE AND ENGINEERING

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Dissertation: Using Multiple Non-doppler LIDARs for Wind Turbine Wake Detection Under Different Inflow and Operating Conditions
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Thesis: Alibates Flint Quarries National Monument and Lake Meredith National Recreation Area: Incorporating Indigenous Perspectives on Cultural Resource Management

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Zinmar Win

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of the Spread of Cosmopolitanism Through Tango

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Thesis: The Effect of Infographics on the Recall of
Information About Genetically Modified Foods

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ANIMAL SCIENCES

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Thesis: Compassion Fatigue in
Animal Care Employees
Dee Ryan Church
Thesis: Investigations into Cardiopulmonary
Diseases in Bovine Calves
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ATMOSPHERIC SCIENCE

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Thesis: Comparing Observations and
Simulations of the Streamwise Vorticity
Current in a Tornadic Supercell Storm

BIOENGINEERING

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BIOLOGY

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Thesis: *Lactobacillus* Species Inhibit the
Growth and Biofilm Development of
Wound's Bacterial Pathogens

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Thesis: Studies on the Formation of Kinetic
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Ryan Stephen Cleary
Thesis: Exposure of Contaminants to Small Mammals Collected Near a Low-Level Radioactive Waste Site in the Amargosa Desert, Nye County, NV
Brittanie Lee Dabney
Thesis: Hormetic Effects of Glyphosate and Glyphosate-based Herbicides on Growth of *Prymnesium parvum*, a Harmful Alga
Katelyn Marie Haydett
Thesis: Seroprevalence of *Neospora caninum* in a Wild Pig (*Sus scrofa*) Population in Oklahoma
Kia Rose Renwick Hayes
Thesis: Influence of Life History Parameters on Patterns of Persistent Organic Pollutants in Cetaceans with an Emphasis on the Gray Whale (*Eschrichtius robustus*)

FINANCE

Isaac Tallerine

FOOD SCIENCE

Akhil Reddy Bora
Thesis: Identification of a Single Selective Enrichment Media for the Simultaneous Recovery of Salmonella, E. coli O157 on Beef Hide Swabs and Fecal Samples
Diego Eduardo Casas Murillo
Thesis: In-plant Validation of Harvest Process Controls, Environment Environmental Monitoring of STEC's and Salmonella and Antimicrobial Resistance and Virulence Factor Analysis of Isolated STEC's from Meat Processing Facilities in Honduras
Kathleen Grace Ladera Fermin
Thesis: Reduction of Methicillin-resistant *Staphylococcus aureus* in Fabrics using Machine Washing Treatments and Microwaves
Ishwar Katawal
Thesis: *Lactobacillus salivarius* L28 in Dog Kibble Results in Shifts in Microbial Indicators in Pet Fecal Samples After Feeding
Ashley Nicole Orange
Thesis: Reduction of Salmonella in Post-harvest Hot Pork Carcass and Chilled Head Meat Using Multiple USDA-FSIS Approved Interventions

GEOSCIENCES

Elena Renee Crowley-Ornelas
Thesis: Estimating Streamflow-recession Indexes Using Automated Methods with Application to Groundwater and Surface Water Interaction
Vincent Frederick Cunningham
Thesis: Identifying Brittle Deformation with Remote Sensing of Geomorphic Landforms on the Southern High Plains, West Texas

Rachel Erin Owen
Thesis: Surface Charging and Adsorptive Properties of Pyrolusite (β -MnO₂)
Miles Allen Rand

HOSPITALITY AND RETAIL MANAGEMENT

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Md Masud Rana
Michael Richard Von Ende-Becker
Thesis: An Optimization of Intermittent Therapy Treatment: A Time Scales Approach
Monir Uz Zaman

NUTRITION AND DIETETICS

Andrea I. Cervantes Bolaños

NUTRITIONAL SCIENCES

Zahra Feizy
Thesis: Nano-liposome Mediated Delivery of the Anti-diabetic Protein E4orf1
Hazera Binte Sufian
Thesis: Studying the Anticancer Properties of Parthenolide (PTL) in MCF-7 Breast Cancer Cells

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Mohannad Abdulaziz Almohanna
Lauren Chantile Winkelman

PHYSICS

Ramiro Torres Escobedo
Nafiz Jaidye
Mahsa Servati
Thesis: Imaging *Drosophila* Embryo Gastrulation to Identify Stress Fields and Biomechanical Feedback
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Thesis: Using Astrometric Wobble to Detect Black Holes with Gaia
Zhixing Wang

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PLANT AND SOIL SCIENCE

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Thesis: The Developmental Biology and Biochemistry of Peanut (*Arachis hypogaea*)
Testa and its Role in *Aspergillus* Resistance

Geeta Kharel

Thesis: Evaluating Different Models for Quantifying the Hydraulic and Thermal Properties of Pasture Unsaturated Soils

Mark David McDonald

Thesis: Impact of Conservation Management Practices on Greenhouse Gas Emissions in Semi-arid, Intensively Cropped Regions of Texas

Bianca Marie Rendon

Thesis: Co-occurrences and Behavioral Interactions of Wild Bees and Managed Honey Bees on Flowering Plants in a Semi-Arid Agroecosystem

Most Arifa Sultana

Thesis: Origin and Implication of Seed Coat Fragment Contamination on Yarn Quality

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Lauren Raylee Mason

Dylan Christopher Strickland

Victoria Nicole Uresti

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Hunter Lee Welborn

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MASTER OF SCIENCE IN CIVIL ENGINEERING

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Thesis: Effect of Void Characteristics on PCC Pavement Deflections

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Zackary S. Fleenor

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Thesis: Characterization and Fabrication of Semi-Insulating GaN for Photoconductive Semiconductor Switch Applications

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Thesis: Effect of the Non-ionic Surfactant and the Role of Multi-wetting Particles on the Interfacial Rheology of the Particle Laden Interfaces

Scott Alan Watkins

Thesis: Hydrodynamics of a Biologically Inspired Surface Coating

MASTER OF SCIENCE IN PETROLEUM ENGINEERING

Olanrewaju Oluropo Adebola

Thesis: Fluid in Place Simulation Analysis of Net-to-Gross, Petrophysical Cutoffs and Upscaling

Temitope Olusegun Amao

Thesis: Field Scale Prediction of Multiphase Production of Shale Gas Reservoirs

Abubakar Suleonibo

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Brock Travis Tittle

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Shawnda Price
Maggie Jean Puente
Shannon Evelyn Rawdon
Kaitlyn Michelle Shindoll²
Weston Reid Swift
Laura Elyse Throneberry
Michael Thomas John Tkatchuk
Briana Nicole Vela
2nd Degree: Spanish
Delaney Jaye Vickers
Jessica Brooke Weiner
Madison Allena Wilson
Alyssa Danielle Yount



BACHELOR OF APPLIED ARTS AND SCIENCES

Sehar Karimi Perez

BACHELOR OF ARTS

UNIVERSITY STUDIES

Brooks Taylor Baack
Brandon Layne Barry
Brielle S. Blaire
Hannah Aileen Byrne
Chasity Marie Chavez
Brady Arthur Davis³
Anna Margaret Dimit
Angela Lyn Everett-Melton
Raymond Anthony Flores
Austin Stewart Fuller
Lonzell Gilmore
Lawrence Shea Green
Carolyn Marie Harden
Kristen Victoria Hayes
Colleen Dianne Henson
Sean Perry Hightower
Mitchell Edward Johnson
Michael Jay Justice
Barbara Jean Kerr
Tyler John-Francis Kiernan
Thomas Peyton Mahan
Braden Kale Martin

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

UNDERGRADUATE CANDIDATES

Ashley Ann McPherson
Spencer John Murray
Sandra Orozco
Joseph G. Payne
William Michael Pellowski
Jessica Caitlyn Phelps
Joe Marcus Ramirez
Ronnie Alexander Richardson
Riley Day Roberts³
Joseph Kai Rounce
Stevie Michelle Sanchez¹
Garrett Thomas Setnan
Alejandro Gutierrez Suarez Jr.
Robert Scott Taylor
Luke Christian Tiller
Joshua Edward Webster
Mauriette Alexandria Williams
Gabrielle Simone Willis
Kaul McFarlin Wilson³
Michael Max Yi

BACHELOR OF SCIENCE

UNIVERSITY STUDIES

Jonathan Arenivas
Clayton Kyle Brake
Luis Casares
Nathan Paul Donovan
Judy Edwards
Dustin Rey Hernandez
Jack Edward Routt
Colton Tyler West

WIND ENERGY

Victor Eduardo Avila
Hayden Brooks Andrews
Zackery Lon Barker
Giulio Ulmini Valle Danino
Joshua Craig DeWees
Cesar Leonardo Escobar
Thomas Dean Manning
Michael George Medrano
Ian James Metcalf¹
April Nikole Villarreal



TEXAS TECH UNIVERSITY

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

BACHELOR OF ARTS

MUSIC

Austin Charles Jones³

THEATRE ARTS

Andrey Mendoza

BACHELOR OF FINE ARTS

ART

Haleigh Briana Corcorran²
Callie Murray²
Alexis Brooke Tutt
Dulce M. Villanueva

THEATRE ARTS

Jacob Slade Charlebois³
Charlotte Evans Harris³
Stetson Garth Smith

BACHELOR OF MUSIC

Edward Prentis Hafers Allen, Jr
Bethany Noelle Herrera
Ella Marie Lowrance
Jorge Alfredo Martinez³
Talisa Desiree Soto
Nathan Patrick Thorp
Joseph Mark Vasinda¹

RECEPTIONS AND OTHER CEREMONIES

INDIVIDUAL COLLEGE RECEPTIONS

Immediately After Commencement Ceremony

College of Architecture | Architecture Gallery

OTHER CEREMONY

Air Force ROTC Military Commissioning | Friday, August 10, 2:00 p.m., International Cultural Center

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

COLLEGE BANNERS

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

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



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

also reflect one of the original missions of Texas Technological College: “To provide students with a thorough education in textiles and technical engineering.” The shield features emblems that evoke the university, community, state and nation. In the upper-right quadrant, a book symbolizes religion and academic traditions. A star in the upper-left 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** 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. Below are the words “Excellence in a Global Market.” 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.

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.



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

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

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

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

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

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

COLORS REPRESENTING FIELDS OF STUDY

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

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

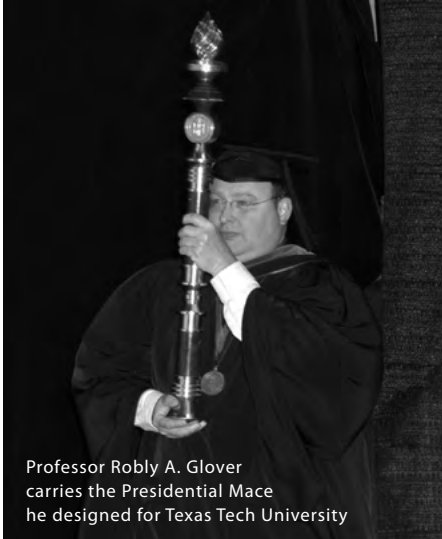
A professional photographer will be taking photos of graduates as they receive their diplomas. You may view and order photos online at www.candidcolorphotography.com. Click on "view proofs" and then "graduations." Images will be posted within 48 hours of the ceremony. Photographers also will be available 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.

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.



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

MACE BEARERS

9:00 A.M., AUGUST 11LYOMBE EKO, PH.D.

*Professor of Journalism and Electronic Media,
College of Media & Communication*

1:30 P.M., AUGUST 11LYNN HUFFMAN, PH.D.

*Professor of Restaurant, Hotel and Institutional Management,
Executive Associate Dean,
College of Human Sciences*

GRADUATION HONORS

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

Claudia Gonzalez Alcorta
Weston Lee Allen
Ian Michael Ash
Kendra Chastain Bailey
Jarrod Roy Bridges
Hayley Lynn Brownlow

Celeste Cherie Conroy
Alexander Edmond Cooke
Elizabeth De La Cruz
Rachel Lynn Gray
Danielle Marie Hunt
Morgan Michelle Kidd

Mattea Leigh Luckstead
Elizabeth Kay McKenna
Ian James Metcalf
Whitney Elizabeth Williams
Katelyn Danielle Wilson
Wendey Marie Wurmstein

CANDIDATES FOR MILITARY COMMISSIONS

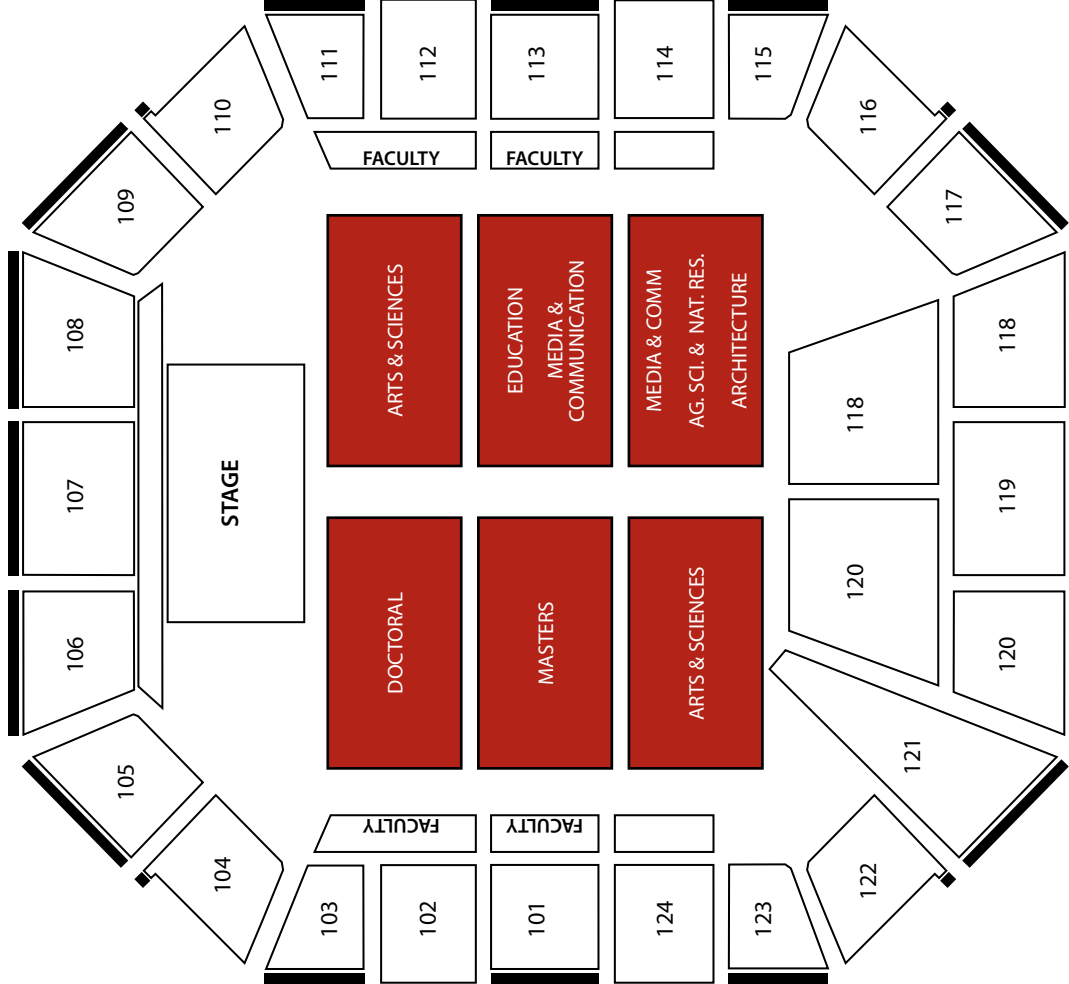
The following students are being commissioned as a Second Lieutenant in the United States Air Force:

Caleb Funkhouser
Hiro Goodson
Michael Wurmstein
Cody Peck
Jessica Keller

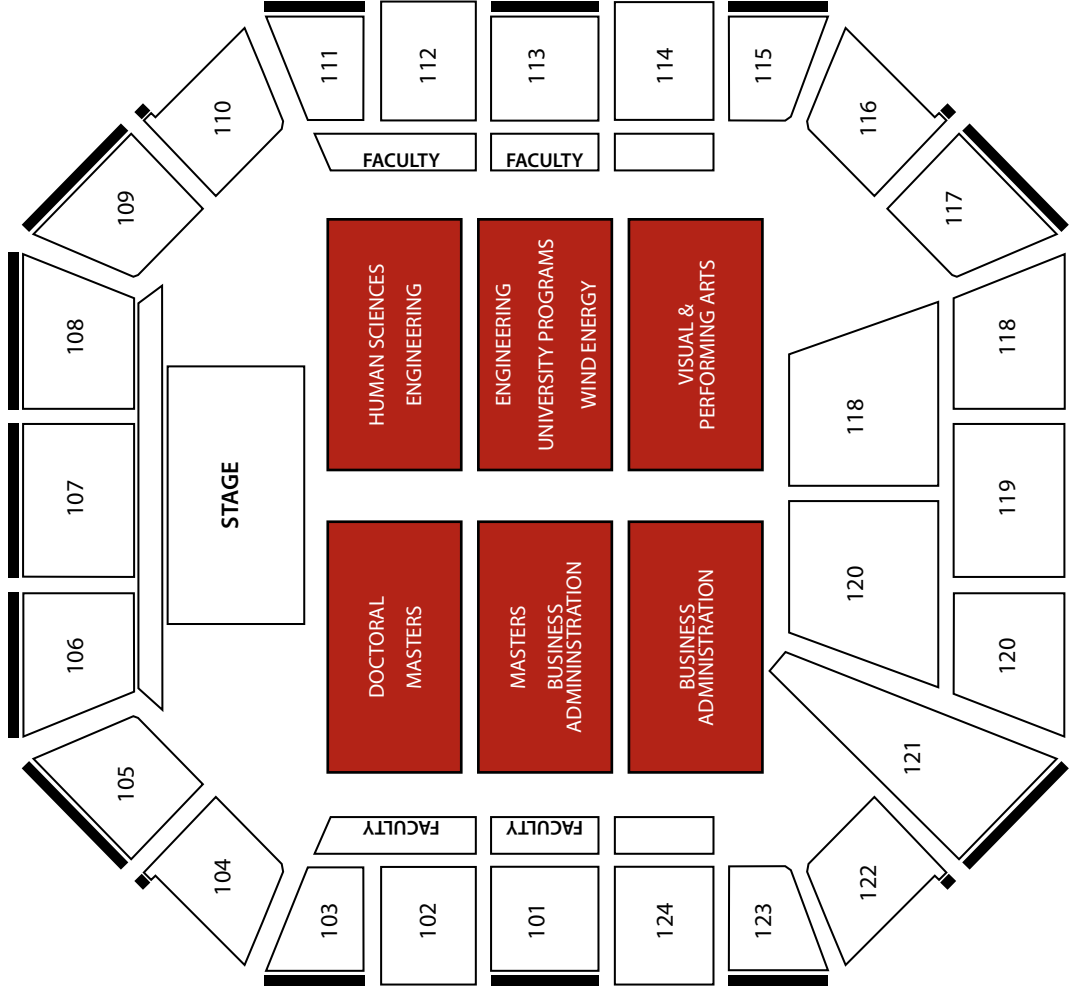
The following students are being commissioned as a Second Lieutenant in the Texas Army National Guard:

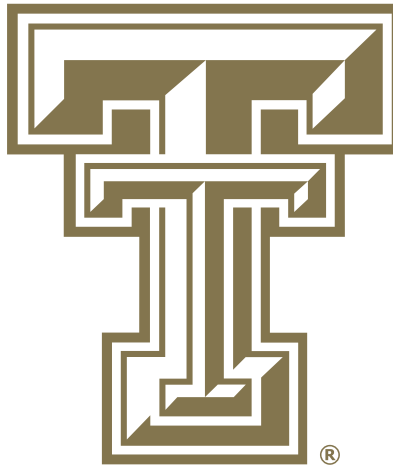
Joshua Austin Valdez

SATURDAY, AUGUST 11, 9:00 a.m.



SATURDAY, AUGUST 11, 1:30 p.m.





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 _____