

Commencement

SUMMER 2019

Lubbock, Texas

August 10, 2019





TEXAS TECH UNIVERSITY®

SUMMER 2019

Commencement

Saturday, August 10, 2019
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*

MICHAEL L. GALYEAN, Ph.D.

*Provost and Senior Vice President;
Horn Professor of Animal and Food Sciences*

JOSEPH HEPPERT, Ph.D.

*Vice President for Research;
Professor of Chemistry*

NOEL SLOAN, J.D., CPA

*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*

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Lubbock, Texas

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Dallas, Texas

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*Chairman
Fort Worth, Texas*

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Houston, Texas

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Midland, Texas

MR. DUSTY WOMBLE

Lubbock, Texas

MR. J. MICHAEL LEWIS

*Vice Chairman
Dallas, Texas*

MS. GINGER KERRICK

Webster, Texas

MR. SEAN LEWIS

Detroit, Michigan

ACADEMIC OFFICERS

MARK SHERIDAN, Ph.D.

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

W. BRENT LINDQUIST, Ph.D.

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

TIM DODD, Ph.D.

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

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

*Dean, School of Law;
Professor of Law*

MARGARET L. WILLIAMS, Ph.D.

*Dean, Jerry S. Rawls College of
Business Administration*

DAVID D. PERLMUTTER, Ph.D.

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

WILLIAM F. BROWN, Ph.D.

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

JESSE PEREZ MENDEZ, Ph.D.

*Dean and Professor,
College of Education*

NOEL ZAHLER, D.M.A.

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

JIM WILLIAMSON, M.Arch.

*Dean, College of Architecture;
Professor of Architecture*

AL SACCO, JR., Ph.D.

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

BELLA KARR GERLICH, Ph.D.

Professor and Dean of Libraries

MICHAEL SAN FRANCISCO, Ph.D.

*Dean, Honors College;
Professor of Biology*

PATRICK C. HUGHES, Ph.D.

*Vice Provost, University Programs and Student
Success; Professor of Communication Studies*

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

Today, Texas Tech continues to thrive, with more than 38,000 students enrolled in its 11 colleges: Agricultural Sciences & Natural Resources, Architecture, Arts & Sciences, Jerry S. Rawls College of Business Administration, Education, Edward E. Whitacre, Jr. College of Engineering, Honors College, Human Sciences, Media & Communication, J.T. & Margaret Talkington College of Visual & Performing Arts, and the Graduate School, as well as University Programs via the Provost's Office. The institution's goal is to enroll 40,000 students by 2020.

Because of its educational scope and purpose, as well as the size of the region it serves, Texas Tech University operates in numerous Texas locations beyond the Lubbock campus. In all, the Texas Tech University System—which includes Texas Tech University, Angelo State University, Texas Tech University Health Sciences Center, and Texas Tech University Health Sciences Center at El Paso—has more than 44,000 students enrolled.









SINCE TEXAS TECH'S FIRST graduation ceremony in the spring of 1927, more than 200,000 undergraduate and graduate degrees have been awarded by the university. From these proud graduates have emerged captains of industry, world-renowned surgeons, noted authors, famous singers, acclaimed teachers and professors, attorneys, entrepreneurs, agronomists, scientists, professional athletes, and countless others who have claimed positions of service and responsibility in a rapidly changing world.

Texas Tech University graduates have governed states, flown in space, served as Presidential cabinet members, won Olympic gold medals, served as ambassadors to foreign countries, acted on Broadway stages, won Pulitzer Prizes, served in Congress, led Fortune 500 companies, and been watched by millions on network television news.

Not all graduates will achieve fame and fortune in equal measure, but all Texas Tech graduates can point with pride to the solid academic preparation they received and the personal connections they made as Red Raiders. For beneath the spacious skies of West Texas and in the halls of brick and tile through which they strolled during their time on campus, generations of Texas Tech students have been provided a foundation for success that is without parallel. As they take their first steps into careers that will see many of them literally change the world, they can remember with certainty one important fact about Texas Tech University:

From here, it's possible.



COMMENCEMENT CEREMONY

Saturday, August 10, 2019

9:00 a.m.

Presiding	Dr. Lawrence Schovanec <i>President, Texas Tech University</i>
Processional*	Texas Tech Commencement Band <i>Dr. Sarah McKoin, Conductor</i>
National Anthem	Ms. Liz Davila <i>Graduating with a Bachelor of Arts in Music</i>
Welcoming Remarks	Mr. Christopher M. Huckabee <i>Chairman, Board of Regents, Texas Tech University System</i>
Introduction of Commencement Speaker	Dr. Lawrence Schovanec
Commencement Address	Chancellor Tedd L. Mitchell <i>TTUS Chancellor and President of TTU Health Sciences Center</i>
Conferring of Degrees	Dr. Lawrence Schovanec Dr. Michael Galyean <i>Provost and Senior Vice President</i>
Presentation of Doctoral and Master's Degree Candidates	Dr. Kristi Gaines <i>Associate Dean, Graduate School</i>
Presentation of Bachelor's Degree Candidates	Dr. Cindy Akers <i>Associate Dean, College of Agricultural Sciences & Natural Resources</i> Dr. Dennis Arnett <i>Associate Dean, Rawls College of Business</i> Dr. Kelli Cargile Cook <i>Professor and Chair, College of Media & Communication</i> Dr. Tim Dodd <i>Interim Dean, College of Human Sciences</i> Dr. Patrick Hughes (presenting University Studies and Wind Energy degrees) <i>Vice Provost, University Programs and Student Success</i>
Recognition of Outstanding Students Class of 2019	Dr. Michael Galyean
Charge to the Graduates	Dr. Lawrence Schovanec
Alma Mater (Words on Back Cover)	Mr. Jacob Barrow <i>Graduating with a Bachelor of Music</i>
Recessional*	Texas Tech Commencement Band

** Please remain seated during the Processional and Recessional*

COMMENCEMENT CEREMONY

Saturday, August 10, 2019
1:30 p.m.

Presiding	Dr. Lawrence Schovanec <i>President, Texas Tech University</i>
Processional*	Texas Tech Commencement Band <i>Dr. Sarah McKoin, Conductor</i>
National Anthem	Ms. Liz Davila <i>Graduating with a Bachelor of Arts in Music</i>
Welcoming Remarks	Mr. Christopher M. Huckabee <i>Chairman, Board of Regents, Texas Tech University System</i>
Introduction of Commencement Speaker	Dr. Lawrence Schovanec
Commencement Address	Chancellor Tedd L. Mitchell <i>TTUS Chancellor and President of TTU Health Sciences Center</i>
Conferring of Degrees	Dr. Lawrence Schovanec Dr. Michael Galyean <i>Provost and Senior Vice President</i>
Presentation of Doctoral and Master's Degree Candidates	Dr. Kristi Gaines <i>Associate Dean, Graduate School</i>
Presentation of Bachelor's Degree Candidates	Dr. Brent Lindquist <i>Dean, College of Arts & Sciences</i> Dr. Jesse Perez Mendez <i>Dean, College of Education</i> Dr. Al Sacco, Jr. <i>Dean, Whitacre Jr. College of Engineering</i> Dr. Michael San Francisco <i>Dean, Honors College</i> Dr. Brian Steele <i>Associate Dean, Talkington College of Visual & Performing Arts</i> Prof. Jim Williamson <i>Dean, College of Architecture</i>
Recognition of Outstanding Students Class of 2019	Dr. Michael Galyean
Charge to the Graduates	Dr. Lawrence Schovanec
Alma Mater (Words on Back Cover)	Mr. Jacob Barrow <i>Graduating with a Bachelor of Music</i>
Recessional*	Texas Tech Commencement Band

** Please remain seated during the Processional and Recessional*

COMMENCEMENT SPEAKER



Dr. Tedd L. Mitchell serves in a dual appointment as President of Texas Tech University Health Sciences Center and Chancellor of the Texas Tech University System. He has held his post as Texas Tech University Health Sciences Center President since 2010 and became the Texas Tech University System's fifth Chancellor on Oct. 25, 2018.

As Chancellor, Dr. Mitchell serves as the chief executive officer of a \$2 billion, four-university higher education enterprise consisting of Texas Tech University, Texas Tech University Health Sciences Center, Angelo State University, and Texas Tech University Health Sciences Center El Paso. Collectively, the Texas Tech University System enrolls approximately 55,000 students, operates on more than 15 campuses statewide and internationally, and has an endowment valued over \$1.3 billion.

Dr. Mitchell works collaboratively with the Board of Regents, System administration, and each university president to enhance the System's profile and support shared missions of advancing higher education, health care, research, and community outreach. Additionally, Dr. Mitchell guides the System's engagement with state elected officials in Austin and federal leaders in Washington, D.C., to further enhance funding and support.

Historic milestones were achieved, under Dr. Mitchell's leadership, after receiving legislative funding and approval in the 86th Texas Legislature to establish

a new Texas Tech University veterinary school in Amarillo and a new dental school at Texas Tech University Health Sciences Center El Paso. This will be the state's first veterinary school in more than a century and first dental school in over 50 years. The addition of these two schools makes the Texas Tech University System one of only nine in the nation to offer programs for undergraduate, medical, law, nursing, pharmacy, dental, and veterinary education, among other academic areas.

Prior to his dual appointment, Dr. Mitchell was named the eighth president of Texas Tech University Health Sciences Center on May 17, 2010. He is the university's longest-tenured president and has successfully led a period of record growth in enrollment, academic excellence, and physical campus expansion. TTUHSC now graduates more health care professionals than any other health-related institution in Texas.

As President, Dr. Mitchell has launched initiatives for interprofessional concentration around the university's five schools – Biomedical Sciences, Health Professions, Medicine, Nursing, and Pharmacy – and promoted programs to support novel research and creative endeavors such as the Department of Public Health, which will soon become the School of Public Health. Under his leadership, Texas Tech University Health Sciences Center successfully helped establish the System's fourth university, Texas Tech University Health Sciences Center El Paso, in 2013.

Dr. Mitchell earned a Bachelor of Science at Stephen F. Austin State University in 1983. He is an Ashbel Smith Distinguished Alumnus of the University of Texas Medical Branch, where he received his Doctor of Medicine in 1987. In 2012, Dr. Mitchell was honored as a distinguished alumnus of the Department of Internal Medicine. He is a Fellow of the American College of Physicians and the American College of Sports Medicine. From 1988 to 1996, he served as a captain in the U.S. Army Reserves (Medical Corps).

Prior to arriving at Texas Tech University Health Sciences Center, Dr. Mitchell served as president and chief executive officer of the Cooper Clinic in Dallas, an internationally-recognized center of excellence in preventive and sports medicine.

His research interest is focused on the effects of activity and lifestyle on health. Dr. Mitchell has authored or co-authored dozens of scientific papers, abstracts, and book chapters. He also is a frequent lecturer, both nationally and internationally, on the physiology of exercise and the effects of exercise on aging, fitness, and overall quality of life. In 2002, Dr. Mitchell was appointed by President George W. Bush to the President's Council for Physical Fitness and Sports and served until 2009.

As health editor and a weekly columnist for USA Weekend from 1998 to 2010, Dr. Mitchell published more than 600 articles. He received the 2006 Clarion Award and the 2008 Walter C. Alvarez Award for Excellence in Medical Communication from the American Medical Writers Association. His writing led to collaborative efforts with other health experts, culminating in the publication of the books *Fit to Lead*, *Move Yourself*, and *Fit to Lead II*.

Dr. Mitchell is married to Dr. Janet Tornelli-Mitchell. They met while in medical school and practiced together for nearly two decades. The Mitchells have three children: Katherine, an assistant district attorney in Dallas; Charlie, a petroleum engineer in Dallas and a Texas Tech University alumnus; and Chris, a Texas Tech University alumnus, living in Philadelphia pursuing a master's degree at Villanova University.

ACKNOWLEDGEMENTS

CONVOCATIONS COMMITTEE

Ms. Heidi Winkler, Chair
Dr. Courtney D Gibson, Co-Chair
Mr. Ian Barba
Ms. Shelley Barba
Mr. Jacob M. Baum
Dr. Shane Blum
Dr. Rhonda Boros
Dr. Valerie Borum
Dr. Alec Cattell
Ms. Luciana C. Cavazos
Dr. Julie Chang
Dr. Danny Choi
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Ms. Amiee Dixon
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Dr. Jian Wang
Mr. Seth Warren-Crow
Dr. Richard Watson
Dr. Lynn Whitfield
Ms. Feruzan I Williams
Dr. Aliza Wong
Ms. Kiley Yonavich

MUSIC ENSEMBLE

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

COLLEGE READERS

College of Agricultural Sciences & Natural Resources – Dr. Warren Conway
College of Architecture – Prof. David Isern
College of Arts & Sciences – Dr. Jorge Iber
Rawls College of Business Administration – Mr. Derrick Ginter
College of Education – Dr. Zinab Elhagrasy Muñoz
Whitacre, Jr. College of Engineering – Dr. Ken Rainwater
Graduate School – Dr. Tim Dallas and Dr. Aaron Zimmerman
Honors College – Dr. Ken Rainwater
College of Human Sciences – Dr. Bill Gustafson
College of Media & Communication – Dr. Todd Chambers
University Programs and Wind Energy – Dr. Marcus Tanner
Talkington College of Visual & Performing Arts – Prof. Andrea Bilkey

ADMINISTRATIVE REPRESENTATIVES

College of Agricultural Sciences & Natural Resources – Ms. Macie Reese
College of Architecture – Ms. Amy Peterman
College of Arts & Sciences – Ms. Kimberli Saldaña
Rawls College of Business Administration – Ms. Geleah Sharp
College of Education – Ms. Karen Noles
Whitacre, Jr. College of Engineering – Ms. Tonette Rittenberry
Graduate School – Ms. Katie Chapman
Honors College – Ms. Cheyenne Belew
College of Human Sciences – Ms. Ashlee Brown
College of Media & Communication – Ms. Julia Heard Witt
University Programs – Ms. Kacey Marshall and Ms. Rachel Frazier
Talkington College of Visual & Performing Arts – Ms. Kathy Nordstrom

PROGRAM

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

STUDENT BANNER BEARERS

College of Agricultural Sciences & Natural Resources – Ms. Chloe Wilson
College of Architecture – Mr. Gilbert Gonzalez
College of Arts & Sciences – Ms. Shelby Skomer
Rawls College of Business Administration – Ms. Megan Elliott
College of Education – Mr. Preston Teters
Whitacre, Jr. College of Engineering – Mr. Kazi Muktedir
Graduate School – Ms. Ai Kitazumi and Ms. Kara-Aretha Graham
College of Human Sciences – Ms. Vy Hong Thao Nguyen
Honors College
9:00 a.m. – Mr. Jordan Knight
1:30 p.m. – Mr. Shashidhar Sastry
College of Media & Communication – Mr. Joseph Greiner
University Programs – Ms. Madison McLellan
Talkington College of Visual & Performing Arts – Mr. Adrian Ito

FACULTY BANNER BEARERS

9:00 a.m. – Barbie Chambers, Ph.D.
Assistant Professor of Professional Communication, College of Media & Communication
1:30 p.m. – Upe Flueckiger, M.Arch
Professor of Architecture, College of Architecture

LIBRARY BANNER BEARERS

9:00 a.m. – Mr. Joshua Salmans
1:30 p.m. – Mr. Chris Starcher

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

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

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

DOCTOR OF EDUCATION

AGRICULTURAL EDUCATION

Kalynn Dawn Baldock

Dissertation: Agricultural Educators' Adoption of Inquiry-based Learning: The Effects and Beliefs about Education, Self, and Context
Major Professor: Theresa Murphrey (TAMU)

Megan Luanne Roberts

Dissertation: Selected Agricultural Students' Self Perceived Emotional and Financial Wellbeing
Major Professor: Rudy A. Ruiz

EDUCATIONAL LEADERSHIP

Brandon Kyle Mahler

Dissertation: Grow Your Own Teachers: A Case Study of Strategies Used by Rural Texas Schools to Produce and Retain Qualified Teachers
Major Professor: Fernando Valle

Nancy Ruiz-Parker

Dissertation: Using Professional Learning Communities to Effectively Implement Response to Intervention
Major Professor: Irma Almager

HIGHER EDUCATION ADMINISTRATION

David Stanley Farmer, Jr.

Dissertation: Post-9/11 GI Bill Student Veteran Perceptions of Nonfinancial Services and Resources for Successful Transition from the Military to Postsecondary Education
Major Professor: Stephanie Jones

INSTRUCTIONAL TECHNOLOGY

Cheri Myers Hadley

Dissertation: An Investigation of Faculty Perceptions of Online Teaching: Barriers and LMS Satisfaction
Major Professor: Jongpil Cheon

DOCTOR OF MUSICAL ARTS

Jason Zachary Davis

Dissertation: Demonstrating the Need, Creation, and Implementation of a Modernized Digital Basoon Repertoire Catalog
Major Professor: Richard Meek

Joshua Ray Frans

Dissertation: The Brooklyn Panorama Competition: A Historical Account
Major Professor: Lisa Rogers

Jeremy David Isley

Dissertation: An Annotated Bibliography of Duets for Soprano Voice and Marimba and/or Vibraphone
Major Professor: Lisa Rogers

Xiao Yang

Dissertation: Helping Developing Pianists Prepare for the Sonatas of Haydn and Mozart: A Sequenced Approach to Technique and Artistry
Major Professor: Carla Davis Cash

DOCTOR OF PHILOSOPHY

AGRICULTURAL AND APPLIED ECONOMICS

Olumide Rinde Aborisade

Dissertation: Essays on Agribusiness, Entrepreneurship and Food Security in Nigeria
Major Professor: Carlos E. Carpio

Edwar E. Escalante Tito

Dissertation: The Political Economy of Violence and Development in Latin America
Major Professor: Adam Martin

Rebecca Leigh Mccullough

Dissertation: Impact of Groundwater Resources and Crop Insurance on Agricultural Producers in the Southern High Plains of Texas
Major Professor: Donna McCallister

AGRICULTURAL COMMUNICATIONS AND EDUCATION

Keith J. Frost

Dissertation: Programmatic Balance in School Based Agricultural Education
Major Professor: John Rayfield

Raphael Mwiti Gikunda

Dissertation: Spatial Analysis of Perceived Sustainable Organic Agricultural Practices among Farmers in Central Kenya
Major Professor: David Lawver
Jenise Haynes Wooten
Dissertation: Symbolism in Agriculture: A Qualitative Inquiry of the Visual Vocabularies of Graphic Communicators
Major Professor: Courtney Gibson

ANIMAL SCIENCE

Ilan Alexander Arvelo Yagua

Dissertation: Novel Strategies to Model Biofilm Development and Foodborne Pathogen Persistence on Food Environmental Surfaces
Major Professor: Marcos X. Sanchez-Plata

Sayani Mallick

Dissertation: Effects of Oven Temperature and Degree of Doneness in Flavor Development of Beef Steaks
Major Professors: Mark Miller and Jerrad Legako

BIOLOGY

Amanda Michelle Starr

Dissertation: Identification of Novel Secreted Compounds from the Amphibian Pathogen *Batrachochytrium dendrobatidis*
Major Professor: Michael San Francisco

BUSINESS ADMINISTRATION

Mohammed Gaus Alam

Dissertation: Effects of Conflicting Non-compliant Current Habit on the Adoption of New Information Security Policy (ISP): Using a Phishing Email Perspective
Major Professor: Fred Davis

Muhammad Ahmed Saleem Baig

Dissertation: Essays in Money Markets
Major Professor: Drew B. Winters

Saman Bina

Dissertation: Dissonant Information Avoidance Bias in the Information Requirements Determination Process
Major Professor: Glenn J. Browne

Jeffrey Alan Chandler

Dissertation: Executive Dismissals After Financial Statement Fraud: The Role of CEO Humility and CEO Narcissism

Major Professor: Tyge Payne

Daniel Paul Gullifor

Dissertation: Imposter Phenomenon (IP): An Experimental Examination of State IP

Major Professor: William L. Gardner

Md Nasim-Us Sabah

Dissertation: Information, Liquidity, and High Frequency Trading

Major Professor: Will Armstrong

Gabriel Silva Cogo

Dissertation: Understanding DevOps: From its Enablers to Impact on IT Performance

Major Professor: Donald Jones

Lei Xu

Dissertation: The Antecedent and Consequence of Two Forms of Social Capital

Major Professor: Kim Boal

CHEMICAL ENGINEERING

Ziye Dong

Dissertation: Layer-by-Layer Assembly of Responsive Polymeric Nanofilms: Characterizations and New Applications

Major Professor: Wei Li

Sina Hassanjani Saravi

Dissertation: Thermodynamic Modeling of Electrolyte Solutions: Bridging Classical Macroscopic Models and Molecular Simulations

Major Professor: Chau-Chyun Chen

Soraya Honarpour

Dissertation: Thermodynamic Modeling and Management of Saline Waters

Major Professor: Danny Reible

Md Moniruddin

Dissertation: Nano assembly of Photoactive Materials towards Designing Visible Light Heterostructured Photocatalysts

Major Professor: Nurxat Nuraje

Apoorva Sridhar

Dissertation: The Influence of Pretreatment and Doping of Fe, Co, Ni on Mo/HZSM-5 Catalysts in Methane Dehydroaromatization

Major Professor: Sheima Khutib

Yue Yu

Dissertation: Polyelectrolyte Nonrandom Two-Liquid Model: Thermodynamic Frameworks and Applications in Ion Exchange Membranes and Polymer Swelling Equilibrium

Major Professor: Chau-Chyun Chen

CHEMISTRY

Anthony Truong An Bui

Dissertation: Structure and Function Studies of B. cereus Metallo- β -lactamase 5/B/6 and Synaptotagmin I C2 Domain AD3 Mutants

Major Professor: Joachim Weber

Songyue Shi

Dissertation: Development of Micro-dielectric Barrier Discharge Mass Spectrometry for Fast Surface Analysis of Solid Samples and Insights into its Underlying Mechanisms via Optical Emission Spectroscopy

Major Professor: Gerardo Gamez

CIVIL ENGINEERING

Dimitrios Athanasiou

Dissertation: Effects of Polycyclic Aromatic Hydrocarbons in Urban Stormwater on Receiving Sediment

Major Professor: Danny Reible

Susan Marion Germany

Dissertation: Investigation on the Behavior of FRP Jacket Systems used for the Repair of Corrosion-damaged Steel Piles

Major Professor: Sang-Wook Bae

Manil Chathuranga Hettiwatte

Dissertation: Cotton Fibers to Enhance Performance of Particulate Cementitious Composites

Major Professor: Sanjaya Senadheera

Fei Yu

Dissertation: Improvement of Concrete Overlay Design Procedures

Major Professor: Moon Won

CLINICAL PSYCHOLOGY

Sarah Louise Brown

Dissertation: Social Exclusion and the Development of Suicide Ideation and Suicidal Behaviors: A Theory-driven Experimental Approach

Major Professor: Kelly Cukrowicz

Jessica Marie Hoffmann

Dissertation: Parental Rejection and Acceptance and Youth Internalizing Symptoms: The Roles of Emotion Regulation and Close Friend Support

Major Professor: Catherine Epkins

Angela Kay Stevens

Dissertation: Psychometric Validation of the Momentary Impulsivity Scale Among a High-Risk Sample of Emerging Adults

Major Professor: Andrew Littlefield

COMPUTER SCIENCE

Byungkwan Jung

Dissertation: Region-aware Querying Strategies in Infrastructure-less Networks: Design, Analysis and Evaluation

Major Professor: Sunho Lim

Don Thanujaya Pathirage

Dissertation: Modeling of Security Failure Tolerant Requirements and Design of Secure Connectors

Major Professor: Michael Shin

Edward Osler Wertz

Dissertation: Effective Reasoning Systems for ASP Related Paradigms

Major Professor: Yaunlin Zhang

COUNSELING PSYCHOLOGY

Alexis Ademir Arevalo

Dissertation: Perceived Discrepancies in Family Behavior within Latina/o Emerging Adults: The Effects of Familism Values on Suicidal Ideation, Perceived Burdensomeness and Thwarted Belongingness

Major Professor: Brandy Pina-Watson

Cecilia Bess

Dissertation: Conformity to Gender Norms as a Moderator of the Association between Intrinsic Religious Orientation and Condom Use among Emerging Adults

Major Professor: Steven Richards

Alexavery Rainer Hawkins

Dissertation: From "Every Sunday I cried in church" to "I'm doing my own thing": A Constructivist Grounded Theory Study of Gender and Sexual Minority College Students' Departure from Christianity

Major Professor: Steven Richards

Victoria Anna Henderson

Dissertation: Sexual Assault on College Campuses: Rape Myth Acceptance, Feminine Gender Norms, Benevolent Sexism, and Effects of Depression and Hopelessness

Major Professor: Steven Richards

Jessica Michelle Johnston-York

Dissertation: Sexual Satisfaction among Newlywed Conservative Christians: The Role of Sexual Anxiety, Sexual Assertiveness, Sexual Communication, and Religious Coping

Major Professor: Sheila Garos

Stephanie Anne Van Horn

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

Major Professor: Robert Morgan

COUNSELOR EDUCATION

John Robert Delony

Dissertation: Counseling Resistant Influentials: The Experiences of Counselors Who Counsel Attorneys

Major Professor: Bret Hendricks

GRADUATE CANDIDATES

COUPLE, MARRIAGE, AND FAMILY THERAPY

Christopher James Bedard

Dissertation: Religious Couples' Shared Meanings of Infertility: A Phenomenological Inquiry
Major Professor: Jacklyn Cravens

Valerie Ann Handley

Dissertation: Using Solution-focused Brief Therapy and Animal-assisted Therapy with Sexual Minorities: A Pilot Microanalysis Study
Major Professor: Stephen Fife

Adam Clayton Jones

Dissertation: The Role of Feedback in Therapist Training of Facilitative Interpersonal Skills
Major Professor: Douglas Smith

Rebecca Lucero Jones

Dissertation: The Experience of Language for Those Who Have Received Treatment for a Substance Use Disorder
Major Professor: Stephen Fife

Porter Rex Macey

Dissertation: Alcohol Use Disorder Recovery and Relationships: The Impact of Family Functioning on the Pre-frontal Cortex and Romantic Relationships of Individuals in Recovery from Alcohol Use Disorder
Major Professor: Spencer Bradshaw

Jesse Allen Smith

Dissertation: Predictors of Active and Remission Substance Use Disorder Remission: A Decision Tree Analysis
Major Professor: Spencer Bradshaw

CURRICULUM AND INSTRUCTION

Tala Michelle Karkar Esperat

Dissertation: Assessing Preservice Teachers' Knowledge of New Literacies
Major Professor: Patriann Smith

Kara-Aretha Phillips Graham

Dissertation: "We are just athletes...What more is there to say?" A Phenomenological Narrative Inquiry into the Lives of NCAA D-I Female Student Athletes
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Dissertation: Service Learning and Empathy in Technical Communication Courses within Engineering Education: A Case Study to improve the "Culture of Disengagement" of Engineering Students
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Dissertation: LocalWiki: A Review of Genre Ecology Instability across Classes of Participants
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John Paul Shank, Jr.

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Rebecca Schultz
Thesis: Excavation and Exploration of Grave Recovery Methods at Belknap Civilian Cemetery in Young County, Texas

COMMUNICATION STUDIES

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Thesis: Affect, Narrative, and Medium in Television: A Critical Examination of Representations of Queerness and Colonialism in *The 100*
Katelyn Johnson
Thesis: Cinematic Television and Lines of Flight within *Marvelous Mrs. Maisel*, and *The Grotesque Otaku: Kill La Kill* and a Singular Resistance

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ENGLISH

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EXPERIMENTAL PSYCHOLOGY

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Thesis: It's Not You, It's Me: The Role of Narcissism, Self-Discrepancy, and Mitigating Information on Aggression

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Thesis: You're Welcome for My Service: "Dysfunctional Veterans," Stolen Valor and the Social Groups of Post-War Soldiers
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Thesis: Deadly Lede: Framing and Attacks on the Mexican press
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Jeanette D'Ann Moya
Thesis: Transporting, Identifying and Expanding: Superheroes in Series Television and Film
Bethany Paige Pitchford
Thesis: Creativity and Healing: How Creative Media Help Us Cope with Mental Illness
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Aditya Sahasrabudhe
Donald Wayne Shelton III
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Thesis: A Defense of Expected Utility Theory

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Thesis: When Life Imitates Art: Political Messages in Modern Cinema

PSYCHOLOGY

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Thesis: Measuring Food Security and Evaluating the Impact of an Educational Intervention on Food Security and Nutrition among Rural Farmers in El Salvador: A Mixed Method Study

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Laci Christine Vogel

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Thesis: The Influence of Hairy Root Cultures on the Biosynthesis of Granatane Alkaloids in *Punica Granatum* (Pomegranate)

COMPUTER SCIENCE

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- Emre Unal
Thesis: Towards Prediction of Security Attacks on Software Defined Networks: A Big Data Analytic Approach

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Thesis: Antimicrobial Intervention Efficacy and the Survivability of *Listeria Monocytogenes* on Ready-to-Eat Meat Products

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Thesis: Spatiotemporal Analysis of Irrigated Agriculture and Groundwater Depletion in Four Counties of West Texas

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PLANT AND SOIL SCIENCE

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Thesis: Heat and Drought Stress of Common Turfgrass Species in a Semi-Arid Environment
Ritchel Bueno Gannaban
Thesis: Identification of Novel Sources of Variation for the Improvement of Cold Germination Ability and Early Seedling Vigor in Upland Cotton (*Gossypium hirsutum* L.)
Gayani Buddhika Wadawasam Jalathge
Thesis: Mapping and Characterization of Sorghum Bicolor Thick Leafed Mutant
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Joshua James Singleton
Thesis: Role of Genetic Diversity in the Adaptive Success of Silverleaf Nightshade (*Solanum Elaeagnifolium*) Under Variable Environmental Pressures
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Thesis: Interaction Studies of Photoperiodic Flowering Time Regulator FKF1 and Characterization of UCH-L1

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Jaden Hansard Haskell
Blake Nicholas Haygood
Joshua Hernandez
Edward Lawrence Hieb
Armando J. Hinojosa
Justin Hong²
Ryan M. Hull
Shaheer Haider Khan
Gunnar Koon³
Andrew Scott Leonard
Michael James Moore
Garrett C. Morgan³
Cesar Rocha²
Kal Davis Rogstad²
Muhammad Sadiq
Kaleb Ryne Stephenson
Daniel Russell Stevens
Gunnar J. Teilmann²

PETROLEUM ENGINEERING

Shavon A. Carvin
Shawn Lee Henderson



BACHELOR OF ARTS

HONORS ARTS AND LETTERS

John Kabl Wilkerson^{1,5}
2nd degree: History/Political Science



BACHELOR OF INTERIOR DESIGN

Nicole Taylor Byrom
Sahara Rose Woolsey¹

BACHELOR OF SCIENCE

APPAREL DESIGN AND MANUFACTURING

Kelsey Nicole Linnartz
Alexandra Marie McMayon³
Gabiella Montelongo
Tatum Meredith Roach

COMMUNITY, FAMILY, AND ADDICTION SCIENCES

Zoe Elizabeth Armstrong
Brittany Autumn Brewer¹
Amanda Lee Field
Julianna Serrato Gamon
Cecilia Monique Garcia
Madeline Jayne Haratsis³
Heather Lee James
Arianna Nicole Martinez
Marissa Elise Ramey
Andrea Renae Reid²
Jordon Donnelle Speer³
Morgen Liana Williamson
Krayah Marie Wilson²

HUMAN DEVELOPMENT AND FAMILY STUDIES

Nichole Noel Abbott
Fatima Abimbola
Alexandra Rose Almanza
Evelin Guadalupe Barahona
Alyssa Nicole Berlien
Sarah Renae Bowman
Kandace Dianne Canaday
Angela Tomone Cauthorne
Chandler May Claxton
Catherine Elizabeth Condit¹
Daniela Corria
Madison Taylor Davis
Kayla Brynne Dippel
Kaela Lanai Foley
Madalyn Claire Hildreth
Kelly Grace Kossuth²
Vincent LaFave
Isabella Christine Lenisa
Nneka Chibuzo Mgbemenu

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

UNDERGRADUATE CANDIDATES

Addison Lee Moore
Brian Austin Moore
McKenna Elizabeth Moore
Kaylee Renee Power
Hayden Makenzie Riegel²
Hannah Elisa Thompson
Brighton Kay White^{3,4}
Brighton Gable Yoder

HUMAN SCIENCES

Allison Nicole Alexander
Jennifer Avila¹
Sara Marie Beer¹
Gisselle Alexis Beltran
Christina Carter
Amy Alexandra Cuellar
Lyric Na'kambre Diggles
Nokuthula Nonhlanhla Dlamini
Jordan Taylor Duke
Jermyah A Eddins
Claudia Renee Eldredge
Anthony Heli Garcia Moreno
Katherine Elizabeth Howard²
Kristen Elizabeth Ireland
Aaron Jacob Jackson
Caitlin Louise Jackson
Luke Kershaw
Kyria Monique Kingery³
Savannah Hope Lee
Erin Mary Manning
Alea Haley Mason
Bethelhem Kindie Mekonnen
Chantel Justice Millender
Caroline Mya Mitchell
Cayla Von Napper
Nicole Elayne Lynn Patterson³
Hailey Madison Poehls²
Morgan Shanell Prescott
Luis Benjamin Rodriguez Vasquez²
Maci Danielle Salaz
Caylee Jordan Smith
Emily Evans Smith
Karen Smith
Katana Smith
Lacie Elizabeth Smith
Rebecca Lynn Smith²
Nancy Elaine Snell²
M'Kinley Faith Van Cleave³
Shawnee Breanne Wilbur
Margaret Belle Wolf
Amber Nicole Zucker³

NUTRITION

Nannette Marie Colon Diaz¹
Michael Contreras
Scott Lee Long
Joseph Richard Menicke
Lucy Murguia
Vy Hong Thao Nguyen¹
Savannah Marie Rendon
Bailey Elise Renfroe
Amy Taylor

NUTRITIONAL SCIENCES AND DIETETICS

Florence M Jones³
Alejandra Lucia Mera²
Sarah Grace Scheller

PERSONAL FINANCIAL PLANNING

Penny Ellyn Mraz³
Michael Dylan Rubin

RESTAURANT, HOTEL, AND INSTITUTIONAL MANAGEMENT

Colten Laine Courtney
Yesenia Gil
Tiffany Terese Gore
Chloe Nicole Harlow
Drew Olvey
Samantha Nicole Owen
Ryan Patrick Payne
Makayla Dane Phillips
Marcopolo Salazar
Daniel Earl Silver
Britton Cale Simpson
Andrew Michael Thomas

RETAIL MANAGEMENT

Hellen Fae Allen-Evans
Magdalene Black
Tanner Chase Bowden
Brooke Anya Elliott
Hailee Elyse Folawn
Savannah Gonzales
Jordan Elizabeth Hoke²
Jacqueline Mae Meier
Jill Michelle Ray²
Ciara Nicole Rocha
Avery Blair Wilcox¹



TEXAS TECH UNIVERSITY

College of Media
& Communication⁵

BACHELOR OF ARTS

ADVERTISING

Alyssa Bailey Barthel
Michael Alexander Billings
Paola Isabelle Blanes
Anakaren Amaris Gutierrez
2nd Major: Media Strategies
Andrew Christopher Hindle
Chukwunonso Jonathan Kafor
Clayton Reed Kiatta
Molly Marie Locke
Alejandro Maximiliano Martinez
Tyler Scott McCurdy
Katherine Grace Morgan
William Douglas Parker
Quincy Jajuan Simpson
Brandon Ray Stearns

COMMUNICATION STUDIES

Lindsay Ann Block
Olivia Anna Bregger
Brentice Malik Brigham
Joshua Mark Brown
Travis Neill Buck
Samantha Paige Carpenter
Angel LaNora Carroll
Adam Wright Chick
Michaela Noelle Countryman
Isaiah Flores
Eric Rene Garza
Henry Garza
James Henry Gilliland V
Emily Gretchen Gleason
Joseph R. Greiner¹
Eric Richard Johns
Sydney Rose Keim
Bryleigh Taite Macgregor
Xavier Adair McTizic

Ana Gabriela Moore
Stephanie Arianne Perez
Samantha Lynn Peterson
Vincent James Petitjean³
Charles Wade Reagor III
Zoë Elizabeth Samaniego
Mariela Adriana Sanchez
Tabitha Vanoy Silva³
Walter Jacob Snow
Avery Lauren Talley
Kyle James Tyree Walsh
Dustin Michael Ward¹
April Nicole Wilson
Debrah Louise Wright³
Paloma Esmeralda Zaragoza-Mendez

ELECTRONIC MEDIA AND COMMUNICATIONS

James Christian Aaron
Jake Pearson Archer
Victoria Calzoncit
Zakhery Kohl Carroll
Payton McKenzie Everheart
Ashlee Christeen Frazier²
2nd Degree: Human Sciences
William McClelland Gallemore
Jacob Foster Gartman
Terrellyn Faye Moffett
Adrian Romero
Caleb Dee Tynes
Maria Elizabeth Young

JOURNALISM

Erika Elizabeth Chevez
2nd Degree: Management
Samantha Anne Jarpe
Joshua Paul Rhymer

MEDIA STRATEGIES

Philip Osagie Arabome
Webb Wright Ashley
Nicholas Dionisio Castillo
Karsten Doan
Neal Raj Duggal
Joseph Levi Elliott
Maria DelRosario Gonzales
Caroline Elizabeth Grace
Lea Maric
Zackri Garrett McCain
Jamodrick Jamar McGruder
Danilson Pena Ndinofina
Austin Mallory Sewell
Cooper James Small
Shane Garrett Starnes
Austin Randall Mercer Stephens
Stephen Landry Truett

PUBLIC RELATIONS

Amanda Ryan Ainsworth
Amy Lynne Avery
Steven James Collins
Kendyl Patrick Dent
2nd Degree: Music
Kent Austin Depwe
Carl Pultz Flanagan
Kiyah Justice Hays
Nicholas Lee Huff
Madeline Jean King
Lonnie Quarles McKinnis
Avery Corelle Marie Moore
Brooklyn Nicole Murdy²
Jena Carys Rangnow
Yesenia Rosales³

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

UNDERGRADUATE CANDIDATES

Sara Saenz
Garrett Louis Scotch
Madison Paige Smith²
Shelby Ann Stewart
Madeleine Rose Trischett
Brianna Marie-Alexandra Velde
Dalia Veliz
Ashley Nicole Vorse³
Sara Victoria Zapata



TEXAS TECH UNIVERSITY

University Programs™

BACHELOR OF APPLIED ARTS AND SCIENCES

Susie Hurtado
Josh Aaron Jones
Angela Michelle McClung³
Misty Dawn Umholtz

BACHELOR OF ARTS

UNIVERSITY STUDIES

Natalina Viana Aguilar
Kayla Sue-Avery Belew
Ryan Isaiah Castel
Robert Mark Clay¹
William Price Davis²
Michelle Marie Duran
Jordan LeaAnn Elkins
Meghan Riley Elliott
Jack Connor Ferguson
Mallory LeeAnne Few
Michaela Nicole Flynn
Kayln Joann Gunter
Darvin Demonte Ham
Hailey Nicole Irvin
Paul Hunter Lohmeyer

Laura Lynn McLand
Madison Michelle McLellan¹
Robert Brian Mojica
Katie Nicole Daisy Nissen
Marcus Rowdy Oglesby
Nathan Andrew Ost
Jonathan James Pacheco
Dominic Luke Panazzolo
Austin Tyler Philippi
Jeremy Eli Rutherford
Timothy Scott Sanguinetti
Kassi D'nai Scarlett³
Bryleigh D'Ann Schovassja
Lacey Marie Tadlock³
Harrison Reese Taylor
Angela Nicole Thompson
Ricardo Villanueva
Justin Michael Yankovoy
Quentin Yontz

BACHELOR OF SCIENCE

UNIVERSITY STUDIES

Abigail H. Brinker
Juan Paolo Novido Gutierrez
Andrew John Azariah Hudson
William Curtis McLaughlin
Savannah Leigh Perez
Justin Stowe

WIND ENERGY

Oscar Castillo, Jr.
Dakota Paul Celey
Jesus Daniel Guerrero
Christian Emilio Lozano
Matthew Maziare Mamdouhi
Peyton Sawyer McWilliams
Henry Mendoza
David James Morgan
Derrick Muhoro

Benjamin Ngalawa
Austin Wingate Rushing
Benjamin Scott St. Amand
Rowland Anthony Wallerstein¹
Ian Edward Watkins



TEXAS TECH UNIVERSITY

J.T. & Margaret Talkington

College of Visual & Performing Arts

BACHELOR OF ARTS

MUSIC

Elizabeth Davila
2nd Degree: Psychology
Kendyl Patrick Dent
2nd Degree: Public Relations
Adrian Javier Ito^{1,4}
2nd Degree: Philosophy
Elijah Garcia Trevino

THEATRE ARTS

Britney Jade Sinclair³

BACHELOR OF FINE ARTS

ART

Rachel Nicole Johnson³

BACHELOR OF MUSIC

Jacob Kenley Barrow²
Hudson T. Dougherty
Morielle Eileen Haller
Andrew Bennett Hayes
Benjamin Thomas Post
Kevin Daniel Sells
Joel Aaron Venegas³

RECEPTIONS AND OTHER CEREMONIES

INDIVIDUAL COLLEGE RECEPTIONS

Immediately After Commencement Ceremony

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

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

COLLEGE BANNERS

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

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



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

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

The **College of Agricultural Sciences & Natural Resources** was one of the four founding schools of the university in 1924. The college banner was redesigned for use in the May 2005 graduation. Dr.



The design, with a map of the continent of North America, reflects the global scope of modern agriculture and natural resources management.

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



The blue background color of the **College of Education** banner reflects the light blue color designated for education by the Intercollegiate Code and is also seen in the velvet border of education master's and doctoral hoods and doctoral gowns. The upper area of the banner carries a school building encircled by the words "College of Education" and "Scholarship, Leadership, Service" to represent the primary roles of the college as a unit dedicated



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

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



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

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



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

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



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

The banner of the **Edward E. Whitacre, Jr. College of Engineering** features the seal of the college set on a field of orange, the academic color for engineering. The seal of the college, inspired by a 2009 design by chemical engineering student Unwana Essien, is encircled with a border of red, white, and black, symbolizing the spirit of Texas Tech University and the Red Raiders.



The two stars represent the ethical duty of engineers to themselves and society. The four symbols in the center of the seal stand for the foundations of engineering:

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

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



The **College of Human Sciences** banner was redesigned in 2016 and adapted from an original design by former faculty member Dr. Ben Goh. The design depicts an adult, an adolescent, and a child. The diversity of faces and ages represents the



families and communities served by the college in its mission to improve and enhance human lives through teaching, research, and outreach. The image of the globe represents the goal of not only serving the lives of those in the local community, but also connecting with the global community.

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



The banner for **University Programs** exhibits the colors of Texas Tech with a red background trimmed in black. The focus of the banner is the silhouette of the Administration Building's bell tower, which is an iconic symbol of Texas Tech. Just as the university is comprised of many parts, University Programs integrates multiple programs from colleges across the university. The traditional Double T placed in a window of the tower signifies the future that awaits students who complete these programs in preparation for successful careers.



The **J.T. & Margaret Talkington College of Visual & Performing Arts** banner is black with a blue drape surmounted by a silver swathe that evokes the creative energy infused in all the arts. The top of the banner features the words "College



of Visual & Performing Arts" in silver, linked by a dynamic red ampersand representing the merging of three departments into the college. Centered in the banner is the college's original award-winning logo designed by the Price

Group in 2002, the same year the college was founded. The logo is a circle divided into three sectors, each representing one of the three units of the college: a blue eye for the School of Art, a red lyre for the School of Music, and a golden spotlight for the School of Theatre and Dance. All three artistic icons are encased by a circular banner which reads: "Texas Tech University." The shape of the banner was selected through a student competition, and the banner was made by personnel in the Costume Shop of the Department of Theatre and Dance.

The symbols on the **Texas Tech University Libraries'** banner reinforce the idea that the Library is the center of knowledge on campus. As such, it is the guardian and giver of knowledge and information. The key in the foreground of the banner symbolizes the Libraries' role as guardian and safe keeper of all ideas. In the not too distant past, knowledge was considered sacred or something that was best kept



locked away, thus the symbolism of the key. The flames symbolize the Libraries' other and equally important role as the giver of knowledge, providing access to wisdom. For centuries, the use of fire was believed to be man's first step on the path to civilization; one characteristic of fire is its ability to spread, which represents the Library's role as purveyor of knowledge. The colors of the flames symbolize the three broad branches of knowledge; scarlet for humanities, gold for sciences, and the purple flame for social sciences.

ACADEMIC DRESS AND PROCESSION



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



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

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

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

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

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

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

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

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

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

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

COLORS REPRESENTING FIELDS OF STUDY

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

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

HONOR CORDS / MEDALLION

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

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



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

TEXAS TECH COMMENCEMENT ANNOUNCEMENTS

GRADUATE PHOTOGRAPHS

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

COMMENCEMENT DVD

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

PRESIDENTIAL MACE

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



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

MACE BEARERS

9:00 A.M., AUGUST 10 JAEKI SONG, Ph.D.
*Professor of Management Information Systems,
Jerry S. Rawls College of Business*

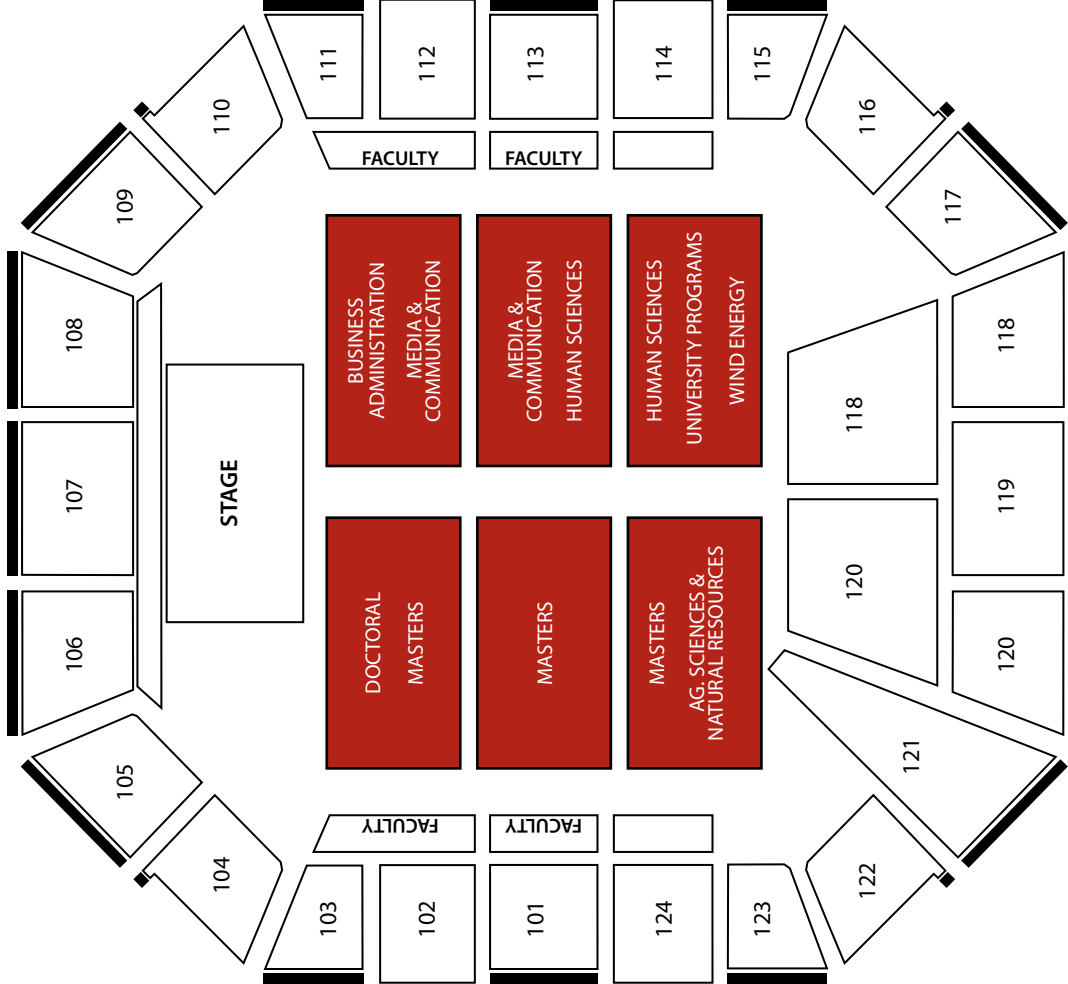
1:30 P.M., AUGUST 10 ALI NEJAT, Ph.D.
*Professor of Civil Engineering,
Edward E. Whitacre, Jr. College of Engineering*

GRADUATION HONORS

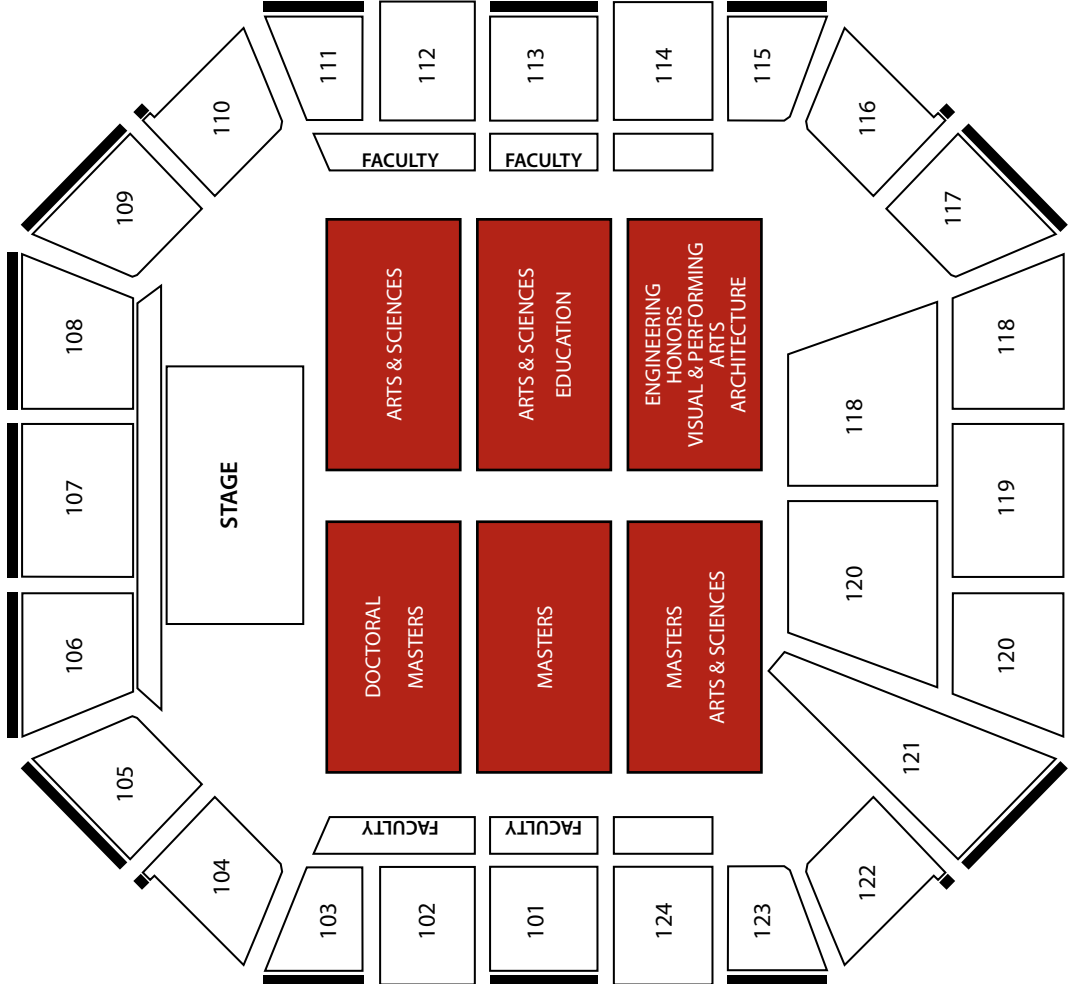
Graduating seniors who have maintained an overall 4.0 GPA include the following:

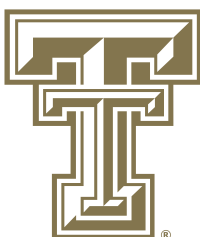
Sara Beer
Brittany Brewer
Catherine Condit
Nannette Colon Diaz
Keith Morgan Fewell
Joseph Michael Hartman
Sahara Johnson
Merit Westfall Marshall
Vy Hong Thao Nguyen
Shashidhar Sastry
Shelby Marie Skomer
Viren Jitendra Vasandani
Dustin Michael Ward
John Kabl Wilkerson
Matthew Ryan Winterholler

SATURDAY, AUGUST 10, 9:00 a.m.



SATURDAY, AUGUST 10, 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
H. C. MARSHALL
STUDENT 1930
TEXAS TECH COLLEGE

MATADORS

MUSIC BY
HARRY LEMARQUE
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