SUMMER 2018 COMMENCEMENT
AUGUST 11
Lubbock, Texas
SUMMER 2018
COMMENCEMENT

Saturday, August 11, 2018 9:00 a.m. and 1:30 p.m.
UNITED SUPERMARKETS ARENA  LUBBOCK, TEXAS
As a public research university, Texas Tech advances knowledge through innovative and creative teaching, research, and scholarship. The university is dedicated to student success by preparing learners to be ethical leaders for a diverse and globally competitive workforce. The university is committed to enhancing the cultural and economic development of the state, nation, and world.
# Texas Tech University Administration

**Lawrence E. Schovanec, Ph.D.**  
President;  
Professor of Mathematics and Statistics

**Michael L. Galyean, Ph.D.**  
Provost and Senior Vice President;  
Horn Professor, Thornton Chair in Animal and Food Sciences

**Noel Sloan, J.D., CPA**  
Vice President for Administration & Finance;  
Chief Financial Officer

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# 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. Ronnie Hammond**  
Houston, Texas

**Mr. Tim Lancaster**  
Vice Chairman  
Abilene, Texas

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# Academic Officers

**Mark Sheridan, Ph.D.**  
Vice Provost for Graduate and Postdoctoral Affairs;  
Dean, Graduate School;  
Professor of Biology

**Jack Nowlin, Ph.D., J.D.**  
Dean, School of Law;  
Professor of Law

**William E. Brown, Ph.D.**  
Dean, College of Agricultural Sciences & Natural Resources;  
Professor, Animal and Food Sciences

**Jim Williamson, M.Arch.**  
Dean, College of Architecture;  
Professor of Architecture

**W. Brent Lindquist, Ph.D.**  
Dean, College of Arts & Sciences;  
Professor of Mathematics

**Margaret L. Williams, Ph.D.**  
Dean, Jerry S. Rawls College of Business

**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

**Michael San Francisco, Ph.D.**  
Dean, Honors College;  
Professor of Biology

**Linda C. Hoover, Ph.D.**  
Dean, College of Human Sciences;  
Professor of Restaurant, Hotel and Institutional Management

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

**Noel Zahler, D.M.A.**  
Dean, J.T. & Margaret Talkington College of Visual & Performing Arts;  
Professor of Music

**Bella Karr Gerlich, Ph.D.**  
Professor and Dean of Libraries
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.
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

Processional*
Texas Tech Commencement Band

National Anthem
Bethany Noelle Herrera
Graduating with a Bachelor of Music

Welcoming Remarks
Mr. John Steinmetz
Board of Regents, Texas Tech University System

Introduction of Commencement Speaker
Dr. Lawrence Schovanec

Commencement Address
Lamar Smith
Congressman, 21st Congressional District of Texas

Conferring of Degrees
Dr. Lawrence Schovanec
Dr. Michael Galyean
Provost and Senior Vice President

Presentation of Doctoral and Master's Degree Candidates
Dr. Mark Sheridan
Vice Provost for Graduate and Postdoctoral Affairs; Dean, Graduate School

Presentation of Bachelor's Degree Candidates
Dr. Randy McBee
Associate Dean, College of Arts & Sciences
Dr. Robin Lock
Associate Dean, College of Education
Dr. Amy Koerber
Associate Dean, College of Media & Communication
Dr. William Brown
Dean, College of Agricultural Sciences & Natural Resources
Prof. Jim Williamson
Dean, College of Architecture

Recognition of Outstanding Students
Class of 2018
Dr. Michael Galyean

Charge to the Graduates
Dr. Lawrence Schovanec

Alma Mater
(Words on Back Cover)
Talisa Desiree Soto
Graduating with a Bachelor of Music

Recessional*
Texas Tech Commencement Band

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

### Saturday, August 11, 2018
1:30 p.m.

<table>
<thead>
<tr>
<th>Event</th>
<th>Facilitator/Participant</th>
</tr>
</thead>
</table>
| **Presiding**                              | Dr. Lawrence Schovanec
  *President, Texas Tech University*            |
| **Processional**                           | Texas Tech Commencement Band
  *Dr. Sarah McKoin, Conductor*                |
| **National Anthem**                        | Bethany Noelle Herrera
  *Graduating with a Bachelor of Music*        |
| **Welcoming Remarks**                      | Mr. Robert Duncan
  *Chancellor, Texas Tech University System*   |
| **Introduction of Commencement Speaker**   | Dr. Lawrence Schovanec                                      |
| **Commencement Address**                   | Lamar Smith
  *Congressman, 21st Congressional District of Texas* |
| **Conferring of Degrees**                  | Dr. Lawrence Schovanec
  Dr. Michael Galyean
  *Provost and Senior Vice President*          |
| **Presentation of Doctoral and Master's Degree Candidates** | Dr. Mark Sheridan
  *Vice Provost for Graduate and Postdoctoral Affairs;
  Dean, Graduate School*                       |
| **Presentation of Bachelor's Degree Candidates** | Dr. Dennis Arnett
  *Associate Dean, Rawls College of Business*  |
| **Recognition of Outstanding Students**    | Dr. Michael Galyean
  *Class of 2018*                              |
| **Charge to the Graduates**                | Dr. Lawrence Schovanec                                      |
| **Alma Mater**                             | Talisa Desiree Soto
  *(Words on Back Cover)*                      |
| **Recessional**                            | Texas Tech Commencement Band                               |

*Please remain seated during the Processional and Recessional*
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  
Mr. Sangram Khandagale  
Dr. David Klein  
Dr. Belinda Kleinhans  
Dr. Jonathan Marks  
Dr. Barent Mccool  
Ms. Shoen Montgomery  
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

**COLLEGE READERS**

**Agricultural Sciences & Natural Resources** – 
Dr. Warren Conway  
**Architecture** – Mr. Derrick 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. Kimberly Saldana  
**Business** – Ms. Geleah Sharp  
**Education** – Ms. Karen Nokes  
**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

**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.
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.

### 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.

### DOCTOR OF EDUCATION

**HIGHER EDUCATION ADMINISTRATION**

<table>
<thead>
<tr>
<th>Candidate</th>
<th>Dissertation</th>
<th>Major Professor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rima Adil</td>
<td>First-year Structured Advising Programs and their Impact on Community</td>
<td>Stephanie Jones</td>
</tr>
<tr>
<td>Rebecca J. Garlick</td>
<td>Faculty Perceptions of the Implementation of Integrated Development</td>
<td>Stephanie Jones</td>
</tr>
<tr>
<td>Selsa Lucero Lerma</td>
<td>Persistence of First-generation, Part-time, Hispanic Students in Community Colleges</td>
<td>Stephanie Jones</td>
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### DOCTOR OF PHILOSOPHY

**AGRICULTURAL AND APLIED ECONOMICS**

<table>
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<tr>
<th>Candidate</th>
<th>Dissertation</th>
<th>Major Professor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lindsay West Kennedy</td>
<td>An Examination of Experiential Learning Theory in Agricultural Communications</td>
<td>Cindy Akers</td>
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### ANIMAL SCIENCES

<table>
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<tr>
<th>Candidate</th>
<th>Dissertation</th>
<th>Major Professor</th>
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<tbody>
<tr>
<td>Yu Liang</td>
<td>The Effects of Various Nutritional Supplements on the Development, Innate Immunity, and Gastrointestinal Health of Young Dairy Calves</td>
<td>Michael Ballou</td>
</tr>
<tr>
<td>Whitney Danielle McGilvray</td>
<td>Effect of Immune System Stimulation on Protein Metabolism and Amino Acid Utilization in Growing Pigs</td>
<td>Anoosh Rahkshandeh</td>
</tr>
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### BIOLOGY

<table>
<thead>
<tr>
<th>Candidate</th>
<th>Dissertation</th>
<th>Major Professor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alyssa Brook Word</td>
<td>Evaluation of Yeast, Nonsteroidal Anti-inflammatory, and Metaphylaxis Products in Feedlot Cattle: Mitigation of Bovine Respiratory Disease and Feedlot Performance</td>
<td>Michael Ballou</td>
</tr>
</tbody>
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### CHEMICAL ENGINEERING

<table>
<thead>
<tr>
<th>Candidate</th>
<th>Dissertation</th>
<th>Major Professor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Md Nazir Hossain</td>
<td>Thermodynamic modeling of Aqueous Electrolytes and Ionic Liquids (ILs) with Electrolyte Non-random Two Liquid (eNRTL) Model</td>
<td>Chau-Chyun Chen</td>
</tr>
</tbody>
</table>
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

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**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

---

**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=O (O,N) Unsaturated Bonds  
**Major Professor**: Michael Findlater

---

**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

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**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
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

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

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

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

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

Homr ‘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

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

Eevin 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

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:** Lief Ellingson

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 Llorente  
**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:** Wayne Lewis

Ameen Abdulalmohsin 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  
**Major Professor:** Katharine Long
Bin Li
Dissertation: In-plane and Out-of-plane Flexible Ring Tire Model Development and Validation
Major Professor: James Yang

Jingan Song
Dissertation: Molecular Dynamics Simulation of Atomic Material Behaviors at the Head-disk Interface in Hard Disk Drives
Major Professor: Chang-Dong Yeo

Udgumara Arachchilage Rakitha Wishwajith Sumanasekara
Dissertation: Interfacial Wave Dynamics of a Multiphase-drop System
Major Professor: Sukalyan Bhattacharya

Kailiang Zhang
Dissertation: Transapical Coaptation Plate for Functional Mitral Regurgitation: An In-Vitro Study
Major Professor: Zhaoqing He

MEDIA AND COMMUNICATION

Terri Nicole Manley
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 toward Gender: Gender and Gender Roles
Major Professor: Miglena Sternadori

NUTRITIONAL SCIENCES

Shao-Hua Chin
Dissertation: Pain, Discomfort, and Enjoyment during Moderate Exercise: Relationships to Weight Status and Diet Quality
Major Professor: Martin Binks

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
Major Professor: Shaikh Mizanoor Rahman

PERSONAL FINANCIAL PLANNING

Luu A. V. Augustin
Dissertation: Three Essays on Financial Education and Financial Literacy
Major Professor: Christopher Browning

Jennifer Lynn Lehman
Dissertation: Three Essays on Special Donation Types
Major Professor: Russell James

Zhikun Liu
Dissertation: Three Articles on Financial Planning Horizon
Major Professor: Russell James

Jacob Atwood Tenney
Major Professor: Charlene Kalenkoski

PETROLEUM ENGINEERING

Siyuan Huang
Dissertation: Experimental and Numerical Study of Air Injection in Light Oil Reservoirs
Major Professor: James Sheng

Sharanya Sharma
Dissertation: A Comparative Study of Huff-n-Puff Gas and Chemical Injection to Enhance Recovery from Shale Gas-condensate Reservoirs
Major Professor: James Sheng

Xiukun Wang
Dissertation: Modeling Multiphase Flow in Shale
Major Professor: James Sheng

PHYSICS

Yu Mao
Dissertation: Molecular Dynamic Simulation of Multi-component Lipid Bilayers Using Multi-scale Computing Techniques
Major Professor: Juyang Huang

Dong Xue
Dissertation: First Principles Study of Some Si-based Type-II Clathrate Materials
Major Professor: Charles Myles

PLANT AND SOIL SCIENCE

Krishna B. Bhandari
Dissertation: Arthropod and Soil Microbial Communities in Forage-livestock Systems
Major Professor: Charles West

Nothabo Dube
Dissertation: High-throughput in Situ 3-D Phenotyping of Cotton Height, Leaf Area Index and Boll Distribution
Major Professor: Glen Ritchie
Theophilus Kwabla Tengey  
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Antonio Miguel Bartolome
Hayley Lyn Brownlow 1
Heather Paige Campbell 3,4
Christian Campos
Emily Jewell Clark
2nd Major: Management
Blake Everett Clinton
Sarah Anne Collister 3
Alexander Edmond Cooke 3
Shelton James Cotton

FINANCE

Claire Elizabeth Allshouse 3
Chandler Thomas Alt
Cristian Agustin Arellano
Brendon Tyler Day
Andrew John Johnston
Michael Avery Kister
Ziadmustafa Mahmoud
Matthew Jared Martinez
William Duke McDowell II
Taylor Rae Mckie
William Tanner Pincince
Angus Stewart Robertson
Daniel Vega

BACHELOR OF BUSINESS ADMINISTRATION

ACCOUNTING

Amanda Nichole Adams 9
Harrison Beck Alford
Antonio Miguel Bartolome
Hayley Lyn Brownlow 1
Heather Paige Campbell 3,4
Christian Campos
Emily Jewell Clark
2nd Major: Management
Blake Everett Clinton
Sarah Anne Collister 3
Alexander Edmond Cooke 3
Shelton James Cotton

GENERAL BUSINESS

Logan Michael Lancarte
Alexandria Victoria Lee
2nd Degree: Agricultural and Applied Economics

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

INFORMATION TECHNOLOGY
Corey Mark Wilburn

MANAGEMENT
Robert Brooks Bacchus
Charles Taylor Bell
Berkley Lauren Brown
Madelyn Louise Darnell
2nd Major: Marketing
Derek Christopher DeRosa
Bailey Kathleen Dunavin
Dakota Braeden Durant
Randa Maree’ Freeman
Lisa Rene Gonsiorek
2nd Degree: Philosophy
Leesa Marie Grimaldo
Austin Randle Hankins
Ashley Danielle Hernandez
Rolando Hernandez
Elisha Harris Howard V
Alexandra Rae Hubbard
2nd Major: Marketing
Mason Dillard Johns
Tyler Swain Johnson
Christopher Michael Kinzie
Chauncelyn Lawrenelle Morris
Micah Marie Nehring
Garrett Scott Nemeth
Rodney Don Oaks, Jr.
Tanner Blake Osmer
Ramiro Perez
Payden Colleen Piaskowski
Michael Tye Rabe
Austin Chandler Rochow
James K. Rogers
Joseph Nicholas Rosato IV
2nd Major: Marketing
Jaleel Akhi Sadig
Austin Robert Todd
Atavia Lanae Vigil
Zachary David Villarreal
Katelyn Danielle Wilson

MANAGEMENT INFORMATION SYSTEMS
William Joseph Binz
Jonathan Stefan De Los Santos
Jakob Emery Dennis
Jordan Paul Edwards
John Brandon Schatz
Tyler James Weldon
Tyler A. Whitman

MARKETING
Tyler Thomas Anderson
Susan Aveyta
Carl Ross Bonano
Ryan Keith Bih Brown
Kevin Lee Burright
Jonathan Douglas Carroll
Sally Anne Enright
Kelly Brooke Falksen
2nd Major: Management
Erica Renee Gonzalez
Taylor Lauren Gray
Andrew J. Koke
Mark Maxwell Kruger
Christopher Matthew Lawrence
Keifer Alexander Lenamond
Jonathan Menjivar Lopez

Supply Chain Management
Vicor Lopez
Anthony Lee McClain

BACHELOR OF SCIENCE
MULTIDISCIPLINARY STUDIES
Cynthia Acosta
Ashley Michele Schirico Adams
Ryan Adams
Iida Reyes Aldana
Prissila Alvarez
Yesenia Elizabeth Amador
Beatriz Andrade
Erin Ashley
Amber Elizabeth Nichole Askey
Rebecca Marie Austin
Hillary Morgan Bauer
Megan L. Bermea
Maria Guadalupe Betancourth
Kaitlan Ann Blankenship
Briana Alexandra Boudlin
Kimberly Lynn Bryant
Rebecca Crystal Burch
Lilia Aydee Caban Banda
Sonia Ivonne Cabrera
Claudia Gisselle Castelnau
Stephanie Naomi Castillo
Emily Rose Castor
Diandra Renae Castro
Yamileth Cedillos
Karen Olivia Celestino
Gabriela Chavez
Rosemarie Chavez
Sheelce Clark
Mirna Yesenia Colley
Nora Celeste Contreras
Nancy Cortez
Hannah Leigh Courson
Jacqueline Gomez Cruz
Cherie Nicole Curry
Elizabeth De La Cruz
Michael Dobratz
Sara Elizabeth Dumboski
Amanda Marie Esquivel
Amy Ellen Farrell
Paige Caroline Faulkner
Thalia La Chi Frazier
Oriana Flores
Leah Renee Foster
Elissa Ann Gallagher
Amada Lucia Longoria Garcia
Denise Garcia
Monica Garcia
Melissa Sarahi Garza
Shelby Glover
Claudia Gonzalez Alcorta
Maria P. Gonzalez
Paulina Gonzalez
Tavana Grady
Austin Grant
Sarah Marie Guffey
Erika Michelle Gulick
Kimberly Ann Hagins
Brittney Rose Henarie
Elizabeth Hernandez
Susana Herrera
Nico Hilario Ramirez
Brittany Nicole Hitt
Shalamar Shanay Hood
Cayla Brooke Jackson
Maria C. Jimenez
Braylie Mackenzie Johnson
Andrea Reyen Kennedy
Crystal Anne Laubach
Brittney Francis LeRoy-Monte
Kayla Rae Loftin
Vanessa Anna Lugo
Cristina Luna
Melissa Macias
Courtney Mahle
Jasmin Jené Mallory
Emilio Santos Martinez
Kaylee Antonia Martinez
Nadia Alexandra Medellin
Erin Elizabeth Mesa
Cheyann R. Milner
Rachel Kylie Mooney
Jovanna Oceguera
Maria Padilla Ochoa
Aimee Pacheco
Logan Ashley Pence
Courtney Taylor Pomerening
Emily Darlene Poor
Ashton Marie Pope
Stephen Matthew Posada
Cesar Quintero
Jannet Arreola Rangel
Kathryn Denice Reyna
Alma Delia Rodriguez
Irene Isabel Rodriguez
Myra Rodriguez
Lisa Marie Rositas
Bertha Ruiz-Orozco
Vanessa Lisbeth Ruivalaca
Ana K. Salas
Jessica Sanchez Canelo
Assata Sanifu
Martha Santibanez
Samantha J. Santos
Travis Andrew Sellards
Morgan Paige Stasny
Savannah Katherine Stephens
Yuliana Thamez
Summa Cum Laude 2
Magna Cum Laude
Cum Laude 2
With Honors
With Highest Honors
SUPPLY CHAIN MANAGEMENT
Orion Lee McClain

Texas Tech University College of Education

Texas Tech University
UNIVERSITY OF TEXAS AT EL PASO

UNDERGRADUATE CANDIDATES

BACHELOR OF SCIENCE

CHEMICAL ENGINEERING
José Joaquin Dueñas Parales
Dustin R. Kenefake

CIVIL ENGINEERING
Armand Ismael Hernandez
Miguel Alejandro Ortiz
Kamyab Rahnama Moghaddam

COMPUTER ENGINEERING
Colton Taylor Heinrich
Victor Andres Solís
Clayton Scott Vass
William Starnes Vining

COMPUTER SCIENCE
Max Bernard Kirkby
Alexander Nikola Schryer
Shrey Shrivastava

CONSTRUCTION ENGINEERING
Ruben Faz
Marco A. Garcia
Hermann Anthony Niamba

ELECTRICAL ENGINEERING
James Dalton Calaway
Roberto Antonio Contreras
Hrishikesh Das
Duc Trung Ho
Antony Ndungu Kahumbu
Kelsey Nicole Leggett
Hassan Wahaj Malik
Saad Siddiq

ENVIRONMENTAL ENGINEERING
Taylor Leigh Allison

INDUSTRIAL ENGINEERING
Nivaldo Agnelo Paiva Avelino
Kyle A. Collins
Hiro Shimizu Goodson
Daniel John Kasprzak Jr.
Derek Michael Tully
Cynthia Yang Xu

MECHANICAL ENGINEERING
Heriho Shebindu Adam
Muhammad Asad Ur Rehman
Authen Carrasco
Matthew Alston Carroll
William Leo Christian
Russell Michael Curlee
Brandon Dale Ellis
Raveen Nishendra Fernando
Caleb Willis Funkhouser
Austin Reid Grant
Bella Ana Greenwell Schilling
Miles Elliot Gully
Jessica Lynn Keller
Trent Mitchell Lambert
Amin Ali Mohammed
Jeffrey Robert Murray

Jacob Nicholas Orth
Troy D. Palmer
Michael James Phillips
Blake Conrad Pratt
Yannick S. Sinte
Trenton Lane Smith
Cody James Striker
Sean Nicholas Swigert
Hieu Trung Tran
Robert Austin Welsh
Shea Paul Wood
Irene Jingdong Zhou

Petrochemical Engineering
Rohan Agarwal
Malik Busoul
Madina Intykbayeva

PETROLEUM ENGINEERING

BACHELOR OF ARTS

HONORS ARTS AND LETTERS
Chloe Rose Shrode
Varun Vemulapalli

BACHELOR OF SCIENCE

APPAREL DESIGN AND MANUFACTURING

Brandy Nicole Calloway
Ismael Castro
Elizabeth Claire Kaplan
Beatriz Machado
Breana Maricela Martinez
Raegan Elizabeth McGuire
Jessica Chizoba Ozoude
Peyton Nicole Warren
Bonnie Christine Weiler
Angela Marie Williams

COMMUNITY, FAMILY, AND ADDICTION SCIENCES

Kayla Louise Anderson
Brittany Anne Pearce
Sarah Marissa Fuhrmeister
Danielle Marie Hunt
Anna Catherine Loper
Melissa Ann Silva
James Edward Smith, Jr.
Patrick Robert Vann
Daniela Alexis Villar

HUMAN DEVELOPMENT AND FAMILY STUDIES

Tye Lea Basquez
Celeste Christie Conroy
Kambree Madissen Cenccsits
Brittney Alexis De La Vega
Devin Raye Dixon
Taylor Jade Dixon
Christin Maria Donnellan

HUMAN SCIENCES

NUTRITION

Brenda Sucena Araujo
Kendra Chastain Bailey
Katia Montserrat Castillo
Rebecca Nicole Cross
Erica Sue Davis
Kriti Dhugel
Tochi Eboh
Henry Nebale Efamba, Jr.
Caroline Grace Fisher
Tamara Nicole Forburger
Katherine Elizabeth Gense
Alexandra Denise Kobus
Julia Anne Nichols
Jordyn Lexi Poindexter
Taylor Jean Preston
Jordan Stark
Emily Margaret Tracy

1Summa Cum Laude 2Magna Cum Laude 3Cum Laude 4With Honors 5With Highest Honors
PERSONAL FINANCIAL PLANNING
Adam Charles Carlton

RESTAURANT, HOTEL, AND INSTITUTIONAL MANAGEMENT
Honoria Sole Andrews
Cameron Alexander Barrett
A'aya Nasser Bashiti
Jolie Danielle Bass
Ciara Claire Berry
Alyssa Nicolle Box
Marsilol Renee Garza
Justin John Gregg
Hannah Carter Lindsey
Sonia Gabriella Loera
Hannah Kate McLeod
Scott Harrison Peerman
Caitlin Angeline Ramirez
Tyler Scott Rogers
Mikayla Danielle Sanders
Kendall Paige Tilling
Jacqueline Torres

RETAIL MANAGEMENT
Salman Ali
Hayley Nicole Boylan
Haley Marie Davis
Elizabeth Bernadette Estrada
Megan Elizabeth Gray
Shannon Leigh Hirl
Bailey Nicole Martin
Dahlila Renee' McDonough
Blake Edward Miller
Natalie Vanessa Rangel
Sierra Mali Snyder

COMMUNICATION STUDIES
Joshua Christian Amosson
Connelly Preston Bock
Robert Harry Dobbs III
Elizabeth Fraser
Madison Rose Guyer
Obie David Hallum
Madeleine Hogle
Mattea Leigh Luckstead
Kalyn Mclean
Sean O'Dell
Ricky Gonzales Perez
Sydney Dimitrafay Ross
Madison Beverly-Jon Sandvig
Elizabeth Rubi Soto
Curtis Victor Spivey
Paige Elizabeth Stewardson
Samantha Marie Zurita

ELECTRONIC MEDIA AND COMMUNICATIONS
Grant Stephenson Andrews
Jeremy Santos Gonzales
Nicholas Allan Hay
Karson William Jones
Christopher Allen Matthews
Taylor Brooke Olson
Grant Precella
Sara Elizabeth Sanchez
Travis Jeffrey Seifer
Simranjit Singh

JOURNALISM
Jasmine Cheyney Stevens
Jonah Dean Tuls
Haley Renee Turner

MEDIA STRATEGIES
Omar Baasiri
Michael Bahls
Sarah Elizabeth Carsey
Kathryn Ann Conway
Herbert DeAnthony Frazier, Jr.
Austin Michael Gutierrez
Ian Dwyer Johnsen
Brian Kimball
Kaitlin Hannah Kirkpatrick
Kristina Paige Litzkow
Danielle Marie Siek
Leighton Webster
Luke Lawrence Zeske

PUBLIC RELATIONS
Kiki Brooke Alshouse
Lauren Alexis Barta
Blake Alexander Bayardo
Hannah Sheree Bowden
Devin Michelle Cade
Mariah Celeste Contreras
Jessica Karina Gomez
Alexandra Lee Hansen
Ashleigh Michelle Hernandez
Kendall Leigh Hoff
Caiyn Hossner
Seok Hyun Kang
Riley Elizabeth Karr
Marcos Joel Lira
Meagan Alyssse Macke
Erik Thomas Mahal
Patrick O'Grady McKenney
Ashleigh Nicole Mitchell
Johnny Rene Morales
Minsung Park
Shawnda Price
Maggie Jean Puente
Shannon Evelyn Rawdon
Kaitlyn Michelle Shindoll
Weston Reid Swift
Laura Elyse Throneberry
Michael Thomas John Tkatchuk
Briana Nicole Vela
Hailey Renee Turner

TEXAS TECH UNIVERSITY
College of Media
& Communication
BACHELOR OF ARTS
ADVERTISING
Kasey R. Barnes
Jade Jaclyn Beerman
Cason Sloan Brownlie
Brandon Burke
Cory Brian Frederick
Tanyamarie Inez Gumtang Sering
James Kerr Hague
Grant Stice Haka
Nicholas Hauptmann
Ariana Gabrielle Hernandez
Vivien Hock
Zachary Lynn Hyles
Trevor Malik Lloyd
Zachary Boyce Merklein
Alexa Rae Moreno
2nd Major: Media Strategies
Matthew Todd Redwine
Jennifer Nicole Rogers
Anthony Ray Rosas
Alec Nicholas Sobocinski

BACHELOR OF APPLIED ARTS AND SCIENCES
Sehar Karimi Perez

BACHELOR OF ARTS
UNIVERSITY STUDIES
Brooks Taylor Baack
Brandon Layne Barry
Brielle S. Blair
Hannah Aileen Byrne
Chasity Marie Chavez
Brady Arthur Davis
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

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

AUGUST 2018

UNDERGRADUATE CANDIDATES

Ashley Ann McPherson
Spencer John Murray
Sandra Orozco
Joseph G. Payne
William Michael Pellowski
Jessica Caitlyn Phelps
Joe Marcus Ramirez
Roniie Alexander Richardson
Riley Day Roberts ³
Joseph Kai Rounce
Stevie Michelle Sanchez ¹
Garrett Thomas Setnan
Alejandro Gutierrez Suarez Jr.
Robert Scott Taylor
Luke Christian Tiller
Joshua Edward Webster
Mauriette Alexandria Williams
Gabrielle Simone Willis
Kaul McFarlin Wilson ³
Michael Max Yi

BACHELOR OF SCIENCE

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

BACHELOR OF ARTS

WIND ENERGY

Victor Edwardo 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 Metcalf ⁷
April Nikole Villarreal

BACHELOR OF FINE ARTS

ART

Haleigh Briana Corcoran ²
Callie Murray ³
Alexis Brooke Tutt
Dulce M. Villanueva

THEATRE ARTS

Jacob Slade Charlebois ³
Charlotte Evans Harris ³
Stetson Garth Smith

BACHELOR OF MUSIC

Edward Prentis Hafers Allen, Jr
Bethany Noelle Herrera
Elia Marie Lowrance
Jorge Alfredo Martinez ³
Talisa Desiree Soto
Nathan Patrick Thorp
Joseph Mark Vasinda ¹

UNIVERSITY STUDIES

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

BACHELOR OF ARTS

MUSIC

Austin Charles Jones ³

THEATRE ARTS

Andrey Mendoza

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
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. Marvin Cepica, former dean of the college, developed the design with approval and input from the College Marketing Committee. The background color, maize, was established by the Intercollegiate Code to represent the agricultural disciplines. The design, with a map of the continent of North America, reflects the global scope of modern agriculture and natural resources management.

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

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

The Jerry S. Rawls College of Business 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.
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.
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

9:00 A.M., AUGUST 11 .........................................................LYOMBE EKO, PH.D.
Professor of Journalism and Electronic Media, College of Media & Communication

1:30 P.M., AUGUST 11 .........................................................LYNN 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
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.