TEXAS TECH UNIVERSITY

SUMMER 2022

Commencement

Saturday, August 6, 2022
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

RONALD L. HENDRICK, Ph.D.
Provost and Senior Vice President;
Professor of Natural Resources Management

NOEL SLOAN, J.D., CPA
Senior Vice President for Administration & Finance;
Chief Financial Officer

JOSEPH HEPPERT, Ph.D.
Vice President for Research & Innovation;
Professor of Chemistry

CAROL SUMNER, Ed.D.
Chief Diversity Officer and Vice President of the Division of Diversity, Equity & Inclusion

TEXAS TECH UNIVERSITY SYSTEM
CHANCELLOR / BOARD OF REGENTS

TEDD L. MITCHELL, M.D.
Chancellor, 
Texas Tech University System

MR. J. MICHAEL LEWIS
Chairman 
Dallas, Texas

MR. MARK GRIFFIN
Vice Chairman 
Lubbock, Texas

MR. JOHN D. STEINMETZ
Dallas, Texas

MR. JOHN B. WALKER
Houston, Texas

MR. DUSTY WOMBLE
Lubbock, Texas

MS. GINGER KERRICK DAVIS
Webster, Texas

MS. ARCILIA ACOSTA
Dallas, Texas

MR. CODEY CAMPBELL
Fort Worth, Texas

MR. PAT GORDON
El Paso, Texas

MR. HANI MICHAEL ANNABI
El Paso, Texas

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

GUY LONERAGAN, Ph.D.
Dean, School of Veterinary Medicine;
Professor of Food Safety and Public Health

EARNSTEIN DUKES, M.L.S.
Dean of Libraries 
Librarian

CINDY L. AKERS, Ed.D.
Interim Dean, Davis College of Agricultural Sciences & Natural Resources;
Professor of Agricultural Communications

URS PETER FLUECKIGER, M.Arch.
Dean, College of Architecture;
Professor of Architecture

TOSHA DUPRAS, Ph.D.
Dean, College of Arts & Sciences;
Professor of Anthropology

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

JESSE PEREZ MENDEZ, 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

SUSAN TOMLINSON, Ph.D.
Acting Dean, Honors College;
Professor of Environment & the Humanities

TIM DODD, Ph.D.
Dean, College of Human Sciences;
Professor of Hospitality Management

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

MARTIN CAMACHO, D.M.A.
Dean, J.T. & Margaret Talkington College of Visual & Performing Arts;
Professor of Music

PATRICK C. HUGHES, Ph.D.
Dean, University Studies;
Professor of Communication Studies
FROM ITS VERY BEGINNING

the Texas Tech University community has had a sense of destiny and an awareness of the impact it could and would have on Texas and the wider world. Originally named Texas Technological College, Texas Tech opened in 1925 with six buildings, four schools (Agriculture, Engineering, Home Economics, and Liberal Arts), and an enrollment of 914. Texas Tech grew rapidly after World War II, and in 1969 the Texas legislature approved a name change to Texas Tech University. In the years since, Texas Tech has grown to become the largest comprehensive higher education institution in the western two-thirds of the state. The university is the major institution of higher education in a region larger than 46 of the nation’s 50 states.

Today, Texas Tech continues to thrive, with more than 40,000 students enrolled in its 11 colleges: Davis College of Agricultural Sciences & Natural Resources, Architecture, Arts & Sciences, Jerry S. Rawls College of Business Administration, Education, Edward E. Whitacre, Jr. College of Engineering, Honors College, Human Sciences, Media & Communication, J.T. & Margaret Talkington College of Visual & Performing Arts, and the Graduate School, as well as University Studies via the Office of the Provost.

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 includes Texas Tech University, Angelo State University, Midwestern State University, Texas Tech University Health Sciences Center, and Texas Tech University Health Sciences Center at El Paso.
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 alumni and 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.

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.
**COMMEENCEMENT CEREMONY**

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**Saturday, August 6, 2022**

**9:00 a.m.**

<table>
<thead>
<tr>
<th>Event</th>
<th>Person/Title</th>
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<tbody>
<tr>
<td>Presiding</td>
<td>Dr. Lawrence Schovanec, President, Texas Tech University</td>
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<tr>
<td>Processional*</td>
<td>Texas Tech Commencement Band, Dr. Joel E. Pagán, Conductor</td>
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<tr>
<td>National Anthem</td>
<td>Ms. Karina Lago, Master of Music, August 2022</td>
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<tr>
<td>Welcoming Remarks</td>
<td>Mr. Mark Griffin, Vice Chairman, Board of Regents, Texas Tech University System</td>
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<tr>
<td>Student Speaker</td>
<td>Ms. Uyen Hong Nguyen, Doctor of Philosophy in History, August 2022</td>
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<tr>
<td>Conferring of Degrees</td>
<td>Dr. Lawrence Schovanec, Dr. Darryl James, Vice Provost for Institutional Effectiveness</td>
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<tr>
<td>Recognition of Outstanding Students Class of 2022</td>
<td>Dr. Darryl James</td>
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<tr>
<td>Charge to the Graduates</td>
<td>Dr. Lawrence Schovanec</td>
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<tr>
<td>Alma Mater (Words on Back Cover)</td>
<td>Mr. Jietong Fu, Doctor of Musical Arts, August 2022</td>
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<tr>
<td>Presentation of Degree Candidates</td>
<td>Dr. Heather Greenhalgh-Spencer, Associate Dean, Graduate School</td>
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<td>Dr. Martin Camacho, Dean, J.T. &amp; Margaret Talkington College of Visual &amp; Performing Arts</td>
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<td>Dr. Susan Tomlinson, Acting Dean, Honors College</td>
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<td>Prof. Urs Peter Flueckiger, Dean, College of Architecture</td>
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<td>Dr. Margaret Williams, Dean, Jerry S. Rawls College of Business Administration</td>
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<td>Dr. Tosha Dupras, Dean, College of Arts &amp; Sciences</td>
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<td>Closing of Ceremony</td>
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* Please remain seated during the Processional.
**Saturday, August 6, 2022**

**1:30 p.m.**

<table>
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<td>National Anthem</td>
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<tr>
<td>Student Speaker</td>
<td>Ms. Sydney Aalbers, Bachelor of Science in Agricultural Communications, August 2022</td>
</tr>
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<tr>
<td>Alma Mater <em>(Words on Back Cover)</em></td>
<td>Mr. Spencer Ruwe, Master of Music, August 2022</td>
</tr>
<tr>
<td>Presentation of Degree Candidates</td>
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<td>Dr. Patrick Hughes, Dean, University Studies</td>
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<td>Dr. Robert Cox, Interim Associate Dean, Davis College of Agricultural Sciences &amp; Natural Resources</td>
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<td>Dr. Rajesh Khare, Assistant Dean for Strategic Initiatives, Edward E. Whitacre, Jr. College of Engineering</td>
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<td>Dr. Shirley Matteson, Associate Dean, College of Education</td>
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<td>Dr. David Perlmutter, Dean, College of Media &amp; Communication</td>
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<td>Dr. Dorothy Durband, Associate Dean, College of Human Sciences</td>
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* Please remain seated during the Processional.
Uyen Hong Nguyen (Carie) is graduating with a Ph.D. in U.S Military History this summer 2022, in addition to her Master’s degree in International Affairs and a Graduate Certificate in Strategic Studies. Her dissertation uses the bottom-up micro-history approach to push beyond the traditional boundaries of military history, exploring cross-cultural human experiences in the Vietnam/American War between the U.S. Army’s Mobile Advisory Team advisors and their Vietnamese counterparts, local soldiers, and their families across many remote villages and hamlets in Viet Nam from 1968 to 1972. Her groundbreaking research has received strong endorsement and support from prestigious educational institutions, and Uyen was inducted into the Honor Society of Phi Kappa Phi at the Texas Tech chapter in spring 2022. She will be working this fall 2022 as a post-doctoral fellow with the Institute for Peace & Conflict at Texas Tech in partnership with the Defense POW/MIA Accounting Agency (DPAA), using historical knowledge and research to help locate and identify American MIAs in Vietnam, return their remains, and give an honorable closure to their surviving families.

Sydney Aalbers is from Burleson, Texas, and will be graduating summa cum laude with a Bachelor of Science in Agricultural Communications. Outside of the classroom, she was involved in Agri-Techsans, Ambassadors for Agriculture, Alpha Delta Pi, and High Riders. She will be continuing her education at Texas Tech to pursue a Master of Science in Agricultural Communications.
CONVOCATIONS COMMITTEE
Dr. Jhones Sarturi, Chair
Ms. Christy Adejokun
Dr. Rhonda Boros
Ms. Morgan Brannon
Dr. Corey Brelsfoard
Dr. Carla Davis Cash
Ms. Luciana Cavaezos
Dr. Yoojin Chae
Ms. Jordan Dahl
Ms. Amilee Dixton
Dr. Sara Dodd
Dr. Courtney Gibson
Dr. Michael Giesselmann
Dr. Lauren Griffith
Mr. Alastair Hamilton
Dr. Annette Hernandez
Dr. Zach Hohman
Mr. Nate Imai
Dr. Molly Ireland
Dr. Catherine Jai
Ms. Louordes Juan
Dr. Jin Jung
Dr. Jacob Kirksey
Ms. Bethany Kuwitzky
Dr. Stacy Lee
Dr. Ann Mastergeorge
Ms. Aaliyana Mayfield
Dr. Miwha Park
Dr. Michelle Pearson
Dr. Cynthia Phelps
Dr. Christy Rogers
Mr. Tom Rohrig
Ms. Jayne Sappington
Dr. Sarah Schwintz
Dr. David Sears
Dr. Leslie Thompson
Dr. Susan Tomlinson
Mr. Von Verhuizen
Ms. Kim Walker
Dr. Zhe Wang

COLLEGE READERS
Davis College of Agricultural Sciences & Natural Resources – Dr. Jyotsna Sharma
College of Architecture – Dr. Bill Gelber
College of Arts & Sciences – Dr. Jorge Iber
Rawls College of Business Administration – Mr. Derrick Ginter
College of Education – Dr. Ana Torres
Whitacre, Jr. College of Engineering – Mr. Wesley Colquitt
Graduate School – Dr. Babu John Mariadoss
College of Human Sciences – Dr. Bill Gelber
Honors College – Dr. Bill Gelber
College of Media & Communication – Dr. Todd Chambers
University Studies – Ms. Raynie Gibbs
Talkington College of Visual & Performing Arts – Dr. Bill Gelber

STUDENT BANNER BEARERS
Davis College of Agricultural Sciences & Natural Resources – Mr. Hunter Hudson
College of Architecture – Mr. Cash Varner
College of Arts & Sciences – Ms. Virginia Finster
Rawls College of Business Administration – Ms. Meghan Keough
College of Education – Ms. Peyton Christian
Whitacre, Jr. College of Engineering – Ms. Morgan Loiseau
Graduate School – Ms. Lauren Pascarella and Mr. Alex Smith
College of Human Sciences – Ms. Amanda Castro
Honors College
9:00 a.m. – Ms. Nanette Dolera
1:30 p.m. – Mr. Logan Schlegel
College of Media & Communication – Ms. Toluwani Osibamowo
University Studies – Ms. Sandra Bagwell
Talkington College of Visual & Performing Arts – Ms. Lauren Martin

MUSIC ENSEMBLE
The commencement music ensemble is comprised of students from the Texas Tech University School of Music under the direction of Dr. Joel E. Pagan. Their participation is funded through the auspices of the Office of the President, Texas Tech University.

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

ACKNOWLEDGEMENTS
This program is an unofficial list of Summer 2022 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.
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.

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**DOCTOR OF EDUCATION**

**EDUCATIONAL LEADERSHIP**

- **Jesús Arenas Jr.**
  *Dissertation: Refining Teachers’ Self-Efficacy and Cultural Responsiveness to Improve Hispanic Students’ Educational Outcomes: An Action Research Design-Based Intervention Model*
  *Major Professor: Joseph G. Claudet*

- **Wesley Neal Benjamin**
  *Dissertation: Building Instructional Leadership Capacity within Novice Assistant Principals*
  *Major Professor: Joseph G. Claudet*

- **Chris Brattain**
  *Dissertation: The EQ Intervention Applying Social Emotional Learning Intervention Strategies Within a Discipline Alternative Education Program*
  *Major Professor: Irma Almager*

- **Lisa Judith Cano**
  *Dissertation: Improving Leadership and Teaching: An Action Research Study’s Implementation of Coaching and Data Processes Within the PLC Framework for Highly Effective Culturally Responsive English Learner Practices*
  *Major Professor: Irma Almager*

- **Chrysta Maria Carlin**
  *Dissertation: The Impact of Professional Learning on Teachers’ Ability to Move from a Culture of Accountability to a Culture of Student Growth in a Project-based Learning Environment*
  *Major Professor: Joseph Claudet*

- **Mandy Michelle Chapple**
  *Dissertation: A Design-based Improvement Study of a Targeted Professional Development Intervention Plan for Career and Technical Education Teachers*
  *Major Professor: Joseph Claudet*

- **Ronald Duane Gatlin**
  *Dissertation: Increasing Student Engagement in the Classroom: A Design Development Study of Implementing Proactive Relationship Building Strategies and Increasing Teacher Efficacy in a Major Suburban Middle School*
  *Major Professor: Joseph Claudet*

- **Patricia Glenice Lewis**
  *Dissertation: Program Evaluation on the Effectiveness of a University-based and School District Principal Preparation Partnership through an Insider-researcher approach*
  *Major Professor: Dusty Palmer*

- **Lisa Marie Marroquin**
  *Dissertation: Improving Emergent Bilingual Learners Academic Outcomes in Reading: An Action Research Study of Cognitive Actions on Primary Reading Instruction*
  *Major Professor: Dusty Palmer*

- **Brian Edward McCraw**
  *Dissertation: Recruitment and Retention in Human Capital: A Human Capital Evaluation for Sustainable Teacher Recruitment and Retention Practices in Rural Schools through an Insider-researcher Approach*
  *Major Professor: Dusty Palmer*

- **Tamara Mayfield McWilliams**
  *Dissertation: Developing Instructional Capacity in Secondary ELAR Teachers: Teaching Reading Comprehension in Middle School and High School*
  *Major Professor: Joseph Claudet*

- **Amy Taylor**
  *Dissertation: An Action Research Study on Impacting Growth Mindset of School Leaders on Teaching and Learning in K-12 Schools*
  *Major Professor: Dusty Palmer*

- **Neryeda Trevino**
  *Dissertation: Opening a Virtual School: Examining Leadership Effectiveness for Stakeholder’s Success*
  *Major Professor: Fernando Valle*

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**HIGHER EDUCATION ADMINISTRATION**

- **Patrick Thomas Frazier**
  *Dissertation: First Impressions: The Relationship Between First-year Transition Program Participation and Students’ Satisfaction with their College Experience*
  *Major Professor: Grant Jackson*

- **Michelle Kathleen Orcutt**
  *Dissertation: The Impact of Instructor Immediacy Behaviors on Student Retention and Self-reported Class Success in Online Courses*
  *Major Professor: Grant Jackson*

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**DOCTOR OF MUSICAL ARTS**

- **Jietong Fu**
  *Dissertation: Zi Huang’s Art Songs: A Marriage of Chinese and Western Music and Thought*
  *Major Professor: Gregory Brookes*

- **Benjamin Lee Holmes, Jr.**
  *Dissertation: An Annotated Bibliography of Rudimental Snare Drum Resources Containing Hybrid Rudiments*
  *Major Professor: Lisa Rogers*

- **Brad Nicholas Light**
  *Dissertation: No More!: Music for Choir and Electronic Media*
  *Major Professors: John Hollins and Alan Zabriskie*

- **Pei-Han Lin**
  *Dissertation: A Preparation Guide to Lou Harrison’s Concerto for Piano with Javanese Gamelan*
  *Major Professor: Carla Davis Cash*

- **Michael Steven Míxtacki**
  *Dissertation: Timba Drum Set: Performance Practice and Contemporary Application*
  *Major Professor: Lisa Rogers*

- **Issac Sabino Vargas García**
  *Dissertation: Influence of Folklore and European Classical Music Tradition in the Music by Latin-American Composers through the Example of Manuel M. Ponce*
  *Major Professor: Daniel del Pino*

- **Danqi Wang**
  *Dissertation: Integrating Different Cultures: A Study of Zhou Long’s Confluence for Solo Flute and Su (Tracking Back) for Flute and Harp*
  *Major Professor: Lisa Garner Santa*

- **Xin Wu**
  *Dissertation: Zi Huang and Brahms: A Comparative Study of Early Chinese Art Songs and Romantic German Lied Through Piano Accompaniment*
  *Major Professor: Daniel del Pino*

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**DOCTOR OF PHILOSOPHY**

**AGRICULTURAL AND APPLIED ECONOMICS**

- **Justin Timothy Callais**
  *Dissertation: Three Essays on the Political Economy*
  *Major Professor: Jamie Bologna Pavlik*
GRADUATE CANDIDATES

ANIMAL SCIENCE

Emily Michelle Davis
Dissertation: Investigations into the Role of Dietary Adsorbents to Reduce the Pathophysiological Response of Pathogens and Biotoxins in Livestock
Major Professor: Michael Ballou

Loron Noxine Pinnock Brown
Major Professor: Marcos Sanchez-Plata

Melissa Ann Sillivent
Dissertation: A Comparison of Equine Spermatozoa Viability using the True Breed+, Truebreed and Standard Semen Collection Devices
Major Professor: Samuel Prien

Ashtin Marie Sims
Dissertation: Improving Human Spermatozoa Samples: The Impact of Barrier and Electrical Resistance Technologies
Major Professor: Samuel Prien

BIOLOGY

Jiwasmika Baishya
Dissertation: Physiological Adaptations in Pseudomonas aeruginosa and Staphylococcus aureus Communities: Insights into Microbial Interactions at the Host-pathogen Interface
Major Professor: Catherine Wakeman

Anisha S. Navlekar
Dissertation: Genomic and Proteomic Approaches to Elucidate Polyethylene and Polystyrene Degradation by the Gut Microbiome of Plodia interpunctella and Tenebrio molitor larvae respectively
Major Professor: Deborah Carr

Heshani De Silva Weigodage
Dissertation: Structure-Function Studies on Three Complementary ORFs of Grapevine Red BItch Virus to Elucidate Disease Etiology
Major Professor: Christopher Rock

BUSINESS ADMINISTRATION

Kevin Andrew Harmon
Dissertation: The Impact of System Latency on User Experience and Performance
Major Professor: Eric Walden

Kerry Todd Manis, Jr.
Dissertation: Investigating the Enabling Roles of Technological Advances for Marketing Strategy: Three Essays
Major Professor: Sreedhar Madhavaram

Ross Bennett Niswanger
Dissertation: Oversharing on Social Network Sites: Self-Disclosure that Leads to Regret
Major Professor: Jaeki Song

Mehroonesh Reshadi
Dissertation: Artificial Intelligence (AI) Based Marketing: Two Essays on AI Products and AI Promotions
Major Professor: Mayukh Dass

CHEMICAL ENGINEERING

Seth Edmund Boese
Dissertation: Coated Dental Floss as a Novel Instrument for Drug Delivery to the Gingival Muscosa: Development, Characterization, and In Vivo Delivery
Major Professor: Harvinder Gill

Tianyu Chen
Dissertation: Dynamic Modeling for Membrane with Fixed Charge Groups in Membrane Separation Processes
Major Professor: Danny Reible

Anirudh Gangadhur
Dissertation: Label-free Screening and Enumeration of Tumor Cells in Blood Using Digital Holographic Micoscopy and Machine Learning
Major Professor: Siva Vanapalli

Uriel De Jesus Garza Rubalcava
Dissertation: Characterization of Contaminant Fate and Transport Processes in Sediments and Aquifers through High-resolution Passive Sampling
Major Professors: Danny Reible and Andrew Jackson

Adity Avinash Pore
Dissertation: Microfluidics Based Phenotyping of Rare Circulating Cells from the Blood of Breast Cancer Patients
Major Professor: Siva Vanapalli

Pankaj Rohilla
Dissertation: Hydrodynamics of Needle-free Jet Injections
Major Professor: Jeremy Marston

Rajasi Shukre
Major Professor: Chau-Chyun Chen

CIVIL ENGINEERING

Mahtab Beizkazeh
Dissertation: Structural and Dynamics Studies of the Mre11-Rad50 DNA Damage Response Complex
Major Professor: Michael Latham

Vanessa Rae Charles
Dissertation: The Synthesis and Characterization of Metal Nanoparticles Using the Epoxide-Addition Method with the Aid of Amide Structural Directing Agents
Major Professor: Louisa Hope-Weeks

Xiaodan Ding
Dissertation: Thermal Expansion in Organic Solids and Impact of Pedal Motion and Crystal Packing
Major Professor: Kristin Hutchins

Kevin Finch
Major Professor: Gerardo Gamez

Sakshi Gautam
Dissertation: LC-MS/MS Based Methods and Systems Enabling Efficient Identification and Separation of Isomeric Glycans and Glycopeptides from Biological Samples
Major Professor: Yehia Mechref

Mona Goli
Dissertation: Identifying and Confirming Potential Glycome, Glycoproteome, and Proteome Novel Biomarkers by LC-MS/MS
Major Professor: Yehia Mechref

Bhumika Jayee
Dissertation: Theoretical Study of Functionalized Carbon-based Materials and Chemical Dynamics Simulations
Major Professors: Bill Poirier and Hans Lischka

Jesus Daniel Loya
Major Professor: Kristin M. Hutchins

Chitrankan Srivastav
Dissertation: Mechanistic and Preparative Studies of Electrochemical Deoxygenation and Demethylation
Major Professor: David Birney

CHEMISTRY

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Jesus Daniel Loya
Major Professor: Kristin M. Hutchins

Chitrankan Srivastav
Dissertation: Mechanistic and Preparative Studies of Electrochemical Deoxygenation and Demethylation
Major Professor: David Birney

Fouzieh Rouzmehr
Dissertation: Development of an Integrated Approach for Improving Concrete Pavement Performance: Field Testing and Analytical Studies Insights on Base Quality, Concrete Materials and Pavement Design
Major Professor: Moon Won
**COMPUTER SCIENCE**

Faranak Abri  
**Dissertation:** Content Analysis and Modeling Interactions in Social Engineering Attacks  
**Major Professor:** Akbar Siami-Namin

Prerit Datta  
**Dissertation:** Predicting Consequences through Cyberattack Descriptions  
**Major Professor:** Akbar Siami-Namin

Zohreh Safari  
**Dissertation:** Fast Search-enabled Clustering Operation for Dynamically Databases of High Dimensional Big Data  
**Major Professor:** Yu Zhuang

Bipana Thapaliya  
**Dissertation:** Fast Clustering of Big Data Through Successive Bi-partitioning  
**Major Professor:** Yu Zhuang

**COUNSELING PSYCHOLOGY**

Daisy Marie Aceves  
**Dissertation:** Acculturation, Enculturation, Familial Intragroup Marginalization, and Family Flexibility Among Mexican Descent Emerging Adults: A Moderated-Mediation Model  
**Major Professor:** Brandy Pina-Watson

**COUPLE, MARRIAGE, AND FAMILY THERAPY**

Margaret Lynn Smith  
**Dissertation:** The Role of Sexual Conservatism Exposure on Body Image and Sexual Outcomes  
**Major Professor:** Jaclyn Cravens Pickens

**CURRICULUM AND INSTRUCTION**

Danielle Ann Courtmanche  
**Dissertation:** A Narrative Inquiry of the Relationship Between Principal Walk-through Evaluations and Teacher Identity  
**Major Professor:** Aaron Zimmerman

Michelle Magalane Ellis  
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ARID LAND STUDIES

Sufia Akter Neha
*Thesis: Fine-scale Spatial Variation Shape Fecal Microbiome Diversity and Composition in Black-tailed Prairie Dogs (Cynomys ludovicianus)*

ATMOSPHERIC SCIENCE

Michael Andrew Anand
*Thesis: Impact of Synoptic Scale Processes on Boundary Layer Depth Variability over an Arid Region using Radiosonde and Lidar Observations*

Matthew Louis Asel
*Thesis: Improving Inter-volume Extractions from Research Radar Measurements in Complex Flow Fields*

Lydia Marie Bunting
*Thesis: Determining the Impact of Evaporative Cooling and Inversion Layer Height on Heat Bust Formation in Decaying Convective Storms*

Matthew Benjamin Hamel
*Thesis: Convective Boundary Layer Turbulence Profiling over an Arid Region using a 200m tall-tower and Doppler Lidar Measurements*

BIOENGINEERING

Brittany Michelle Love
*Thesis: Finite Element Model-based Assessment of the Female Cervical Spine in a Rear-End Impact Simulation*
BIOLOGY
Austin Ryan Biddy
Thesis: Using Species Distribution Models to Predict Genomic Isolation: A Case Study with a High-altitude, Stream-specialist damselfly (Odonata, Calopterygidae: Hetaerina vulnerata Hagen in Seyls, 1853) in Arizona, New Mexico, and Utah
Emily Copeland Garrison
Thesis: An Exploratory Study to Determine the Effects of a High-Fat pH-Enhanced Beef Diet on the Gut Microbiome in Mouse Model
Brandon Meadows
Atinder Singh
Thesis: Expression and Functional Analysis of the NanoLuc Luciferase Reporter in Plants
Rakesh Kumar Singh
Thesis: Evaluating Patterns of Soil Health and Soil-Water Dynamics in Different Land Uses in a Semiarid Area of Texas High Plains

BIOTECHNOLOGY
Most Zakia Ferdous Ara Begum

COMPUTER SCIENCE
Siva Narasimham Kotapati

COUPLE, MARRIAGE, AND FAMILY THERAPY
Emma Elizabeth Allen
Ilana Maria Anaya
Natalie Shumway Benavides
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Angel Adolfo Segura

DATA SCIENCE
John Phillip Cohen
Terrance Michael Davis
Juan Cristino Gonzalez
Richard Ghanga Greenhill
Ryan Michael Schmitt

FAMILY AND CONSUMER SCIENCES EDUCATION
Anya Michelle Burtis
Thesis: Transitioning from Face-to-face Learning to Distance Learning During the COVID-19 Pandemic: Can We Provide Students the Same Comparable Family Consumer Sciences Experience?
Sheryl Denise Odorizzi
Rachel Farmer Yeates

FOOD SCIENCE
Daniela Raquel Chavez Velado

FORENSIC SCIENCE
Taylor N. Millar
Thesis: The Feasibility of Textile Fabrics for Forensic Evidence Transport
Ashley Breann Newland
Thesis: Elemental Determination of Bullets using Atomic Absorption Spectroscopy

GEOSCIENCES
Emily Elizabeth Doyle
Thesis: Investigation into Potential Clayey Raw Material Used for Iron Age and Hellenistic Pottery Production on the Island of Hvar and Neighboring Mainland (Eastern Adriatic, Croatia)
Emily Leah Fischer
Thesis: Petrogenesis of Magnetite-rich Layers in the Bushveld Complex, South Africa

HOSPITALITY AND RETAIL MANAGEMENT
Reese Anthony Shatto

HUMAN DEVELOPMENT AND FAMILY SCIENCES
Quinton Calloway
Miranda Alise Cox
Thesis: Patterns of Attention Preference in Infants: Examining Gaze Allocation of “Motherese” and “Robotese” in Eye-tracking Paradigms

INTERDISCIPLINARY STUDIES
Samantha Kay-Elizabeth Crenshaw
Chloe R. Gomez
Samantha Jane Harris
Viershanie Ayana Latham
Ty Dusk Nurse

KINESIOLOGY
Matthew Nino
Thesis: Response to Endurance Training Using Critical Speed: Influence of Genetic Background and Exercise Intensity

MARKETING RESEARCH AND ANALYTICS
Kelly Anne Halnen
Chukwunonso Jonathan Kafor
Brittany Sartain

MATHEMATICS
Danae Nicole Burton
Mohammad Mahabubur Rahman

MICROBIOLOGY
Chad Ryan Evans
Thesis: Isolation, Characterization, and Potential Clinical Application of the M1-Pseudomonas aeruginosa pyocin
Josef McBride
Kyle Ortega-Rodriguez
Amanda Nicole Ramirez
Idaraesit Ukpong

NUTRITION AND DIETETICS
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PHYSICS
Blessing Chinelo Akah
Thesis: Pharmacokinetics Data Analysis of Doxorubicin Drug to Examine Variability in Patient Specific Drug Kinetics
Nirayam Vinayak Gogate
Tunde Kushimo
Thesis: Investigating Students’ Strengths and Difficulties in Quantum Computing
Miranda Maille
Thesis: Spectroscopy of High Redshift Blazar Candidates
Jacob Riley Slocum
Thesis: One-Dimensional Topological Nanostructures Utilizing Surface Phonon Polaritons on Silicon Carbide

PLANT AND SOIL SCIENCE
MD Rashedul Hasan
Thesis: Comparison of Length Parameters Extracted from the HVI and AFIS to Predict Yarn Quality
Ejajul Hoque
*Thesis:* Application of Organoselenium Compounds to Cotton Textiles to Impart Antimicrobial Property

Cynthia Marie Jordan
*Thesis:* Novel Soil Core Visualization of Diagnostic Pedogenic Features

Benjamin Perez Sanchez
*Thesis:* Development of Gene Editing Mobile Vectors Based on a Long-distance RNA Transport System

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Lexy B. Hightower
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Karli Paige Langehennig
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Trevor Tate Thompson

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Yao-Lung Chuang
*Thesis:* Microgrid Control with Parallel Distributed Energy Resources
Raimi Marim Clark
*Thesis:* Study of Early Light Emission from Anode-Initiated Surface Flashover in Vacuum
Anindita Das
Austin Keith Gregory
*Thesis:* Testbed for X-band Multipactor Investigation
Dawson Michael Wright
*Thesis:* Multipactor Mitigation in S-band Waveguide

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Guillermo Antonio Rodriguez

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Yuzulette Chavira
Kimberly Rodriguez

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Jared Evan Thompson

**ENVIRONMENTAL SUSTAINABILITY AND NATURAL RESOURCE MANAGEMENT**
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Jared Evan Thompson
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Jacob Tyler Kent
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Jocelyn Mendez
Jacob Andrew Meyer
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Haley Elizabeth Ott
Lindsey Heather Rankine
Amy Rodriguez
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Dillon Dean Sanders
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Joseph Lee Stephens
Rachael Ann Streubel
Landon Martin Taylor
Nghia Trung Tran
Lizzie Roshell Williams
Allen Joseph Wolin
Shaihna Venice Zulueta

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Ashten Paige Altizer
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Bonnie Solis

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Landry Lee Turnbow
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Ivan Rey Villarreal

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2nd Degree: General Studies
Nyandwi Ngembo

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Zhacciera Georgina Kanari

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Isaac Jeffrey Acree
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Rama Supratha Balaga
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Taylor Ryan Hutchings
2nd Degree: Computer Science
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Charles R. Thompson
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Koniza Grace Esther Okou Zigre
2nd Major: Economics

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Luisa Delaney Acevedo
Beatriz Acosta

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With Highest Honors
With Honors

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Edward E. Whitacre Jr. College of Engineering

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Charles Tyler Cornell
Travis Armstrong Craft
Hallie Elizabeth Franco
Jesus Salas Garcia
Kipp Loyd Hayes
Marvin Jake McKinney
Timothy Allan Murphy
Emma Guadalupe Renteria
Matthew Clark Ripley
Edward Alonso Sanchez
Johnathan Ray Sandifer
Jose Edmund Sosa Andrade

BACHELOR OF ARTS

HONORS SCIENCES AND THE HUMANITIES
Nanette Kaye Tabinas Dolera

Summa Cum Laude  Magna Cum Laude  Cum Laude  With Honors  With Highest Honors
BACHELOR OF APPLIED ARTS AND SCIENCES

EARLY CHILDHOOD EDUCATION
Andrea Jaramillo

BACHELOR OF SCIENCE

APPAREL DESIGN AND MANUFACTURING
Natalie Janet Clark
Luís Angel Escobedo
Carlie Elizabeth Gotha
Melissa Alexandra Rosales Parra
Kennedy Elizabeth Smith
McKenzie Paige Smith
Abigale Renee Wells

COUNSELING AND ADDICTION RECOVERY SCIENCES
Ozioma Okoye
Macy Victoria Pargmann
Natasha Jean Polanco
Robert Jimmy Ramos
Madison M. Homoleale

EARLY CHILDHOOD EDUCATION
Cindy Ruby Diaz

HUMAN DEVELOPMENT AND FAMILY SCIENCES
Emily R. Arnold
Brooke Catherine Berry
Chloe E. Castillo
Laura Ashlyn Copeland
Claire Diane Cullar
Taylor Grace Emmons
Zilay M. Espinosa Guzman
Baeil Elaine Faerber
Caitlyn Precious Gordy
Chloe Alesheen Hearn
McLain MaryAnne Hutton
Alyssa Marie Hyland
Elizabeth Anne Kleiber
Anissa Leonor Loya
Riley Michelle Marshall
Laila Rubio
Julie Marie Stovall
Tania Melissa Torres
Tiffany Deann Wilkins
Reagan Elizabeth Wingo

HUMAN SCIENCES
Jake Earl Arnowe
Allie Marie Austin
Samantha Avalos
Skyler Paige Badger
Chase Donovin Bailey
Tiffany R. Billington
Cha’Neil Shanee’ Bolden
Samantha Marie Bradburn
Emma Alexandra Braun
Natasha L. Brown
Kiersten Alaina Burno
Autumn Brooke Byron
Candice Nicole Calhoun

Mary Agnes Campbell
Victoria Faith Carabjal
Lindsay Allison Carnef
Amanda Sokhom Castro
Kylie Marie Childers
Melissa Ashley Finks
Aileen Michelle Garcia
Travis George Garner
Isabelle Gerrard
Taylor Ranee Glanville
Zarin Matthew Gonzales
Makinzy Riese Greeson
Kristen Marie Guerrero
Jason N. Gutierrez
Joseph Michael Harper
Taylor Jeanine Hauck
Cierra Julianna Herder
Catherine Faith Huber
Meredith Grace Huber
Victoria Hubler
Emiley Ivey
Hunter Allen Jackson
Diana Jamaica
Jessica Anna Jarreau
Cassandra Daniella Johnson
Kendall Beth Jones
Celest Juarez
Abigail Anne Kammeraad
Kelsey Celeste Kincaid
Kayla Lee
Sabrina Aileen Lopez
Sara Yudith Loyal
Shanan Mangwende
Madacyn Cynthia Martignago
Colby Andrew McClaren
Triana Nicole McGee
Lillian Rene Meier
Jordan Meyer
Ashley Miranda
Joseph Moger
Zadee Mizer
Collin Owen Murphree
Jordan Ashley Norris
Nkechinyere A Ntephe
Ashlyn Isabella Marie Palmer
Misty Michelle Pineda
Madalyn Arlene Raymond
Thomas Michael Reynolds
LaToya DeLynn Sallis
Ashley Victoria Sanchez
Sarah Katherine Schlemmer
Kerrynlynn Elizabeth Scott
Marcus Holmgreen Seals
Mya Journey Stradley
Alexis Channell Thomas
Kalynn Jeanne Tijerina
Briley Lin Tippin
Kody Hung Tran
Catherine Truett
Cara Marie Trindle
April Hannah Valentino
Kelsey Vautherine
Alicia Nicole Weaverling
Sara Westcott
Hanna Paige Wilkerson
Annamarie Nicole Woodall
Colbi Taylor Yanzuk

NUTRITION
Rubí Danielle Reed
Saraí Pérez
Peyton Carra Shipp

NUTRITIONAL SCIENCES AND DIETETICS
Ronald Bailey III

PERSONAL FINANCIAL PLANNING
Seth Sanders Hulse
Victor Aron Sanchez
Reid Michael Thompson

RESTAURANT, HOTEL AND INSTITUTIONAL MANAGEMENT
Joshua Kent Biggs
Skylla Faeth Gilliam
Isabel Kristine Joy Henry
Annie C. Hoffman
Caden Stuart Kirk
Branden Scott Kozicki
Chinwendu M. Nwaner
Zachary Shore
Christian Jordan Upchurch

RETAIL MANAGEMENT
Elisabeth Elida Beltran
Logan Phillip Bruegdam
Brooklyn Mckenna Lepard
Tabbatha K. Riojas

BACHELOR OF ARTS

ADVERTISING
Devin Christopher Bowling
Andrew Lee Dougherty
Zelena Lexus Garcia
Hudson Joseph Gregg
Caeden James Holly
Travis Walker Kasper
Jonathan Ty Kiptoo Kipsambu
Noah Lewis
Tucker Smith Maxey
Allie Kaitlyn Mendoza
Madison Lauren Mitchell
Victoria Alexis Newell
Max Diego Owen
Laken Yvette Polaco
Anne Claire Pope
Tristan S. Powell
Sean L. Ramirez
Amy Rodriguez

2nd Degree: Political Science
Andrea Lee Salazar
Chad Allen Tucker
Georgia K. Veatch
William Merrill Wallace
Peyton Elizabeth Wiggins

COMMUNICATION STUDIES
Grant Milton Addison
Penelope Ann Berrille
James Clyde Blakeley Jr.
Cameron Michael Buehler
Brigitte Faith Camacho
Kaylee Jean Carroll
John Bug Carter
Austin Patrick Donaghe
Anna Mary Flaming
Tristan Graham Flores
Jennifer Nicole Gaertner
Joshua Arnold Goodell
Karalyne Nikol Green
Emily Francis Humes1
Georgina S. Johnston
Michael Anthony Mangel
Rachel Marquez1
Bria Gabrielle Martinez2
Michael Zarazua Natividad
Mcgrath Charles Norris
Ethan Daniel Quintanilla
Ty D. Salazar1
Adelyn Elisabeth Spikes3
Katelynn Jane Stephenson
Evan Robert Surber
Tara Jade Tawater1
Parker John Wesley
Kennedy Taylor Young
Larry Dalton Payne Jones
Tanner Scott Hopkins
Jessica Lynn Hoff
Wyatt Elliott Hillyer
Alexandra Klare Hernandez
Devon Edward Henry
William G. Forrest
Joseph Warren DeHart
Shelby Raye Corbin
Dillon Charles Carlberg
Ruben Trey Berlanga III
Dillion Charles Carlberg
Shelby Raye Corbin
Joseph Warren DeHart
William G. Forrest
Jacob L. Gutierrez
Devin Edward Henry
Alexandra Klare Hernandez2
Wyatt Elliott Hillyer
Jessica Lynn Hoff
Tanner Scott Hopkins
Larry Dalton Payne Jones
Selah Rose Jordan
Amethyst J. Pohlman
Kendall Shane Rainer
Rhett T. Rousser
Megan Elizabeth Rummelme
Jamie Desire Saenz
2nd Major: Public Relations & Strategic Communication Management
Andrew Kye Salvato
Aidan William Salzman
Carrigan Grace Slover
Cole Dalton Taylor
Joshua Ward Tilton2
Janulson Tuhafenyi
JaMarcus Eon Washington
Jourdan Worthington
UNDERGRADUATE CANDIDATES
CUM LAUDE
With Honors
With Highest Honors

CREATIVE MEDIA INDUSTRIES
Jenna Anne Marie Cain
Kayla Leigh Fuller
Shane Patrick Garcia1
Hannah Constance-Mae Gilbert2
2nd Major: Communication Studies
Ethan Ray Goates
Cassandra Denyse Martinez
Claire Elyse Meyer1
Christopher Andrew Morris
Matthew Olivardez
Servando Martinez Rodriguez III
Maria G. Salazar
Armando Sanchez
Logan Staples
TaQuaria Tashae Weaver
Hakeem Simondre White
Tristan Keith Young

DIGITAL MEDIA AND PROFESSIONAL COMMUNICATION
Cassandra Dawn Balderas2
Preston R. Bullard
Rachel Driskell – Jackson
Darian Tyler Kelley
Andrew Marcus Maloney
Mariano Olivardez, Jr.
Andrew-Marc Nabil Saliba
Hunter Blake Springer
Chloe Elizabeth Vais
Mabrie Elaine Winslett

JOURNALISM
Kaylee Amanda Estrada
David Galvan
Natalie B. Hobbis
Shania K. Jackson3
Toluwani Eniola Osibamowo1

MEDIA STRATEGIES
Dylan Joesph Barrett
Austin Matthew Barron
Ruben Trey Berlanga III
Dillion Charles Carlberg
Shelby Raye Corbin
Joseph Warren DeHart
William G. Forrest
Jacob L. Gutierrez
Devon Edward Henry
Alexandra Klare Hernandez2
Wyatt Elliott Hillyer
Jessica Lynn Hoff
Tanner Scott Hopkins
Larry Dalton Payne Jones

Harrison Dean Flory
Jason Matthew Gee
Akhijit Purvajit Gohil
Daisa Wray Hastings
Hannah Leeanne Hinds
Teagan Shae Humphreys
Jett Avery Johnston
Lindsey Kyser
Eliza Joy Lazenby
Steven Juan Medina
Gavin Karllye Nelson
Catherine Renee Nombarna
Keegan Jack O’Reilly
Nicholas Perkins
Alexander Poole
Tyler Alexander Rellinger
William Samuel Riley
Melissa Sims
Jay T. Spitzer
Nicholas Braydon Stuart
Peter Joseph Thomas
Ella Rosary Tofaeono
Joseph Vachon
Duncan Grant Via
Lauren Ashley Victores
Anna-Maria Flores Villarreal
Dion Isabella Wallace
Zhenyu Wang
Tyler L. Welch
Cameron D’Andre White
Grant Allen Wimberly
Amber Womack
Alyssa M. Yearick

BACHELOR OF APPLIED ARTS AND SCIENCES
APPLIED LEADERSHIP
Sandra Stanfield Bagwell1
Vanessa Salazar

BACHELOR OF ARTS UNIVERSITY STUDIES
Kenton Daniel Bradford

MUSIC
Claire Evangeline Brown3
Stephen Zachary Mitchell1
Stephanie Ann Saldana
Edgar Agustin Santellanes Solis
Kayla Jayde Solis

THEATRE ARTS
Emma Siobhan Rolland

BACHELOR OF MUSIC
Aaron Nathaniel Flores
Lauren Rachelle Martin2

2nd Degree: Languages and Cultures
Dylan Randall Slaughter3

1Summa Cum Laude  2Magna Cum Laude  3Cum Laude  *With Honors  †With 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 gonfalonys, 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 areas of interest of each unit.

The Faculty Banner displays the university colors, red with black, and features the university seal encircled by the words “Seal of Texas Tech University.” The seal was designed by William Ward Watkin, the original campus master planner, in 1924. The shield is a black escutcheon quartered by a red cross, on which are arrayed 10 cotton bolls, symbolic of the importance of cotton to West Texas and representing Lubbock County and the nine surrounding cotton-producing counties. These symbols also reflect one of the original missions of Texas Technological College: “To provide students with a thorough education in textiles and technical engineering.” The shield features emblems that evoke the university, community, state and nation. In the upper-left quadrant, a book symbolizes religion and academic traditions. A star in the upper-right corner stands for the Lone Star State of Texas. In the lower left a key represents home, and in the lower right the lamp of knowledge indicates the primary mission of Texas Tech University: “To develop and advance knowledge.” Above the shield, an eagle, the national bird of the United States, symbolizes scholarship, leadership, and service. The Double T logo appears at the bottom of the banner.

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 design. The banner was designed by David Isern and Simon Alvarez, graduates of the College.

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 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 gowns. The upper area of the banner carries a school building encircled by the words “College of Education” and “Scholarship, Leadership, Service” to represent the primary roles of the college as a unit dedicated to preparing teachers and furthering educational scholarship, leadership, and service. The Double T logo appears at the bottom of the banner.

The Jerry S. Rawls College of Business Administration banner was designed through a collaborative effort of the staff in the college’s Undergraduate Services Center. The background color of the banner is drab. The central image on the banner is a map of the world centered on Lubbock with the Texas Tech University Double T symbol rising from a focal point in the South Plains. The banner symbolizes the impact of globalization in the modern business environment.

The College of Arts & Sciences banner was redesigned in 2014 by Randy Lacy, unit coordinator in the college. Crafted with classical typography and bold lines, the banner replaces the previous college seal with the famous Double T logo. The red and black colors appropriately represent the largest and most diverse college in the university.

The Graduate School banner is blue. Imposed on this background is a white circle within a light blue one. These circles contain the image of a golden open book and a burning lamp. The open book symbolizes knowledge and the lamp represents a light by which to study. The banner was designed by the late Associate Dean Thomas Langford and Ms. Beth Cain, who was a Graduate School staff member and artist for many years.
The banner of the Edward E. Whitacre, Jr. College of Engineering features the seal of the college set on a field of orange, the academic color for engineering. The seal of the college, inspired by a 2009 design by chemical engineering student Unwana Essien, is encircled with a border of red, white, and black, symbolizing the spirit of Texas Tech University and the Red Raiders. The two stars represent the ethical duty of engineers to themselves and society. The four symbols in the center of the seal stand for the foundations of engineering:

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

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

The College of Human Sciences banner was redesigned in 2016 and adapted from an original design by former faculty member Dr. Ben Goh. The design depicts an adult, an adolescent, and a child. The diversity of faces and ages represents the families and communities served by the college in its mission to improve and enhance human lives through teaching, research, and outreach. The image of the globe represents the goal of not only serving the lives of those in the local community but also connecting with the global community.

The College of Media & Communication banner illustrates waves of information emanating from a single point—one voice heard by many. The banner is white with a crimson background framing waves of information reaching the public. Crimson is the color assigned by the Intercollegiate Code to journalism, the common core subject area of the college. The white field represents honesty, decency, and purity. Beneath the crimson is the name of the college.

The J.T. & Margaret Talkington College of Visual & Performing Arts banner is designed to represent the three schools that make up the college. The abstract design inspires intellectual skill, artistic ability, and creative thinking, representing the students emerging from the college. Subtle shapes hint at lines in reading music, sound waves for theatre and dance, and line and shape to include the arts. Chloe Walser, an artist, graphic designer, and graduate from the School of Art, designed the banner for her commencement ceremony in May 2022.

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 6 ................................................. SAIF HAQ, Ph.D.
Professor of Architecture,  
College of Architecture

1:30 P.M., AUGUST 6 .............................................. TALAL GAMADI, Ph.D.
Assistant Professor of Petroleum Engineering,  
Whitacre College of Engineering

**GRADUATION HONORS**

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

- Kendra Anne Adams
- Kaitlyn Boerner
- Tiffany Lee Bryant
- Douglas Scott Cooper
- Peyton Alexandria Christian
- Catherine Suzanne Heinrich
- Jared King Hill
- Andras Horvath
- Catherine Faith Huber
- Aditi Karmaker
- Senjuti Karmaker
- Justin Thomas Kennon
- Natalie Grace Kilpatrick
- Claire Elyse Meyer
- Alisha Gabrielle Morgan
- Toluwani Eniola Osibamowo
- Ethan Krisna Ouy
- Macy Victoria Pargmann
- Kenneth Joel Ruiz
- Julie Sang
- Logan Scott Schlegel
- Kirsten Hunter Thornton

**CANDIDATES FOR MILITARY COMMISSIONS**

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

- Landen Crosland
- Timothy Murphy
- Ty Neville

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

- Alyssa M. Yearick
SATURDAY, August 6, 9:00 a.m.

- Graduate School
- College of Business
- College of Arts & Sciences
- College of Visual & Performing Arts
- Honors College
- College of Architecture
- College of Business

SATURDAY, August 6, 1:30 p.m.

- Graduate School
- College of Engineering
- College of Education
- College of Media & Communication
- College of Arts & Sciences
- College of Human Sciences
- Davis College of Ag. Science & Natural Resources
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.