TEXAS TECH UNIVERSITY

SUMMER 2019

Commencement

Saturday, August 10, 2019
UNITED SUPERMARKETS ARENA
LUBBOCK, TEXAS

9:00 a.m. and 1:30 p.m.
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

MARK SHERIDAN, Ph.D.
Vice Provost for Graduate and Postdoctoral Affairs;
Dean, Graduate School;
Professor of Biology

JACK NOWLIN, Ph.D., J.D.
Dean, School of Law;
Professor of Law

WILLIAM F. BROWN, Ph.D.
Dean, College of Agricultural Sciences & Natural Resources;
Professor, Animal and Food Sciences

JIM WILLIAMSON, M.Arch.
Dean, College of Architecture;
Professor of Architecture

W. BRENT LINDQUIST, Ph.D.
Dean, College of Arts & Sciences;
Professor of Mathematics

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

JESSE PEREZ MENDEZ, Ph.D.
Dean and Professor,
College of Education

AL SACCO, JR., Ph.D.
Dean, Edward E. Whitacre, Jr. College of Engineering;
Professor of Chemical Engineering

MICHAEL SAN FRANCISCO, Ph.D.
Dean, Honors College;
Professor of Biology

TEXAS TECH UNIVERSITY SYSTEM
CHANCELLOR / BOARD OF REGENTS

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

MR. CHRISTOPHER M. HUCKABEE
Chairman
Fort Worth, Texas

MR. J. MICHAEL LEWIS
Vice Chairman
Dallas, Texas

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Detroit, Michigan

ACADEMIC OFFICERS

LAWRENCE E. SCHOVANEC, Ph.D.
President;
Professor of Mathematics and Statistics

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

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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.
Saturday, August 10, 2019
9:00 a.m.

Presiding
Dr. Lawrence Schovanec
President, Texas Tech University

Processional*
Texas Tech Commencement Band
Dr. Sarah McKoin, Conductor

National Anthem
Ms. Liz Davila
Graduating with a Bachelor of Arts in Music

Welcoming Remarks
Mr. Christopher M. Huckabee
Chairman, Board of Regents, Texas Tech University System

Introduction of Commencement Speaker
Dr. Lawrence Schovanec

Commencement Address
Chancellor Tedd L. Mitchell
TTUS Chancellor and President of TTU Health Sciences Center

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

Presentation of Doctoral and Master's Degree Candidates
Dr. Kristi Gaines
Associate Dean, Graduate School

Presentation of Bachelor's Degree Candidates
Dr. Cindy Akers
Associate Dean, College of Agricultural Sciences & Natural Resources
Dr. Dennis Arnett
Associate Dean, Rawls College of Business
Dr. Kelli Cargile Cook
Professor and Chair, College of Media & Communication
Dr. Tim Dodd
Interim Dean, College of Human Sciences
Dr. Patrick Hughes
(presenting University Studies and Wind Energy degrees)
Vice Provost, University Programs and Student Success

Recognition of Outstanding Students
Class of 2019
Dr. Michael Galyean

Charge to the Graduates
Dr. Lawrence Schovanec

Alma Mater
(Words on Back Cover)

Recessional*
Texas Tech Commencement Band

* Please remain seated during the Processional and Recessional
Saturday, August 10, 2019
1:30 p.m.

Presiding

Dr. Lawrence Schovanec
President, Texas Tech University

Processional*

Texas Tech Commencement Band
Dr. Sarah McKoin, Conductor

National Anthem

Ms. Liz Davila
Graduating with a Bachelor of Arts in Music

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Presentation of Doctoral and Master’s Degree Candidates

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Associate Dean, Graduate School

Presentation of Bachelor’s Degree Candidates

Dr. Brent Lindquist
Dean, College of Arts & Sciences
Dr. Jesse Perez Mendez
Dean, College of Education
Dr. Al Sacco, Jr.
Dean, Whitacre Jr. College of Engineering
Dr. Michael San Francisco
Dean, Honors College
Dr. Brian Steele
Associate Dean, Talkington College of Visual & Performing Arts
Prof. Jim Williamson
Dean, College of Architecture

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
Graduating with a Bachelor of Music

Recessional*

Texas Tech Commencement Band

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

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

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**DOCTOR OF EDUCATION**

**AGRICULTURAL EDUCATION**

Kalyn Dawn Baldock  
**Dissertation:** Agricultural Educators’ Adoption of Inquiry-based Learning: The Effects and Beliefs about Education, Self, and Context  
**Major Professor:** Theresa Murphy (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 Bar-soon 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 Aborisdade  
**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

**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

**BUSINESS ADMINISTRATION**

Raphael Mwiti Gikunda  
**Dissertation:** Spatial Analysis of Perceived Sustainable Organic Agricultural Practices among Farmers in Central Kenya  
**Major Professor:** David Lawyer

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 Batra-chochytrium dendrobatidis  
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**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

CHEMISTRY

Anthony Truong An Bui
*Dissertation:* Structure and Function Studies of B. cereus Metallo-β-lactamase 5/8/6 and Synaptotagmin I C2 Domain AD3 Mutants  
*Major Professor:* Joachim Weber

Songyue Shi
*Major Professor:* Gerardo Gomez

CIVIL ENGINEERING

Dimitrios Athanasiou
*Dissertation:* Effects of Polycyclic Aromatic Hydrocarbons in Urban Stormwater on Receiving Sediment  
*Major Professor:* Danny Reible

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 Support  
*Major Professor:* Catherine Epkins

Angela Kay Stevens
*Dissertation:* Psychometric Validation of the Momentary Impulsiveness Scale Among a High-Risk Sample of Emerging Adults  
*Major Professor:* Andrew Littlefield

COMPUTER SCIENCE

Byungkwang 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

Alexander 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
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
Major Professor: Jeong-Hee Kim

Laurie Hunter
Dissertation: Female Rural School Principals’ Leadership Qualities and the Impact on Student Achievement
Major Professor: Shirley Matteson

Elizabeth Ann Kirman
Dissertation: Grit, Interest, Effort and Achievement in Mathematics and Science of Eighth-grade Students in Economically Developed and Developing Countries
Major Professor: Walter S. Smith

Mariam Afzal Manuel
Dissertation: Examining Teacher Beliefs and Agency upon Implementation of Culturally Responsive Pedagogy and the Engineering Design Process
Major Professor: Jessica Gottlieb

Nanette Montes
Dissertation: An Analysis of the Performance of Secondary Students Identified with Learning Disabilities on STAAR EOC Accommodated and STAAR EOC Modified Assessments
Major Professors: Robin Lock and Mellinee Lesley

Kimberly Beth Myers
Dissertation: Changes in Advanced Educators’ Conceptualization of and Concerns about Global Education as a Result of Participation in Formal Professional Development
Major Professor: Walter S. Smith

John Ramos
Dissertation: Spirituality in the Public Domain: Rethinking Educational Leadership through the Lives of Public School Administrators
Major Professor: Jeong-Hee Kim

Lisa Elaine Smith Ramzinski
Dissertation: Texas Miracle on Whose Account?: An Oral History of Texas Retired Veteran Texas Teachers on Accountability
Major Professor: Jeong-Hee Kim

ECONOMICS

William Edward Jergins
Dissertation: Gender, Marijuana, and Applied Macroeconomics: Essays on Culture and Policy
Major Professor: Kaj Gittings

EDUCATIONAL PSYCHOLOGY

Casey Michael Williams
Dissertation: Analysis of Factors Related to Science Teachers’ Perceptions about Climate Change: Implications for Educators
Major Professor: Hansel Burley

ELECTRICAL ENGINEERING

Boker Othman B Agili
Dissertation: Design and Model: Intelligent Solid-State Current Limiter to Prevent Sym pathetic Tripping Problem on Power and Energy Applications
Major Professor: Stephen Bayne

Ricardo Cesar Castillo Solis
Dissertation: Dynamic Wind Turbine Wake Trajectory Control: Strategies and Real-time Validation
Major Professor: Stephen Bayne

Landon B. Collier
Dissertation: Magnetic Field Diffusion Phenomena in Pulsed Power Applications
Major Professor: Andreas Neuber

Yiran Li
Dissertation: Radar Sensors for Smart Human Activity Detection and Monitoring
Major Professor: Changhe Li

Subrina Sultana Noureen
Dissertation: Observability, Anomaly Detection and Energy Demand Forecasting for Smart Grid Analysis
Major Professor: Stephen Bayne

Raziur Rahman
Major Professor: Ranadip Pal

Luehao Zhao
Dissertation: Wind Power Data Analytics - Simulation, Prediction and Statistics
Major Professor: Miao He

ENGLISH

Alex Michelle MacNicol-Milmine
Dissertation: The Intersectional Anxiety of Individual Piety, Communal Salvation, and Apocalypticism in Millennial Anglo-Saxon England
Major Professor: Brian McFadden

Luke Avery Morgan
Dissertation: Living in the End: Apocalypse and Environmental Imagination in the Contemporary American West
Major Professor: Sara Spurgeon

ENVIRONMENTAL TOXICOLOGY

Naveen Kumar
Dissertation: Comparison Between Traditional and Experimental Aquatic Toxicology
Major Professor: Jordan Crago

FINE ARTS

Patrick Michael Antinone
Dissertation: Music in the Mind’s Ear: The Effect of Varied Conditions on Audiation Accuracy
Major Professor: Janice Killian

Katherine Elizabeth DeVet
Major Professor: Peter Fischer

Shawnna Marie Laity
Dissertation: A Comparative Analysis of Verbalizations used by Rural Band Directors While Teaching Middle School and High School Ensembles
Major Professor: Jacqueline Henninger
Katharine Denise Scherff  
*Dissertation:* The Virtual Liturgy: An Examination of Medieval and Early Modern Ritual Objects as Media Technology  
*Major Professor:* Janis Elliott

**GEOSCIENCE**

Aaron Jacob Hill  
*Dissertation:* Demonstration of Ensemble Sensitivity-based Targeted Observing for Convective-scale Applications: Perfect-model Experiments  
*Major Professor:* Christopher Weiss

**HIGHER EDUCATION RESEARCH**

Sarah Lynn Schwintz  
*Dissertation:* The Correlation between Financial Support and College Student Attrition: A Quantitative Study  
*Major Professor:* Jon McNaughtan

**HISTORY**

Stephen William Eldridge  
*Dissertation:* “Let then this primitive practice be restored to its purity”: The Polemics of Primitive Christianity and the Preservation of Sacramental Boundaries in Puritan New England from the Antinomian Controversy to the Protestant Interest  
*Major Professor:* Mark Stoll

**HOSPITALITY ADMINISTRATION**

Jae Han Min  
*Dissertation:* The Impact of College Football Tourists’ Personality and Motivation on their Destination and Team Loyalty  
*Major Professors:* Deborah Foster and Hyo Jung Chang

**HUMAN DEVELOPMENT AND FAMILY STUDIES**

Kareem Ihsan Al-Khalil  
*Dissertation:* Differences in Brain Activation and Connectivity between College Students with High and Average Mathematical Abilities  
*Major Professor:* Michael O’Boyle

**INDUSTRIAL ENGINEERING**

Yingbin Hu  
*Dissertation:* Laser Deposition-additive Manufacturing of Ceramics and Ceramic Reinforced Composites  
*Major Professor:* Weilong Cong

Zhichao Liu  
*Major Professor:* Hong-Chao Zhang

**INTERIOR ENVIRONMENTAL DESIGN**

Ibtihaj Saad R Alsadun  
*Dissertation:* An Exploration of Study Spaces among Chinese and Indian Graduate Students  
*Major Professor:* Kristi Gaines

Alicia M. Fulton  
*Dissertation:* Obesity and Residence Hall Satisfaction among differing BMI Levels  
*Major Professor:* Kristi Gaines

Sahar Mihandoust  
*Dissertation:* Exploring the Relationship Between Access to Nature Views and Nurse Burnout  
*Major Professor:* Debajyoti Pati

Andrea Roye Wade  
*Dissertation:* Sit-Stand Unit Use for Employee Health in Higher Education Environments  
*Major Professor:* Kristi Gaines

**MATHMATICS**

Anthony David Gruber  
*Dissertation:* Curvature Functionals and p-Willmore Energy  
*Major Professor:* Magdalena D. Toda

Md Nazmul Hassan  
*Dissertation:* Eco-toxicological Dynamics Subject to Stoichiometric Constraints  
*Major Professor:* Angela Peace

Alahendra Acharige Chamila Dilhani Perera  
*Dissertation:* Coherent Multi-task Feature Selection and Prediction from Pharmacogenomics Databases and the Linearly Decreasing Stress Weibull (LDSWeibull): A New Weibull-like Distribution  
*Major Professor:* Souparno Ghosh

Saikanth Ratnavale  
*Dissertation:* Boundary Optimal Control Problems with Inequality Constraints  
*Major Professor:* Giorgio Bornia

**MECHANICAL ENGINEERING**

Jiguo Dai  
*Dissertation:* Robust Control of Uncertain Nonlinear Systems  
*Major Professor:* Beibei Ren

Jaeho Lee  
*Dissertation:* Friction and Wear Mechanisms of Metal Surfaces with Ionic Liquids as Lubricant  
*Major Professor:* Changdong Ye

Chandra Sekhar Meduri  
*Dissertation:* Size-effects in Deformation Behavior of Metallic Glasses  
*Major Professor:* Jerzy Blawdziewicz

Md Enayet Ullah Khan Razu  
*Dissertation:* Differentially Polarized Interface (DPI) Digital Microfluidics (DMF) Platform for Biomedical Applications  
*Major Professor:* Jungkyu Kim

Xuechuan Wang  
*Dissertation:* Optimized Picard Iteration Methods for Nonlinear Dynamical Systems with Non-smooth Nonlinearities, and Orbital Mechanics  
*Major Professor:* Satya N. Atluri

**MEDIA AND COMMUNICATION**

Rebecca Lin Densley  
*Major Professor:* Eric Rasmussen

Derrick W. Holland  
*Dissertation:* Water as a Social Resource: An International Examination of Water Conservation Behaviors under the Umbrella of the Integrated Model of Behavioral Prediction  
*Major Professor:* Coy Bolls

**MUSIC EDUCATION**

Suttirak Iadpum  
*Dissertation:* An Examination of Factors that Influence Students’ Decisions to Continue to Participate in High School Orchestra  
*Major Professor:* Janice Killian

Shauna Satrom Pickens  
*Dissertation:* Preservice and Inservice Music Teachers’ Perceptions of Teaching in Low-SES, Urban Middle School Band Programs  
*Major Professor:* Keith Dye

**NUTRITIONAL SCIENCES**

Chathurika Samudani Dhanesekara  
*Dissertation:* Determining Dietary Patterns Accompanying Egg Intake and its Impact on Glucose Homeostasis and Satiety Hormones  
*Major Professor:* Nikhil V. Dhurandhar

William Russel Quarles  
*Dissertation:* Food-cue Reactivity in Individuals with Obesity: Behavioral Appeal, Reaction Times, and Neurobiological Specificity Toward Food-cues  
*Major Professor:* Martin Binks

Yaqiong Zhu  
*Dissertation:* Comparing the Effect of Protein Quality on Satiety and Energy Intake between Egg and Cereal Breakfast, Following a Reduced Calorie Diet  
*Major Professor:* Nikhil V. Dhurandhar
PERSONAL FINANCIAL PLANNING
Davaajargal Dorjsuren
Dissertation: Three Essays on the Impact of Tax Incentives and Determinants of Charitable Giving
Major Professor: Russell James III

PK Joseph
Dissertation: Early Financial Literacy
Major Professor: Charlene Kalenkoski

Hossein Salehi
Dissertation: Three Essays on Insurance Planning for Older Americans
Major Professor: Charlene Kalenkoski

Xianwu Zhang
Dissertation: Three Essays on Household Portfolio Choice
Major Professor: Charlene Kalenkoski

PETROLEUM ENGINEERING
Aymen Alwan Shawqi Al-Ameri
Dissertation: Optimizing of Hydraulic Fracturing Design in Unconventional Gas Reservoirs to Mitigate the Fracture and Formation Damages Caused by Conventional Frac Fluids
Major Professor: Talal Gamadi

Khalid Ali Elwegaa
Dissertation: Investigation of Effects of Thermal Shock Technique on Shale Oil Rock Properties and its Application to Increase Oil Recovery from Unconventional Reservoirs in Conjunction with Cyclic Gas Injection
Major Professor: Hossein Emadi

Arya Shahdi
Dissertation: Software and Modeling Development for Wax Deposition Phenomenon
Major Professor: Ekarit Pancharoensawad

PHYSICS
Keller Reese Andrews
Dissertation: Growth, Characterization, and Applications of Vanadium Dioxide Thin Films
Major Professor: Luis Grave de Peralta

PLANT AND SOIL SCIENCE
Amal Bouyanif
Dissertation: Effects of Fatty Acid Supplementation on Gene Expression, Lifespan, and Biochemical Changes in Wild Type and Mutant C. elegans Strains
Major Professor: Eric F. Hequet

Ai Kitazumi
Dissertation: Genomic and Epigenomic Basis of Transgressive Segregation in Rice
Major Professor: Benildo de los Reyes

SPANISH
Mónica Fernández Dos Santos Martins
Dissertation: La Alegoría del Incesto en La madre natural de Emilia Pardo Bazán y Os Maias de José Eça de Queirós
Major Professor: Carmen Pereira-Muro

SYSTEMS AND ENGINEERING MANAGEMENT
Cherise M. Burton
Dissertation: Generational Communication Preferences and their Effects on the Sending and Receiving of Information in Teams
Major Professor: Jennifer Cross

TECHNICAL COMMUNICATION AND RHETORIC
Nancy Lynne Barber-Chase
Dissertation: Classroom to Boardroom: How a Master Teacher Employs UCD/UX Methods to Write Workplace Knowledge
Major Professor: Brian Still

Erica EllingSon Baumle
Dissertation: Users Solving Problems: User Generated Content as Technical Communication in Complex Systems of Online Game Community Support Sites
Major Professor: Brian Still

Nguyen Minh Duc
Dissertation: Synthesizing Major Views of Argument: From Metaphor to Model
Major Professor: Kenneth Baake

Kylie Mae Jacobsen
Major Professor: Rachel Wolford

Abigail T. Koenig
Dissertation: Algorithmic Literacy: Developing a Heuristic of Algorithmic Literacy in the Technical Communication Classroom and Beyond
Major Professor: Michael Faris

Michael J. Mccarthy
Dissertation: Scientific Metaphors and the Space Between: Metaphoric Coherence and Incoherence in NASA’s Education and Public Outreach
Major Professor: Kenneth Baake

Laura Marilyn Patterson
Dissertation: Service Learning and Empathy in Technical Communication Courses within Engineering Education: A Case Study to improve the ‘Culture of Disengagement’ of Engineering Students
Major Professor: Greg Wilson

Michael R. Trice
Dissertation: LocalWiki: A Review of Genre Ecology Instability across Classes of Participants
Major Professor: Brian Still

WILDLIFE SCIENCE, AQUATIC AND WILDLANDS SCIENCE AND MANAGEMENT
Rebecca Nia Perkins
Dissertation: Impacts of Transmitted Weight and Attachment on Raptor Agility and Survival
Major Professor: Clint Boal

Sean Raymond Yancey
Dissertation: Translocation of Northern Bobwhite andScaled Quail from South Texas to the Rolling Plains of Texas
Major Professor: Charles B. Dabbert

WIND SCIENCE AND ENGINEERING
Ye Qin Wang
Dissertation: Control of Power Electronic Converters for Microgrids
Major Professor: Belbei Ren

Liang Wu
Dissertation: Benchmark Study of Tornado Wind Loading on Low-rise Buildings with Consideration of Internal Pressure
Major Professor: Delong Zuo

MASTER OF AGribusiness
Kloe Bess Burriss
Jennifer Rose Crowl
Kenna Mae Faulkenberry
William Ben Morales
Myranda Renae Villanueva

MASTER OF ARCHITECTURE
Rebecca Ann Barnes
Thomas James Castro
Jeffrey Allen Rebarchik
John Paul Shank, Jr.

MASTER OF ANTHROPOLOGY
Joshua David de Santos
Rebecca Schultz
Thesis: Excavation and Exploration of Grave Recovery Methods at Belknap Civilian Cemetery in Young County, Texas

COMMUNICATION STUDIES
Robin Scout Duffee
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
COUNSELING PSYCHOLOGY
Jacob Joseph Daheim
Faith A. Scanlon

ENGLISH
Tanya Cere Cerovski

EXPERIMENTAL PSYCHOLOGY
Tran Huyen Le
*Thesis: It's Not You, It's Me: The Role of Narcissism, Self-Discrepancy, and Mitigating Information on Aggression*

HERITAGE AND MUSEUM SCIENCE
Amanda Rose Boston
Sara Cathryn Breshears
Du Chen
Elise Virginia Dukart
James Henry Ferguson
Kimberly Nicole Hawke
Katherine Avilla Holt
Danielle Marie Marshall
Alyssa Carter Stewart
Mykel Elyse Wade
Emily Jean Williams
Hina Maqsood Zaidi

HISTORY
Caleb R. Bielby
Kimberly Christine Calvert
*Thesis: On the Cusp: The Origins of Scottish Jacobitism and the Anglo-Scottish Union of 1707*
Kevin L. Carlile
Chi Linh Ha
*Thesis: Vietnamese Popular Music During the Vietnam War*
Juan De Dios Vela III
*Thesis: Fractures: Political Identity in the Fall of the Roman Republic*

INTERDISCIPLINARY STUDIES
Zachary Austin
Amber Nichol Blocker
Kelsey Elizabeth Kern
Clare Marie Powers
Vitaliy Skorodizyevskiy

LANGUAGES AND CULTURES
Jared Alexander Gaum
*Thesis: Euergetism and Augustan Spectacular Space*
Haiying Huang
Jacquelinia Michelle White

MASS COMMUNICATIONS
Christopher Luis Aguilar
*Thesis: Emergent Behavior in PlayerUnknown’s Battlegrounds*
Stephanie Ann Jordan Bettiol
Hannah Jane Curnutt
John Anthony Ferrante
McKenna Ann Garrison
Lucinda L. Holt Mendez
*Thesis: Deadly Lede: Framing and Attacks on the Mexican press*
Avonte Daquan Kiper
*Thesis: Uh-Oh! I Think I’ve Fallen in Love with... My Favorite Brand?*
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*
Shannon Evelyn Rawdon
Kayla Nicole Ritzen
Aditya Sahasrabudhe
Donald Wayne Shelton III
Michelle Ariel Vega

MATHEMATICS
Victoria Adeline Renfroe

PHILOSOPHY
Boning Yu
*Thesis: A Defense of Expected Utility Theory*

POLITICAL SCIENCE
Sydney Elaine Laws
*Thesis: When Life Imitates Art: Political Messages in Modern Cinema*

PSYCHOLOGY
Zohal Heidari
*Thesis: Childhood Obesity Prevention Programs for Young Children: A Meta-Analysis*

ROMANCE LANGUAGES
Megan Elizabeth Yandell

STRATEGIC COMMUNICATION AND INNOVATION
Aubreem Anna Auletta
Shalon Rae Bridges
Shannan Michelle Finke
Moriah Alexa Gonzales
Ruby D. Grace
Courtney Elizabeth Grigsby
Kaitlyn Michelle Keller
Kelli Landry Love
Benjamin Jennings Miller
Marissa Ane Moore
Sneha Patel
Lindsey Erin Sepich
Esteban Roberto Sosa

MASTER OF BUSINESS ADMINISTRATION
Cheryl Lynn Stanton
Jasmine Sierra Velez
Shelby Lauren Wofford

GENERAL BUSINESS
Abigail Lauren Adams
Joshua Burks Alford
Destiny Nkeonye Anamege
Rohan Anand
Diana Aranda
Jessica R. Arroyo
Jason Roe Baen
John Verne Bailey
Jarod Barak Barnum
David W. Beames
Zachary Tucker Beebe
Patrick Joseph Bettiol
Jody Lee Blackshear
Bryant Wheatley Boyer
Lochlin Shaun Bramlett
Curtis Elbert Brown
James Marion Bunch II
Savannah Grace Buttler
Alyssa Raye Carrasco
Taylor Renae Cass
Victoria M. Chu
Brittani Brooke Culver
Jiexin Dai
Giulio Ulmini Valle Danino
Joshua Craig DeWees
Anne Audrey Djejdje
Jazirae Duncan
William Wade Estes
Callie Leigh Fort
Caroline Freedle
Nathania Kristabel Patrice Gayle
Anastazia Hope Gilman
Tyler John Graham
David Paul Grayson
Jeffrey Carter Hatton, Sr.
Shaun Alan Hendrick
Kristina Joy Hopkins
Emily Kathryn Johnson
Chase C. Johnson
Kelly Diane Jonas
Cameron Richard Jones
Zunaira C. Khalid
Caleb Leland Lacey
Jace Randal Langen
Christopher Patrick Latour
Mary Leslie Linker
Cory Douglas Listner
Neil Maithel
Nicolas Mamia
Camila Sophia Mancia
Landon Miles McLellan
Lexi Suzanne Neighbors
Fatou Binton Madina Niang
Makenzie Allison Ocker
Quenton Case Persinger
Brian Logan Pollard
Jasmin Rahesh
Britney N. Ramirez
Heath Stephen Ramsey
Debra Rose Rodriguez
Matthew Aaron Sablan
Randall Gage Saenz
Ali Samadian
Mark Sheppard
Jessica Solis
Dillon James Spradley
Kasey Leigh Brown
Julianne Robinson Jones
Alexandrya Nicole Leeds

**MASTER OF EDUCATION**

**COUNSELOR EDUCATION**

Henry Chukwuma Duru

**CURRICULUM AND INSTRUCTION**

Saja Yousef Alnaser

*Thesis*: Effective Strategies for Teaching English as a Foreign Language to Elementary Students in Jordan

Desiree Rachelle Beare
Kasey Leigh Brown
Julianne Robinson Jones
Jacqueline Louise Lauriat
Alexandrya Nicole Leeds

**EDUCATIONAL LEADERSHIP**

Abigail Quares Adam
Mary Cathlene Barnhill
April Renee Bauccum
Kristen Michelle Brown
Rajean Rachelle Butler
Haley Chance
Amanda Lynn Foster
Marcus Gilbert
Krystal Denise Jones
Metric Deon Manning
Kyle Noda
Ariel Sunarest Otto
Daniela Susana Torres
LaToya Thompson Turner
Mauricio Antonio Valdovinos
Latonya Wilson-Cruz

**HIGHER EDUCATION ADMINISTRATION**

Lupita Lynn Bunch
Dianca Peters Chase
Nathaniel Eugene Colon
Jennifer Leigh Ertlschweiger
Ashlee Guerra-Garza
Mario Enrique Hernandez
Preciosa Lee Johnson
Jeffrey Charles Martin-Moreno
Caitlin Elan Palma Hagler
Tanisha Ellen Sam
Eric Terrill Watson
Lawana Faye Woodlock
Sabika Zahra

**INSTRUCTIONAL TECHNOLOGY**

Lisa Claudette Valera

**SPECIAL EDUCATION**

Elisa Marie Aguilar-Cedeno
Trevor James Anderson
Christian April Blackwell
Katelyn Elizabeth Boyles
Maria Paula Castro
Gressia Monique Chong
Jessica Ann Clampitt
Anna M. Davis
Ruby Ann Diaz
Talya L. Ervin
Wendy L. Grant
Gina Marie Diane Greenwood
Lorraine Andrea Harriott-Jones
Sanjuana Hernandez
Guadalupe Estela Herrera
Carlene Suzanne Jackson
Michelle Denise Jones

*Thesis*: Interplay Between Cultural Expectations and Pedagogy in the Lives of Women with Visual Impairments in India—Ethnographic Case Studies at an Indian School for the Blind

Nellie Anne Linn
Mayra G. Lozano
Monique Marie Lyton
Kasee De’ Lynn Martinez
Susan Louise McCoy
Ileana Melendez
Monique Mota
Ranell Deanne Parker
Isabel Araceli Rodriguez
Rebekah L. Russo
Erin Kahtin Shadwick
Tessia Louann Smith
Orelene Zermeno Stroud
Jordann Lin Tate
Kayla Paige Villigan
Kimberly Dawn Ware
Alexus Kristine Wilson

**MASTER OF LANDSCAPE ARCHITECTURE**

Tyson Eli Watson

*Thesis*: Llano Estacado: Landscape Design Alternatives for Precipitation Management

**MASTER OF MUSIC**

Cynthia Ann Curry

*Thesis*: Let Me Hear You Testify: Women, Cultural Power, and Music in West Texas

Casey Keenan Joiner

*Thesis*: A Well-Organized Mind: Death and Mortality-Related Symbolism in Select Musical Theater Literature and the Composition of a New Original Song Cycle

Matthew Aaron Wimberly

**MASTER OF MUSIC EDUCATION**

Erin Brooke DeLavan
Hussien Rashidi Masimbi
Wesley Neil Orr
William Brian Scherrff, Jr.
Macie Patricia Steele

**MASTER OF PUBLIC ADMINISTRATION**

Caitlyn Elizabeth English
William Fredrick Gerber, Jr.
Desiree Esosa Ojo
Nathan C. Villapando

**MASTER OF SCIENCE**

**AGRICULTURAL AND APPLIED ECONOMICS**

Christy Marie Petry
Ethan Michael Sabala


**AGRICULTURAL COMMUNICATIONS**

Teresa Michelle Bufkin

*Thesis*: The Shift in Consumer Perceptions Before and After Extension-Led Beef Cattle Farm Tours

Caitlin Rose Cole
Leah Sheree Curren
Adrian Lynn Smith

*Thesis*: An Examination of Student Perceptions Toward University Recruitment Photographs

**AGRICULTURAL EDUCATION**

Rafael Quijada Antonio Landaverde

Andrea Dawn Nordman
Laci Christine Vogel

ANIMAL SCIENCE
Osigbemeh Ebitimi Musa
Austin James Adams
Thesis: Effects of Synovex® C and H Growth Implants Administered to Beef Heifers Post-Weaning on Subsequent Ovarian Activity and Fertility During Their Virgin Breeding Season
Erin Shaun Beyer
Kandis Renee Cazenave
Thesis: Equine-Assisted Activities and Therapies for Military Veterans: Results from an Exploratory Survey and Pilot Intervention Study
Carly Ann Hoffmann
Thesis: Evaluation of Steam-flaked Corn Bulk Density Manipulation During Grain Adaptation of Beef Steers and the Use of X-Ray Fluorescence Spectrometry Technique to Measure Apparent Total Tract Digestibility
Sean James Morrow
Thesis: The Effects of Enhancement Strategies of Beef Flanks on Composition and Sensory Characteristics
Nicholas Wayne Shellenberger
Thesis: Investigations into Antioxidant Effects of Rutin Supplementation on Neonatal Holstein Calves and Broilers
Stephanie Marie Ledesma
Thesis: Effect of Direct-fed Microbial Supplementation on Dietary Nutrient Digestibility and Fecal Characteristics of Dogs

ATMOSPHERIC SCIENCE
Christian Hunter Boyer
Thesis: The Dynamical Origin of Near-Surface Vertical Vorticity Within Supercellular and Linear Storm Modes
Austin Alyse Coleman
Thesis: Convective-scale Ensemble Subsetting with Ensemble Sensitivity Analysis
Tyler Jay Wixtrom
Thesis: Precipitation Forecasting with Adaptive Parameterization Selection

BIOLOGY
Oscar Sandate
Thesis: Determinants of Digestive Efficiency During Reproduction in a Highly Vagile Colonial Bat

BIOTECHNOLOGY
Kenia L. Ascencio Martinez

BUSINESS ADMINISTRATION
Byron C. Orajato

CHEMISTRY
Kayla Nicole Anderson
Thesis: Elucidation of Novel N-methyltransferases in Tropane and Granatane Alkaloid Biosynthesis
Kyle Mark Gloczkin
Thesis: The Influence of Hairy Root Cultures on the Biosynthesis of Granatane Alkaloids in Punica Granatum (Pomegranate)

COMPUTER SCIENCE
Rishika Reddy Akavaram
Jie Li
Thesis: PIMS: A Lightweight Processing-in-Memory Accelerator for Stencil Computations
Varsha Nair
Thesis: Improving Objects Recognition Through Fast Fourier Transformation in Neural Network
Emre Unal

COUPLE, MARRIAGE, AND FAMILY THERAPY
Peter Joel Beckman
Sarah Elizabeth Behrens
Claire Elizabeth Egleston
Benjamin Taylor Finlayson
Katrina M. Flores
Caroline Elise Gimarc
Thesis: The Relationship Between Attachment Style, Perceived Partner Support, and Anxiety for Individuals in Committed Relationships
Chloe Christine Goad
Taralyn Summer Ray Hemphill
Kaily Marie Moore
Emily Erin Morris
Abby Leigh Rhynehart
Justin Sterling Romney
Shelby Len Sewell
Hailey Nicole Snyder

DATA SCIENCE
Srinivas Madhu Kumar Atyam
Susan Aveytia
Kristopher J. Baine
William Joseph Binz
Rachel Alexandra Bryant
Jaimie Capps
Alexandria Camille Cathey
Dheena Chinnasamy
Travis Lynn Clark
Travis James Cole
Obiageri Chinonso Ebere
Nikitas Thomas Gogos
Marcin Andrzej Grzechowiak
Fabian Guzman-Carmona
Miranda Rae Hocutt
Jiang Hu

ENVIRONMENTAL TOXICOLOGY
Cassandra Denee Schmitt
Thesis: Exploration into the Developmental Toxicity of Organophosphate Insecticides in Zebrafish (Danio Rerio)

FAMILY AND CONSUMER SCIENCE
Rachel Lynn Archambault

FINANCE
Heath Stephen Ramsey

FOOD SCIENCE
Samuel Sumner Peabody IV
Thesis: Antimicrobial Intervention Efficacy and the Survivability of Listeria Monocytogenes on Ready-to-Eat Meat Products

GEOGRAPHY
Cole James Edwards
Thesis: Spatiotemporal Analysis of Irrigated Agriculture and Groundwater Depletion in Four Counties of West Texas

GEOSCIENCE
Dillon John Bagnall

Jada Renee Jackson
Brooke Camille Johnson
Arash Kamari
Tushar Venkat Karedla
Alec Klessig
Bingkun Ma
Parul Mogra
Kameron James Moore
Chandler Raymond Morris
Saranya Murugan
Nguyen Hoang Nguyen
Mike Cedric Owona Ongbwa
Damilola T. Oyetunji
Nisha Harinamsingh Pardeshi
Mikaela Pisani Leal
Arjuna Menon Puzhankarai
Cristian James Requenez
Jereamy B. Riggs
Mychael Anthony Solis-Wheeler
Kavya Srinivasan
Caswell Benton Taylor
Celina Suarez Turner
Rogelio Filimon Valdez III
Jered Willoughby

Chase Houston Yandell
Christina Zavala
Kimberlee Anne French  
Saheed OlaShile Obitayo  
*Thesis*: Sedimentological and Geochemical Study of the Late Pennsylvanian Cyclothems in the Anadarko Basin

**HOSPITALITY AND RETAIL MANAGEMENT**  
Allison Anne White  
Kendyl Elizabeth Wright

**HUMAN DEVELOPMENT AND FAMILY STUDIES**  
Jade Mikosha Harris

**INTERDISCIPLINARY STUDIES**  
Jess Edward Schwintz

**KINESIOLOGY**  
Ezekiel Nino

**NUTRITION AND DIETETICS**  
Kathryn Willis Callahan

**PERSONAL FINANCIAL PLANNING**  
Caleb Gold  
Hossein Salehi

**PLANT AND SOIL SCIENCE**  
Travis John Culpepper  
*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 Wadasawasal Jalathge  
*Thesis*: Mapping and Characterization of Sorghum Bicolor Thick Leaved Mutant

Zhe Lin  
*Thesis*: Unmanned Aerial Systems and Crop Modeling for Irrigation Scheduling in the Southern High Plains

Bryan Jacob Nemire  
Atinderpal Singh  

Joshua James Singleton  
*Thesis*: Role of Genetic Diversity in the Adaptive Success of Silverleaf Nightshade (*Solanum Elaeagnifolium*) Under Variable Environmental Pressures

Lindsay Dail Williams  
*Thesis*: Interaction Studies of Photoperiodic Flowering Time Regulator FKF1 and Characterization of UCH-L1

Shelby Marie Young  
*Thesis*: Quantifying *Verticillium Dahliae* in the Soil Profile Using Two Methods in USA and Australian Cotton Soil

**SPORT MANAGEMENT**  
Becca Busse Bornhorst

**STATISTICS**  
Huy Phuoc Pham

**ZOOLOGY**  
Taylor Justice Soniat  
*Thesis*: Assessing Levels of DNA Degradation in Frozen Tissues Archived Under Various Preservation Conditions in a Natural History Collection

**MASTER OF SCIENCE IN ACCOUNTING**  
Edward Joseph Alwais  
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Jamie Kiyomi Slack  
Scott Michael Stevelman  
Eric C. Summerlin  
Raquel Annette Vara  
Collin KC Vu

**MASTER OF SCIENCE IN CHEMICAL ENGINEERING**  
Khurshida Afroz  
*Thesis*: Experimental and DFT study on Elective Oxidation of 5-Hydroxymethyl Furfural Over Cadmium Sulfide Catalyst

Masoud Norouzi Darabad  
Yerbol Dauletov  
Leila Lesanpezeshki  
Dinesh Sundaravadivelu Devarajan

**MASTER OF SCIENCE IN CIVIL ENGINEERING**  
Pratyasha Patnaik  
*Thesis*: Assessment of Pre-Engineered Metal Building Damage in Hurricane Winds

**MASTER OF SCIENCE IN ELECTRICAL ENGINEERING**  
Shravani Byreddy  
Kasun Uthpala Chandraratna Withanage  

Ayush Dhananjay Modani  
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**MASTER OF SCIENCE IN SOFTWARE ENGINEERING**  
Kelsey Elizabeth Hilton  
*Thesis*: Automatic Metaphor Identification in Cybersecurity Texts

**MASTER OF SCIENCE IN SYSTEMS AND ENGINEERING MANAGEMENT**  
Samuel A. Blasé

**MASTER OF SOCIAL WORK**  
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Blakely Layne Meyer  
Kristian Ellen Moyer
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Graduation with Honors is a distinction that is noted on diplomas and transcripts and receives special recognition at graduation ceremonies. Undergraduates who complete their work with a cumulative grade point average of 3.9 or above are graduated Summa Cum Laude; 3.7 to 3.89, Magna Cum Laude; 3.5 to 3.69, Cum Laude. Those who graduate from the Honors College after acquiring 24 Honors credit hours graduate “with Honors.” Those who also complete an Honors thesis or project consisting of six additional hours graduate "with Highest Honors."
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2nd Degree: Biology  
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Raquel Annel Romero
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FINANCE
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2nd Major: Management
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2nd Major: Management

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Tori Daven Carrera1
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Mariana Rojo
Ana Estefani Roman Espinoza
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Brenda Marisol Ruiz
Nathalie Christine Sanchez
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2nd degree: History/Political Science

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APPAREL DESIGN AND MANUFACTURING

COMMUNITY, FAMILY, AND ADDICTION SCIENCES

HUMAN DEVELOPMENT AND FAMILY STUDIES

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

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

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

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

The J.T. & Margaret Talkington College of Visual & Performing Arts banner is black with a blue drape surmounted by a silver swathe that evokes the creative energy infused in all the arts. The top of the banner features the words “College of Visual & Performing Arts” in silver, linked by a dynamic red ampersand representing the merging of three departments into the college. Centered in the banner is the college’s original award-winning logo designed by the Price Group in 2002, the same year the college was founded. The logo is a circle divided into three sectors, each representing one of the three units of the college: a blue eye for the School of Art, a red lyre for the School of Music, and a golden spotlight for the School of Theatre and Dance. All three artistic icons are encased by a circular banner which reads: “Texas Tech University.” The shape of the banner was selected through a student competition, and the banner was made by personnel in the Costume Shop of the Department of Theatre and Dance.

The symbols on the Texas Tech University Libraries’ banner reinforce the idea that the Library is the center of knowledge on campus. As such, it is the guardian and giver of knowledge and information. The key in the foreground of the banner symbolizes the Libraries’ role as guardian and safe keeper of all ideas. In the not too distant past, knowledge was considered sacred or something that was best kept locked away, thus the symbolism of the key. The flames symbolize the Libraries’ other and equally important role as the giver of knowledge, providing access to wisdom. For centuries, the use of fire was believed to be man’s first step on the path to civilization; one characteristic of fire is its ability to spread, which represents the Library’s role as purveyor of knowledge. The colors of the flames symbolize the three broad branches of knowledge; scarlet for humanities, gold for sciences, and the purple flame for social sciences.
Wearing academic dress at commencement ceremonies dates from the early history of the oldest universities created during the twelfth and thirteenth centuries. Because educated people were almost always of the clergy, the black gown is an adaptation of the “cope,” a long mantle or cloak of silk or other cloth worn by church dignitaries in processions and on other occasions. The long gown and cowl (similar to the academic hood of today) were worn by priests and monks for warmth in the cold medieval buildings.

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

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

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

For example, those who have received advanced degrees from Texas Tech University wear hoods lined with red and black. The Oxford—the so-called mortarboard—is black and has a long tassel fastened to the center. The tassel is usually worn with the pendant over the left front of the cap. Different colored tassels are often worn on the bachelor’s and master’s caps to indicate the type of degree. The tassel on the cap of the doctoral candidate, except for professional degrees, is either gold or black. The doctoral degree holders may also wear the velvet tam with a gold tassel.

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

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

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

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

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

HONOR CORDS / MEDALLION

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

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

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

TEXAS TECH COMMENCEMENT ANNOUNCEMENTS

GRADUATE PHOTOGRAPHS

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

COMMENCEMENT DVD

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

bolic 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 ................................................................. JAEB 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
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.