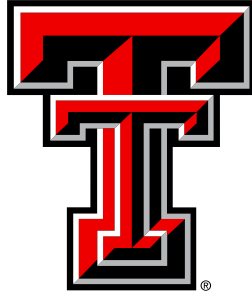


SUMMER 2017 COMMENCEMENT

August 12

Lubbock, Texas





TEXAS TECH UNIVERSITY®

**SUMMER 2017
COMMENCEMENT**

Saturday, August 12, 2017
UNITED SUPERMARKETS ARENA

9:00 a.m. and 1:30 p.m.
LUBBOCK, TEXAS

TABLE OF CONTENTS

Administration		3
About Texas Tech University		4
Undergraduate and Graduate Commencement Ceremonies		8
Commencement Speaker		10
Acknowledgements		11
<i>Convocations Committee</i>		
<i>Music Ensemble</i>		
<i>Program Production</i>		
<i>College Readers</i>		
<i>Administrative Representatives</i>		
<i>Student Banner Bearers for Ceremonies</i>		
<i>Faculty Banner Bearers for Ceremonies</i>		
<i>Library Banner Bearers for Ceremonies</i>		
Presidential Mace		12
Reception		12
Graduation Honors		12
List of Graduate Degree Candidates		13
List of Undergraduate Degree Candidates		22
College Banners		28
Academic Dress and Procession		30
Texas Tech Traditions		32
Seating Charts		33

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; Thornton Chair in Animal and Food Sciences*

NOEL SLOAN, J.D., CPA

*Vice President for Administration and Finance;
Chief Financial Officer*

GUY LONERAGAN, Ph.D.

*Interim Vice President for Research;
Professor of Animal and Food Sciences*

ELIZABETH SHARP, Ph.D.

*Interim Vice President for Diversity, Equity & Community
Engagement; Associate Chair and Associate Professor of
Human Development and Family Studies*

TEXAS TECH UNIVERSITY SYSTEM CHANCELLOR / BOARD OF REGENTS

ROBERT DUNCAN, J.D.

*Chancellor,
Texas Tech University System
Professor of Law*

MR. JOHN ESPARZA

Austin, Texas

MR. J. MICHAEL LEWIS

Dallas, Texas

MR. RONNIE HAMMONDS

Houston, Texas

MR. JOHN D. STEINMETZ

Dallas, Texas

MR. L. FREDERICK "RICK" FRANCIS

*Chairman
El Paso, Texas*

MR. CHRISTOPHER M. HUCKABEE

Fort Worth, Texas

MR. JOHN B. WALKER

Houston, Texas

MR. TIM LANCASTER

*Vice Chairman
Abilene, Texas*

MR. MICKEY L. LONG

Midland, Texas

MR. JARRETT LUJAN

Marfa, Texas

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*

LINDA C. HOOVER, Ph.D.

*Dean, College of Human Sciences;
Professor of Restaurant, Hotel and
Institutional 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

DAVID D. PERLMUTTER, Ph.D.

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

STEVE FRAZE, Ph.D.

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

SCOTT RIDLEY, Ph.D.

*Dean, College of Education;
Professor of Education*

AL SACCO, JR., Ph.D.

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

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*

MICHAEL SAN FRANCISCO, Ph.D.

*Dean, Honors College;
Professor of Biology*

BELLA KARR GERLICH, Ph.D.

Professor and Dean of Libraries

ABOUT TEXAS TECH UNIVERSITY

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

Today, Texas Tech continues to thrive, with more than 36,000 students enrolled in its 11 colleges: Agricultural Sciences & Natural Resources, Architecture, Arts & Sciences, Jerry S. Rawls College of Business, Education, Edward E. Whitacre Jr. College of Engineering, Honors College, Human Sciences, Media & Communication, J.T. & Margaret Talkington College of Visual & Performing Arts, and the Graduate School, as well as University Programs via the Provost's Office. The institution's goal is to enroll 40,000 students by 2020.

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







Photo credit: Ciara Perozzi, Student Media





Photo credit: Makenzie Harrison, Student Media



Photo credit: Lauren Pape, Student Media

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

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. Desiray Correa <i>Graduating with a Bachelor of Music</i>
Welcoming Remarks	Mr. Christopher M. Huckabee <i>Board of Regents, Texas Tech University System</i>
Chancellor's Remarks	Mr. Robert Duncan <i>Chancellor, Texas Tech University System</i>
Introduction of Commencement Speaker	Dr. Lawrence Schovanec
Commencement Address	Mr. Jeffrey Lastrapes <i>Associate Professor of Music, Texas Tech University</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. Mark A. Sheridan <i>Vice Provost for Graduate and Postdoctoral Affairs; Dean, Graduate School</i>
Presentation of Bachelor's Degree Candidates	Dr. Randy McBee <i>Associate Dean for Faculty and Graduate Affairs, College of Arts & Sciences</i> Dr. Robin Lock <i>Vice Dean, College of Education</i> Dr. Amy Koerber <i>Interim Associate Dean of Faculty Affairs, College of Media & Communication</i> Dr. Steve Frazee <i>Interim Dean, College of Agricultural Sciences & Natural Resources</i> Dr. Susan Tomlinson <i>Assistant Dean, Honors College</i> Dr. Saif Haq <i>Associate Dean for Academics, College of Architecture</i>
Recognition of Outstanding Students Class of 2017	Dr. Michael Galyean
Charge to the Graduates	Dr. Lawrence Schovanec
Alma Mater <i>(Words on Back Cover)</i>	Mr. Alec Lee Williams <i>Graduating with a Bachelor of Arts in Music</i>
Recessional*	Texas Tech Commencement Band

** Please remain seated during the Processional and Recessional*

COMMENCEMENT CEREMONY

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. Desiray Correa <i>Graduating with a Bachelor of Music</i>
Welcoming Remarks	Mr. J. Michael Lewis <i>Board of Regents, Texas Tech University System</i>
Chancellor's Remarks	Mr. Robert Duncan <i>Chancellor, Texas Tech University System</i>
Introduction of Commencement Speaker	Dr. Lawrence Schovanec
Commencement Address	Mr. Jeffrey Lastrapes <i>Associate Professor of Music, Texas Tech University</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. Mark A. Sheridan <i>Vice Provost for Graduate and Postdoctoral Affairs; Dean, Graduate School</i>
Presentation of Bachelor's Degree Candidates	Dr. Bill Pasewark <i>Associate Dean of Graduate Programs and Research, Jerry S. Rawls College of Business</i> Dr. Linda C. Hoover <i>Dean, College of Human Sciences</i> Dr. Patrick Hughes <i>(presenting University Studies and Wind Energy degrees) Associate Provost, Undergraduate Education and Student Affairs</i> Dr. Nurcan Bac <i>Senior Associate Academic Dean, Edward E. Whitacre Jr. College of Engineering</i> Dr. Noel Zahler <i>Dean, J.T. & Margaret Talkington College of Visual & Performing Arts</i>
Recognition of Outstanding Students Class of 2017	Dr. Michael L. Galyean
Charge to the Graduates	Dr. Lawrence Schovanec
Alma Mater <i>(Words on Back Cover)</i>	Mr. Alec Lee Williams <i>Graduating with a Bachelor of Arts in Music</i>
Recessional*	Texas Tech Commencement Band

** Please remain seated during the Processional and Recessional*

COMMENCEMENT SPEAKER

Cellist Jeffrey Noel Lastrapes is an active soloist, chamber musician and teacher having performed and taught in Europe, South America, Asia, and in every region of the United States. He holds degrees from the Curtis Institute of Music and the Juilliard School, where he studied with Orlando Cole and Harvey Shapiro, respectively. He has recorded for New World Records and Centaur Records.

In 2009, Mr. Lastrapes gave his New York Debut at Merkin Hall to critical acclaim.



“An excellent cellist with consummate technical mastery, Lastrapes is a seasoned performer whose strong, outgoing personality lets him shape the music on a big canvas with bold colors and contours,” wrote Edith Eisler in the *New York Concert Review*.

Recordings of sonatas by Rachmaninoff and Chopin, and duos for violin and cello by Ravel and Kodaly, both on Centaur Records, have recently been released, as well as his print edition of the Six Suites for Solo Cello by Bach.

Mr. Lastrapes has participated in major summer festivals around the world including the Evian, Hot Springs, Peninsula (Wisconsin), Bay View (Michigan), and Bellingham (Washington).

He is currently Associate Professor of Cello and Chair of Strings at Texas Tech University, is the co-founder of Caerus Ensemble, is on the faculty of the Tennessee Governor’s School for the Arts, and has been on the faculty of the Interlochen Center for the Arts since 1996.

Upcoming engagements in the 2017-2018 season are complete performances of the Bach Six Suites in Bolivia and South Korea, concerts and master classes in Montenegro and Hong Kong, as well as recitals, master classes, clinics, and lectures in the United States.

Mr. Lastrapes performs on a Francesco Ruggieri cello dated 1684 and a Paul Schuback cello dated 1987.

ACKNOWLEDGEMENTS

CONVOCATIONS COMMITTEE

Ms. Laura Heinz, Chair
Prof. Matthew Schlieff, Chair-elect
Mr. Ian Barba
Ms. Shelley Barba
Dr. Alan Barenberg
Mr. Jordan Bell
Dr. Shane Blum
Dr. Rhonda Boros
Ms. Luciana Cavazos
Dr. Julie Chang
Dr. Fanni Coward
Dr. Mukaddes Darwish
Prof. Genevieve Durham DeCesaro
Ms. Amiee Dixon
Dr. Kristi Gaines
Dr. Courtney Gibson
Dr. Roxie Godfrey
Dr. Catherine Jai
Dr. David Klein
Dr. Katie Langford
Dr. Jaime Malaga
Dr. Jonathan Marks
Dr. Barent McCool
Mr. Gary McCrory
Ms. Sheon Montgomery
Dr. Mark Moore
Dr. Mary Murimi
Dr. Damian Pantoya
Dr. Diego Pascual
Ms. Michelle Pearson
Dr. Comfort Pratt
Mr. Tom Rohrig
Ms. Carrye Syma
Mr. Jake Syma
Dr. Anna Tacón
Dr. Marcus Tanner
Dr. Susan Tomlinson
Prof. Seth Warren-Crow
Dr. Richard Watson
Ms. Lynn Whitfield
Ms. Heidi Winkler
Dr. Aliza Wong
Dr. Amani Zaier

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.

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 Cheryl Hedlund, Senior Editor.

COLLEGE READERS

Agricultural Sciences & Natural Resources –
Dr. David Weindorf
Architecture – Mr. Darrick Wade
Arts & Sciences – Dr. David Roach
Business – Mr. Derrick Ginter
Education – Dr. Doug Hamman
Engineering – Mr. Derrick Ginter
Graduate School – Dr. Bill Gelber
Honors College – Dr. David Weindorf
Human Sciences – Dr. John Gilliam
Media & Communication – Dr. Todd Chambers
University Programs – Dr. Marcus Tanner
Visual & Performing Arts – Professor Karl Dent
Wind Energy – Dr. Marcus Tanner

ADMINISTRATIVE REPRESENTATIVES

Agricultural Sciences & Natural Resources –
Ms. Savannah Chambers
Architecture – Ms. Anna Martinez-Lopez
Arts & Sciences – Ms. Kim Mills
Business – Ms. Geleah Sharp
Education – Ms. Karen Noles
Engineering – Ms. Tonette Rittenberry
Graduate School – Ms. Vanessa Bara
Honors College – Ms. Cheyenne Belew
Human Sciences – Ms. Ashlee Brown
Media & Communication –
Ms. Julia Heard Witt
University Studies – Ms. Amy Peterman
and Ms. Sarah Schwintz
Visual & Performing Arts –
Ms. Kathy Nordstrom
Wind Energy – Ms. Kacey Marshall

STUDENT BANNER BEARERS

Agricultural Sciences & Natural Resources –
Ms. Macy Rae Fangman
Architecture – Ms. Maria Lourdes Leon
Arts & Sciences – Ms. Elaine Michelle Tveit
Business – Ms. Kylie Michelle Naughton
Education – Ms. Megan Destiny Rivera
Engineering – Mr. Aaron M. Trusty
Graduate School
9:00 a.m. – Mr. Hai Thanh Nguyen
1:30 p.m. –
Ms. Chamila Kalpani Dissanayake
Human Sciences – Ms. Naomi Elizabeth Snider
Honors College
9:00 a.m. – Ms. Karla Reyes
1:30 p.m. – Ms. Brooke Marie Henney
Media & Communication – Ms. Kylie J'Nae Boyd
University Programs – Mr. Jonathan J. Gill
Visual & Performing Arts –
Ms. Ashlea Sarepta McCleskey

FACULTY BANNER BEARERS

9:00 a.m. – Marjorie Buckner, Ph.D;
Assistant Professor of Communication Studies,
College of Media & Communication
1:30 p.m. – Linda Donahue, Ph.D.
Associate Professor of Theatre and Dance,
J.T. & Margaret Talkington College of
Visual & Performing Arts

LIBRARY BANNER BEARERS

9:00 a.m. – Mr. Rob King
1:30 p.m. – Ms. Lynne Edgar

This program is an unofficial list of Summer 2017 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.

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. URS PETER FLUECKIGER, M.ARCH.
*Professor of Architecture,
College of Architecture*
- 1:30 P.M. ARQUIMEDES RUIZ-COLUMBIE, PH.D.
*Instructor in Wind Energy,
National Wind Institute*

RECEPTION

Immediately After Commencement Ceremony
College of Architecture | Architecture Gallery

GRADUATION HONORS

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

Alexis Kate Baker
Zachary Alban Coomes
Mackenzie John Ewart
Chrissy Ann-Marie Morris

Kylie Michelle Naughton
Vu Hoang Nguyen Phan
Megan Destiny Rivera
Tori L. Ruiz

Naomi Elizabeth Snider
Ashley Marie Sursely
Elaine Michelle Tveit

CANDIDATES FOR GRADUATE DEGREES

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

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

DOCTOR OF EDUCATION

EDUCATIONAL LEADERSHIP

Zinab Galal Elhagrasy Muñoz

Dissertation: Educational Leadership for a New Model of Engagement: A Case Study Analysis of the Dallas ISD and Dallas Community College District Collegiate Academics Partnership

Major Professor: Fernando Valle

HIGHER EDUCATION

Jimmy Edward Cheffen, Jr.

Dissertation: Onboarding and Staying: Experiences of Faculty of Color at a Midwestern Community College

Major Professor: Fred Hartmeister

Mitchel Lee Cottenoir

Dissertation: Exploring In-class Assessment for Student Learning: Perspectives of Full-time Faculty Members at a Small Private University

Major Professor: Dave Louis

Kimberly Evette Currie-Sanders

Dissertation: Performance-based Funding: Perspectives of Community College Leaders' in Texas on Its Influence on Student Success Initiatives

Major Professor: Dave Louis

Carey D. Hewett

Dissertation: Effects of Value Engineering on the Sustainability of New Facilities on University Campuses: A Case Study Analysis of Project and Facility Managers' Perceptions and Experiences

Major Professor: Stephanie J. Jones

Clayton George Taylor

Dissertation: An Exploration of Adult Student Retention Strategies at a Private Faith-based Nonprofit University: A Collective Case Study Analysis of Experiences and Perceptions of Adult Studies Staff

Major Professor: Stephanie J. Jones

INSTRUCTIONAL TECHNOLOGY

Gail A. Alleyne Bayne

Dissertation: Effects of Online Course Design Elements on Undergraduate Students' Mental Fatigue

Major Professor: Fethi Inan

Lisa L. Cole Martin

Dissertation: Going Online: An Examination of Online Learning at Historically Black Colleges and Universities

Major Professor: Jongpil Cheon

SPECIAL EDUCATION

Bertha Avila Guerrero

Dissertation: An Investigation into the Commonalities of Students Who Are Braille Readers in a Southwestern State Who Possess Comprehensive Literacy Skills

Major Professor: Nora Griffin-Shirley

DOCTOR OF MUSICAL ARTS

MUSIC

Matthew James Carey (*In absentia*)

Dissertation: A Performers' Guide to Henry Purcell's Welcome to All the Pleasures

Major Professor: Richard Bjella

Jinwon Kim

Dissertation: Barideki: For String Sextet Original Music Composition with Analysis

Major Professor: Peter H. Fischer

Oliver Ramphastos Lucero

Dissertation: Friedrich Gottlieb Klopstock's Metrical and Poetic Impact on Art Song Literature

Major Professor: Rebecca Wascoe Hays

Tara Angeliqe Melvin (*In absentia*)

Dissertation: A Comparison of Two African American Composers Born Within Five Years of the Emancipation

Major Professor: Rebecca Wascoe Hays

DOCTOR OF PHILOSOPHY

AGRICULTURAL AND APPLIED ECONOMICS

Luis Alberto Sandoval Mejia

Dissertation: Essays in Food Security in Latin America

Major Professor: Carlos Carpio

Haiyan Wang

Dissertation: China's Grain Sorghum Import Demand: Measuring the Effect of Policies on Price Relationships and Future Trends

Major Professor: Jaime Malaga

AGRICULTURAL COMMUNICATIONS AND EDUCATION

Laura Gorham Fischer

Dissertation: Examining the Role of Motivational Salience, Issue Involvement, and Pre-existing Attitudes on Selective Attention and Attitude Strength to Advertisements

Major Professor: Courtney Meyers

Troy Glyn Tarpley

Dissertation: Effects of Repeat Exposure on Reported Comfort Levels While Viewing the Animal Slaughter Process

Major Professor: Cindy Akers

ANIMAL SCIENCE

Jessica Odell Baggerman

Dissertation: Supplementation of Chromium Propionate Alters Growth Performance and GLUT4 Activity in Feedlot Steers

Major Professor: Bradley Johnson

Cara Elizabeth Wessels

Dissertation: Specific Gravity Device Can Predict Embryo and Oocyte Quality, Survival of Embryo Cryopreservation and Establish Pregnancies in Selected Mammalian Species

Major Professor: Samuel D. Prien

BIOLOGY

Elizabeth Anne Farley-Dawson (*In absentia*)

Dissertation: Factors Influencing Habitat Selection, Spatial Distribution and Site Fidelity in a Neotropical Migratory Bird, the Veery (*Catharus fuscescens*)

Major Professor: Kenneth Schmidt

Marina Lynn Fisher-Phelps (*In absentia*)

Dissertation: Modeling Southeast Asian Bat Distributions: Assessing the Effect of Ecology and Spatial Biases on Model Accuracy

Major Professor: Tigga Kingston

GRADUATE CANDIDATES

Hanh Thi My Pham

Dissertation: Fiber Growth and Maturation in Alternative Oxidase Transgenic Cotton
Major Professor: Robert Wright

Rita Margarida de Almeida Dias Quiñones de Magalhães

Dissertation: The Effect of Leaf Traits on Litter Flammability in Mixed-conifer Forest
Major Professor: Dylan Schwilk

Xunlu Zhu

Dissertation: The B'Z Subunit of Protein Phosphatase 2A Plays a Negative Role in Ethylene Signal Transduction Pathway
Major Professor: Hong Zhang

BUSINESS ADMINISTRATION

Daniela Sanchez

Dissertation: The Impact of Corporate Social Responsibility on Employee Layoffs, Layoff Disclosure, and Subsequent Financial Performance
Major Professor: Denton Collins

Ying Wang (*In absentia*)

Dissertation: Online Review and Product Sales: A Longitudinal Investigation in the Multilevel User-generated Content
Major Professors: Miguel Aguirre-Urreta and Jaeki Song

CHEMICAL ENGINEERING

Md Rashedul Islam

Dissertation: Aggregation Thermodynamics for Asphaltene Precipitation
Major Professor: Chau-Chyun Chen

Nabiollah Kamyabi

Dissertation: Microfluidic Investigation of Biomechanics of Tumor Cells Under Microcirculatory Conditions
Major Professor: Siva Vanapalli

Nadia Sultana

Dissertation: Study of Polymorphism, Nucleation, Co-Crystallization, and Colorimetric Detection of an Energetic Material 2, 4, 6-Trinitrotoluene (TNT)
Major Professor: Brandon Weeks

Xinmei Wang

Dissertation: Chemical and Mechanical Signals Mediating Phenotype Transformation in Valvular Interstitial Cells
Major Professor: Carla Lacerda

CHEMISTRY

Muhammet Mustafa Cetin

Dissertation: Syntheses and Characterization of Copper(I) Complexes for Study of Dynamic Supramolecular Ring-chain Equilibria and Application as Photoredox Catalysis
Major Professor: Michael Mayer

Ang Zuo

Dissertation: Chemistry of Pseudopericyclic Reactions and Synthesis of New Proton Sponges
Major Professor: David Birney

CIVIL ENGINEERING

Bo Pang

Dissertation: Capacity Analysis of Signalized Alternative Interchanges
Major Professor: Hongchao Liu

CLINICAL PSYCHOLOGY

Nathanael JinHo Taylor

Dissertation: An Investigation of the Interpersonal Theory of Suicide in an Inpatient Sample of Individuals with Bipolar Disorders
Major Professor: Kelly Cukrowicz

COMPUTER SCIENCE

Mohammed Saeed Alkathiri (*In absentia*)

Dissertation: Experimental and Cryptanalytic Study of the State of the Art Physical Unclonable Functions
Major Professor: Yu Zhuang

Heng Wu

Dissertation: The Study of a Family of Hessian-based Predictors-corrector Integrators for Direct Dynamics Simulation
Major Professor: Rattikorn Hewett

COUNSELING PSYCHOLOGY

Dominika Borowa

Dissertation: Personal Growth Initiative as a Resilience Factor Against Death Ideation in OIF, OEF and OND Veterans
Major Professor: Chris Robitschek

James Richard Donaldson III

Dissertation: Psychometric Evidence for a Measure of Religious Identity
Major Professors: Stephen Cook and Robert Morgan

Karen Elizabeth Grabowski

Dissertation: Intellectual Disability/Intellectual Development Disorder and Restoration to Competency to Stand Trial
Major Professors: Sheila Garos and Robert Morgan

Leah Ferrari Power (*In absentia*)

Dissertation: Religiousness and Conformity to Feminine Norms
Major Professor: Stephen Cook

COUNSELOR EDUCATION

Cody William Dickson

Dissertation: Female Single-sex High School Graduates Transition to College Life: A Wellness Perspective for Counselor Educators
Major Professor: Charles Crews

CURRICULUM AND INSTRUCTION

Susan Coleman Burgoon

Dissertation: Effect of Using a Two-stage Collaborative Exam on Undergraduate Students' Learning in a Gateway Course for Allied Health Programs
Major Professor: Walter Smith

Maria Leticia Gonzalez-Madrid

Dissertation: "We All Have Them, but We Do Not Know How to Teach Them": ELLs in Mainstream Classrooms
Major Professor: Jeong-Hee Kim

Amy A. Moers

Dissertation: Examining Fifth Grade Students' Math Discussions, Perceived Fraction Ability, and Content Learning through a Socio-cultural Intervention
Major Professor: Zenaida Aguirre

Kayla Aggie Renae Randolph

Dissertation: A Framework for Success: A Case Study of a Community Peer-mentoring Program for Underrepresented Students Enrolled in the Student Success Course
Major Professor: Barbara Morgan-Fleming

Gail Lynn Smith

Dissertation: The Teacher-curriculum Relationship: Teacher Interactions with a Digital Science Curriculum
Major Professor: Shirley Matteson

ECONOMICS

Huiying Chen

Dissertation: Essays on an Unconventional Monetary Policy: Nominal GDP Targeting – A Dynamic Stochastic General Equilibrium Analysis
Major Professor: Salem Abo-Zaid

Ahmed Hashmiwu

Dissertation: Essays on the Macroeconomic Effects of Fiscal Policy
Major Professor: Salem Abo-Zaid

Najmeh Kamyabi

Dissertation: Three Essays in Energy Economics and Industrial Organization, with Applications to Gasoline Markets
Major Professor: Michael Noel

Yanze Li

Dissertation: Essays in Welfare Gains from Product Varieties in International Trade
Major Professor: Armando Lopez

Janaka Deshapriya Maheepala (*In absentia*)

Dissertation: Essays on Optimal Credit and Tax Policies
Major Professor: Salem Abo-Zaid

Rullan Rinaldi

Dissertation: Essays in the Redistribution Effect of International Trade in the Labor Market
Major Professor: Misak Avetisyan

ELECTRICAL ENGINEERING

Sajjad Abedi
Dissertation: Data Driven Approaches for Risk-Aware Energy and Reserve Co-optimization with Significant Wind Resources
Major Professor: Miao He

Ayed R. Alajmi
Dissertation: Novel Techniques for Microwave Imaging Using the Time Reversal Finite Difference Time Domain Method
Major Professor: Mohammad Saed

Md Nadim Ferdous Hoque
Dissertation: Studies of Metal Oxides and Organic-inorganic Perovskites for Optics and Photovoltaics
Major Professor: Zhaoyang Fan

Daniel L. Mauch (*In absentia*)
Dissertation: Photocurrent Efficiency and Limitations in 4H-SiC Photoconductive Semiconductor Switches
Major Professor: James Dickens

ENGLISH

Emily Nickole Grover
Dissertation: "Adieu, Dear Name": The Thing About Names in the Works and Lives of Frances Sheridan, Frances Burney, Mary Darby Robinson, and Jane Cave Winscom
Major Professor: Marta Kvande

Dina Salah Mohamed Hassan
Dissertation: Bilingual Creativity and Anglo-Arab Texts: Towards a Methodological Framework Drawing on World Englishes and Translation Studies
Major Professor: Mary Jane Hurst

ENVIRONMENTAL TOXICOLOGY

Logeswari Ponnusamy (*In absentia*)
Dissertation: Epigenetic Mechanism of Acquired Doxorubicin Resistance in Breast Cancer Cells
Major Professor: Kamalashwar Singh

FINE ARTS

Jaclyn Francis Paul
Dissertation: The Impact of Music on Self-concept: The Investigation with Deaf and Hearing Children Using the Twenty Statements Test
Major Professor: Janice Killian

Lawrence Branco Sekalegga
Dissertation: Examination of Effective Music Pedagogies in Ugandan Urban, Suburban, and Rural Secondary Schools: An Empirical Study
Major Professor: Janice Killian

GEOSCIENCES

Vanna Christine Chmielewski
Dissertation: Understanding the Surprising Variation in Storm Charge Structures on 4 June 2012 Over West Texas
Major Professor: Eric Bruning

Philip Arnold Frederick, Jr.
Dissertation: Stratigraphy, Biostratigraphy, and Paleogeography of Late Devonian-carboniferous Units in the Alexander Terrane, SE Alaska
Major Professors: James Barrick and Dustin Sweet

HIGHER EDUCATION-
HIGHER EDUCATION RESEARCH

Catherine Teresa Nutter
Dissertation: Academic Probation and Suspension Students: Perceptions on Academic Advising and Grit
Major Professor: Valerie Paton

HISTORY

Hai Thanh Nguyen
Dissertation: The Hidden Memory of the Vietnam War: Examining the Motivations of Soldiers on the Battlefield
Major Professor: Ron Milam

Justin M. Simundson
Dissertation: Propaganda Images and Manufacturing Consent in "Free" Vietnam, 1950-1963
Major Professor: Ron Milam

Lane Jarold Sobehrad
Dissertation: The Past in Prologues: The Origins, Form, and Function of Introductory Material in Medieval English Historical Works
Major Professor: John Howe

HOSPITALITY ADMINISTRATION

Kyungyul Jun (*In absentia*)
Dissertation: Financial Performance and Working Capital Management by U.S. Restaurant Industry Under Different Economic Situations
Major Professor: Jessica Yuan

HUMAN DEVELOPMENT AND
FAMILY STUDIES

Cassandra Caye Huey
Dissertation: Parent-child Agreement on Reports of Child Internalizing and Externalizing Symptoms: Family Processes in the Context of Child Sexual Abuse
Major Professor: Yvonne M. Caldera

Andrea Christine Parker
Dissertation: Assessing the Effectiveness of a Pre-kindergarten Preparation Class
Major Professor: Michael McCarty

INDUSTRIAL ENGINEERING

Ramzi Lafi Alahmadi (*In absentia*)
Dissertation: Renewable Energy as an Economically Viable Option for an Oil Rich Country: A Risk Analysis Approach
Major Professor: Mario Beruvides

Manish Ranjit
Dissertation: The Effects of Posture and Gender in Biomechanics of High Frequency Lifting of Light Loads
Major Professor: James Smith

Yang Zhang
Dissertation: Li-ion Battery Electrode Remanufacturing by Nanosecond Pulsed Laser Ablation
Major Professor: Hong-Chao Zang

MARRIAGE AND FAMILY THERAPY

Luke Scott Einerson
Dissertation: A Delphi Study on Herbs Used to Address Depression and Anxiety According to Master Herbalists
Major Professor: Jason Whiting

Brie Ann Turns
Dissertation: Assessing the Effectiveness and Experiences of Solution-focused Brief Therapy for Couples Raising a Child with an Autism Spectrum Disorder
Major Professor: Sara Smock Jordan

MASS COMMUNICATIONS

Sadia Ehsan Cheema
Dissertation: Games for Good: Testing the Motivational Mechanisms of Serious Games and Their Effect on Prosocial Behavior
Major Professor: Paul Bolls

Jennifer Ann Huemmer
Dissertation: A Tale of Two Worlds: Examining Identity, Media and Faith Among Evangelical Christian Women
Major Professor: Robert Peaslee

Amber Nicole Krause
Dissertation: Addressing Activism in Agriculture: How Message Features Influence Resistance to Genetically Modified Food Messages, Openness to Dialogue, Activist Attitudes, and Behavioral Intentions
Major Professor: Erik Bucy

Bailey Airs Thompson
Dissertation: #SororityGirl: Media's Role in the Sorority Socialization Process Through the Construction and Maintenance of the Individual and Chapter Sorority Identity
Major Professors: Shannon Bichard and Rebecca R. Ortiz

GRADUATE CANDIDATES

MATHEMATICS

Joshua Spencer Mayer
Dissertation: Modeling Drug Sensitivity: Variable Selection, Interference and Prediction
Major Professors: Souparno Ghosh and Ranadip Pal

Galkande Arachige Iresha Chamanthi Premarathna
Dissertation: Classification of Protein-ligand Binding Using Their Structural Dispersion
Major Professor: Leif Ellingson

Michelle Nicole Walty
Dissertation: Integer Representations of Small Groups and their Cohomology
Major Professor: Arne Ledet

Yang Zhang
Dissertation: An Investigation of Some Public Key Exchange Cryptosystems
Major Professor: Chris Monico

MECHANICAL ENGINEERING

Saeed Babamohammadi (*In absentia*)
Dissertation: Part I: A Motion Capture Algorithm for Reconstruction of Supercoiled DNA
Part II: Experimental and FEA-based Assessment of Damage Mechanism in EPDM Roofing Structures Subjected to Hailstone Impact
Major Professor: Jahangir Rasty

Avik Basu
Dissertation: Determination of the Mechanical Properties of the Tricuspid Valve Annulus within the Surrounding Myocardium and Leaflets
Major Professor: Zhaoming He

Aimee Monique Cloutier
Dissertation: Grasping Force Optimization Approaches for Common Anthropomorphic Grasps
Major Professor: James Yang

Haileyesus Belay Endeshaw
Dissertation: Probabilistic Prognostics of Gears Under Variable Loading
Major Professor: Stephen Ekwaro-Osire

Richa Somkant Padhye
Dissertation: Altering Surface Properties Toward Enhanced Reactivity
Major Professor: Michelle Pantoya

Kalana Lakshitha Pothuwila
Dissertation: Finite-state Transition Models for Path Planning, Packet Screening and Control of Networked Industrial Control Systems
Major Professor: Jordan Berg

Dylan K. Smith
Dissertation: Replacing the Al₂O₃ Passivation Shell on Aluminum Nano-Particles with an Energetic Salt: Aluminum Iodate Hexahydrate (AIH)
Major Professors: Michelle Pantoya and Zhaoming He

NUTRITIONAL SCIENCES

Arwa AL-Jawadi
Dissertation: Adipocyte-breast Cancer Cell Interactions and Potential Preventive Effects of Omega-3 Fatty Acids
Major Professor: Naima Mousaid-Moussa

Chanaka Nadeeshan Kahathuduwa
Dissertation: Effects of Extended Calorie Restriction on Neurophysiological Mechanisms Determining Human Ingestive Behavior
Major Professor: Martin Binks

PERSONAL FINANCIAL PLANNING

Jacob A. Williams
Dissertation: Three Essays on Annuitized Income During Retirement
Major Professor: Russell James

PETROLEUM ENGINEERING

Fathi Elltaif Saad Elldakli
Dissertation: Testing, Modeling, and Optimizing a Modified Design of Gas Lift Valve Seat
Major Professors: Hossein Emadi and Mohamed Soliman

Lei Li
Dissertation: Experimental and Numerical Study on Gas Huff-n-Puff EOR in Shale Oil Reservoirs
Major Professor: James Sheng

Yu Pang
Dissertation: Effect of Gas Adsorption on Rock Property Characterization and Gas Transport Mechanism in Shale Gas Reservoirs
Major Professor: Mohamed Soliman

Elias Pirayesh
Dissertation: A Coupled Finite Element Investigation of Hydraulic Fracture Initiation and Propagation in Soft Rocks
Major Professors: Hossein Emadibaladehi and Mohamed Soliman

Ziqi Shen
Dissertation: Investigation of Asphaltene Deposition Associated Formation Damage During Huff-n-Puff Injection in Shale Reservoirs
Major Professors: Habib Menouar and James J. Sheng

PLANT AND SOIL SCIENCE

Sanjit Acharya
Dissertation: Cellulose Dissolution in Different Solvents
Major Professor: Nouredine Abidi

Xiaoxiao Liu
Dissertation: Effect of Different Production Practices on the Development of Verticillium Wilt and Cotton Fiber Quality
Major Professor: Jason Woodward

Poorna Tharaka Wansapura
Dissertation: Cellulose and Chitin Based Composites: Preparation and Characterization
Major Professor: Nouredine Abidi

POLITICAL SCIENCE

Emily Naasz
Dissertation: Civilian Victimization in Armed Conflict: An Opportunity Cost Argument
Major Professor: Toby Rider

SPANISH

Rolando Josué Díaz
Dissertation: Transnational Noir: Chicano and Catalán Elements in the Detective Fiction of Lucha Corpi and Alicia Giménez Bartlett
Major Professor: Jorge Zamora

Julio César Pérez Méndez (*In absentia*)
Dissertation: Using Photographs to Illustrate *Don Quixote de La Mancha*
Major Professor: John Beusterien

SPECIAL EDUCATION

Nouf Mohammed A. Alzrayer
Dissertation: The Effects of Using iPads in Teaching Multi-step Social-communication Skills to Children with Autism Spectrum Disorder
Major Professor: Devender Banda

Ashley Lindsey Matter
Dissertation: An Evaluation of Equivalence-based Instructional Strategies on Emergent Foreign-language Noun Relations
Major Professors: Jeanne Donaldson and David Richman

Mariana Ulibarri-Horan
Dissertation: Evaluating Students with a Limited English Proficiency (LEP) for Specific Learning Disabilities (SLDs): An Investigation of Educational Diagnostic Professionals' Practices
Major Professor: Janna Brendle

SYSTEMS AND ENGINEERING MANAGEMENT

Chamila Kalpani Dissanayake
Dissertation: Development of a Supply Chain Performance Measurement Model Integrable to Industry
Major Professor: Jennifer Cross

Allison Brooke Williams
Dissertation: Shiftwork and Team Options for Hazardous Operations Regarding the Potential for Human Error: A System Dynamic Model
Major Professor: Patrick Patterson

TECHNICAL COMMUNICATION AND RHETORIC

Dubravka Davy

Dissertation: Communicating Bad Medicine: Making the Argument for the Adoption of the Harmonized Sales Tax in Ontario, Canada
Major Professor: Kenneth Bake

Stephen David Grover

Dissertation: Preparing Graduate Teaching Assistants to Teach Writing Online: A Nationwide Assessment of Research and Practice
Major Professor: Kelli Cargile Cook

Jeremy Fredrick Huston

Dissertation: Measuring Fun: A Heuristic for Evaluating Game Enjoyability in Usability Testing
Major Professor: Brian Still

Elaine Christine Wisniewski

Dissertation: Workplace Communication Practices and Perceptions of Novice Engineers
Major Professor: Kelli Cargile Cook

WILDLIFE, AQUATIC, AND WILDLANDS SCIENCE AND MANAGEMENT

Pablo Cortez Teveni III

Dissertation: Characterizing Temporal Ecophysiology for Chemical Management of Huisache (*Acacia farnesiana* [L.] Willd.)
Major Professor: Robert Cox

WIND SCIENCE AND ENGINEERING

Hoon III Won

Dissertation: Horizontal and Vertical Variability of Wind Fluctuations in Lower Atmospheric Boundary Layer
Major Professor: Song-Lak Kang

MASTER OF AGRIBUSINESS

Harris Wayne Davee
Kayla McMackin

MASTER OF ARCHITECTURE

Ruben Apodaca Longoria
Kirsten Erin Murillo
Nicholas Connor Reachi
Ana Irais Rodriguez

MASTER OF ART EDUCATION

Justin John Clumpner (*In absentia*)
Gail Elizabeth Meyer Dentler
Marc Andrew Watson
Lorena Williams

MASTER OF ARTS

ANTHROPOLOGY

David W. Sandrock

Thesis: BEAST Mode: Two Seasons of Archaeological Survey on the Gallon Jug-Laguna Seca Property in Northwestern Belize

ART HISTORY

Jordann Nicole Davis

Thesis: El Manati as a Site of Creation: Material Engagement at an Early Formative Site in Mexico

COMMUNICATION STUDIES

Richelle Leanne Hair

Kaleigh Jo Love (*In absentia*)

HISTORY

Jeremy Thomas Brown

Olivia Drew Greene Bursch

Thesis: Nos Sentimos Libres: Healthcare, Socialism, and Women's Liberation in Castro's Cuba

Darian Grey Condarco

John Wallace McCullough (*In absentia*)

Thesis: Breedlove – An Empire of the Air, 1939-48

Joshua Riley Reese

Casey Michael Scarpati

Thesis: Libraries of Modernization: American Books in South Vietnam, 1946-1964

Heather Renee Turbeville

Thesis: Spices, the East India Company, and the Origins of Anti-Dutch Sentiment in England in the Sixteenth and Early Seventeenth Centuries

INTERDISCIPLINARY STUDIES

Tobin Scott Brannan

Thesis: Reflecting the Past: The Impacts of Socio-economic Status, Race, Religion, Age, Education, and Gender on Parental Acceptance of Their Transgender Children, 1990-2015

Brittany Lauren Brock

Hunter Reid Jenkins

LANGUAGES AND CULTURES

Musbah Michael Pratt Boyles

Thesis: The Roman Water-mill at Khirbet Faynan: Historical Perspectives and Weisgerber's Unpublished Archive

Laura Elizabeth Schuster

MASS COMMUNICATIONS

Quran Sheray Batiste

Savannah Breeann Boyd

Brendan Tate Hunton

Dana McNamara Jennings

Liliane Irene Logan

Emily René Mize

Melissa Michelle Pales

Hillary Elise Ross

Kimberlyn Marie Schwartz

Easton Nicole Wollney

Thesis: A "Woman's Job": A Visual Analysis of World War I and World War II Images of Women in the United States

Abbie Marie Wright

MATHEMATICS

Sarah Kathleen Blazier

Victoria Ann Brayer

Jaclyn Marie Doyal

MUSEUM SCIENCE

Adriana Renee Christian

Ruth Elizabeth Field (*In absentia*)

Luke James Richardson

Katy Leigh Schmidt

Kathleen Rachel Wilson

PHILOSOPHY

Joshua William Bonilla (*In absentia*)

Thesis: Hold the Line: Plato on Education, Virtue, and Language

POLITICAL SCIENCE

Travis J. Cole

PSYCHOLOGY

Tabitha Catlin Fleming

Thesis: The Planned Parental Discipline Strategies of College Students: The Role of Behavioral Principles Knowledge

Alexandra Blake Gibson

Thesis: Increasing Knowledge of Behavioral Principles Using a Brief Online Training Program

Margaret Ann Piper (*In absentia*)

SOCIOLOGY

Marjan Davoodi

Thesis: "We Have Our Privacy, We Have Our Own World," The Choice of Cohabitation Among the Iranian Cohabitants

Stephanie Lenae Kirkland (*In absentia*)

Thesis: Mexican American Immigrants and Health Insurance Under the ACA

April Ortegon

Thesis: Matching Matters: How Context and Educational Agent Resonance Causes Better Educational Outcomes and Social Integration for Immigrant Secondary Students

GRADUATE CANDIDATES

STRATEGIC COMMUNICATION AND INNOVATION

Whitney Gable Barrett
Jamecia Renae Crenshaw
Christopher J. Elliott
Mary Ann Grimes (*In absentia*)
Jasmine Maria Jones (*In absentia*)
Alicia Rose Keene
Kelly Nicole Kingston
Kelly Anthony Podzemny
Chasten Michelle Rasmussen
TaShayla L. Scarborough

TECHNICAL COMMUNICATION

Meredith Albers
Adam R. Heidrick (*In absentia*)
Michael Travis Mabry

MASTER OF BUSINESS ADMINISTRATION

GENERAL BUSINESS

Billy Han Acosta
Robert Damon Armstrong
Luke Porter Bacon
Claudia Rocio Baeza
Moises G. Balbuena
Kelley Lynn Ballard
Beau Barret Beduze
Luis R. Benavides
Maria Victoria Benavides Peña
Morkeh Blay-Tofey
Jose Amir Bonilla
Michael N. Bowers
Lindsey Rebecca Bowman
Shamar D. Bradley
Dustin Brian Brownlee
John Daniel Buie
Everett Tyler Burg
Annette Mary Castellano
Catherine Castillo
Ethan T. Chandler
Andreina Chavez
Haley Marie Cook
Wesley James Cook
Joshua Dean Crooks
Scott Allen Cushion
Casey Ray Daniel
Bradley Alan Davis
Rudy Jacob De La Cruz
Robert James Dees
James Ryan Dixon
William Vincent Dougherty II
Cody Lynn Duggan
Mark William Ellis
John Clinton Fisher II
Austin J. Florence (*In absentia*)
Christopher Lloyd Flowers
David Patrick Foley (*In absentia*)

Dillon James Ford (*In absentia*)
Gary Judd Glover
Hilary Don Gray
Allen David Grice
Matthew Paul Heinrich
Joseph Paul Hilliard (*In absentia*)
Kirsta L. Hoffmann
Dean E. Homen (*In absentia*)
Jose Zahit Ibarra
Robert Bryan Ioppolo
Aaron Lawson Israel
Matthew Jacob
Christiane Janae Johnson
Dillon Ray Jones
Ashleigh Paige Jones
Lauren Michelle Joness (*In absentia*)
Alicia Rose Keene
Devan Nicole Kelley
Joshua Giles Kemp
Zunaira Khalid
Grace Nalwadda Kibuule
Charles Randell Knudsen
Paige Kelsey Letcher
Benjamin Regan Magouyrk
Haley Cecille Mannix
Martin James Marshall II
Stephanie Martinez Ugarte
Tate Austin Mcintyre
Jordan Asher McKinney
Zachary Tyler Middleton
Megan Lea Milliorn
Shashank Kumar Mittal
Diana Nicole Mitchell
McKenzie Lynn Moore
Tracy LuAnn Morris
Michael Hall Murphey, Jr.
Shiva Satya Surya Srinivas Neralla
Quang Nhat Nguyen
Tanner Scott Ogden
Lubna Owais
Connor Martell Parker
Praful Ashok Parmar
Ashini Ashvin Patel
Theophilus Nguyen Pham
Troy Joe Pickering
Dustin N. Plattor
Austin James Price (*In absentia*)
Jonathan Mark Rangel
Travis Ray Reddick
Christopher Michael Reid
Cynthia Annette Reyes
Jerry Reyes
Emery Belen Rickard
Carsen Joseph Roach
Rebecca Rodriguez
Abigail Rosales
Vanessa Nicole Ruiz
Nicholas Livingston Runkles
Roger Lionel Sandoval
Kathryn Lee Shepherd
Simran Rachel Singh
Rony Thomas Skaria

Shaffer Milam Smith
Alana Kush St. Clair
Forrest David Stovall
William Hunter Summitt
Eduardo Urias
Weston C. von Roeder
Travis Mitchell Warmoth
Charles Thomas Warne
Gary Duane West
Brittany Cassandra White
Daniel Coy Wilhite
Taylor C. Williams
Clint Edward Williamson
Garrett Benjamin Wire
Cynthia Alexis Morgan Wood
Matthew James Wright

MASTER OF EDUCATION

COUNSELOR EDUCATION

Lucas Howard Brink
Eric Ray Chavez
Mark Robert Holloway
Chinomso J Ihenagwam
Richard Remington Jolly
Mark S. Levin (*In absentia*)
Shely JoEllen Miller
Cydnee Marie Prince
Jordan Patrick Ryan
Angel Vega

CURRICULUM AND INSTRUCTION

Nancy Donna Beggs (*In absentia*)
Jessica Mae Braswell
Rogelio Garcia, Jr.
Tracy Suzanne Heath (*In absentia*)
Marissa Lynne Keim
Ellen Christine Morgan
Michelle Tull Ryan

EDUCATIONAL LEADERSHIP

Molli Kathleen Crowley-Martinez
Ruby Gonzalez
Tamara Yvonne Hunter
Mary Kathleen King
Julie Annette Kuhn
Trey Christopher Lancaster
Michael R. Lopez
Roberto Rafael Lopez, Jr.
Rossette Apiyo Ngure Osamba
Amanda Rodriguez
Miranda Rhachelle Ruvalcaba
Debra Lois Sala
Ashley Ann Vorndran

EDUCATIONAL PSYCHOLOGY

Justina Henryka Danilowski
Kevin Andrew Harmon
Kristen Nicole Lyons (*In absentia*)
Esteban Montenegro Montenegro (*In absentia*)
Anna Marie Schaefer
Samantha Kate Wiseman

INSTRUCTIONAL TECHNOLOGY

Kendra Rene Erdmann (*In absentia*)
 Lindsey Shae Stokes
 Victoria Ashley Vaughn
 Kirstin Sue Wachter

SPECIAL EDUCATION

Gwendolen N. Beyer (*In absentia*)
 John Todd Bigham
 Heather Sue Brooks
 Chelsea Nichol Campbell
 Michelle Marie Candland
 Allison Lee Ceyanes
 Stephanie Michelle Chambers
 Sarah Rebecca Chatfield
 Brenda J. Cheesman
 Robin Marie Cook
 Dena Michelle Decker
 Lande Chadwick Dowell
 Reynaldo Lagasca Duran
 Leonardo Esquivel
 Quynh Giao Thi Eubanks (*In absentia*)
 Melissa Yvonne Gibson (*In absentia*)
 Julianna Lynne Greenleaf (*In absentia*)
 Jessica Michelle Haarlow
 Shanna Christine Hamilton
 Christina Renee Johnson
 Kelly Marie Kilgus
 Lana Renee Krull-Gar
 Bridgette Arlene Luce
 Jacqueline Kaye Malone
 Adrian N. McCune
 Eduardo Alejandro Mejia, Jr.
 Ashley Nicole Mobley (*In absentia*)
 Lexi Lynn Percifield
 Kathryn Hughes Peterson
 Marcela Quatrini
 Ashton Dorene Ramsey
 Leia Lyn Rauchbach (*In absentia*)
 Kimberly Renae Ross
 Jill M. Smith
 Melanie Lynne Teague
 Emian Williams
 Candi Melissa Williams

MASTER OF ENVIRONMENTAL ENGINEERING

James Robert Raveney (*In absentia*)

MASTER OF FINE ARTS**THEATRE ARTS**

Abigail Roberts Chowning
 Caroline Jane Davis
 Reese Garrett Thompson

MASTER OF LANDSCAPE ARCHITECTURE

Joanna Agyapomaa Aduhene
 Amanda L Gunter (*In absentia*)

Thesis: Therapeutic Landscapes for Academics
 Suffering from Stress and Burnout in Arid Regions
 Jared Lane Horsford
Thesis: Approaches for Obtaining SITES v2
 Water Credits in Playa Hydrologic Systems
 of the Llano Estacado Region
 Afsana Sharmin

MASTER OF MUSIC

Amy McDevitt Womack (*In absentia*)
Thesis: A Continuing Tradition: The Twenty-First
 Century North American Song Cycle

MASTER OF MUSIC EDUCATION

Leonel Garza
 Jose Juarez Martinez
 Lucas Ryan Meade (*In absentia*)
 Catherine Leigh Olivier
Thesis: Aesthetic Responses of North Americans
 and South Americans to Tango Music
 Gregory Donald White

MASTER OF PUBLIC ADMINISTRATION

Melina De Silva Matos

MASTER OF SCIENCE**AGRICULTURAL AND APPLIED ECONOMICS**

Jennifer Leigh Crews (*In absentia*)
 Ximena Alejandra Paz Portal
Thesis: The Effects of Quinoa's Price Changes
 in the Welfare of Bolivian Households

AGRICULTURAL COMMUNICATIONS

Brandyl Julia Brooks
Thesis: A Comparative Content Analysis of
 News Stories and Press Releases During
 the 2015 Blue Bell Ice Cream Recall
 Jenna Holt-Day

AGRICULTURAL EDUCATION

Chanie Brooke Barker
Thesis: Perceived Level of Preparation, Benefit of
 Coursework, and Teacher Efficacy of Program
 Completers in a Teacher Certification Program
 Shaye Lynn Beasley (*In absentia*)
 Casey T. Jones

ANIMAL SCIENCE

Jennifer L. Estes (*In absentia*)
 Bradley Keith Schniers
Thesis: Effects of Iloprost on Embryo
 Development in vitro

APPLIED PHYSICS

Shivakumar Surendranath
Thesis: Moiré Effect Studies at Thermal Frequencies

ATMOSPHERIC SCIENCE

Matthew Donald Brothers
Thesis: Investigating the Relative Contribution
 of Charge Deposition in Organizing Charge
 within a Thunderstorm
 Alexandria Jolene Herdt
Thesis: A Multi-index Investigation of the
 Spatiotemporal Relationships between Heat
 and EMS Calls During the 2015 Pan American
 Games in Toronto, Canada
 Shelby Dalane Robertson
Thesis: Intensification of Low-level Updraft in
 Supercells Preceding Tornadogenesis

BIOLOGY

Daniela Arenas-Viveros
Thesis: Historical Biogeography of the Diversifica-
 tion in *Akodon* (*Rodentia: Sigmodontinae*)
 Ranakul Islam
Thesis: Influence of Neuropeptide Y (NPY) on
 Prey Capture and Predator Avoidance Responses
 in the African Clawed Frog, *Xenopus laevis*
 Shengjian Jiang
Thesis: Evidence of Exposure to Hypoxia and
 Acidification in Otoliths of Atlantic Croaker
 from the Gulf of Mexico

BIOTECHNOLOGY

Ashwini Challa
Thesis: Molecular Mechanisms Underlying
 Drought Acclimation Responses in C76-16 Leaf
 (*Arachis hypogaea* L.)
 Poornasree Kumar
Thesis: MicroRNA Regulation of Gene Expression
 Under Drought Stress Acclimation Response in
 Peanut (*Arachis hypogaea* L.) Roots
 Bilkis Ara Mitu
Thesis: Identifying Post-translationally Modified
 Proteins in Breast Cancer Cells for Investigating
 the Mechanisms of Action of a Potential
 Anti-cancer Drug
 Sanjana Sujal Shroff

BUSINESS ADMINISTRATION

Nathaniel Buchanan Luker
 Eric Matthew Prochnow
 Forrest David Stovall
 Sohel F. Vora
 Brett S. Wilson

GRADUATE CANDIDATES

CHEMICAL BIOLOGY

Kflom Yemane Gebreslasie
Thesis: Small Molecule Metallo- β -Lactamase Inhibitors

CHEMISTRY

Armando Paniagua Vigil
Thesis: Asymmetric Synthesis of Bis-indoles and Indole Derivatives Aided by Chiral Phosphoric Acid Ion Pairing
Yu Zhang (*In absentia*)
Thesis: Direct Exfoliation of Graphene in Imidazolium-based Ionic Liquids: Effect of Chain Length and Cation Symmetry

COMPUTER SCIENCE

Tahrima Mustafa
Thesis: Behavioural Authentication in Virtual Reality Environments
Maede Rayatidamavandi
Neda Tavakoli

DATA SCIENCE

Ishaan Bhandari
Shamar D. Bradley
Rubie Jale Parcon Castellano
Pradnya Harshawardhan Chahande
Ratnam Dubey
Mayuresh Manohar Indapurkar
Seema Rani Kanuri
Kunyu Li (*In absentia*)
Jingjing Liu
Sayali Kashinath Mahajan
Heath Titus McCasland
Naveen Krishna Murakonda
Sai Goutham Natarajan
Raymond Chidiebube Obidegwu
Miguel Fernando Papadopoulos
Conner Keith Phares
Abdul Hannan Qazi
Rashmita Rout
Partha Sarathi Satpathy
Gaurav Singh
Swathi Suresh
Raymond Everett Taylor
Jorge Trevino, Jr.
Joshua Evan Williams
Alexander Xavier Wohletz

ENVIRONMENTAL TOXICOLOGY

Melissa Ann Sandoz
Thesis: Occurrence and Effects of Veterinary Pharmaceuticals on West Texas Playa Wetlands

FAMILY AND CONSUMER SCIENCES EDUCATION

Kyley Elizabeth Brooks-Anderson
Elizabeth Espino
Jennifer Ann Lopez (*In absentia*)
Sascha Rae Woodward

FOOD SCIENCE

Gabriela Alejandra Arteaga Arredondo
Thesis: International Development and Capacity Building for the Implementation of Food Safety Regulations in Produce: A Focus on the Food Safety Modernization Act

FORENSIC SCIENCE

Nicholas William Knowlton

GEOGRAPHY

Michelle Grace Freyder
Thesis: The Effect of Recreational Boat Traffic on the Distribution of Curly-Leaf Pondweed (*Potamogeton crispus*) in Manitowish Waters, Wisconsin
Floyd William Holder IV (*In absentia*)
Thesis: A Geographical Analysis of Western Texas College District Service Area

GEOSCIENCES

Georgene Anne Aaroe
Thesis: Age and Tectonic Significance of Niobium-Yttrium-Fluorine (NYF)-Pegmatites in the Tysfjord Region, Nordland, Norway
Andres Javier Corredor
Thesis: Seismic Investigation of the Upper Mantle of Western South America
Attiya Olivia Darensburg
Thesis: Global Mapping of 410 Km Upper Mantle Boundary Using PP Precursor Waves
Eric Tyler Friedman (*In absentia*)
Thesis: Comparing Siliciclastic Content of Ramp to Rimmed Carbonate Slope Deposits During Relative Sea Level Highstand
Siyu Ji
Mahmoud Anis Gad Khalil Mahrous (*In absentia*)
Thesis: Quantitative 3D Analysis for Natural Micro-Fracture in Woodford Shale, Southern Oklahoma, Using Non-Destructive Micro Computer Tomography Technique
Alden Richard Netto (*In absentia*)
Thesis: Delineating the Ocean-continent Crustal Boundary in the Gulf of Mexico Using Heat Flow Measurements
Angela Michelle Norman (*In absentia*)
Thesis: The Provenance of Icelandic Volcanic Sand: Significance of Black Sand Origin and Implications for Sampling Mars Regolith
Audrey Nicole Pattat (*In absentia*)
Thesis: Assessing Post-Miocene Tilting of the Southern High Plains Through Paleoslope Reconstructions of the Ogallala Formation
James Daniel Pike (*In absentia*)
Thesis: Cyclicity, Dune Migration, and Wind Velocity in Lower Permian Eolian Strata, Manitou Springs, CO
Tyler C. Roy (*In absentia*)
Thesis: Conodont Fauna of the Excello Shale (Middle Pennsylvanian), Midcontinent North America

HOSPITALITY AND RETAIL MANAGEMENT

Sarah Jessica Diaz
Lauren Brooke Finnell
Haley Lucas (*In absentia*)

HUMAN DEVELOPMENT AND FAMILY STUDIES

Cindy Martinez Garza
Thesis: Foster Youth Aging Out of Foster Care and Their Relationships with Caregivers
Miriam Nicole Lieway
Thesis: Set up for Success or Set up for Harm? Untangling the Relationship between Sexist Attitudes and Contemporary Norms of Femininity among College Women

INTERDISCIPLINARY STUDIES

Matthew Todd Weaver (*In absentia*)

KINESIOLOGY

John Devin Ashley (*In absentia*)
Thesis: The Effects of L-citrulline Supplementation on Energetic Cost of Walking: An Age Comparison
Renee Lee O'Dell
Jose Gonzales Pineda (*In absentia*)
Thesis: Effect of Compression Garments on Physical Activity Patterns and Perceived Exertion in Trained Adults

MARRIAGE AND FAMILY THERAPY

Taylor Suzanne Ballard
Timothy Ciochon
Natalie C. Johnson
Michelle Renee Luna
Ashley Lauren Newman
Dustin Ryan Perkins
Katelyn Nichole Pevehouse
Cydney Alexandra Schleiden
Stephanie T. Villarreal
Sydney Erin Wenglein
Mazie Danae Zielinski

MATHEMATICS

Annabel Elizabeth Offer Meade (*In absentia*)

MICROBIOLOGY

Matthew David Romero

NUTRITIONAL SCIENCES

Gates Leander Malachi Anderson
Thesis: Incentivizing Lifestyle Modification to Reduce Disease Burden
Alexandria Leigh Faubion
Suhadinie Sameera Gamage
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Elroy Kareem McBride
Kelsey Reagan McKay
Kelsey Paulette Munoz
Amani Saeeda Nesmith
Rebekah Faith O'Brien³
Onaye Alexandra Parker
Chelsea Lynn Proffitt²
Mercedes Mariah Rangel
Michael Anthony Samuels
Helen Berhane Shiker
Sheridan Rae Shipley
Haley Lynn Smith³
Richard Devon Thomas
Farhiya Mohammed Yusuf

NUTRITION

Danielle Lina Beaudoin³
Hayley Elizabeth Brock
Blake Jerrod Brockman
Hunter Paige Deming
Kendra Shanice Smith
Jaycie Nicole Willer

NUTRITIONAL SCIENCES AND DIETETICS

Rachel Rennie Brown
2nd Degree: Music
D'laine Donnell

RESTAURANT, HOTEL, AND INSTITUTIONAL MANAGEMENT

Arman Abbassi
Paul James Andress
Kelsey Lynn Carpenter
Ryan Romero Catano
Madison Elaine Fare
Hunter R. Griffin
Kerri Ann Laginess
Faith Nicole Lewis
Megan Raye Loudermilk
Chelsey Shea Means
Gareth Michael Noel
Yash Kirti Patel
Michael Philip Rawls
Naomi Elizabeth Snider¹
Ethan Wilson

RETAIL MANAGEMENT

Lexi Rae Bader
Kaitlyn Elizabeth Evans
Alicia Elizabeth Hinze
Sarah Sharman Muller
Alyssa Lauren Taft



BACHELOR OF ARTS

ADVERTISING

Austin Jonathan Adams
 Lauren Lee Canale
 Taylor Jake Elkins
 Andrew Patrick Harper
 Jacob Nathan Head
 Alen Jacob
 Melanie Rose Martin
 Megan Tyler Russell
 Sydney Cherie Spiegel

COMMUNICATION STUDIES

Riley Elizabeth Arrott
 Bryan James Bott
 Kylie J'Nae Boyd²
 Asher Christine Dalglish
 Robert L. Eschenburg IV
 Julia Jordan Greene²
 Mason Charles Hicks
 Jose Luis Melendez
 Madissen Brielle Seale
 Emily Caroline Wiley
 Julia Marget Wilkerson

ELECTRONIC MEDIA AND COMMUNICATIONS

Kinsey Elizabeth Akins
 Nathan Andrew Bell
 Mitchell A. Boullt
 Thomas William Briggs
 Taylor Aaron Dees
 Joshua William Engard
 Cody Alexander England
 Nicholas Scott Goodfellow
 Max Douglas Herber
 Molly McDowell Jamison
 Timothy Duane Koerner
 Jamie Lynn Lassiter
 Robert Montes
 Ryan David Ordmandy²
 Andrea Mary Pletcher
 Carlos Joel Rojas
 Karson Brienne Scharold
 Ciara Christine Stamper
 Desiree Alyssa Trevino
 Evan J. Wilson

JOURNALISM

Kristen Jo Barton
 Kodichi Kimberly Lawrence
 Brice Elliott Paterik

MEDIA STRATEGIES

Ariel Raquel Enchinton
 Jacob Abraham Kline
 Ryan Michael Kravik
 Nicholas Martin Majka
 Matthew Ric Martinez
 Thomas Cronin McCarthy
 Alyssa Caitlin McCoy³
 Jordan Ryan Vines
 Brenda Alejandra Wallace
 Gwendolyn Nichole Wright
 Matthew F. Young

PUBLIC RELATIONS

William Austin Aldama
 Danny Paul Antoine II
 Mackenzie Lee Belz
 Daisy Clementine Bernet
 Alexandra Lee Hansen
 Kaden Michail Harper
 Holley Elizabeth Jacobson³
 Kerri Jeanine Kirkpatrick
 Valerie Tani Lauderdale
 Chelcye Bryjon Matticks
 James Michael McIlwain
 Margaret Rose Mullins
 Justin Ray Palacios
 Morgan Rose Perkins
 Savannah Paige Peterson
 Alyssa Rene Shaw
 Brandi Sara Smith
 Hailey Ann Willingham



BACHELOR OF ARTS

UNIVERSITY STUDIES

Kesley Loy Agan²
 Alexis Kate Baker¹
 Jade Marie Cabrero
 Mackenzie Lewis Cary
 Tory Michael Duda
 Jacob Wayne Duffee
 Anthony Jacob Flores
 Courtney Anne Gerig
 Jonathan J. Gill²
 Stormi Ra'Celle Harvey-Riedel
 Amanda Kaye Henderson²
 Marquisha Monét Jeng
 Malik Dupree Jenkins
 Victoria Jane Johs
 Kimberly Renee Jozwiak
 Kagan Rae Massey
 Silvia Ivette Nuñez
 Emor Ann Osborn³
 Josue Renteria
 Travis Alton Rhodes
 Andrew Justin Ruffin
 Vincent Allen Shoup
 Mandy BreAnn Smith
 Angelica Honesto Tarango
 Matthew Maguire Temple
 Cooper Alec Turner
 Alexis Nicole Urquhart
 Gabriel Valles

BACHELOR OF SCIENCE

UNIVERSITY STUDIES

Luis Casares
 Barrett Duncan
 Kyle M. Eggemeyer
 Chase Philip Eubanks
 Deana Leigh Fleming
 Grant Matthew Greenblum
 Jonathan Hernandez
 Andrew Dale Keaton
 Harrison Robert King

Hector Eduardo Lafuente
 Jade Elizabeth Liebman
 Velia Elizabeth Mendoza
 Blaine Thomas Mitchell
 Timothy Killian Moore
 Shannon Michelle Oleson²
 Raul Antonio Perez
 Turner Julian Sparks
 Ashley Marie Sursely¹
 Bailey Elaine Wutrich

WIND ENERGY

Zachary Alexander Barnes
 Bryson Cole Beatty
 Gary Michael Bunch
 Tucker Berry Eagle
 William John Frame
 Caleb Timothy Lawson³
 Jaudat Ahmed Mumtaz³
 Victor Manuel Ovalle Jr.
 Jeremy Ross Overby
 Steven Zachary Precopia
 Zackery Tyler Renshaw
 Andres Rico
 Christian Alexander Wharton



BACHELOR OF ARTS

DANCE

Kathryn Lea Parker

MUSIC

Alec Lee Williams²

THEATRE ARTS

Brittainee Tra'Shon François-Hearne

BACHELOR OF FINE ARTS

ART

Lindsey Nicole Gomez
 Brayden Nicholas Hurley
 Ashlea Sarepta McCleskey
 LeRon Lee Wilson

THEATRE ARTS

Alexis Jordan Qaiyyim
 Kyle Anthony Williams

BACHELOR OF MUSIC

Desiray Correa
 Grant Alexander Easdon
 Ashley Lynn Piatkowski
 Jennie Eujin Sung
 Avery Elyse Turner²
 Christa Nichole White³

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-right quadrant, a book symbolizes religion and academic traditions. A star in the upper-left corner stands for the Lone Star State of Texas. In the lower left a key represents home, and in the lower right the lamp of knowledge indicates the primary mission of Texas Tech University: “To develop and advance knowledge.” Above the shield, an eagle, the national bird of the United States, spreads its wings. Mindful of the claims of all these constituencies, the faculty of the university create, transmit, and preserve knowledge.

The **College of Agricultural Sciences & Natural Resources** was one of the four founding schools of the university in 1924. The college banner was redesigned



for use in the May 2005 graduation. Dr. Marvin Cepica, former dean of the college, developed the design with approval and input from the College Marketing Committee. The background color, maize, was established by the Intercollegiate Code to

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

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



The blue background color of the **College of Education** banner reflects the light blue color designated for education by the Intercollegiate Code and is also seen in the velvet border of education master’s and doctoral hoods and doctoral gowns. The upper area of the banner carries a school building encircled by the words “College of Education” and “Scholarship, Leadership, Service” to



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

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



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



The **Graduate School** banner is blue. Imposed on this background is a white circle within a light blue one. These circles contain the image of a golden open book and a burning lamp. The open book symbolizes knowledge and the lamp represents a light by which to study. The banner was designed by the late Associate Dean Thomas Langford and Ms. Beth Cain, who was a Graduate School staff member and artist for many years.



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



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

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

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

bottom of the banner are the words in gold: "University Honors College."

The **College of Human Sciences** banner was redesigned in 2016 and adapted from an original design by former faculty member Dr. Ben Goh. The design depicts a woman, 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.

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.



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.

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.

TEXAS TECH TRADITIONS

Who's Sitting on a Horse? (And Why Is He Red?)

Will Rogers was one of the most famous entertainers in America in the 1920s and '30s, and his longtime friend, Amon Carter, was Texas Tech's first chairman of the Board of Directors. Rogers donated \$200 for the Texas Tech band to play at the football game against TCU in 1926 because he wanted people "to hear a real band." Then the cowboy humorist donated \$1,500 to buy band uniforms for the trip to Fort Worth. A few years after Rogers perished in a plane crash, Carter presented the statue of Rogers and his horse, Soapsuds, to Texas Tech. Sculpted by 18-year old Electra Waggoner Biggs, the statue is one of four in the nation. Before every home game, the Saddle Tramps wrap "Old Will" with red crepe paper. The statue also has been wrapped in black to mourn national tragedies.



Raider Red or the Masked Rider?

Not every university wants a horse in its stadium, so Texas Tech had to find an alternate mascot prior to the 1971 football season. That was the year the school's athletic conference passed a rule that prevented taking live animals to non-home games. That also was the year Raider Red was born from the imagination of cartoonist Dirk West. Raider Red changes from boots to soft-soled shoes for basketball games, and his student persona is kept a secret as he mingles with the crowds.



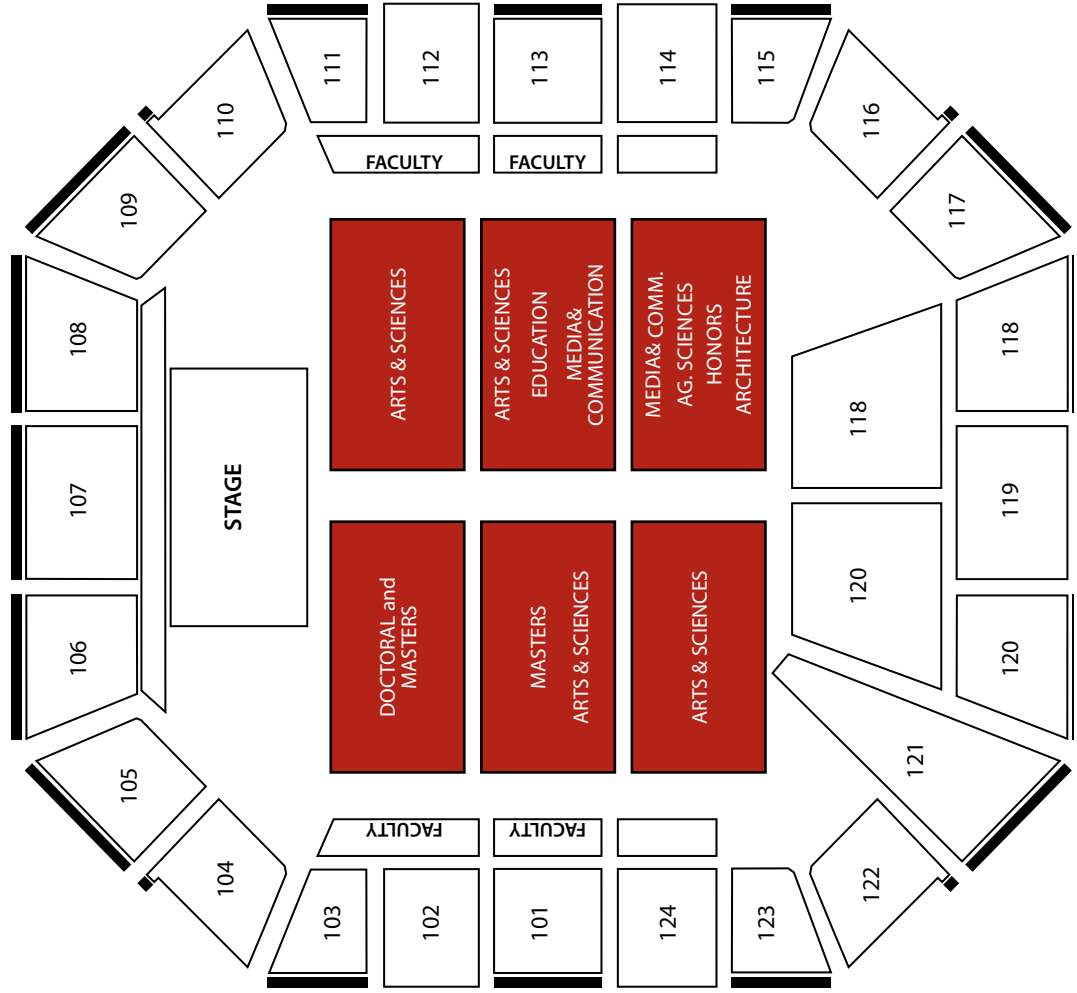
The Texas Tech Class Ring

As a constant reminder of their academic achievements and the traditions of Texas Tech University, students proudly wear the official Texas Tech class ring. This bronze sculpture of the official class ring sits next to the Merket Alumni Center. Traditionally the rings are worn with the university name facing inward when the students' hands are extended. After the degree is granted on graduation day, the ring can be turned around so that the name faces outward, a symbol that the new alumnus has a Texas Tech diploma and is ready to face the world.

(www.TexasTechRing.org)

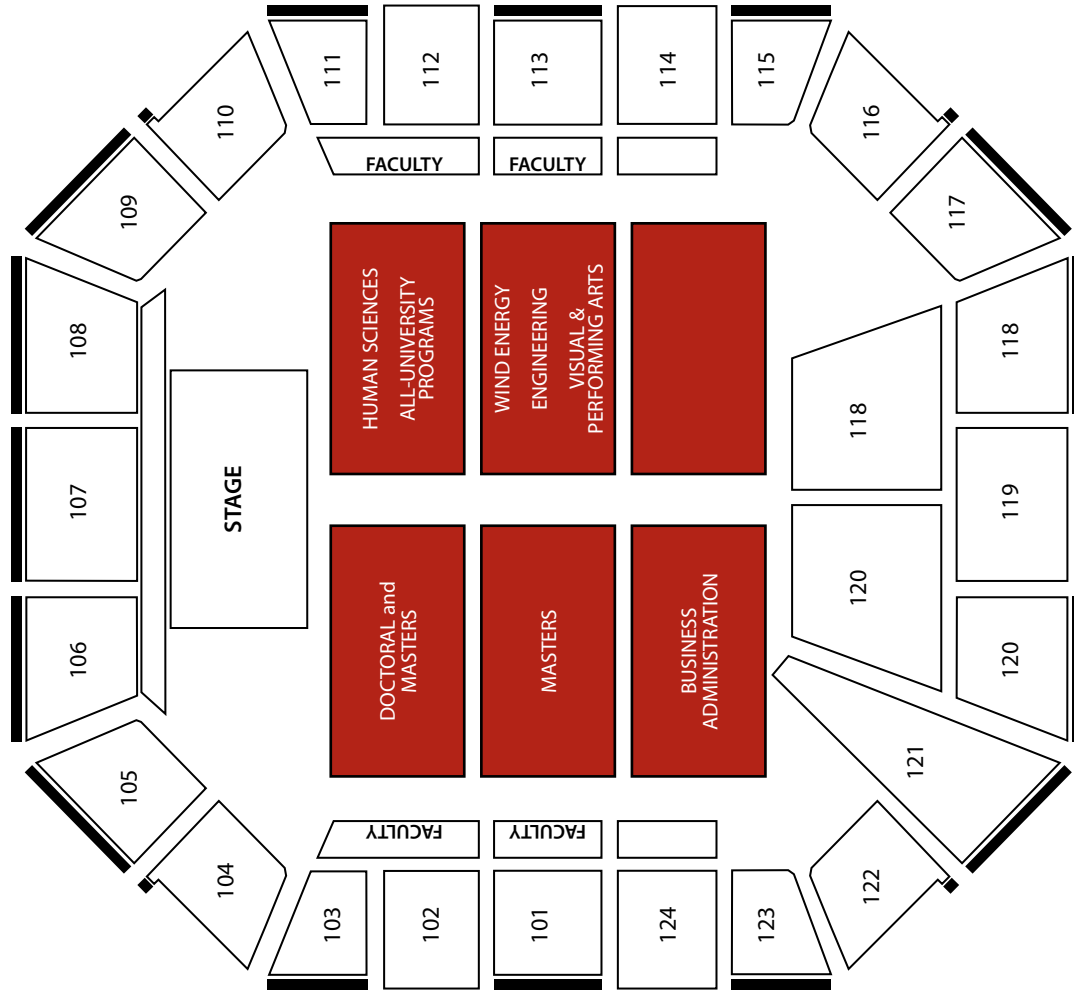


9:00 a.m.

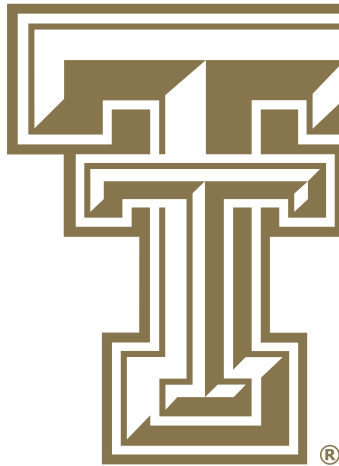


denoted by 

1:30 p.m.



denoted by 



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

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

MATADORS

MUSIC BY
HARRY LEMAIRE
BANDMASTER
TEXAS TECH COLLEGE

Voice

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