

Commencement

SUMMER 2022

Lubbock, Texas

August 6, 2022





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*

JOSEPH HEPPERT, Ph.D.

*Vice President for Research & Innovation;
Professor of Chemistry*

NOEL SLOAN, J.D., CPA

*Senior Vice President for Administration & Finance;
Chief Financial Officer*

CAROL SUMNER, Ed.D.

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

TEXAS TECH UNIVERSITY SYSTEM CHANCELLOR / BOARD OF REGENTS

TEDD L. MITCHELL, M.D.

*Chancellor,
Texas Tech University System*

MR. JOHN D. STEINMETZ

Dallas, Texas

MS. ARCILIA ACOSTA

Dallas, Texas

MR. J. MICHAEL LEWIS

*Chairman
Dallas, Texas*

MR. JOHN B. WALKER

Houston, Texas

MR. CODY CAMPBELL

Fort Worth, Texas

MR. MARK GRIFFIN

*Vice Chairman
Lubbock, Texas*

MR. DUSTY WOMBLE

Lubbock, Texas

MR. PAT GORDON

El Paso, Texas

MS. GINGER KERRICK DAVIS

Webster, 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*

URS PETER FLUECKIGER, M.Arch.

*Dean, College of Architecture;
Professor of Architecture*

SUSAN TOMLINSON, Ph.D.

*Acting Dean, Honors College;
Professor of Environment & the Humanities*

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

*Dean, School of Law;
Professor of Law*

TOSHA DUPRAS, Ph.D.

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

TIM DODD, Ph.D.

*Dean, College of Human Sciences;
Professor of Hospitality Management*

GUY LONERAGAN, Ph.D.

*Dean, School of Veterinary Medicine;
Professor of Food Safety and Public Health*

MARGARET L. WILLIAMS, Ph.D.

*Dean, Jerry S. Rawls College of
Business Administration; Professor of Management*

DAVID D. PERLMUTTER, Ph.D.

*Dean, College of Media & Communication;
Professor of Journalism and
Creative Media Industries/Public Relations*

EARNSTEIN DUKES, M.L.S.

*Dean of Libraries
Librarian*

JESSE PEREZ MENDEZ, Ph.D.

*Dean, College of Education;
Professor of Education*

MARTIN CAMACHO, D.M.A.

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

CINDY L. AKERS, Ed.D.

*Interim Dean, Davis College of Agricultural
Sciences & Natural Resources;
Professor of Agricultural Communications*

AL SACCO, JR., Ph.D.

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

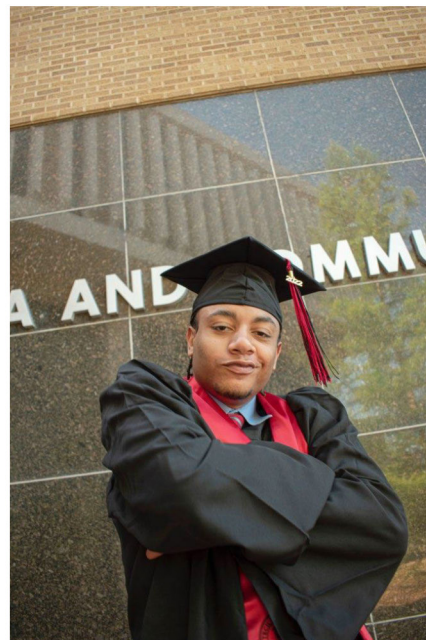
PATRICK C. HUGHES, Ph.D.

*Dean, University Studies;
Professor of Communication Studies*

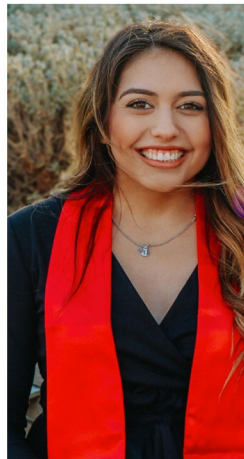
FROM ITS VERY BEGINNING the Texas Tech University community has had a sense of destiny and an awareness of the impact it could and would have on Texas and the wider world. Originally named Texas Technological College, Texas Tech opened in 1925 with six buildings, four schools (Agriculture, Engineering,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

COMMENCEMENT CEREMONY

Saturday, August 6, 2022

9:00 a.m.

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

** Please remain seated during the Processional.*

COMMENCEMENT CEREMONY

Saturday, August 6, 2022

1:30 p.m.

Presiding	Dr. Lawrence Schovanec <i>President, Texas Tech University</i>
Processional*	Texas Tech Commencement Band <i>Dr. Joel E. Pagán, Conductor</i>
National Anthem	Ms. Lauren Martin <i>Bachelor of Music, August 2022</i>
Welcoming Remarks	Mr. Mark Griffin <i>Vice Chairman, Board of Regents, Texas Tech University System</i>
Student Speaker	Ms. Sydney Aalbers <i>Bachelor of Science in Agricultural Communications, August 2022</i>
Conferring of Degrees	Dr. Lawrence Schovanec Dr. Darryl James <i>Vice Provost for Institutional Effectiveness</i>
Recognition of Outstanding Students Class of 2022	Dr. Darryl James
Charge to the Graduates	Dr. Lawrence Schovanec
Alma Mater <i>(Words on Back Cover)</i>	Mr. Spencer Ruwe <i>Master of Music, August 2022</i>
Presentation of Degree Candidates	Dr. Heather Greenhalgh-Spencer, <i>Associate Dean, Graduate School</i> Dr. Patrick Hughes, <i>Dean, University Studies</i> Dr. Robert Cox, <i>Interim Associate Dean, Davis College of Agricultural Sciences & Natural Resources</i> Dr. Rajesh Khare, <i>Assistant Dean for Strategic Initiatives, Edward E. Whitacre, Jr. College of Engineering</i> Dr. Shirley Matteson, <i>Associate Dean, College of Education</i> Dr. David Perlmutter, <i>Dean, College of Media & Communication</i> Dr. Dorothy Durband, <i>Associate Dean, College of Human Sciences</i>
Closing of Ceremony	

* Please remain seated during the Processional.

STUDENT SPEAKERS



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.

ACKNOWLEDGEMENTS

CONVOCATIONS COMMITTEE

Dr. Jhones Sarturi, Chair
Ms. Christy Adejokun
Dr. Rhonda Boros
Ms. Morgan Brannon
Dr. Corey Brelsfoard
Dr. Carla Davis Cash
Ms. Luciana Cavazos
Dr. Yoojin Chae
Ms. Jordan Dahl
Ms. Amiee Dixon
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Dr. Courtney Gibson
Dr. Michael Giesselmann
Dr. Lauren Griffith
Mr. Alastair Hamilton
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Dr. Zach Hohman
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Dr. Catherine Jai
Ms. Lourdes Juan
Dr. Jin Jung
Dr. Jacob Kirksey
Ms. Bethany Kuwitsky
Dr. Stacy Lee
Dr. Ann Mastergeorge
Ms. Aaliyana Mayfield
Dr. Mihwa 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 Venhuizen
Ms. Kim Walker
Dr. Zhe Wang

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. Pagán. 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.

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 Gustafson
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

ADMINISTRATIVE REPRESENTATIVES

Davis College of Agricultural Sciences & Natural Resources – Ms. Tristin Campbell
College of Architecture – Ms. Amy Peterman
College of Arts & Sciences – Ms. Kymberli Saldaña
Rawls College of Business Administration – Ms. Geleah Sharp
College of Education – Ms. Karen Noles
Whitacre, Jr. College of Engineering – Ms. Patricia Rodriguez
Graduate School – Ms. Vanessa Bara and Ms. Alyssa Reichert
Honors College – Ms. Beth Scheckel
College of Human Sciences – Ms. Shannon Tebo
College of Media & Communication – Ms. Julia Heard Witt
University Studies – Ms. Courtney Lynn
Talkington College of Visual & Performing Arts – Mr. Aaron Chavarria

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

FACULTY BANNER BEARERS

9:00 a.m. – Brad Johnson, Ph.D.
Gordon W. Davis Regent's Chair in Meat Science & Muscle Biology, Professor of Animal and Food Sciences, Davis College of Agricultural Sciences & Natural Resources
1:30 p.m. – Randy Reddick, Ph.D.
Morris Professor of Journalism, College of Media & Communication

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.

CANDIDATES FOR GRADUATE DEGREES

The **doctoral degree** is the most advanced earned degree conferred by American institutions of higher learning. The doctorate usually represents prolonged periods of advanced study culminating in a dissertation intended to contribute substantially to the body of knowledge on the subject. The most widely sought doctorate is the Doctor of Philosophy, which no longer has an implication of philosophy as the major field of study but represents advanced research in any of the major fields of knowledge.

The **master's degree** is an academic honor bestowed upon students who have successfully completed work beyond the baccalaureate. Both a thesis and an oral examination are usually but not always required. When applicable, the graduate's thesis topic is listed.

DOCTOR OF EDUCATION

EDUCATIONAL LEADERSHIP

Jesus 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: Dusty Palmer

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

Nereyda Trevino

Dissertation: Opening a Virtual School: Examining Leadership Effectiveness for Stakeholder's Success
Major Professor: Fernando Valle

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

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 Mixtacki

Dissertation: Timba Drum Set: Performance Practice and Contemporary Application
Major Professor: Lisa Rogers

Issac Sabino Vargas Garcia

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

DOCTOR OF PHILOSOPHY

AGRICULTURAL AND APPLIED ECONOMICS

Justin Timothy Callais

Dissertation: Three Essays on the Political Economy
Major Professor: Jamie Bologna Pavlik

GRADUATE CANDIDATES

James Michuki Muriuki

Dissertation: Essays in Violent Conflicts and Food Security in Sub-Saharan Africa (SSA)

Major Professors: Darren Hudson and Jamie Malaga

Vitalis O. Othuon

Dissertation: Essays on the Impact of Political Pluralism and Technical Efficiency on Food Security in Sub-Saharan Africa

Major Professor: Chenggang Wang

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

Dissertation: Integration of Regulatory Compliance Assessments, Microbial Bio-mapping, and Novel Intervention Technologies for Food Safety Management in Controlled Environment Agriculture: Vertical Hydroponics Leafy Green Facility

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

Jiwasika 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 Weligodage

Dissertation: Structure-Function Studies on Three Complementary ORFs of *Grapevine Red Blotch 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

Mehrnoosh 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 Mucosa: 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 Gangadhar

Dissertation: Label-free Screening and Enumeration of Tumor Cells in Blood Using Digital Holographic Microscopy 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

Dissertation: Adsorption: Adsorbent Synthesis, Thermodynamic Modeling and Molecular Simulation

Major Professor: Chau-Chyun Chen

CHEMISTRY

Mahtab Beikzadeh

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

Dissertation: Glow Discharge Optical Emission Spectroscopy Elemental Mapping: Elucidation of the Underlying Mechanisms and Development Toward Nanoparticle Characterization

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

Dissertation: Design of Pharmaceutical Co-crystals and Materials for Selective Removal of Contaminants

Major Professor: Kristin M. Hutchins

Chitranjan Srivastav

Dissertation: Mechanistic and Preparative Studies of Electrochemical Deoxygenation and Debromination

Major Professor: David Birney

CIVIL ENGINEERING

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

GRADUATE CANDIDATES

Alex V. Smith

Dissertation: In-situ Passive Sampling for the Evaluation and Management of Hydrophobic Organic Compounds Contaminated Sediment
Major Professor: Danny Reible

CLINICAL PSYCHOLOGY

Victoria Leigh Beach

Dissertation: The Psychometric Validation of the Geriatric Suicide Ideation Scale in Latinx Older Adults
Major Professors: Brandy Pina-Watson and Adam Schmidt

Jordan Ann Gette

Dissertation: Evaluation of the Daily Sessions, Frequency, Age of Onset, and Quantity Questionnaire and its Relations to Cannabis-related Problems
Major Professor: Andrew Littlefield

Tre DeVon Gissandaner

Dissertation: Caregiver Adverse Childhood Experiences and Preschool Externalizing Problems: The Role of Caregiver Resilience
Major Professor: Andrew Littlefield

Zohal Heidari

Dissertation: Combining In-person and Online Components for The Body Project Program during the COVID-19 Pandemic: An Implementation Feasibility Trial
Major Professor: Jason Van Allen

Brittany Dawn Lancaster

Dissertation: The Effect of Pet Ownership on Youth Sleep
Major Professor: Jason Van Allen

Lauren Alessandra Pascarella

Dissertation: Modified Parent-Child Interaction Therapy (PCIT) for Children with Autism Spectrum Disorder and Comorbid Anxiety Symptoms
Major Professors: Joy Wang and Jason Van Allen

Nicole Elyse Seymour

Dissertation: Outness and Suicide Ideation: Examining the Roles of Thwarted Interpersonal Needs and Minority Stress in LGBTQ+ Individuals
Major Professor: Sarah Victor

Casey Garrett Thornton

Dissertation: The Clinical Utility of Validated Cognitive-behavioral Case Formulations and Intraindividual Network Analyses in Adults with Symptoms of Obsessive-compulsive Personality Disorder: Evaluation of Personalized Treatment Planning
Major Professor: Andrew Littlefield

Chelsy Shay Thornton (Simmons)

Dissertation: Positive Reframing, Executive Function, and Adverse Childhood Experiences in Relation to Internalizing Symptoms
Major Professor: Adam T. Schmidt

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 Courtemanche

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

Michelle Magalane Ellis

Dissertation: Neglected Voices: Exploratory Research of North Carolina STEM Educators' Integration of Global Education
Major Professor: Faith Maina

Rachel Suzanne Graham

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Calves and in Weaning Crossbred Beef Calves
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Microbiome Diversity and Composition in Black-
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 Adekunle Daniel Falade
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 John Edward Taggart
 Kennedy Elle Thomas
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 Andrew Venegas
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 Katelyn Elizabeth Williams
 Hudson Smith Wood³
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 Briyith Urias Zubia

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 Lauryn Nicole Dennett³
 Tanika Adesa Evans³
 Chayce Michael Grevey
 Cole Evan Hanson
 Kathryn Rose Hopkins²
 DeAndre Terrell Johns
 Taylor Kolle
 Carson Alec Korando
 Michael William Mahoney
 Mitchell Byron Manley
 Noah Joseph Neiser
 Kelly Nohemi Olivas

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2nd Major: Accounting

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 Hannah Leigh Pope
 Keegan Schexnayder
 Reece M. Simpson²
 Jack Sowell
 Cristian Eduardo Velez

GENERAL BUSINESS

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 Jaden Michael Myers

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Kinzie Allyn Corley
 Ryan Patrick Gilliland
 Johnathan Michael Huizenga
 Ayomide Damilola Ifanse
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 Limber Alexandre Alvarado
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 John Darrel Baergen
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 Brooke Lacey Bracken
 Celeste Dunn Carson
 Garrett Cole Cheyney
 Carrie Ann Clark
 Chandler Jamie Cox
 Tyler Derek Cronin
 Ashley Paola Dominguez
 Devin Edward Drew
 Favour Chibuikem Ehiruudu
 Luke David Estes
 Gabriella Jacqueline Estevez
 Emily Elizabeth Everingham
 Fernando Enrique Faraj
 Cade Logan Farr
 Logan Patrick Flores
 Taylor Loree¹ Fogle²
 Bryce Jered Foutz
 Dalton Dean Fraley

2nd Major: Marketing

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 Noah Russell Harmon
 Josue D. Hernandez
 Luke Russell Horne
 Pierre Iskander
 Jacob Charles Isom
 John Thomas Kelly
 Andrew Russell Kestler²
 Dillon Wayne Kilgore
 Javier Cobiella Littlefield³
 Megan Michelle Lix
 Kesler Allen McClintock
 Allie Elizabeth McFaddin
 Grayson Thomas Medlock
 Gabriella Grace Menchaca
 Zachary Scott Miller³

2nd Major: Marketing

Jordan Evan Morris²
 Olivia Grace Mulliner
 Mykle Jubaa Kayiso Okafor
 Shiv Jagdish Patel
 Mitchell Vandiver Peaden
 Destiny H. Pineda
 Benjamin Andrew Quinlan
 John M. Ramirez
 Garrett Anthony Rasor
 Edgar Rodriguez
 Annisten Leigh Sandlin
 Cole Myles Schutte
 Maria Isabel Sotomayor Ramos

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 Kenzie Leah Spoo
 John Michael Stewart
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 Hasan Can Tacyildiz³
 Madi Grace Weems
 Matthew Lang Williams
 Joseph Locke Willingham

2nd Major: Marketing

Nicole Josephine Wingard²

MARKETING

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 Adam Kenneth Alborn
 Thedrick J. Andres
 Courtney Jane Bilbo
 John Steven Boyd
 Graham Hudson Butz
 Amanda Castrejon²
 Benjamin John Cegelski
 Octavio Cervantes, Jr.
 Daniel Wilson Davis
 Lindsey Elaine Diehl
 Connor Paul Diemer

2nd Major: Management

Invetinvan Maureen Effie Eregie
 Samuel Lawrence Fields
 Grant Stephen Foster
 Deidra Nicole Garcia
 Andrea Nicole Giles¹
 Joel Isaac Guzman
 Morgan P. Hagood²
 Brody Trent Hendrick
 Hope Kaitlyn Herington
 Dominic Ethan Hume
 Joshua Daniel Humphries
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 Rianna Noel James
 Alexandra Ashley Johnson
 Emily Grace Johnson
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 Rashaad Anthony Lofton
 Yazmin Luna Sanchez
 Andrew Elkins Matter
 Myka Nicole Mayper³
 Jayden Dawson May-Pereda
 Murray Charles McArthur
 Morgan Elizabeth Mercer
 Liliana Yi Miller
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 Faith Ann Marie Nelson

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Hannah Rose Perry³
 Ryan W. Ramsey
 Jacob R. Rubien
 Humberto Ruben Salcido
 Bailey Mae Sanders
 Morgan Renee Schmidt
 Brayden Kyler Stroud
 Ricaria Jenae Sutton
 Aaron Joseph Thevenote
 Michael Stewart Tinguue
 Brenden J. Vaughn
 Maryam Noor Wahid
 James Morgan Wylie

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Jonah Jiminez Augustine
 Feven Kahssai Damer
 Zackary Todd Gregory
 Matthew Joseph Laza
 John Ifegwu Oloh



TEXAS TECH UNIVERSITY
 College of Education

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 Luisa Delaney Acevedo¹
 Beatriz Acosta

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 Marlenny Alma Alcantar¹
 Karina Alfaro Ortiz¹
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 Anghy Jessenia Avilez³
 Mercedes Silvina Barraza²
 Maggie Mae Bedwell²
 Mia Nikole Briones¹
 Ida Mae Bruner
 Tiffany Lee Bryant¹
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 Darbi Paige Castillo¹
 Brenda Selene Castruita Ibarra
 Bennett Scott Catlett³
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 Biridiana Cruz²
 Bailey Ann Custard
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 Coral Ivette Enriquez²
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 Casey Lynn Fraley¹
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 Nahely Garcia¹
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 Alexandra Tomasa Gonzales²
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 Rachel Celeste Renteria
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 Tea Amanda Rodriguez¹
 Bryanna Carolina Roman¹
 Kenneth Joel Ruiz¹
 Nazira Sahial¹

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 Paige Makayla Slack²
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 Jennifer Jay Strong²
 Amanda Joy Sullivan¹
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 Michelle Josephine Tovar
 Arely Trevino²
 Aracely Beatriz Valdes¹
 Ana Villarreal
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 Francis Fanfe Signe
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 Gerardo Ramirez
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 Ryan Langston Britt
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 Samrat Pokharel
 William Brandt Schneider
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 Titus Ngatia Karuri
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 Kody Allan Perry
 Miguel Angel Romero
 Matthew Swick
 Tyler James Waszkowski

PETROLEUM ENGINEERING

Hakim Aboubakar Ibrahim



TEXAS TECH UNIVERSITY
 Honors College

BACHELOR OF ARTS

HONORS SCIENCES AND THE HUMANITIES

Nanette Kaye Tabinas Dolera^{2,5}
2nd Degree: Political Science

UNDERGRADUATE CANDIDATES



TEXAS TECH UNIVERSITY

College of Human Sciences™

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Abigale Renee Wells

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Kelsey Celeste Kincaid
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Sara Yudith Loya²
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Colby Andrew McClaren
Triana Nicole McGee
Lillian Rene Meier³
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Joseph Moges
Zadee Mizer
Collin Owen Murphree
Jordan Ashley Norris^{1,4}
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Kody Hung Tran³
Catherine Truett²
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Kelsey Vautherine
Alicia Nicole Weaverling
Sara Westcott
Hanna Paige Wilkerson
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Kolbi Taylor Yanzuk

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College of Media
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Amy Rodriguez

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Parker John Wesley
Kennedy Taylor Young

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Kayla Leigh Fuller
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Ethan Ray Goates
Cassandra Denyse Martinez
Claire Elyse Meyer¹
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Armando Sanchez
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TaQuaria Tashae Weaver
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Andrew Marcus Maloney
Mariano Olivarez, Jr.
Andrew-Marc Nabil Saliba
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Mabrie Elaine Winslett

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Carrigan Grace Slover
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Joshua Ward Tilton²
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Jourdan Worthington

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Kennedee Babcock

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Valeria De Anda
Morgan Nicole Frucht
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Peyton Mckenzie Gregg
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Mary Isabelle Rose Phelan³
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Kathryn M. Severance
Emily Marie Stelly
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TEXAS TECH UNIVERSITY
University Studies

BACHELOR OF APPLIED ARTS AND SCIENCES

APPLIED LEADERSHIP

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Vanessa Salazar

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UNIVERSITY STUDIES

Kyle Logan Anderson
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Marshall Ryan Brown
Shelby Nicole Brown
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Nylo Ezekiel Clarke
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Rachel Cortinaz
Elizabeth Ann De La Garza
Jordan Eileen Dudik
Troy Deroyce Ellis, Jr.

Harrison Dean Flory
Jason Matthew Gee
Abhijit Purvajit Gohil
Daisa Wray Hastings
Hannah Leeann Hinds
Teagan Shae Humphreys
Jett Avery Johnston
Lindsey Kyser
Eliza Joy Lazenby
Steven Juan Medina
Gavin Karlyle Nelson
Catherine Renee Nombrana
Keegan Jack O'Reilly
Nicholas Perkins
Alexander Poole
Tyler Alexander Rellinger
William Samuel Riley
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Nicholas Braydon Stuart
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UNIVERSITY STUDIES

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Kaitlynn Judd
Trenton Steve Martinez
Bryant Lee Powers
Alexis Michelle Russell
Layne Wagner
Brant Michael Walker
Justin Zamora



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

BACHELOR OF ARTS

INTERDISCIPLINARY ARTS STUDIES

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Claire Evangeline Brown¹
Stephen Zachary Mitchell¹
Stephanie Ann Saldana
Edgar Agustin Santallanes
Kayla Jade Solis

THEATRE ARTS

Emma Siobhan Rolland

BACHELOR OF MUSIC

Aaron Nathaniel Florez
Lauren Rachelle Martin²
2nd Degree: Languages and Cultures
Dylan Randall Slaughter³

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

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



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

nine surrounding cotton-producing counties. These symbols also reflect one of the original missions of Texas Technological College: “To provide students with a thorough education in textiles and technical engineering.” The shield features emblems that evoke the university, community, state and nation. In the upper-left quadrant, a book symbolizes religion and academic traditions. A star in the upper-right corner stands for the Lone Star State of Texas. In the lower left a key represents home, and in the lower right the lamp of knowledge indicates the primary mission of Texas Tech University: “To develop and advance knowledge.” Above the shield, an eagle, the national bird of the United States, spreads its wings. Mindful of the claims of all these constituencies, the faculty of the university create, transmit, and preserve knowledge.

The **Davis College of Agricultural Sciences & Natural Resources** was one of the four founding schools of the univer-



sity 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



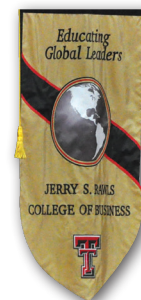
have used these proportions as a means of design. The blue diagonal lines represent the architectural diagram, while the blue-violet fabric, the designated color for Architecture, is woven in a chevron pattern representing the complexity of digital design and fabrication. The banner was designed by David 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



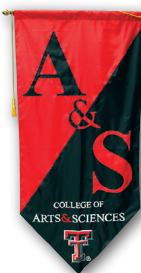
college as a unit dedicated to preparing teachers and furthering educational scholarship, leadership, and service. The Double T logo appears at the bottom of the banner.

The **Jerry S. Rawls College of Business Administration** banner was designed through a collaborative effort of the staff



in the college’s Undergraduate Services Center. The background color of the banner is drab. The central image on the banner is a map of the world centered on Lubbock with the Texas Tech University Double T symbol rising from a focal point in the South Plains. The banner symbolizes the impact of globalization in the modern business environment.

The **College of Arts & Sciences** banner was redesigned in 2014 by Randy Lacy, unit coordinator in the college. Crafted



with classical typography and bold lines, the banner replaces the previous college seal with the famous Double T logo. The red and black colors appropriately represent the largest and most diverse college in the university.

The **Graduate School** banner is blue.

Imposed on this background is a white circle within a light blue one. These circles contain the image of a golden open book and a burning lamp. The open book symbolizes knowledge and



the lamp represents a light by which to study. The banner was designed by the late Associate Dean Thomas Langford and Ms. Beth Cain, who was a Graduate School staff member and artist for many years.

The banner of the **Edward E. Whitacre, Jr. College of Engineering** features the seal of the college set on a field of



orange, the academic color for engineering. The seal of the college, inspired by a 2009 design by chemical engineering student Unwana Essien, is encircled with a border of red, white, and black, symbolizing the spirit of Texas Tech University and the Red Raiders. The two stars represent the ethical duty of engineers to themselves and society. The four symbols in the center of the seal stand for the foundations of engineering:

- The light bulb, surrounded by a ribbon and questions, represents the inspiration of engineers to answer questions and solve problems.

- The square and globe represent the engineer's work as building blocks for the world.

- The hammer and screwdriver represent the practical application of the engineer's work.

- The atomic figure surrounding the beaker represents the confluence of math, science, and technology in the mind of the engineer.

The **Honors College** banner features a sky blue field onto which is placed a

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

The **College of Human Sciences** banner was redesigned in 2016 and adapted from an original design by former



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

The **College of Media & Communication** banner illustrates waves of information emanating from a single



point—one voice heard by many. The banner is white with a crimson background framing waves of information reaching the public. Crimson is the color assigned by the Intercollegiate Code to journalism, the common

core subject area of the college. The white field represents honesty, decency, and purity. Beneath the crimson is the name of the college.

The banner for **University Studies** 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 Studies 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 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.



ACADEMIC DRESS AND PROCESSION



MASTER'S ROBE: Velvet facing around the neck corresponds to color representing the field of study; hood lining represents the colors of the institution that conferred the degree.

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

Wearing academic dress at commencement ceremonies dates from the early history of the oldest universities created during the twelfth and thirteenth centuries. Because educated people were almost always of the clergy, the black gown is an adaptation of the “cope,” a long mantle or cloak of silk or other cloth worn by church dignitaries in processions and on other occasions. The long gown and cowl (similar to the academic hood of today) were worn by priests and monks for warmth in the cold medieval buildings.

In the early centuries, a great diversity of color and style of cap, gown, and hood appeared in different universities of Europe. The European custom of wearing academic dress was later introduced at American colleges. Not until after 1895 was a uniform academic code of dress adopted by most U.S. colleges and universities. Today, the black robe, hood, and cap are worn at most institutions of higher learning. Some institutions have authorized doctoral gowns in colors other than the customary black.

The gowns used in American academic ceremonies vary according to the highest degree awarded to the wearer. Usually the bachelor's robe has long pointed sleeves and the master's has oblong sleeves, square at the end with a slit at the elbow. The doctoral gown is a more elaborate robe faced down the front with velvet and across the bell-shaped sleeves with three bars of velvet. The velvet facing and bars may be of the color distinctive to the field of study.

The doctoral hood has side panels and is slightly longer than the one worn for the master's degree. The color used in the velvet border of the hood indicates the field of study. The velvet border is widest on the doctor's hood, and the colors of the lining indicate the college or university that conferred the degree.

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

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

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

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

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

COLORS REPRESENTING FIELDS OF STUDY

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

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

HONOR CORDS / MEDALLION

The following is a list of honor cords/medallions issued by colleges.

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



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

TEXAS TECH COMMENCEMENT ANNOUNCEMENTS

GRADUATE PHOTOGRAPHS

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

COMMENCEMENT DVD

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





PRESIDENTIAL MACE

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



MACE BEARERS

9:00 A.M., AUGUST 6	SAIF HAQ, Ph.D. <i>Professor of Architecture, College of Architecture</i>
1:30 P.M., AUGUST 6	TALAL GAMADI, Ph.D. <i>Assistant Professor of Petroleum Engineering, Whitacre College of Engineering</i>

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

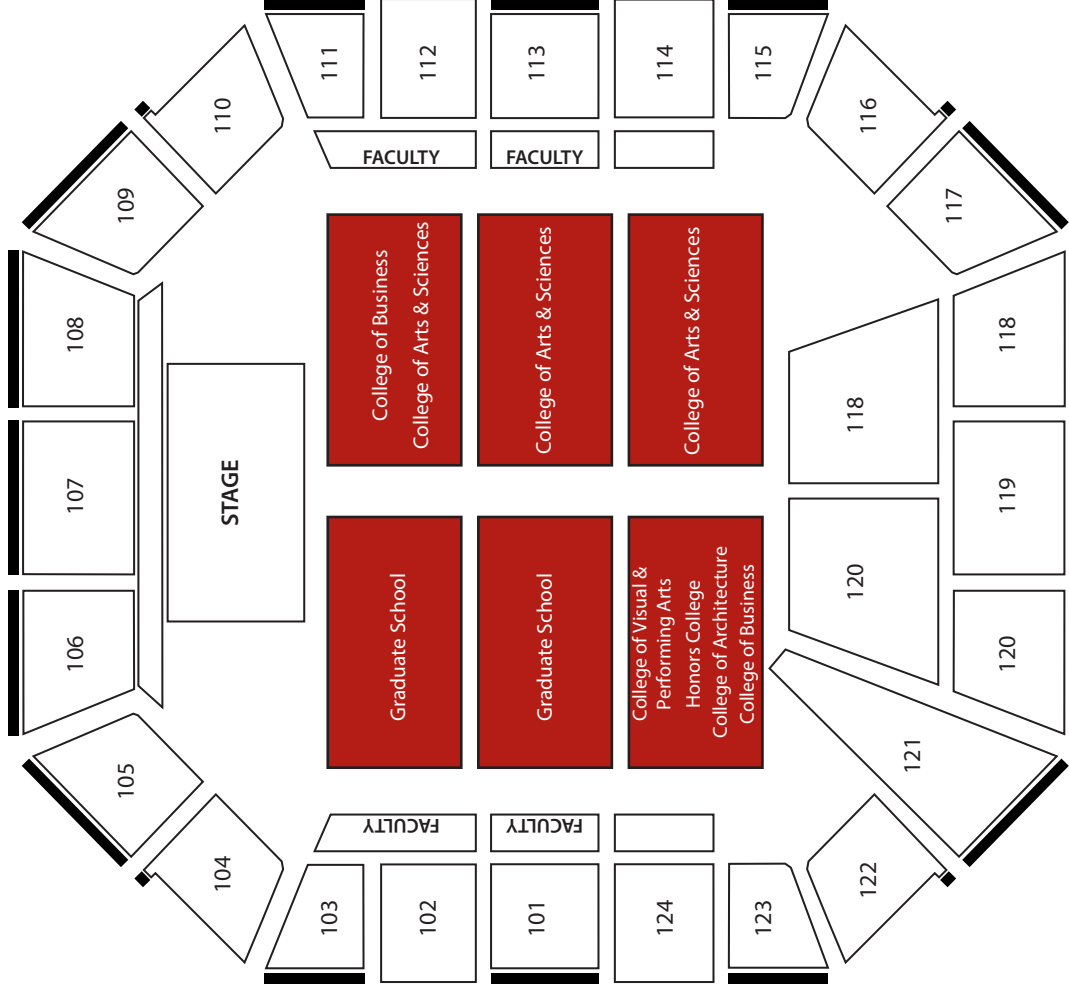
The following students are being
commissioned as Second Lieutenants
in the United States Air Force:

Landen Crosland
Timothy Murphy
Ty Neville

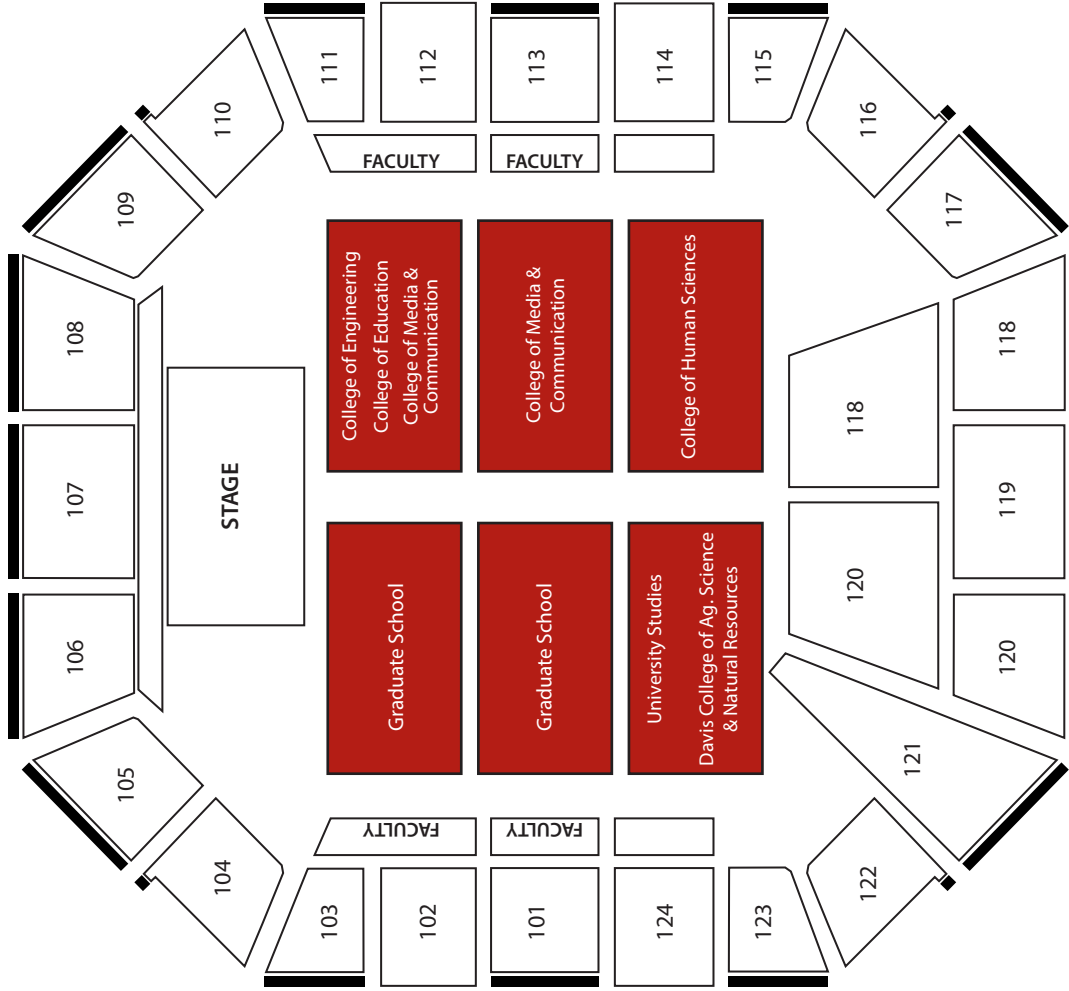
The following student is being
commissioned as a Second Lieutenant
in the United States Marine Corps:

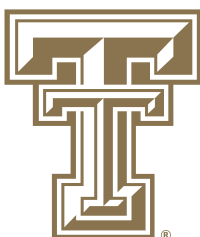
Alyssa M. Yearick

SATURDAY, August 6, 9:00 a.m.



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





TEXAS TECH UNIVERSITY®

The first athletic teams of the university were known as the Matadors, a name that reflected the Spanish architectural influence on campus. The change from Matadors to Red Raiders occurred after a *Lubbock Avalanche-Journal* writer commented on the red uniforms and strong season of the 1932 football team, saying “the Red Raiders from Texas Tech” were the “terror of the Southwest Conference.” The name caught on and by 1936 the team was renamed the Red Raiders. No changes were ever made to the lyrics of the school song, which was penned in 1930. Page from 1936 Student Handbook courtesy of the Southwest Collection.

WORDS BY
R. C. MARSHALL
STUDENT 1930
TEXAS TECH COLLEGE

MATADORS

MUSIC BY
HARRY LEMAIRE
BANDMASTER
TEXAS TECH COLLEGE

Voice

Fight Mat-a-dors for Tech. Songs of love we'll
sing to thee. Bear our ban-ners far and wide.
Ev-er to be our pri-de. Fear-less cham-pions ev-er be.
Stand on heights of vic-tor-y. Strive for hon-or
ev-er more. Long live the Mat-a-dors