



TEXAS TECH UNIVERSITY

Commencement

August 11, 2012



Jim Angle



TEXAS TECH UNIVERSITY
Commencement Ceremony

Saturday, August 11, 2012

UNITED SPIRIT ARENA

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

LUBBOCK, TEXAS

BOARD OF REGENTS

MR. JERRY E. TURNER, CHAIR

Blanco, Texas

MR. MICKEY L. LONG, VICE CHAIR

Midland, Texas

MR. LARRY K. ANDERS

Dallas, Texas

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El Paso, Texas

MRS. DEBBIE MONTFORD

San Antonio, Texas

MRS. NANCY NEAL

Lubbock, Texas

MR. JOHN F. SCOVELL

Dallas, Texas

MR. JOHN D. STEINMETZ

Lubbock, Texas

MR. JOHN B. WALKER

Houston, Texas

MS. SUZANNE TAYLOR

Arlington, Texas

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MISSION STATEMENT

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.

ADMINISTRATION

KENT R. HANCE, J.D.

Chancellor, Texas Tech University System;
Professor of Law

ADMINISTRATIVE OFFICERS

GUY BAILEY, Ph.D.

President

ROBERT SMITH, Ph.D.

Provost and Senior Vice President

KYLE CLARK, M.B.A.

Vice President for Administration and Finance
and Chief Financial Officer

TAYLOR EIGHMY, Ph.D.

Vice President for Research

JUAN S. MUÑOZ, Ph.D.

Vice President for Institutional Diversity,
Equity, and Community Engagement;
Vice Provost for Undergraduate
Education; Associate Professor of Curriculum
and Instruction

MARY LARSON DIAZ, M.S.

Associate Vice President for External
Relations and Strategic Initiatives

DOUG BUCHANAN, M.A.

Associate Vice President for Human
Resources, Special Assistant to the President

ACADEMIC OFFICERS

PEGGY MILLER, Ed.D.

Interim Dean, Graduate School

DARBY DICKERSON, J.D.

Dean, School of Law;
W. Frank Newton Professor of Law

MICHAEL GALYEAN, Ph.D.

Dean, College of Agricultural Sciences and
Natural Resources; Paul Whitfield Horn
Professor and Thornton Distinguished Chair,
Animal and Food Sciences

ANDREW VERNOOY, M.Des.S.

Dean and Professor, College of Architecture

LAWRENCE SCHOVANEC, Ph.D.

Dean, College of Arts and Sciences;
Professor of Mathematics and Statistics

ALLEN T. McINNES, Ph.D., AMP

Dean, Rawls College of Business;
Professor of Business Administration

SCOTT RIDLEY, Ph.D.

Dean, College of Education;
Professor of Education

AL SACCO, JR., Ph.D.

Dean, Whitacre College of Engineering;
Professor of Chemical Engineering

STEPHEN E. FRITZ, Ph.D.

Interim Dean, Honors College

LINDA C. HOOVER, Ph.D.

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

JERRY C. HUDSON, Ph.D.

Dean, College of Mass Communications;
Professor, Advertising and Public Relations

VALERIE PATON, Ph.D.

Interim Dean, University College; Vice Provost
for Planning and Assessment; Associate Professor
of Educational Psychology and Leadership

CAROL D. EDWARDS, Ph.D.

Dean, College of Visual and Performing Arts;
Professor of Art

Everything on a big scale



The university broke its fall enrollment record for the third year in a row with 32,327 students registering for classes. Undergraduate and graduate enrollments reached record highs with 26,063 and 5,566, respectively.



“Everything that is done on these West Texas Plains ought to be on a big scale. It is a country that lends itself to bigness. It is a country that does not harmonize with things little or narrow or mean. Let us make the work of our college fit with the scope of our country. Let our thoughts be big thoughts and broad thoughts. Let our thinking be in worldwide terms.”

Paul Whitfield Horn, First President
1925 Convocation Speech

FROM ITS VERY BEGINNING the Texas Tech University community has had a sense of destiny and of the impact it would have on Texas and the world. Originally named Texas Technological College, the college opened in 1925 with six buildings, four schools and an enrollment of 914. Evolving to university status in 1969, Texas Tech has become the largest comprehensive higher education institution in the western two-thirds of the state of Texas. 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.

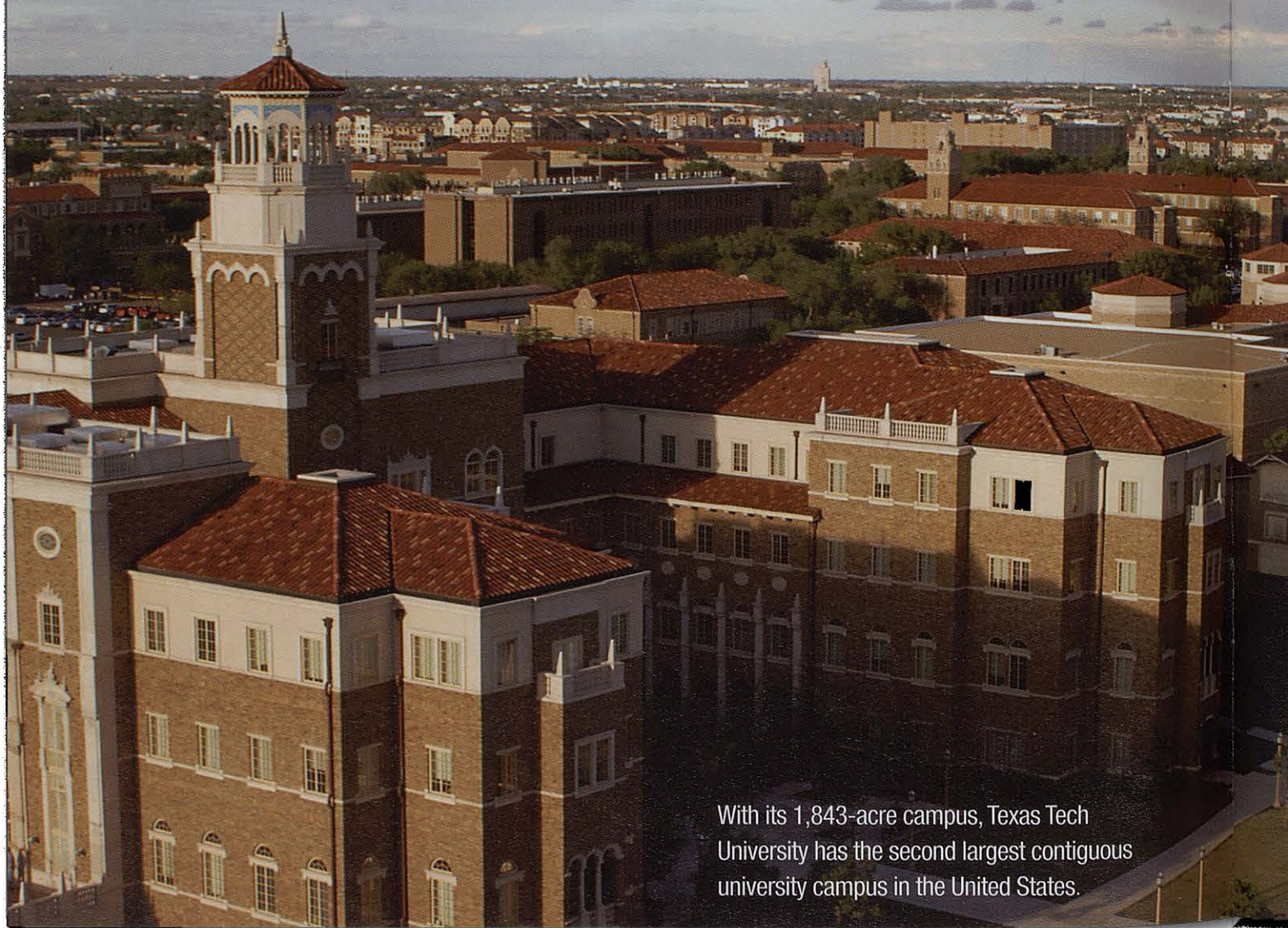
Texas Tech is a state-assisted, multi-purpose university of more than 32,000 students enrolled in 11 colleges—College of Agricultural Sciences and Natural Resources, College of Architecture, College of Arts and Sciences, Rawls College of Business, College of Education, Whitacre College of Engineering, Honors College, College of Human Sciences, College of Mass Communications, University College, and College of Visual and Performing Arts.

The Graduate School and the School of Law provide graduate and professional programs. The Texas Tech Health Sciences Center—a separate institution—shares the Lubbock campus with the university and includes the School of Medicine, School of Nursing, School of Allied Health Sciences, Graduate School of Biomedical Sciences, School of Pharmacy, and Paul L. Foster School of Medicine. The Health Sciences Center has regional campuses in six locations throughout the state.

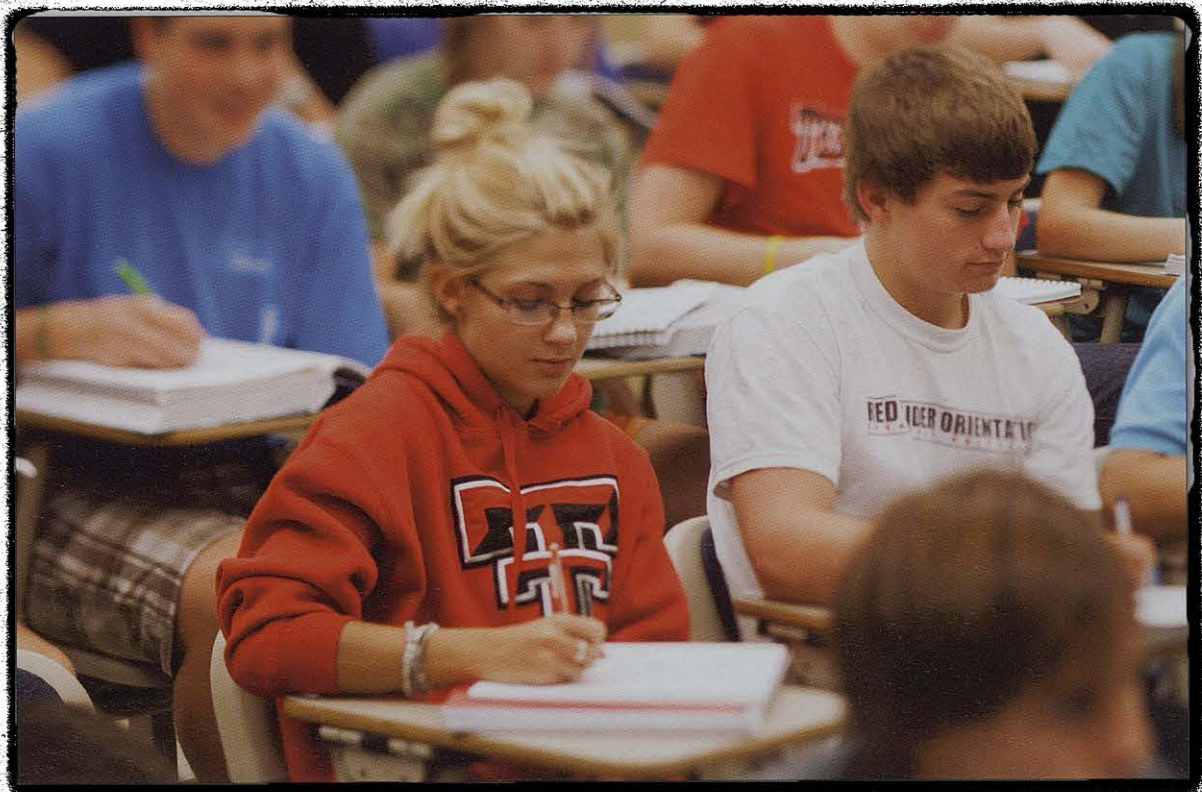
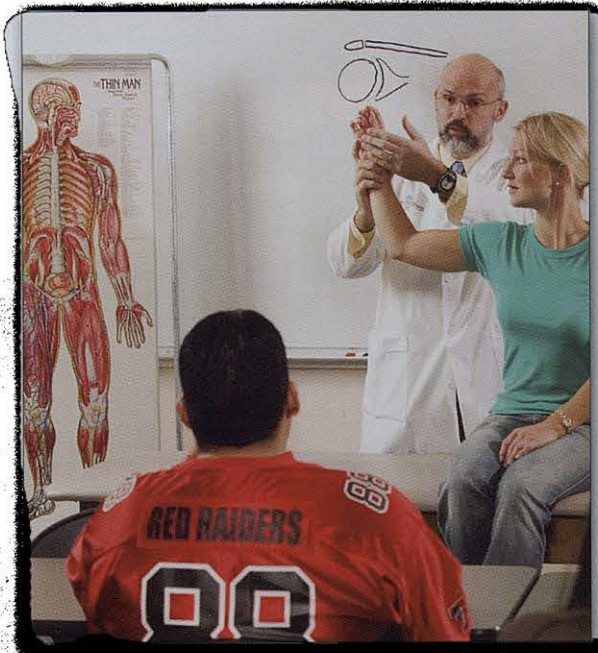
Because of its educational scope and purpose and the size of the region it serves, Texas Tech also operates in numerous Texas locations beyond the Lubbock campus.

TEXAS TECH UNIVERSITY: An Overview

*Shaping the future, impacting the
present, preserving the past*



With its 1,843-acre campus, Texas Tech University has the second largest contiguous university campus in the United States.



*Texas Tech University is a dynamic force
in the economic and cultural life of not only Texas
and bordering states but also West Texas,
a 140,000-square-mile region larger
than Germany or Italy.*



Atrium of Student Union Building

COMMENCEMENT CEREMONY

Saturday, August 11, 2012

9:00 a.m.

Presiding	Dr. Guy Bailey, <i>President</i> <i>Texas Tech University</i>
Processional*	
National Anthem	Ms. Arielle Leah Murphy <i>Graduating with a Bachelor of Music with a Field of Specialization in Music Performance with a Concentration in Voice</i>
Welcoming Remarks	Mr. Jerry E. Turner, <i>Chair, Board of Regents</i> <i>Texas Tech University System</i>
Introduction of Commencement Speaker	Mr. Kent Hance, <i>Chancellor, Texas Tech University System</i>
Commencement Address	Mr. Jim Angle <i>Chief National Correspondent, Fox News Channel</i>
Conferring of Degrees	Dr. Guy Bailey Dr. Robert Smith, <i>Provost and Senior Vice President</i>
Presentation of Doctoral and Master's Degree Candidates	Dr. Peggy Gordon Miller <i>Interim Dean, Graduate School</i>
Presentation of Bachelor's Degree Candidates	Dr. Valerie Paton <i>Interim Dean, University College</i> Dr. Carol Edwards <i>Dean, College of Visual and Performing Arts</i> Mr. Allen T. McInnes <i>Dean, Rawls College of Business</i> Dr. Al Sacco, Jr. <i>Dean, Edward E. Whitacre Jr. College of Engineering</i> Dr. Linda C. Hoover <i>Dean, College of Human Sciences</i>
Recognition of Outstanding Students Class of 2012	Dr. Robert Smith, <i>Provost and Senior Vice President</i>
Charge to the Graduates	Dr. Guy Bailey
Alma Mater (Words on Back Cover)	Ms. Arielle Leah Murphy
Recessional*	

* Please remain seated during the Processional and Recessional

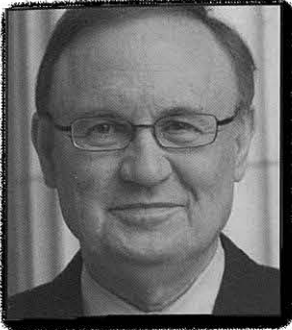
COMMENCEMENT CEREMONY

Saturday, August 11, 2012
1:30 p.m.

Presiding	Dr. Guy Bailey, <i>President</i> <i>Texas Tech University</i>
Processional*	
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Presentation of Doctoral and Master's Degree Candidates	Dr. Peggy Gordon Miller <i>Interim Dean, Graduate School</i>
Presentation of Bachelor's Degree Candidates	Dr. Michael Galyean <i>Dean, College of Agricultural Sciences and Natural Resources</i> Mr. Andrew Vernooy <i>Dean, College of Architecture</i> Dr. Scott Ridley <i>Dean, College of Education</i> Dr. Jerry Hudson <i>Dean, College of Mass Communications</i> Dr. Lawrence Schovanec <i>Dean, College of Arts and Sciences</i>
Recognition of Outstanding Students Class of 2012	Dr. Robert Smith
Charge to the Graduates	Dr. Guy Bailey
Alma Mater (<i>Words on Back Cover</i>)	Ms. Arielle Leah Murphy
Recessional*	

* Please remain seated during the Processional and Recessional

COMMENCEMENT SPEAKER



JIM ANGLE

Chief National Correspondent
FOX News Channel

JIM ANGLE joined FOX News Channel (FNC) in 1996 and has served as the network's chief national correspondent since January 2012. Angle served previously as FNC's chief White House correspondent reporting on overall political news from Washington, D.C., as well as broader issues, including social security and tax reform. Prior to this position, Angle served as the network's senior White House correspondent. In this capacity, he was responsible for reporting on presidential activities nationally and internationally. Before joining FOX News, Angle was a correspondent at CNN covering politics and the economy. He also worked as a correspondent for ABC News, where he reported on economic policy and contributed to "World News Tonight," "Nightline," and "Good Morning America." From 1990 to 1993, Angle anchored the popular national program "Marketplace," a daily half-hour National Public Radio (NPR) program on money and business. He spent seven years as NPR's senior White House correspondent covering both the Reagan and Bush administrations. Renowned columnist Nat Hentoff praised Angle as "one of the most fair, incisive, and informed investigative reporters on the Washington scene." Angle has received numerous awards and honors for his reporting, including twice being honored with the Merriman Smith Memorial Award presented by the White House Correspondents' Association for outstanding presidential news coverage under deadline pressure. He also received the "Excellence in Financial Journalism Award" twice for his reporting on economic issues on "Nightline."

RECEPTION

COLLEGE OF ARCHITECTURE RECEPTION

Immediately After Commencement Ceremony | Architecture Gallery

PRESIDENTIAL MACE

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

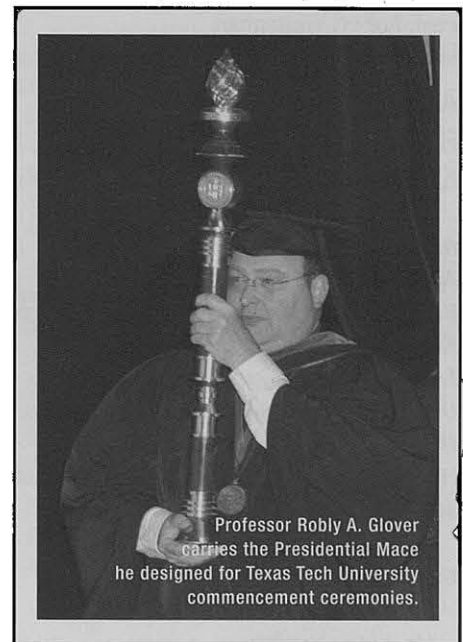
MACE BEARERS

9:00 a.m.

Russell N. James III, J.D., Ph.D., CFR
Associate Professor and CH Foundation
Chair in Personal Financial Planning
Department of Personal Financial Planning
College of Human Sciences

1:30 p.m.

Fernando Valle, Ph.D.
Assistant Professor
Department of Educational Psychology and
Leadership
College of Education



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

ACKNOWLEDGEMENTS

CONVOCATIONS COMMITTEE

Mr. Tom Rohrig, Chairperson
 Ms. Laura Heinz, Co-Chair
 Dr. Mary Frances Agnello
 Dr. Cindy Akers
 Dr. Amma K. Akrofi
 Dr. Devender Banda
 Ms. Shelley Barba
 Dr. Shane Blum
 Dr. Rhonda Boros
 Dr. Ronald Bremer
 Dr. Scott Burris
 Dr. James Bush
 Dr. Jamie Cooper
 Dr. Fannie Coward
 Dr. Mukaddes Darwish
 Dr. Patricia Delucia
 Dr. Charlotte Dunham
 Dr. Kristi Gaines
 Dr. Gary Elbow
 Ms. Peggy Flores
 Dr. Lynn Huffman
 Dr. Carole Janisch
 Mr. Rahul Kanungoe
 Dr. Natalia Kolyesnikova
 Dr. David Lamp
 Dr. Robin Lock
 Ms. Janice Lupton
 Dr. Aretha Marbley
 Dr. Jonathan Marks
 Dr. Barent McCool
 Dr. Robert McDonald
 Dr. Comfort Pratt
 Ms. Carrye Syma
 Dr. Susan Tomlinson
 Dr. Kevin Wass
 Ms. Caroline Weir
 Prof. Robert Wernsman
 Dr. Aliza Wong

ADMINISTRATIVE REPRESENTATIVES

Agricultural Sciences and Natural Resources
 Ms. Ramona Johnson
Architecture – Ms. Anna Martinez-Lopez
Arts and Sciences – Ms. Kim Mills
Business Administration – Ms. Geleah Sharp
Education – Dr. Rosita Moore
Engineering – Ms. Pearl Trevino
Graduate School – Ms. Lora Lopez
Honors College – Ms. Janet Veal
Human Sciences – Ms. May Lim
Mass Communications –
 Dr. Marijane Wernsman
University College – Mr. Ryan Davis
Visual and Performing Arts –
 Ms. Kathy Nordstrom

COLLEGE READERS

Agricultural Sciences and Natural Resources
 Dr. Erica Irlbeck
Architecture – Prof. Michael Martin
Arts and Sciences – Dr. David Roach
Business Administration – Dr. Robert McDonald
Education – Dr. Peggy Johnson
Engineering – Mr. Derrick Ginter
Graduate School – Mr. William Gelber
Human Sciences – Dr. Jeffrey Taylor
Mass Communications – Prof. Robert Wernsman
University College – Dr. Marcus N. Tanner
Visual and Performing Arts –
 Dr. William Gelber

BANNER BEARERS

Agricultural Sciences and Natural Resources – Mr. William Clay Burson
Architecture – Mr. John Paul Barrandey
Arts and Sciences – Mr. Richard Alan Lewis
Business Administration – Mr. Kyle Andrew Rose
Education – Ms. Valentina Arizola Salinas
Engineering – Mr. Jake Andrew Casey-Snyder
Graduate School – Mr. Matthew Dean
 Brown (9 a.m.), Ms. Rosa Herlinda Gallegos (1:30 p.m.)
Honors – Ms. Taylor D. Sandy (9 a.m.) and
 Ms. Marylyn L. Mathew (1:30 p.m.)
Human Sciences – Ms. Michelle Lucille Ortiz
Mass Communications – Mr. Samuel Alexander Moore
University College – Ms. Lana Argomaniz
Visual and Performing Arts – Ms. Natanya Chantelle Ridley

FACULTY BANNER BEARERS FOR CEREMONIES

9:00 a.m. – Sang-Wook Bae, Ph.D.,
 Assistant Professor, Department of Civil
 and Environmental Engineering, Whitacre
 College of Engineering

1:30 p.m. – Samuel D. Prien, Ph.D.,
 Professor, Department of Animal and Food
 Sciences, College of Agricultural Sciences
 and Natural Resources

GRADUATION HONORS

Graduating seniors who have maintained an
 overall 4.00 GPA include the following:

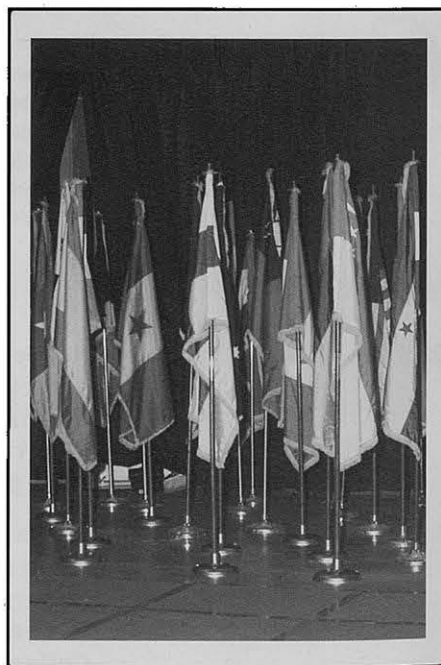
Andrew David Allbritton
 William Clay Burson
 Pearl Puiimun Chan
 Rebecca Ann Leiko
 Michelle Lucille Ortiz
 Natanya Chantelle Ridley
 Valentina Arizola Salinas

HONOR CORDS/MEDALLION

Agricultural Sciences and Natural Resources | Green
Architecture | White and Gold
Arts and Sciences | Royal Blue
Business Administration | Royal Blue
 and Gold
Education | Jade Green and Violet
Engineering | Orange
Honors | Honors Medallion
Human Sciences | Maroon
Mass Communications | Crimson
University College | White
Visual and Performing Arts | Brown

INTERNATIONAL FLAGS

From earliest times flags have served as
 symbols of ideals, aspirations, and loyalties,
 representing in modern times the national
 states and involving sentiments of pride and
 patriotism. Every flag has its own tale of
 national meaning to its symbols and colors.
 Students from every state in the nation have
 attended Texas Tech, and the fall 2011 enroll-
 ment included international students from
 64 countries. It is with pride that the univer-
 sity displays the colors of those countries that
 have representatives among its students.



Graduate School

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

BYNUM BLAKE HIGHTOWER, San Angelo, TX

(In absentia)

DISSERTATION: Response to Mandated Change in Schools: Stages of Concern for Teachers in the First and Second Year of CSCOPE Curriculum Implementation

MAJOR PROFESSOR: Clint Carpenter

JOHN LAMAR HORAK, Midland, TX (In absentia)

DISSERTATION: A Content Analysis of the Career Path and Cultural Capital of Mexican-American Male Principals: A Critical Race Discourse on the Journey toward the Principals

MAJOR PROFESSOR: Fernando Valle

LAURA YVONNE SANCHEZ-PORTILLO, Presidio, TX

DISSERTATION: Latina Superintendents in Texas: A Case Study of Career Paths, Influences, and Motivation

MAJOR PROFESSORS: Sylvia Mendez-Morse

TRACY LYNN TAYLOR, Odessa, TX

DISSERTATION: Little Ladies Should Be Seen and Not Heard: A Study of Gender Bias in Communication of Female Educational Leaders

MAJOR PROFESSOR: Sylvia Mendez-Morse

SPECIAL EDUCATION

NICOLE MARIE JOHNSON, Ashland, PA (In absentia)

DISSERTATION: The Effects of Wait Time When Communicating with Students Who Have Dual Sensory Impairments and/or Multiple Disabilities

MAJOR PROFESSOR: Roseanna Davidson

LARRY KEITH PHILLIPPE, Lubbock, TX

DISSERTATION: Faculty Perceptions of College Students with Attention Deficit Hyperactivity Disorder

MAJOR PROFESSOR: Robin Lock

AMANDA NICOLE MEANS-QUINE, Midland, TX

DISSERTATION: The Use of Functional Communication Training in the Classroom to Decrease Maladaptive Behaviors and Increase Communicative Responses in Children with Autism

MAJOR PROFESSOR: Robin Lock

LORNA KATHLEEN SHERIFF, Austin, TX

DISSERTATION: Parent and Teacher Perceptions of Challenging Behavior in Their Children and Students with Charge Syndrome

MAJOR PROFESSORS: Roseanna Davidson and Deann Lechtenberger

KATHRYN JEANNE BOSTIC TUCKER, Lubbock, TX

DISSERTATION: A Descriptive Study of Educational Professionals' Knowledge of Transition Assessment for Individuals with Intellectual Disabilities

MAJOR PROFESSOR: Robin Lock

ASHLE BROOKE WILSON, Albuquerque, NM

DISSERTATION: Elementary Deaf Education Teachers' Perceptions of Inclusion: A Case Study

MAJOR PROFESSOR: Roseanna Davidson

DOCTOR OF MUSICAL ARTS

MUSIC

MYUNGMI KANG, Seoul, South Korea (In absentia)

WONKYUNG KIM, Busan, South Korea

JEREMY DANIEL LEWIS, Amarillo, TX

KEVIN MICHAEL NADOLSKI, Sterling Heights, MI (In absentia)

ANNE LAUREN RUDOLPH, Centennial, CO

DOCTOR OF PHILOSOPHY

AGRICULTURAL AND APPLIED ECONOMICS

BAHTIYAR BABANAZAROV, Gorurdak, Turkmenistan

DISSERTATION: Essays on Mergers and Acquisitions (M&A), Joint Ventures, and Long-Term Firm Performance and Idiosyncratic Risk

MAJOR PROFESSOR: Darren Hudson

MOUZE MULUGETA KEBEDE, Dire Dawa, Ethiopia

DISSERTATION: Three Essays on Estimation of Chinese Textile Demand and Its Implications for the World Cotton Market

MAJOR PROFESSOR: Darren Hudson

KELLY YVONNE LANGE, Lubbock, TX

DISSERTATION: Succession in Multi-Generational Family Farm Businesses

MAJOR PROFESSORS: Phillip Johnson and Jeffrey Johnson

AGRICULTURAL COMMUNICATIONS AND EDUCATION

GAEA ASHLEY WIMMER, Fulton, KS

DISSERTATION: Cooperating Teachers' Use of the Situational Leadership® II Model: The Influence of Follower Development on Student Teachers' Satisfaction and Intent to Teach

MAJOR PROFESSOR: Todd Brashears

BUSINESS ADMINISTRATION

SUNHEE CHOI, Chunbuk, South Korea (In absentia)

DISSERTATION: Corporate Social Responsibility Market Performance: A Longitudinal Study of Retail Product Category

MAJOR PROFESSOR: Dale Duhan

HAN MO OH, Kwangju, South Korea

DISSERTATION: Export Partnerships: Key Factors Affecting Positional Advantage

MAJOR PROFESSOR: Dennis Arnett

GRADUATE CANDIDATES

DARA GALE SCHNIEDERJANS, Lincoln, NE
(In absentia)

DISSERTATION: Exploring Relationships among Cloud Computing, Trust and Information Sharing and Their Impact on Supply Chain Performance: A Two-Stage Empirical Study
MAJOR PROFESSOR: Qing Cao

NAGA VENKATA VINJAMURY, Tirupati, India
DISSERTATION: Two Essays on Information Asymmetry and Corporate Governance
MAJOR PROFESSOR: Scott Hein

BIOLOGY

RONGBIN HU, Jiangxi Province, China
DISSERTATION: TAP46 and Protein Phosphatase 2A Plays a Positive and Negative Role, Respectively, in ABA Regulated Gene Expression
MAJOR PROFESSOR: Hong Zhang

FAN JIA, Nanjing, China
DISSERTATION: Genetic Interactions between RNA Interference and Absciscic Acid Response Pathways
MAJOR PROFESSOR: Christopher Rock

CHEMICAL ENGINEERING

FATEMA BEGUM, Dhaka, Bangladesh
DISSERTATION: The Effects of Nanoconfinement on the Kinetics and Thermodynamics of Free Radical Polymerization Reactions
MAJOR PROFESSOR: Sindee Simon

CHEMISTRY

PENG LI, Tianjin, China
DISSERTATION: Development of Microfluidic Devices for Cell-Based Analysis
MAJOR PROFESSOR: Dimitri Pappas

YAN LIU, Jiangsu, China
DISSERTATION: Microfluids for Cell Analysis
MAJOR PROFESSOR: Dimitri Pappas

HAO TANG, Hunan, China
DISSERTATION: Microvolume Chemical Analysis of Atmospheric Gases and Aerosols
MAJOR PROFESSOR: Jonathan Thompson

YU TIAN, Fuxin City, China
DISSERTATION: Forster Resonance Energy Transfer (FRET) between Phycobiliproteins and Tandem Conjugates
MAJOR PROFESSOR: Dimitri Pappas

CIVIL ENGINEERING

CUI LIU, Qingdao, China
DISSERTATION: Energy Analysis and System Modeling of Reverse Osmosis Desalination Process
MAJOR PROFESSOR: Lianfa Song

COMPUTER SCIENCE

"FORREST" SHENG BAO, Nanjing, China
DISSERTATION: Temporal Planning Using Answer Set Programming and Constraint Logic Programming
MAJOR PROFESSOR: Yuanlin Zhang

EDDY CHARTIER BORERA, Mahajanga, Madagascar
DISSERTATION: Applying Partially Observable Markov Decision Processes to Anesthesia Control: A Simulated Study
MAJOR PROFESSOR: Larry Pyeatt

DANIELA INCLEZAN, Cluj-Napoca, Romania
DISSERTATION: Modular Action Language ALM for Dynamic Domain Representation
MAJOR PROFESSOR: Michael Gelfond

COUNSELOR EDUCATION

LEIGH ANNE GREEN, Lubbock, TX
DISSERTATION: Identity and Meaning Making of Student Veterans Transitioning to College
MAJOR PROFESSOR: Loretta Bradley

CURRICULUM AND INSTRUCTION

AMY LEANNE FLUSCHE CARLSON, Hereford, TX
DISSERTATION: Read-Alouds and Technology in a Fifth Grade Social Studies Classroom
MAJOR PROFESSORS: Rene Saldana and Reese Todd

THOMAS EDWARD HOLUBIK, Stonewall, TX
DISSERTATION: Alumni's Perceptions of the Advancement via Individual Determination (AVID) College Readiness System
MAJOR PROFESSORS: Douglas Simpson and Sally McMillan

HEEJIN SON, Seoul, South Korea
DISSERTATION: Early Literacy Instruction and Assessment in One ESL Pullout Classroom
MAJOR PROFESSORS: Amma Akrofi and Carole Janisch

THOMAS ARON STRICKLAND, Lubbock, TX
DISSERTATION: Planning for Practice: Descriptive Case Studies of Two Texas School Principals Who Have Implemented *The Breakthrough Coach*
MAJOR PROFESSORS: Douglas Simpson and Margaret Price

YAN ZHANG, Shanghai, China
DISSERTATION: A Meta-Analysis of the Effects of Higher Cognitive Questions on Students' Academic Achievement: Implications for Teacher Educators
MAJOR PROFESSOR: Shirley Matteson

ELECTRICAL ENGINEERING

ENRIQUE CORONA, Puebla, Mexico
DISSERTATION: Unsupervised Learning Methods: An Efficient Clustering Framework with Integrated Model Selection
MAJOR PROFESSOR: Brian Nutter

CAMERON VAN NESS HETTLER, Lubbock, TX
DISSERTATION: High Voltage Silicon Carbide Photoconductive Semiconductor Switches
MAJOR PROFESSOR: James Dickens

YAN LI, Suzhou, China
DISSERTATION: Highly Efficient and Linear SiGe BiCMOS Power Amplifiers Using Envelope-Tracking for Mobile Broadband Wireless Communications
MAJOR PROFESSOR: Donald Y.C. Lie

SAHIL OAK, Indore, India
DISSERTATION: Design, Test, and Characterization of Microelectromechanical Systems
MAJOR PROFESSOR: Timothy Dallas

MUNEEM SHAHRIAR, Al-Ain, United Arab Emirates
DISSERTATION: Feature-Based Transfer Learning in Novel Systems
MAJOR PROFESSOR: Hamed Sari-Sarraf

TRAVIS TODD VOLLMER, Austin, TX
DISSERTATION: Evolution of Current Mode Control Approaches for Implementation in Rapid Capacitor Charger Technology
MAJOR PROFESSOR: Michael Giesselmann

JOHN WILLIAM WALTER, Lubbock, TX
DISSERTATION: Development of a Compact Vircator High Power Microwave Source
MAJOR PROFESSOR: James Dickens

ENGLISH

CATHERINE SHERMAN BLACKWELL, Austin, TX
(In absentia)
DISSERTATION: Literary Critique, Gender Combat, and *The Gentleman's Magazine*: The Seward-Weston Debate, 1789-91
MAJOR PROFESSOR: Ann Hawkins

JOSEPH CLARK FRANKLIN, Beaverton, OR
DISSERTATION: Touching Other People: Essays in Empathy
MAJOR PROFESSOR: Jill Patterson

RUBEN MARIANO QUESADA, Los Angeles, CA
(In absentia)
DISSERTATION: The Personality of the Planet: Original Poems
MAJOR PROFESSOR: Jacqueline Kolosov-Wenthe

RONJA VIETH, Braunschweig, Germany
DISSERTATION: The Genealogy of Guilt in American Gothic Literature
MAJOR PROFESSOR: Sara Spurgeon

ENVIRONMENTAL TOXICOLOGY

SHIBIN LI, Inner Mongolia, China
DISSERTATION: A Study of Environmental Fate and Application of Commercially Available Carbon Nanotubes
MAJOR PROFESSOR: Jaclyn Canas

FINE ARTS

NADIA CHANDRA BODIE, Nassau, Bahamas
DISSERTATION: Cross-Cultural Casting: Case Studies on the Academic Stage
MAJOR PROFESSOR: James Bush

EUN KYUNG JEONG, Busan, South Korea
(In absentia)
DISSERTATION: Collaborative Public Art Making: The Tapestry Project
MAJOR PROFESSOR: Ed Check

EDWIN MAURICE EUGENE SMITH, Warwick, Bermuda
DISSERTATION: How the People Feel: Visual Art and Socio-Political Activity in Bermuda 1959-2009
MAJOR PROFESSOR: Kevin Chua

ANTHONY GEORGE VALENTINE, Safety Harbor, FL
(In absentia)

DISSERTATION: Acting for the Camera Made Simple: A Pedagogical Methodology for Acting for the Camera Based on a Model of Interpersonal Communication

MAJOR PROFESSOR: James Bush

GEOSCIENCES

NOLWENN COINT, Concarneau, France

DISSERTATION: Assembly and Evolution of the Wooley Creek Batholith: Evidence from Mineral Compositions and U-Pb Geochronology

MAJOR PROFESSOR: Calvin Barnes

ZHIHUI ZOU, Shandong, China

DISSERTATION: A Seismologic Study of the Three-Gorges Reservoir (TGR) Region, China

MAJOR PROFESSOR: Hua-Wei Zhou

HIGHER EDUCATION

ROSA HERLINDA GALLEGOS, Brownfield, TX

DISSERTATION: Latina Administrators in Four-Year Public Universities: A Study in Adaptability

MAJOR PROFESSOR: Sylvia Mendez-Morse

HISTORY

CHRISTOPHER DAVID THRASHER, Hartselle, AL

DISSERTATION: A Saving Touch of Barbarism: A History of American Fight Sports 1607-2005

MAJOR PROFESSOR: Randy McBee

HALEN J. WATKINS, San Angelo, TX

DISSERTATION: A Rough Pitch: An Exploration of Soccer and Society in Texas Since the 1960s

MAJOR PROFESSOR: Randy McBee

HOSPITALITY ADMINISTRATION

CHRISTINA KLEARCHOU DIMITRIOU, Larissa, Greece

DISSERTATION: The Impact of Hotel Business Ethics on Employee Job Satisfaction, Organizational Commitment, and Employee Intention

MAJOR PROFESSOR: Shane Blum

HYOJIN KIM, Seoul, South Korea

DISSERTATION: Economic Impacts of the Hotel Industry in Texas: An Input-Output Analysis

MAJOR PROFESSOR: Ben K. Goh

KWANGWOO LEE, Seoul, South Korea

DISSERTATION: Strategic Evaluation of Usefulness: A Study of Online Travel Agency Users' Perceptions

MAJOR PROFESSOR: Ben K. Goh

HUMAN DEVELOPMENT AND FAMILY STUDIES

CHERYL A. JUERGENS, Bozeman, MT (In absentia)

DISSERTATION: A 25-Year Life Course Investigation from Emerging to Middle Adulthood of Associations of Gender Characteristics with Fitness and Health Outcomes

MAJOR PROFESSOR: Judith Fischer

SHERA C. THOMAS-JACKSON, Slaton, TX

DISSERTATION: Factors Associated with Breastfeeding Self-Efficacy: Maternal Depression, Infant Weight Gain and Milk-Intake

MAJOR PROFESSOR: Sybil Hart

MARRIAGE AND FAMILY THERAPY

MATTHEW DEAN BROWN, Lacey, WA

DISSERTATION: Dyadic Coping, Relationship Satisfaction, and Parenting Stress among Parents of Children with an Autism Spectrum Disorder: The Role of the Couple Relationship

MAJOR PROFESSOR: Jason Whiting

HYE JIN KIM, Gong-Ju, South Korea

DISSERTATION: Differentiation and Healthy Family Functioning

MAJOR PROFESSOR: Anne Prouty

MASS COMMUNICATIONS

SUNGWON CHUNG, Seoul, South Korea

DISSERTATION: Motivated Cognition in Video Games: The Influence of Emotional Video Game Content on Cognitive Processing of Billboard Advertisements Embedded in First-Person Shooter Games

MAJOR PROFESSOR: Johnny Sparks

CAM HADEN STONE, San Angelo, TX

DISSERTATION: Effects of Content Label Type and Style on Movie Audiences' Perceived Threat to Freedom, Desire to View, and Expectations of Media Programming

MAJOR PROFESSOR: Robert Cummins

MATHEMATICS

JEA-PIL CHO, Taegu, South Korea

DISSERTATION: The Kauffman Bracket Skein Algebra of a Punctured Torus

MAJOR PROFESSOR: Razvan Gelca

RANOMBAGE NANDEEKA PRABHASHWARA DE SILVA, Colombo, Sri Lanka

DISSERTATION: Span of Subcontinua

MAJOR PROFESSOR: Wayne Lewis

GLENN EMIL LAHODNY, JR., Schulenberg, TX

DISSERTATION: Persistence or Extinction of Disease in Stochastic Epidemic Models and Dynamically Consistent Discrete Lotka-Volterra Competition Models

MAJOR PROFESSORS: Linda Allen and Lih-Ing Roeger

RATHNATHUNGALAGE INDIKA PRADEEP WICKRAMASINGHE, Lubbock, TX

DISSERTATION: Extensions of Saddlepoint-Based Bootstrap Inference with Applications to the Moving Average Model of Order One

MAJOR PROFESSOR: Alex Trindade

MECHANICAL ENGINEERING

CHENG JI, Zhengzhou, China

DISSERTATION: Studies of Materials under High Pressure for Potential Industrial Applications

MAJOR PROFESSOR: Yanzhang Ma

GARY R. SELLHORST, New York, NY (In absentia)

DISSERTATION: Innovative Methods Applied to the Acoustic Paradigm of the Motion of Hot Gases Inside a Solid Rocket Motor, with Special Emphasis on Combustion Instability

MAJOR PROFESSORS: Gary Flandro and Siva Parameswaran

PERSONAL FINANCIAL PLANNING

SHAUN ALVIN PFEIFFER, Amarillo, TX

DISSERTATION: Three Essays on Distribution Planning and Asset Management Strategies

MAJOR PROFESSOR: John Salter

PLANT AND SOIL SCIENCE

LISA MICHELLE FULTZ, Stillwater, OK (In absentia)

DISSERTATION: Dynamics of Soil Aggregation, Organic Carbon Pools, and Greenhouse Gases in Integrated Crop-Livestock Agroecosystems in the Texas High Plains

MAJOR PROFESSOR: Jennifer Kucera

FARRAH MELISSA MUHARAM, Seremban, Malaysia

DISSERTATION: Nitrogen Nutrition Estimation of Cotton Using Greenness and Ground Cover

MAJOR PROFESSOR: Stephen Maas

JACOB DAN REED, Canadian, TX

DISSERTATION: Palmer Amaranth and Ivyleaf Morningglory Management in GlyTol + LibertyLink Cotton

MAJOR PROFESSORS: Wayne Keeling and Peter Dotray

AMELIA JORGE SIDUMO, Gaza, Mozambique

DISSERTATION: Ecological Studies of Maize Production Under Limited Irrigation Levels

MAJOR PROFESSOR: Christian Nansen

RUWANTHI CHANDIMA WETTASINGHE, Lubbock, TX

DISSERTATION: Development of Castor (*Ricinus communis* var. Brigham) with Ultra Low Ricin Content by Analyzing Seed Soluble Proteins

MAJOR PROFESSORS: Randy Allen and Dick Auld

POLITICAL SCIENCE

STEFANIE GONZALEZ, Pharr, TX

DISSERTATION: The Influence of Religious Beliefs on Political Affiliation among Three Generations of Mexican Americans in the United States

MAJOR PROFESSOR: Cynthia Rugeley

PSYCHOLOGY—CLINICAL PSYCHOLOGY

KRISTIN L. GOODHEART, Bison, KS

DISSERTATION: Perfectionism, Shame, and Eating Disorder Symptoms: A Study of Trait Relationships and State Changes in College Women

MAJOR PROFESSOR: James Clopton

DAVID ROBERT HECKLER, Austin, TX

DISSERTATION: Mothers' Contingent Reactions toward Children's Emotions: Exploring the Role of Emotion Regulation, Experiential Avoidance, and Affective Symptoms

MAJOR PROFESSOR: Catherine Epkins

GRADUATE CANDIDATES

MEGHAN MARY MARNELL, Lexington, NE

DISSERTATION: Do Girls' Threat Appraisals, Self-Blame Appraisals, and/or Anxiety Sensitivity Mediate the Relation between Marital Conflict and Girls' Depression versus Anxiety?

MAJOR PROFESSOR: Catherine C. Epkins

ADRIANNE E. SLOAN, Denver, CO (In absentia)

DISSERTATION: An Examination of the Relationships between Disordered Eating and Sexual Attitudes and Behaviors in College Women

MAJOR PROFESSOR: Philip Marshall

DAVID RM TROTTER, Flagstaff, AZ

DISSERTATION: Chronic Pain and Cigarette Smoking: The Elucidation of a Synergistic Relationship

MAJOR PROFESSOR: Lee Cohen

JOSEPH WARREN VANDERVEEN, Evergreen Park, IL

DISSERTATION: Mechanisms of Smoking Relapse: The Potential Influence of Binge Drinking and Impulsivity on Cue Response in Nicotine-Dependent College Students

MAJOR PROFESSOR: Lee Cohen

BENJAMIN D. WILLIAMS, Lake Geneva, WI

DISSERTATION: Identifying the Behavioral and Psychological Symptoms of Dementia in Stages of Alzheimer's Disease: A Meta-Analysis

MAJOR PROFESSOR: Stephanie Harter

PSYCHOLOGY—COUNSELING PSYCHOLOGY

REBECCA LEAH BAUER, Port Jefferson Station, NY

DISSERTATION: Implications of Long-Term Incarceration for Persons with Mental Illness

MAJOR PROFESSOR: Robert Morgan

MARSHALL TRIBBLE BEWLEY, Lubbock, TX

DISSERTATION: The Safe Zone Symbol: Its Impact on Attitudes about Seeking Mental Health Services

MAJOR PROFESSORS: Erin Hardin and Robert Morgan

LINDSEY REBECCA MOORE, Gardendale, AL

DISSERTATION: Coping with Cancer: Associations among Religiousness, Religious Coping, Health Locus of Control, and Psychological Functioning

MAJOR PROFESSOR: Stephen Cook

AMANDA MICHELLE EASTON WHEELER, Spring, TX

DISSERTATION: Measuring Temptation Bias through Eye-Tracking

MAJOR PROFESSOR: Sheila Garos

PSYCHOLOGY—GENERAL EXPERIMENTAL PSYCHOLOGY

SARA GIOTTO, Casciagio, Italy

Psychology—General Experimental Psychology
DISSERTATION: When Judgments of Learning Meet Space: An Investigation of the Characteristics of Mental Representations of Space and of the Subjective Feeling of Learning Space

MAJOR PROFESSOR: Roman Taraban

TECHNICAL COMMUNICATION AND RHETORIC

TIME H. BARROW, Scottsdale, AZ (In absentia)

DISSERTATION: Social Presence in the Asynchronous Online Classroom: The Asynchronous Online Video Conversation

MAJOR PROFESSOR: Richard Rice

DEBRA DOBBINS BURLESON, Waco, TX

DISSERTATION: Hospitalists' Perceptions of Communication and How They Navigate Communication Challenges within the Hospital Setting

MAJOR PROFESSOR: Amy Koerber

NATHAN ANDREW JAHNKE, Houston, TX

DISSERTATION: Autoethnography of Invention

MAJOR PROFESSOR: James Still

WILDLIFE, AQUATIC, AND WILDLANDS SCIENCE AND MANAGEMENT

BLAKE ANTHONY GRISHAM, Black Oak, AR

DISSERTATION: The Ecology of Lesser Prairie-Chickens in Shinnery Oak-Grassland Communities in New Mexico and Texas with Implications toward Habitat Management and Future Climate Change

MAJOR PROFESSOR: Clint Boal

WILDLIFE SCIENCE

DONELLE L. SCHWALM, Midland, SD

DISSERTATION: Understanding Functional Connectivity in Shortgrass and Mixedgrass Prairies Using the Swift Fox as a Model Organism

MAJOR PROFESSOR: Timothy Grabowski

MASTER OF AGRIBUSINESS

DANIEL PATRICK BIEBER, Midlothian, TX

(In absentia)

SHWETA DANDAWATE, Sangamner, India

MASTER OF AGRICULTURE

JACQUELINE FORBUS, Plano, TX (In absentia)

MASTER OF ARCHITECTURE

REBECA ACOSTA-HAYEN, El Paso, TX

JOSEPH LESLIE ENCISO, Houston, TX

JORDAN RYAN GOMEZ, El Paso, TX

ISELA AIDEE GUEVARA, El Paso, TX

CRYSTAL M. LINDSTROM, El Paso, TX

MICHAEL TAYLOR NOE, Denton, TX

MICHAEL LORANZO REED, JR., Denton, TX

LEO JOSEPH SPURGIN, Dallas, TX

CHRISTOPHER DAVID YOST, Plano, TX

MASTER OF ART EDUCATION

WILLIAM DOUGLAS CLARK, Spring, TX (In absentia)

CATHRYN GRAIL CURREY, Mount Pleasant, TX (In absentia)

DAWNA LYNN HENNESAY, Levelland, TX

BRENT HIRO KIYAN, Hilo, HI (In absentia)

ROBERT REPP RYNEARSON, JR., McGregor, TX (In absentia)

MARCO ANTONIO SANCHEZ, McAllen, TX

MASTER OF ARTS

ANTHROPOLOGY

KALEN NICOLE HOEL, Parker, TX (In absentia)

MEGAN COLLINS MURPHY, Lubbock, TX (In absentia)

THESIS: A Statistical Analysis of the Relationship between Enamel Hypoplasias and Perioosteal Lesions among the Colonial Maya from Tipu, Belize

ANGELIQUE MARIE STEWART, Lubbock, TX (In absentia)

COMMUNICATION STUDIES

DAVID NORMAN BRAZ, Casper, WY (In absentia)

THESIS: Soft News Programming: A Pentadic Analysis of Stephen Colbert and *The Colbert Report*

ROBERT BAILEY LAYNE II, Kansas City, MO

THESIS: The Intersection of Dating Scripts and Queer Theory: An Analysis of Dating Experiences of Gay Men in West Texas

JANINE LEANN McCORD, Lubbock, TX

STEPHEN LEE MITCHELL, Topeka, KS (In absentia)

THESIS: Dismantling Normative Ideologies in College Classrooms: Extending a Critical Communication Pedagogy

ECONOMICS

SHAHIDUR RASHID TALUKDAR, Silchar, India

(In absentia)

THESIS: The Effect of Inflation on Poverty in Developing Countries: A Panel Data Analysis

ENGLISH

CATHERINE ELIZABETH LEE, Lubbock, TX

GERMAN

PARDIS SAFADEL, Westphalia, Germany

THESIS: Heimat is kein Ort! Identitätskonstrukte im Werk von Emine Özdamar and SAID

HISTORY

AMBER BRIANNA BATURA, Houston, TX

THESIS: From the Bachelor Pad to the Jungle: Bunnies, *Playboy* Magazine and Vietnam Soldiers

GARI N. DAVIS, Olton, TX (In absentia)

JAIME PEREZ, Comfort, TX

CORBIN MATTHEW WILLIAMSON, Katy, TX (In absentia)

THESIS: Industrial-Grade Generosity: British Warship Repair in the United States in 1941

INTERDISCIPLINARY STUDIES

KOLBE R. COTTER, Corpus Christi, TX
 ADAM LOGAN FOSTER, Plano, TX
 MELANIE CHRISTINA HESS, Plano, TX (In absentia)
 BRITNEY LONG, Midland, TX
 WHITNEY NICOLE PASCHALL, Olton, TX
 KAREN SUZANNE TARARA, Rochester, MN

MASS COMMUNICATIONS

JESSIKA SHEREE BAILEY, Corpus Christi, TX
 DANETTE P. BAKER, Lubbock, TX
 GARRETT ALLEN BRUSTER, Fredericksburg, TX
 THESIS: Advertising in Action: The Effect of
 Excitation Transfer on Reactions to Comic
 Book Advertising
 JUSTIN DANIEL EATHERLY, Forney, TX
 DUSTIN ANDREW HAHN, Carterville, IL
 THESIS: More Than Just a Pretty Face?
 Examining the Influence of Attractiveness
 and Reporter/Athlete Congruity on
 Perceived Credibility
 CHRISTOPHER WALTER KEARNS, Azle, TX
 YACKJAIIRA DEL CARMEN RUIZ, Katy, TX

MATHEMATICS

CECILEE KATHERINE BIGGERS ECHOLS, Lubbock, TX
 LEVI EDWARD JOHNSON, Lubbock, TX
 THESIS: Enhancement of Faculty Skills through
 Mentoring

MUSEUM SCIENCE

BRIAN CHRISTOPHER BRIGGS, Lubbock, TX
 THESIS: Designing Visitor Engagement for Online
 Museum Exhibitions: A Critical Analysis
 Concerning Web-Based Exhibitions of the
 American Indian Wars, 1845-1890
 LAUREN TAYLOR CALLAHAN, Highland Village, TX
 SARAH NICOLE COLLINS, Lubbock, TX (In absentia)
 JENNIFER ASHLEY COVARRUBIAS, Pittsburg, CA
 (In absentia)
 JESSICA WALTON KNIGHT, San Antonio, TX
 KATHERINE LEIGH KRIEGER, Los Angeles, CA
 ADRIANA MARIE MOLINA, Houston, TX
 SAMANTHA G. PHILBRICK, Goodland, KS
 LORNA M. SLUPCZYNSKI, Saint John, IN
 KEVIN CLAY THACKER, Hobbs, NM
 MARIA DEL CONSUELO VALLEJO, Waco, TX

PHILOSOPHY

JAMES JUSTIN MORTON, Nacogdoches, TX
 ROBERT PATRICK REED, Waco, TX
 THESIS: A Place for Moral Theory in the
 Argument from Evil

POLITICAL SCIENCE

FLOYD WILLIAM HOLDER IV, San Marcos, TX
 AZIZ RAHMAN POPAL, Kandahar, Afghanistan
 (In absentia)
 THESIS: Veto Players and Dispute Settlement

PSYCHOLOGY

JENNA GABRIELLE CHANG, Houston, TX (In absentia)
 VANESSA ALBINA COCA-LYLE, Trophy Club, TX
 ELIZABETH ELIOT DENNARD, Oklahoma City, OK
 MELISSA LAUREN EDWARDS, Lubbock, TX
 JOSHUA CAPLAN GOTTLIEB, Silver Spring, MD
 NICOLE RENEE GROSS, Centennial, CO (In absentia)
 BLAKELY LOW, San Antonio, TX (In absentia)
 JENNIFER LEA McADAMS, Rosenberg, TX
 (In absentia)
 BRENDAN ROBERT McDONALD, Bennington, VT
 (In absentia)
 NATALIE M. SCANLON, Rochester, MN (In absentia)
 LINDSAY WILSON-BARLOW, Layton, UT (In absentia)

ROMANCE LANGUAGES

MARIA ALEJANDRA CERDAS CISNEROS, Cartago,
 Costa Rica (In absentia)
 SONIA LOZA, Guadalajara, Mexico
 MAURY ROMAN-JORDAN, Cuernavaca, Mexico

SOCIOLOGY

BRIAN MICHAEL CHILDERS, El Paso, TX (In absentia)
 THESIS: Police Culture and Anomie: An Evalua-
 tion of Police Typologies Using Strain Theory
 and the Theory of the Disciplinary Society
 MARTIN PAUL GONZALES, Temple, TX
 THESIS: The Church Leading the Way:
 A Regression of Religiosity on Civic Activism
 among Hispanic Immigrants
 KRYSTAL JANE LAWSON, Ponca City, OK
 (In absentia)
 THESIS: Paths of Success: A Comparison of
 the Strategies and Social Supports of First
 Generation and Non-First Generation College
 Students

TECHNICAL COMMUNICATION

HEATHER ROSE MILLIMAN, Washington, DC
 RICHARD VINCENT RABIL, JR., Gaithersburg, MD
 (In absentia)

ERRATUM

The following student graduated with a
 Master of Arts in May 2012:

TOBY LEE SMITH, San Antonio, TX
Communication Studies
 THESIS: The Effect of Privacy Management and
 Immediacy on Patient Compliance

MASTER OF BUSINESS
ADMINISTRATION

GENERAL BUSINESS

VILMERYS LILIBETH MOREIRA ACOSTA, Fort Worth, TX
 RICK MATTHEW ADLER, Allen, TX
 KIRK LAYNE ALEXANDER, Levelland, TX
 OLIVIA MARGUERITE ARONSON, Georgetown, TX
 TIMOTHY CHARLES BAKER, Beaver Creek, CO
 (In absentia)
 CHRISTOPHER JAMES BASH, Austin, TX

JOHN DERRICK BERGSTROM, Austin, TX
 CAMERON DOUGLAS BOWEN, Salt Lake City, UT
 STEPHEN BOWERMAN, Midland, TX
 GAUTHAM BRAHMAMUDI, Hyderabad, India
 BRET ERNEST BROUSSARD, JR., San Antonio, TX
 VICKI DUNN CAIN, Keller, TX
 CHRISTOPHER C. CHANDLER, Tyler, TX
 JARED MARCUS CHANSKI, Van Horn, TX
 ANGELA MARIE CHAVEZ, Lubbock, TX
 TRACY RAE COWIN, Sweetwater, TX (In absentia)
 RIKHYASHIN DAS, Kolkata, India
 LINDSAY MARIE DOWDY, Plano, TX
 MASON COLLIER DUMAS, Katy, TX
 GEORGE D. (RETT) EVERETT IV, Stephenville, TX
 (In absentia)
 GREGORY S. EVERETT, Albuquerque, NM
 KELSEY SWENSON FIELD, Brattleboro, VT
 MIKAEL SCOT FLEENOR, Pasadena, TX (In absentia)
 DAMIAN FLORES, Houston, TX
 DAN JEFFREY FOUTS, Haskell, TX (In absentia)
 PABLO GARCIA, Amarillo, TX
 ROBERT MICHAEL GARCIA, Midland, TX
 TATIANA KORNIENKO GONZALEZ, Toulouse, France
 JENNIFER M. GRASSHAM, Hobbs, NM
 JOSHUA B. GRASSHAM, Hobbs, NM
 JAMES KYLE GREEN, Little Rock, AR
 MATTHEW EDWARD HAISLER, Ennis, TX
 LANE STEWART HALEY, Perryton, TX
 JACOB EVAN HENDRICKS, Spring, TX
 TIBURCIO FRANCO HERRERA, El Paso, TX
 RAYMOND C. HERRERO, Houston, TX
 JOSEPH R. HERRIDGE, Fort Worth, TX
 BRYAN DAVID HERRON, Lubbock, TX
 CHARLSIE ANN HENDRICKS JAMES, Princeton, TX
 KIMBERLY JONES-ROSS, Arlington, TX
 SCOTT ALAN KOLLMORGEN, Houston, TX
 AMBER DAWN LANGFORD, Stanton, TX
 ROY ANDERS PORTER LONG, Lubbock, TX
 (In absentia)
 ROLAND DAVID LUCERO, Burleson, TX
 ADAM ROBERT LUND, Spring, TX
 DOUGLAS LANCE LUNSFORD, JR., Austin, TX
 ZABIR HUSSAIN MACCI, Bangalore, India
 TOIE MARTIN, Amarillo, TX (In absentia)
 ANDREW DONOVAN MARTINAK, The Woodlands, TX
 CHRISTOPHER ERIC McDONALD, Houston, TX
 PETER C. MISTICA, Manila, Philippines
 ASHANTI Z. MITCHELL, Dallas, TX
 ANTONIO MORRISON, Chesapeake, VA
 CHRISTINE MARIE POCAIGUE MUNOZ, Chalan Pago, Guam
 CASIE LORENA MURRAY, Midland, TX
 GREGORY SCOTT NORDIN, Houston, TX
 SARAH ASHLEE NORDIN, Houston, TX
 RUDY R. PANIAGUA, Fort Worth, TX
 MONICA GALLEGOS PAUDA, Brownfield, TX
 MARK KENNEDY RODNITZKY, Arlington, TX
 ROLANDO Z. RODRIGUEZ, Lubbock, TX
 KEITH FOREMAN ROSS, Bellaire, TX
 JUSTIN M. SAGE, Waco, TX

GRADUATE CANDIDATES

SAMANTHA SANIT, Plano, TX
JOEL ROBERT SCHUH, Plano, TX
GEORGE JAN SCHUTTE, Llano, TX
SHANNON LEIGH SERRURIER, Amarillo, TX
SUHAIL AHMED SHAIKH, Olympia, WA (In absentia)
CINDY SIMMONS, Colorado Springs, CO
TRACY STRONG, Lubbock, TX
JAY RHETT TAYLOR, Childress, TX
ROBERTO CARLOS TREVIÑO, McAllen, TX
BRETT ARCH UNDERWOOD, Lubbock, TX
YING WANG, Wuhan, China
OUWEN YE, Longquan, China

MASTER OF EDUCATION

COUNSELOR EDUCATION

AMANDA LEIGH EVANS, Las Cruces, NM
LAURA ELIZABETH FORRESTER, Garland, TX
BRETT KYLE GLEASON, Lubbock, TX
WHITNEY DALE HOLLEMAN, Early, TX
JESSICA LANHAM, Saint Joseph, MI
RICHARD PAUL LOVELESS, JR., The Woodlands, TX (In absentia)
LAURA GEE NOBLES, Lubbock, TX
RACHEL RENÉ REDDING, Garland, TX
VERONICA RAE SANCHEZ, Albuquerque, NM
SARAH ELIZABETH SKOOG, Lubbock, TX
LAUREN THACKER, Lubbock, TX
HUY VAN TRINH, Lubbock, TX
HOLLY CAMILLE WADDELL, Dallas, TX
MACY ELIZABETH WALTZ, Ruston, LA
LANDRY KAY WEATHERSTON, San Antonio, TX
AMELIA MICHELLE WORTHEN, Azle, TX

CURRICULUM AND INSTRUCTION

DIANNE TUCKER CROWLEY, Lubbock, TX
ISABELL MARIA MARTINEZ, Lubbock, TX
MARY-KATHERINE ELLEN PLOWMAN, Abilene, TX
YUANHUA WANG, Shijiazhuang, China (In absentia)

EDUCATIONAL LEADERSHIP

PEGGY ANNE SIMMONS, Fredericksburg, TX (In absentia)

EDUCATIONAL PSYCHOLOGY

DILSHOD ANATOLEVICH SODIKOV, Djizak City, Uzbekistan
THESIS: Athletic Team Cohesion: High School Coaches' Perspectives

ELEMENTARY EDUCATION

ARTURO GARZA, JR., Lubbock, TX
ERIKA NICOLE HARRIS, Pampa, TX
LAURA ANN HEERS, Muenster, TX
KRISTEN PAIGE HOOPER, San Antonio, TX (In absentia)
JENNIFER McCANN, San Antonio, TX (In absentia)
MEGAN ELIZABETH McGRATH, San Antonio, TX
AMANDA JEAN RANKIN, Levelland, TX

HIGHER EDUCATION

JANIS JAYNESE ARNOLD HANEY, Lubbock, TX
SELINA NICOLE PRICE, Rockwall, TX

INSTRUCTIONAL TECHNOLOGY

JEANNIE BURROWS, Hobbs, NM
JOANNA LYNN HERNANDEZ, San Antonio, TX
KRISTY NICOLE VINCENT, Austin, TX

LANGUAGE LITERACY EDUCATION

ELIZABETH IMPERIO-ISIDRO, Quezon City, Philippines
MANDY K. MADDEN, Keller, TX
LAQUINTA MONIQUE MURRY, Abilene, TX
CHRISTI NICHOPE PECK, Levelland, TX

SECONDARY EDUCATION

KATIE SHAE HANCOCK, Brownfield, TX
PHILIP BENJAMIN MARCOTTE, San Antonio, TX
MATTHEW ELLIOTT ROBINSON, Abilene, TX
KYLIE AMANDA SCHAEFER, Bastrop, TX
JESSE DANIEL THOMAS, Southlake, TX

SPECIAL EDUCATION

ABDULLAH AHMED A. ALGHAMDI, Albaha, Saudi Arabia
THESIS: Teachers' Knowledge of the Characteristics of Gifted and Talented Students in Visual Arts
RACHEL LEANNE BEARDEN, Dallas, TX
STEPHANIE MITCHELL BROCK, Plains, TX
COURTNEY LEIGH DANNER, San Benito, TX (In absentia)
LEAH ANNETTE DAVIS, Dallas, TX
Yael Liora DRUKER, Laredo, TX (In absentia)
TRACI FURGESON, Brownfield, TX
CHRISTI HANCOCK, College Station, TX (In absentia)
BARBARA ANN MOSTYN, Lexington, TX (In absentia)
AMY NEAL, Euless, TX (In absentia)
STACY HEFLEY POTEET, Lubbock, TX (In absentia)
CAYCE RIDENOUR, Lubbock, TX (In absentia)
KIMBERLY ARWEN THOMPSON, Lubbock, TX
LAURA CAROLINE TOLER, Dallas, TX

MASTER OF ENGINEERING

DAVID McCLELLAN ARVESEN, Dallas, TX (In absentia)
ERIK DARON, Houston, TX
PRANAV MANHAS, Jammu, India

MASTER OF FINE ARTS

ART
YULIA VYATCHESLAVOVNA MAKAROVA, Moscow, Russia

MASTER OF LANDSCAPE ARCHITECTURE

JOSEPH SHANE IMAMURA, Lubbock, TX
THESIS: Master Plan for the Jerry S. Rawls Championship Golf Course and Conference Center at Texas Tech University Lubbock, Texas 33°35'52"N | 101°53'45"W

JARED CRAIG JOHNSON, Gruver, TX

THESIS: Developing Design Criteria for Transforming Youth Camps into Multiuse Facilities
SCOTTY ALBERT SCARBOROUGH, Lubbock, TX
THESIS: A Comprehensive Master Plan for White River Youth Camp, Crosby County, Texas

MASTER OF MUSIC

MUSIC

THERESA KAY BRITT, Amarillo, TX
COREY ANGELA GREEN, Tahoka, TX (In absentia)
THESIS: A Player's Introductory Guide to the Medieval Vielle

MASTER OF MUSIC EDUCATION

ADAM RICHARD BRYANT, Hobbs, NM
ALICIA LYN CANTERBURY, Macon, GA
THESIS: The Repertoire Selection Preferences of Georgia Public School Elementary Choral Directors
MARIANNE CONDIT, San Antonio, TX
MATTHEW GLENN CROSS, Richardson, TX
THESIS: The Relationships between Private Lessons and Adjudicated Solo and Ensemble Contest Ratings
MICHAEL ANTHONY DZBENSKI, Austin, TX
KRISTEN MARIE HALL, Arlington, TX
DANIELLE KUPRESANIN, Amarillo, TX (In absentia)
THESIS: The Effect of String Instruction Method Books on Left Hand Shape of Beginning Violinists and Violists
PATRICK LARA MORA, Boerne, TX (In absentia)

MASTER OF PUBLIC ADMINISTRATION

ISAAC J. FLORES, Seminole, TX
ALBULENA (HAMDI) GRAJQEVCI, Prishtina, Kosovo
AQUILA NONI JORDAN, Denver, CO
VERONICA SOTO, Farwell, TX

MASTER OF SCIENCE

AGRICULTURAL AND APPLIED ECONOMICS

MILOS KUSTUDIJA, Novi Sad, Serbia
THESIS: Analysis of the European Union's Grain Sorghum Import Demand and Its Impact on the World's Grain Sorghum Trade
KISHOR PRASAD LUITEL, Kathmandu, Nepal
THESIS: Economic Potential for Cotton Utilization in Alternative Nonwoven Textile Technologies
SANJA ZIVKOVIC, Leskovac, Serbia (In absentia)
THESIS: Carbon Sequestration and Carbon Management Policy Effects on Production Agriculture in the Texas High Plains

AGRICULTURAL COMMUNICATIONS

MACKENZIE MICHELLE GREGORY ALLISON, Plainview, TX
MADELINE LEAH MOORE, Cove, OR
THESIS: Exploring U.S. Agricultural Commodity Organizations' Use of Blogs as a Communications Tool

AGRICULTURAL EDUCATION

LORETTA L. PETERS HILL, Aspermont, TX (In absentia)
JAMES KILLOUGH MITCHELL, Borger, TX (In absentia)

ANIMAL SCIENCE

CLAYTON JAMES COBB, Paris, TX (In absentia)
THESIS: Effect of Single versus Group Housing from the First Week of Life on the Performance, Immune Responses, and Well-Being of Holstein Calves
BRANDI BOWEN HOLDER, Lebanon, TN (In absentia)
KELLY CHRISTINE HUTTON, Castle Rock, CO
THESIS: Effect of 25-hydroxycolecalciferol Supplementation on Broiler Chicken Skeletal Muscle Growth and Development
MICHAEL AARON JENNINGS, Fredonia, TX (In absentia)
THESIS: Interaction of Optaflexx® and Terminal Implant Window on Growth Performance and Carcass Characteristics in Heifers Fed to Harvest
CASEY ORR, Gallatin, TN (In absentia)
WILLIAM NATHAN TAPP III, Gravette, AR
THESIS: Reduction of *Escherichia coli* O157:H7 and *Salmonella* Following Application of Various Sanitizing Treatments to Harvesting Knives
TANNER RANCE YOUNG, Silvertown, TX (In absentia)
THESIS: Yeast Cell Wall Supplementation Alters the Performance and Health of Newly Received Crossbred Heifers

ARCHITECTURE

SAMAN FAKHRADIN ABDULKAREEM, Kurdistan, Iraq (In absentia)
THESIS: The Adaptation of Vernacular Design Strategies for Contemporary Building Design in Kurdistan

ATMOSPHERIC SCIENCE

NATALIE KAY GUSACK, Gulf Breeze, FL (In absentia)
THESIS: Using EFM and Soundings to Examine Variations in Thunderstorm Thermodynamics
ERIN ANNE KASHAWLIC, West Bloomfield, MI
THESIS: Comparing Observation Impact between Variational and Ensemble Data Assimilation Schemes on Short-Term, Low-Level Wind Forecasting

BIOENGINEERING

KUSHAL JANARDAN KAPSE, Nashik, India
THESIS: Dynamic Casual Modeling of Brain Networks in Spatial Reasoning Tasks
DYLAN SMITH, Canyon, TX
THESIS: Annulus Tension in the Tricuspid Valve: The Effects of Annulus Dilation and Papillary Muscle Movement

BIOLOGY

AMANDA JAYNE ARNER, St. Petersburg, FL (In absentia)
THESIS: The Curious Case of the Cane Toad (*Rhinella marina*): An Assessment of Exploratory Behavior and Foraging Success of an Invasive Vertebrate in a Novel Environment

LYNNE ELIZABETH BEATY, Geneseo, NY (In absentia)
THESIS: The Effect of Body Size and Personality on Anuran Fitness

NISHANT CHALISE, Kathmandu, Nepal

THESIS: Studies of an Iron-Regulated Bacteriocin-Like Substance in *Aeromonas* sp.

MARIA SOPHIA GAETANI, Bloomington, IN (In absentia)

THESIS: Fire Survival Traits of Oaks in the Trans-Pecos Mountains

HASITHA GUVVALA, Kurnool, India

THESIS: The Impacts of Nitrogen Utilization and Allocation Strategies on Photosynthesis for an Invasive Grass, *Phalaris arundinacea*, in Comparison to a Native Sedge, *Carex stricta*

BO ZHANG, Chengdu, China

THESIS: An Intrinsic CRF Signaling Pathway in the Optic Tectum

BIOTECHNOLOGY

SRIRUPA CHEERLA, Anantapur, India
SHANKER VIVEK JAKKULA, Visakhapatnam, India
SHITAL BABULAL PATEL, El Paso, TX (In absentia)

BUSINESS ADMINISTRATION

DAMIAN FLORES, Houston, TX
SHENGXIN LIN, Ruian, China
KIRAN M. LOKHANDE, Pune, India
CHRISTINE MARIE POCAIGUE MUNOZ, Chalan Pago, Guam
YEE WA NGAN, Tai Po, Hong Kong (In absentia)
CHRISTOPHER MICHAEL STARKEY, Schuyler, NE (In absentia)
ALEX JOSEPH VESCOVI, Aztec, NM
DI WU, Changsha, China
YI-HSIEN WU, Taipei, Taiwan

CHEMISTRY

KRISHNAJA DUVVURI, Andhra Pradesh, India
THESIS: Search for the Pseudopericyclic Nature of [1,7]-Sigmatropic Rearrangements
QIANQIAN GAO, Inner Mongolia, China
THESIS: Aggregation Behavior of Ionic Liquids in Aqueous Solution Studied by Physical Methods
YINGYING LUAN, Weifang, China (In absentia)
THESIS: Desymmetrizing Organic Molecules via Structural Functionalization
XIN SHEN, Xi'an, China
THESIS: A Soil Bacterium *Bacillus subtilis* 713 Augments Plant Growth and Iron Uptake via Volatiles and Sugar-Regulated Iron Acquisition in *Arabidopsis*
ELIZABETH KATRINA VOGEL, Socorro, NM
THESIS: Microfluidic Device Design: Cell Separation and Bubble Trap
ELIZABETH NICOLE WILLIAMS, Nocona, TX
THESIS: Crystallization of the *Bacillus cereus* 5/B/6 Metallo- β -lactamase

COMPUTER SCIENCE

ABHISHEK AGARWAL, West Bengal, India
THESIS: Automatic Detection of Click Fraud in Online Advertisements

PRATHAMESH ASHOK AMRITKAR, Maharashtra, India
THESIS: HyDrive: Enhancing Performance and Reliability of Storage Systems

VISHAL ASHOK GHUGARE, Kolhapur, India

AMIT SHRINIVAS GOSAVI, Pune, India

THESIS: An Energy Harvesting Aware Data Dissemination Strategy for Energy Rechargeable Wireless Sensor Networks

SWAPNIL RAJENDRA GODAMBE, Mumbai, India

KEDAR VINOD HIPPAALGAONKAR, Hyderabad, India

SUYOG SHRIKANT KOLTE, Thane, India

RAMA RAO KONERU, Vijayawada, India

DHARMIN N. MAJMUDAR, Godhra, India

TANYA ARUNPRAKASH MISHRA, Vallabh Vidyanagar, India

ARCHANA MOHAN, Bangalore, India

AMIT VIJAYRAO MURKUTE, Nagpur, India

VENKATRAJ MURUGAN, Mumbai, India

CHIRANJEEB NANDY, Kolkata, India

AMEY RUPJI, Mumbai, India

ADITHYA KIRAN SEKAR, Chennai, India

MANAN RAJENDRAKUMAR SHAH, Ahmadabad, India

JANARDHAN PANDURANGA SHETTY, Bangalore, India

PULKIT TOMAR, Delhi, India

THESIS: A Novel Test Case Generation Technique for Data Race Coverage Adequacy Criterion

VIKAS UPENDRA, Bangalore, India

AVINASH VISWANATHA, Bangalore, India

ABHIJIT DNYANESHWAR WARKHADE, Pune, India

CROP SCIENCE

SANJIT ACHARYA, Dang, Nepal
THESIS: Cationization of Cotton Fabric for Improved Dye Uptake
FLOYD TYLER COOPER, Smyer, TX
THESIS: Management of Annual Bluegrass and Bermudagrass in Creeping Bentgrass Putting Greens
AMANDA McCALLUM FOWLER, Elgin, TX (In absentia)
ZACHARY BLAIR HINDS, Lubbock, TX
THESIS: Molecular Marker Analysis of Safflower Mini Core Collection
JAMES LOHMAN HODGSON, Lyons, KS (In absentia)
FARZAD HOSSEINALI, Tehran, Iran (In absentia)
THESIS: Investigation on the Tensile Properties of Individual Cotton (*Gossypium hirsutum* L.) Fibers
DEV RAJ PAUDEL, Pokhara, Nepal
THESIS: Evaluating the Potential of New Testing Methods for Cotton (*Gossypium hirsutum* L.) Breeding
CAREN LISBETH AYALA TEJADA, Quito, Ecuador
SEAN M. WALLACE, San Antonio, TX
THESIS: Nitrogen and Phosphorus Nutrition for Semi-Dwarf Castor (*Ricinus communis* L.) Production in West Texas

ENVIRONMENTAL DESIGN

REHAB ABDULLAH S. ABURAS, Riyadh, Saudi Arabia
ALICIA MARIE MORTON, Plano, TX
DIANA SABOUNI, Damascus, Syria
ASHLEIGH MARIE WALTERS, Sugar Land, TX

GRADUATE CANDIDATES

ENVIRONMENTAL TOXICOLOGY

LISA KRISTINE KANOELANI ARNESON, Fort Worth, TX
(In absentia)

THESIS: A Comparative Study on the Relative Terrestrial Toxicity of Two Gas-To-Liquid (GTL) Base Oils to a Low Toxicity Mineral Oil (LTMO), a Diesel, and a Biodiesel

JENNIFER MICHELE COLE, Shallowater, TX
(In absentia)

DEREK RONALD FAUST, Auburn, PA (In absentia)
THESIS: Inorganic and Organic Contaminants in an Urban Playa and Trace Elements in Marine Species from Padre Island National Seashore

SAMUEL LEN HAWKINS, Jacksboro, TX
THESIS: Survey of Select Pathogens in Feral Swine in Texas and Oklahoma

TAMARA O. LUNA, Crookston, MN
THESIS: Effects of Organic Wastewater Contaminants on Aquatic Macroinvertebrates: Implications for Future Toxicity Testing

EXERCISE AND SPORT SCIENCES

CHANCE FRANKLIN CAIN, Big Spring, TX

DONALD J. DOWNS, Alamogordo, NM

QUINTIN DONTÉ JORDAN, Fort Worth, TX
(In absentia)

DANIELLE MARIA MATTHEWS, Medina, WA
THESIS: National Pro Fastpitch Consumer's Twitter Usage

DAVID COYT NEILL, Highland Village, TX

MICHAEL SCOTT ORSCHELN, Fenton, MO

FISHERIES SCIENCE

CHRISTOPHER ALLEN CHEEK, Edmond, OK
THESIS: Spatial and Temporal Variation in Fish Assemblages of the Lower Pecos River, Texas

FOOD SCIENCE

JACOB ROBERT ELDER, Hooker, OK (In absentia)
THESIS: Serogrouping of Clinically Significant Shiga Toxin-Producing *Escherichia coli* by Single Nucleotide Polymorphisms in the *GND* Gene

ASHLEY JEANANN HARTZOG-HAWKINS, Farwell, TX
THESIS: Organizational Climate and Food Safety Training Change Employee Behaviors and Pathogen Loads in Non-TIF Beef Packing Plants in Mexico

MARTHA LUZ MARADIAGA PENA, Tegucigalpa, Honduras
THESIS: Baseline of *Salmonella* Prevalence in Retail Beef and Produce from Honduras and Mexico

FORENSIC SCIENCE

ASHLEY DANIELLE HILLIN, Eula, TX

SABLE BRIALE MILLER, Dallas, TX

GEOSCIENCES

GREGORY MAYS DUNCAN, Midland, TX
THESIS: Processing Innovations to Improve PP Precursor Analysis and Increase Frequency Content of Studies in the Mid-Pacific

LAUREN CRYSTAL PATE, Midland, TX

THESIS: Textural Analysis of FMI Logs to Determine Lithofacies in the Early Permian Paddock Member

KEVIN WILLIAM PRATT, Boerne, TX (In absentia)

THESIS: Common Conversion Point Imaging of the Western United States: Improved Methods for Receiver Function Stacks

HORTICULTURE

VIKRAM BRADLEY BALIGA, Lubbock, TX (In absentia)

THESIS: Effects of Drought Stress and Climatic Conditions on *Olea europaea* L. Physiology and Fruit Set

MARJOLAINE LOUISE HAUFERMAN, Austin, TX

HOSPITALITY AND RETAIL MANAGEMENT

JOO AHN, Gwangju, South Korea

HUMAN DEVELOPMENT AND FAMILY STUDIES

ANN MARIE CASIRAGHI, Lubbock, TX (In absentia)

THESIS: Students' Perceptions of Social Support and Recovery: An Investigation of the Social Support Model Used in Replicating Collegiate Recovery Communities

HOLLY LEIGH ERICA LAMBERT, Amarillo, TX

THESIS: Observation of Nonverbal Expressions as a Sign of Congruence during the Adult Attachment Interview

SUNG MI PARK, Seoul, South Korea

THESIS: Functional Health, Intergenerational Support, and Physician Visits of Mexican American Elders

ANDREA CHRISTINE PARKER, Plano, TX

THESIS: A Systematic Investigation of Affect Attunement and Its Link to a Global Measure of Maternal Sensitivity

PAULINA VELEZ-GOMEZ, Medellin, Colombia

THESIS: Mother-Child Dyadic Synchrony and Its Association with Children's Socio-Emotional Competence in Mexican-American Families

INTERDISCIPLINARY STUDIES

VENITA WHITEAKER GROSS, Lubbock, TX
(In absentia)

KATHERINE YIELDING LIVINGSTON, Houston, TX

MATTHEW GILBERT SALDANA, Plainview, TX

GURMINDER SINGH THIND, Mississauga, Canada
(In absentia)

MANAGEMENT INFORMATION SYSTEMS

DARRELL JAMES BATEMAN, Lubbock, TX

RISHI DAVE, Mumbai, India

SHENGXIN LIN, Ruian, China

MATHEMATICS

POOYA AAVANI, Lubbock, TX

THESIS: Ordinary and Delay Differential Equation Models of Viral Infection with Application to HIV and Hepatitis C Virus

BHAGYA UPENDRA ATHUKORALA ATHUKORALLAGE, Kegalle, Sri Lanka

THESIS: Mathematical Modeling of a Contact Lens and Tear Layer at Equilibrium

JULIE BUMBAUGH, Lubbock, TX (In absentia)

THESIS: A Dynamical System Study of the Hodgkin-Huxley Model of Nerve Membranes

CHRISTOPHER MATTHEW HANSEN, Plains, TX

THESIS: Molecular Simulations Involving Various Potential Functions and Integration Methods

ASHLEY DIANE RAY, Lubbock, TX

THESIS: A Representation of the Chaocipher

MULTIDISCIPLINARY SCIENCE

COLLEEN MARIE ADCOX, Fredericksburg, TX

SHAYNA ROSE ALDRICH, Fredericksburg, TX

LEA MARIE ARISPE, San Antonio, TX

STEPHANIE ANN AVANCE, Garland, TX (In absentia)

TAYLOR BRIGNON, Midland, TX

SHANE ELLIOTT BURK, Lubbock, TX

PAUL R. CASTILLO, San Antonio, TX

RICHARD ROBERT CASTRO, San Antonio, TX

DOROTHY ROTUNDA DAVIS, Lubbock, TX

JENNY REBECCA FISHER, Lubbock, TX

DONNA J. FREEMAN, Hurst, TX

CARI ROBIN PEARSON HART, Abilene, TX

MISTY GAYLE HINER, Goldsmith, TX

RACHEL ANN LAMM, Lubbock, TX

CHRISTI SIMS MACNOLL, Abilene, TX

ANALISA PEREZ, San Antonio, TX (In absentia)

JASON KELLY TOM, Euless, TX

CELIA ANN TRUJILLO, Garland, TX

JEREMY WAGNER, Lubbock, TX

SHERRY KAY WAGNER, Lubbock, TX

NUTRITIONAL SCIENCES

MINDY KAE DILLER, Lubbock, TX

ERRIN LEA MINKLEY, Claude, TX (In absentia)

KRISTEN LYNN O'REAR, Hereford, TX (In absentia)

INDRIKA SAJEEWANIE RANAWEERA, Lubbock, TX

THESIS: Plasma Vitamin C, Dietary Vitamin C, and Inflammatory Biomarkers in a University Student Sample

KRISTIN LARINN THONSGAARD, Boling, TX

PERSONAL FINANCIAL PLANNING

CAMERON DOUGLAS BOWEN, Salt Lake City, UT

DEE JAY WILDE, Wall, TX (In absentia)

PHYSICS

ADAM DAVID HOUK, Ellensburg, WA (In absentia)

THESIS: Computer Processing of Plasmon Tomography Images

PHYSICS—APPLIED PHYSICS

GULTEN KARAOGLAN, Kutahya, Turkey (In absentia)

ONGARD THIABGOH, Sisaket, Thailand (In absentia)

THESIS: Study of Plasmonic Lenses Using Surface Plasmon Polariton (SPP) Tomography

RANGE SCIENCE

SCOTT L. MITCHELL, Lubbock, TX (In absentia)
 THESIS: Seasonal Dynamics of Nutritional Quality During a Drought of Four Browse Species Preferred by White-Tailed Deer (*Odocoileus virginianus*) in the Rolling Plains of Texas

STATISTICS

DON PLACIDA AMALI DASSANAYAKE, Katunayake, Sri Lanka
 THESIS: Local Orthogonal Polynomial Expansions for Density Estimation
 DIVYA DEVI KESHAMONI, Hyderabad, India
 CAHIT POLAT, Muradiye, Turkey
 THESIS: An Alternative Calculation for Integrated Squared Error in Functional Regression

WILDLIFE SCIENCE

BRIAN A. CHANDLER, Corryton, TN (In absentia)
 THESIS: Spatial Ecology and Diets of Feral Pigs (*Sus scrofa*) on the Rolling Plains of Texas
 E. KATHLEEN MCGAUGHEY, Springfield, MO
 THESIS: Wildlife Rehabilitation Centers: Survey of Rehabilitators' Attitudes, Motivations, and Knowledge and Study of Animal Admittance to the South Plains Wildlife Rehabilitation Center
 MARK ANTHONY PEYTON, Ponderosa, NM (In absentia)
 THESIS: Habitat Use, Movement, and Survival of Merriam's Turkeys in the Jemez Mountains, New Mexico

ZOOLOGY

ASHISH BASHYAL, Rupandehi, Nepal
 THESIS: Population Genetics of the American Crocodile in Coiba National Park, Panama
 JEREMY PAUL WEAVER, Grand Prairie, TX (In absentia)
 THESIS: Geometric Morphometrics of Antillean Crocodiles

MASTER OF SCIENCE
IN ACCOUNTING

PRAVEENA ASHOKKUMAR, Chennai, India
 COREY ALLISON COLLINS, Houston, TX
 JARISA D. JOWERS, Lubbock, TX
 KRISTOPHER ANDREW MATHERLY, Sugar Land, TX
 NATHAN SEARCY, Austin, TX (In absentia)
 MOLLY ANNE SWANSON, Bedford, TX

MASTER OF SCIENCE
IN CIVIL ENGINEERING

MAHDI SAAD ALI ALSALEM, Najran, Saudi Arabia
 VIPUL VINOD PRABHU CHODNEKAR, Goa, India
 DYLAN CARL CHRISTENSON, Santa Maria, CA
 TRAVIS JAY KAATZ, Dripping Springs, TX (In absentia)
 MUHAMMAD UMER KHAN, Karachi, Pakistan
 DALI WEI, Guichi, China (In absentia)
 ANDREW JONATHAN WIDMER, Austin, TX (In absentia)

MASTER OF SCIENCE IN
ELECTRICAL AND COMPUTER
ENGINEERING

ELECTRICAL ENGINEERING
 ABHISHEK ANGADI, Hubli, India
 THESIS: Constrained Random Verification of Mobile Processor Long Simulation Test Cases Analysis
 LESLIE MARQUEZ ARROYO, Cuauhtemoc, Mexico
 THESIS: Development and Validation of a Laboratory Automation Solution for Bench Characterization
 XIAODONG CAI, Shenzhen, China (In absentia)
 THESIS: Automatic Test System for Characterizing Operational Amplifiers
 SEYED MAHDI GHAMKHARI (In absentia)
 THESIS: Energy Management and Profit Maximization of Green Data Centers
 JUSTIN ROBERT GRIGGS, Greenville, TX
 THESIS: Intelligent Data Acquisition and Processing for Unmanned Aerial Vehicles
 CHRISTOPHER HOUSEWRIGHT, Wylie, TX
 JEREMIAH R. HOYLE, Lockhart, TX (In absentia)
 NIMA JAAFARI, Allen, TX
 THESIS: Reverse-Engineering Biological Pathways
 SHILPA KOTA, Bangalore, India (In absentia)
 SATYABH MISHRA, Patna, India
 THESIS: Design of Charge Pump Phase Locked Loop
 CHARLES OMOESIRI ONOCHA, Abuja, Nigeria
 SANTOSH RAM PAPPU, Lubbock, TX
 THESIS: Design and Analysis of Wind Energy Systems in Power Applications
 MD ASHFAUR RAHMAN, Lubbock, TX
 THESIS: False Data Injection Attacks with Incomplete Information
 GAUTHAM RAMACHANDRAN, Lubbock, TX
 THESIS: Remote Experimentation Testing and Characterization Testing of Micro Electro Mechanical Systems
 SUDEEP REDDY RAMIREDDY, Hyderabad, India
 KALPAN APURVA SHARMA, Ahmedabad, India
 RAVINDRANATH D. SHRIVASTAVA, Pune, India
 THESIS: Analysis and Design of 3-Stage Voltage Rectifier Multiplier and 2-Stage Multiphase Voltage Doubler for an Energy Harvesting System
 SAPNA UCHANGI SURESH, Bangalore, India (In absentia)
 MILIND P. TILE, Maharashtra, India
 THESIS: VPX Based Data Acquisition and Processing System
 SRIHARSHA VINJAMURY, Hyderabad, India
 LUAN ZHANG, Shanxi, China

MASTER OF SCIENCE IN
INDUSTRIAL ENGINEERING

JACOB BANDA, El Paso, TX
 THESIS: Post-Spatial Disorientation Letter Cancellation Test Performance after Video Game Exposure
 SAGAR PRASHANT GODSE, Pune, India
 ALPESH SURYAKANT INDULKAR, Mumbai, India
 KEDAR V. NAMJOSHI, Thane, India
 SRIRAM SANJEEVI, Chennai, India

MASTER OF SCIENCE IN
MECHANICAL ENGINEERING

YASAMAN NIKPOUR BADR, Tehran, Iran (In absentia)
 KYLE MATTHEW BECK, Albuquerque, NM
 RYAN CULLEN BULLOCK, Lubbock, TX (In absentia)
 JOSEF MICHAEL CEPACK, Ennis, TX
 THESIS: Nonlinear Estimation Techniques for Dynamic Thermal Characterization of Metallic Macro-, Micro-, and Nanowires Using the 3 ω Method
 TROY JERED MILLS, Burkburnett, TX
 HERBERT OMONDI ODHIAMBO, Kisumu City, Kenya
 JONATHAN FORBES SULLIVAN, Lubbock, TX (In absentia)
 JIANZHE WU, Shenyang, China
 THESIS: Extreme Pressure Effects on Mechanical Properties of Boron Arsenide

MASTER OF SCIENCE IN
PETROLEUM ENGINEERING

ISLAM ALI HASSAN ALBAIYAT, Qatif, Saudi Arabia (In absentia)
 THESIS: Implementing Artificial Neural Networks and Support Vector Machines in Stuck Pipe Prediction
 SHUBHAM GALAV, Mangrol, India (In absentia)
 VENKATA AJAY GUNDEPALLI, Hyderabad, India
 DIPEOLU TOBILOBA ISAAC, Abeokuta, Nigeria
 ADITYA KULKARNI, Pune, India
 FAHD SIDDIQUI, Sindh, Pakistan
 THESIS: A Derivative-Less Approach for Generating Phase Envelopes and Applications in Equation of State
 EZHILAN SUBRAMANIAN, Salem, India
 MOYOSORE TEREBO, Igodan Lisa, Nigeria
 DAVID BRENNAN YELLOWLEES, Calgary, Canada

MASTER OF SCIENCE IN
SYSTEMS AND ENGINEERING
MANAGEMENT

SEAN STEPHEN PETERSON, Smithfield, VA (In absentia)

Undergraduate Programs

The **bachelor's degree** represents completion of a four-year course of college-level study and is the oldest academic degree awarded by American institutions of higher learning.

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."



TEXAS TECH UNIVERSITY College of Agricultural Sciences & Natural Resources^{*}

BACHELOR OF SCIENCE

AGRICULTURAL AND APPLIED ECONOMICS

STERLIN WAYNE BOYCE, Utopia, TX
TAYLOR NORTHCUTT BROWN, Brownwood, TX
DREW ANTHONY CHAPMAN, Waxahachie, TX
TRAVIS LEE GARDNER, Hurst, TX
MARISSA GILLIAN GIAMPAOLI, Healdsburg, CA
RYAN JAMES MACHICEK, Garden City, TX
TUCKER CHASE RIGGS, Montgomery, TX
TUCKER JACK ROSS, Floydada, TX

AGRICULTURAL COMMUNICATIONS

KATELYN NADINE BALL, Porterville, CA
BAILEY ROSE EILAND,³ El Paso, TX
CASI RENE HERBER,³ Stroud, OK
BERKLEY KALYN IDEN,² Big Spring, TX
KELSEY SHEA REED, New Braunfels, TX
ALLIE JOYCE SPIVEY, Lampasas, TX
HILARI ROXANNE VARGAS, El Paso, TX

INTERDISCIPLINARY AGRICULTURE

WIMBERLY ALEXANDRIA CODER, Godley, TX
CLAYTON COLE HARRISON, Muenster, TX
JARRETT WADE HOWARD, Sweetwater, TX
BRADEN KEITH KELM, Groesbeck, TX
JUSTIN TYLER POWELL, Dexter, NM

ANIMAL SCIENCE

WILLIAM CLAY BURSON,¹ Abilene, TX
SAMANTHA ELAINE COLLINS,³ Rhome, TX
KATLIN STANLEY HORWOOD, Sterling City, TX
TIFFANY ANN KAST, Lubbock, TX
REID LONG,³ New Home, TX
TYLER RAY MALTSBERGER, Helotes, TX

KATHRYN ROSE McCULLOUGH, Castle Rock, CO
NATHAN WILSON POND, Wolfforth, TX
LOGAN SETH PRITCHETT,¹ Kingfisher OK
NATALEE GRACE SMITH, Albemarle, NC
DANIELLE MARIE STRANDLIEN, Conroe, TX
STETSON SAMUEL VEST, Childress, TX

CONSERVATION LAW ENFORCEMENT COREY RAY SMITH, New Home, TX

ENVIRONMENTAL CONSERVATION OF NATURAL RESOURCES

SHAY LYNN HLAVATY,² Lubbock, TX
JOHN ALLEN JONES, Nolan, TX

WILDLIFE AND FISHERIES MANAGEMENT

ALEX DANIEL MEADOWS, Floresville, TX
GREGORY CHRISTOPHER PAVUR, Denton, TX
KENDRA RENEE PENNINGTON, Odessa, TX
KENNETH DEAN ROBERTS, Bedford, TX
SHAWN THOMAS SEIBERT, Lebanon, OR



TEXAS TECH UNIVERSITY College of Architecture^{*}

BACHELOR OF SCIENCE

MARIO ALBERTO ARANDA, JR., Piedras Negras, Mexico
JOHN PAUL BARRANDEY, Midland, TX
EMERY ALEXANDRA CANAVAN, Boerne, TX
EMILY DUNLOP, Lubbock, TX
MICHAEL ANTHONY GANDARA, El Paso, TX
DANIEL LUIS GARCIA, Taegu, Korea
ELIAH CHRISTIAN GUERRERO, Las Cruces, NM
RAFAEL GUTIERREZ II, Houston, TX
JAMES CADE HAMMERS, Mesquite, TX
JOSHUA LEGARRETTA, El Paso, TX
MIGUEL MARTINEZ, El Paso, TX

KYLE STUART McALONAN, Austin, TX
VERONICA MARLENE MITCHELL, Dallas, TX
MOISES MORALES II, Las Cruces, NM
CAROLINE RACHEL REDELMEIER, Houston, TX
KARI ELIZABETH SUMMERS, Keller, TX



TEXAS TECH UNIVERSITY College of Arts & Sciences^{*}

BACHELOR OF ARTS

ANTHROPOLOGY

JACLYN RAE ADAMS, Cypress, TX
STEPHEN MICHAEL CANTU, San Antonio, TX
NICHOLAS RYAN CHASE, Rowlett, TX
AMBER SKYE CHESNEY, Azle, TX
TERRY KNIGHT,² Houston, TX
ASHLEY ELIZABETH POWE, Lubbock, TX
SARA DANIELLE PRICE, Bartonville, TX
2nd Major: Classics
BENJAMIN HENRY RICHARDS, Katy, TX

CHEMISTRY

APRIL NICOLE HYDE, San Antonio, TX

CLASSICS

BENJAMIN COLEMAN McWILLIAMS,² Austin, TX
2nd Major: Communication Studies

COMMUNICATION STUDIES

ZENON MAXWELL ADAIR, Dallas, TX
ERIK ARAGÓN, Richardson, TX
JASMINE SADÉ ARNOLD, Lewisville, TX
APRIL LYNN COVINGTON, Houston, TX
KACY MICHAEL DANIEL, Lubbock, TX
JEFFERY ALLEN DURANT, Plano, TX
MEGAN WHITNEY FOREMAN, Flower Mound, TX
AHNA MARIA GAVRELOS, Beaumont, TX

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

ALEXANDER PAUL GEILICH, Richardson, TX
 ASHLEY BAIN HAENEL, Blanco, TX
 KATHRYN CLAIRE HARGROVE,² Dallas, TX
 BRYAN WAYNE MARTIN, Lubbock, TX
 CLAYTON KENDALL PROCTOR, San Antonio, TX
 ASHLEY LEANNE RODGERS, Mexia, TX
 COURTNEY NICOLE SEIDEL, San Antonio, TX
 LAURA ANNE STERLING, Midland, TX
 BRIANNA NICOLE TAYLOR, Keller, TX
 JACOB NEAL TAYLOR, Bellville, TX
 ADAM CHRISTOPHER TESTERMAN, Springfield, MO
 ELIZABETH GRACE TREMBLY, Houston, TX
 BENJAMIN ROSS TWISS, Richardson, TX
 HALEY MICHELE WHITTENTON, Austin, TX

ECONOMICS

NICHOLAS DANIEL ACOSTA, Lubbock, TX
 RUBI NELLY JAIMES, Snyder, TX
 JUSTIN MICHAEL JANOW, McKinney, TX
 DAVID MICHAEL McMURRAY, Richardson, TX
 SANDRA MEDINA, Breckenridge, TX
 RUSSELL GORDON MUSGRAVE, Plano, TX
 SIMON RUBEN QUEVEDO, Lubbock, TX
 ANDREW JARROD REED, Houston, TX
 ANTHONY MICHAEL STRIEGEL, Rockwall, TX

2nd Major: Political Science

JAKE McHUGH WAGNER, Marble Falls, TX

ENGLISH

KATHRYN MICHELLE EICHELBERGER, Lubbock, TX
 KRISTY MARIE HORTON, The Colony, TX
 HALEY DON NELSON, Channing, TX
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FRENCH

KARLISSA JANAE BLACK,² Amarillo, TX
 KELLY ELODIE CLOSSE, Verberie, France
 ZACHARY RYAN MONREAL,¹ Frankfurt, Germany
 2nd Major: Political Science

HISTORY

TRAVIS LEE AGUILAR, Brazoria, TX
 WILLIAM LEWIS ALLEN, Bellaire, TX
 ZACHARY ANDREW ALLRED, Snyder, TX
 CAITLIN JENNIFER BABINCIUC, Bellingham, WA
 JACKIE CHARLES BARBER, JR., West, TX
 TYLER FREEMAN BOYNTON, Lubbock, TX
 TULLY JOE BROWN, Sagerton, TX
 DARREN EDWARD BURCH, Ovilla, TX
 DARCY DELL DICKSON, Choctaw, OK
 ANTHONY MICHAEL DIMINTURE, San Antonio, TX
 MATTHEW EDWARD ELLSWORTH, Katy, TX
 STERLING ABRAHAM EMENS IV, Montgomery, TX
 CHARLES STANDIFER FOX, Corpus Christi, TX
 ISSAC HILARIO GANTE, Slaton, TX
 TRAVIS WARREN GLIDEWELL, Colleyville, TX
 PATRICK LYNN HAILE, Hamilton, TX
 STANLEY DAVID HARRIS, Aztec, NM
 RUDY HILLE, JR., Arlington, TX

CHELSEA LYNN KIMBLE, Houston, TX
 2nd Major: Sociology
 JACQUELYN IRENE KIMMEY, Keller, TX
 KRISTOPHER JAMES KIRK, Henrietta, TX
 SCOTT HEMINGTON KRYDER, Lubbock, TX
 ROSS ANTHONY LEWIS, Corpus Christi, TX
 TREY THOMAS MERCHANT, Lubbock, TX
 TARIK ABDULKADER MUHALHAL, Athens, Greece

2nd Major: Political Science

MÓNICA PEREZ, San Antonio, TX
 BRIAN DANIEL POYNOR,³ Lubbock, TX
 SOFIA SORAIDA RODRIGUEZ, Springtown, TX
 JAMES CONRAD SCHMID II, Fort Worth, TX
 KELSEY MARIE SEXTON,³ Austin, TX
 TERRELL TYRONE LAFRANCE SMITH, Killeen, TX
 RAYMOND GLENN SOTTILARE, Plano, TX

2nd Major: Political Science

REBECCA CRISTIANA STACKS, Lewisville, TX
 BRADLEY STEVEN STRICKLAND, Callisburg, TX
 CHRISTINE CECILE WALKER, New Orleans, LA
 GARRETT THOMAS WILSON, Austin, TX

2nd Major: Political Science

LAURA ALLISON WINTER, Frisco, TX

MATHEMATICS

SARAH MARIE DART, Austin, TX
 DEMETRICK LAMARR FERGUSON, Harker Heights, TX
 WILLIAM CRUZ HALE, Haltom City, TX
 BEN EDWARD HOAGLAND, Gainesville, TX
 SETH RANDALL JOHNSON,³ Forsan, TX

PHILOSOPHY

DANIELLE CHERIE JACQUES, Lubbock, TX

POLITICAL SCIENCE

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 ZACHARY ROBERT BICE, San Antonio, TX
 PETE AUSTIN BROUSSARD, Houston, TX
 BRENDAN RAY CIMINO, Greenwood, TX
 CLAYTON TAYLOR COWIN, Bedford, TX
 MELISSA LYNNE DANIELS, Kelowna, British Columbia
 SARAH MARIE DOWELL, Kerrville, TX
 BRENT GARZA, Lubbock, TX
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 JULIAN ESTEVAN GURANY, El Paso, TX
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 IAN THOMAS KNOBLES, Austin, TX
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 RACHEL MARIE MAYNE, Lubbock, TX
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 SCOTT ANDREW NELSON, Midland, TX
 BLAKE WILLIAM NORWOOD, Cypress, TX
 CHRISTOPHER MATTHEW PETERS, Lake Jackson, TX
 DAVID MARK REZA, El Paso, TX
 CODY LEE RICKARD, Austin, TX
 GARY RYAN SCHRECKENBACH, Kerrville, TX
 RYAN MATTHEW SCOTT, Weatherford, TX
 ZACHARY RYAN SHAW, Seymour, TX

DARCY SEPE STANFORD, Valrico, FL
 ASHLEY MICHELLE SVANE, Flower Mound, TX
 JACOB ALLEN SZOT, Cypress, TX
 WESTON MICHAEL WILSON, Austin, TX

PSYCHOLOGY

WHITNEY ELIZABETH ARRINGTON, Lubbock, TX
 KIMBERLY JEAN BERGAN, Spearman, TX
 HEMALI BHAKTA, Plainview, TX
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 EMILY MARIE BUSSE,³ Lubbock, TX
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 ANNA MARIA CONSTANCIA, San Angelo, TX
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 BAYLEA MCKENNA EVANS, San Angelo, TX
 CHRISTI FIGUEROA, Katy, TX
 CAYLEE ANN-MARIE FOURMAN, Houston, TX
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 COURTNEY RAE HOLT, Hoover, AL
 TOVA LEIGH HORNE, Abilene, TX
 ALEJANDRO HUERTA, Big Spring, TX
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 KATHRYN MARIE KAY, Kennedale, TX
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 JOSE VENTURA LOPEZ, Bay City, TX
 DEVNY SHEA MARKS,² Katy, TX
 KAILY JAE MCCORMACK, Mansfield, TX
 CHERI MONIQUE McNEELY,³ Aviano, Italy
 DANIEL FELIPE MENDOZA, Lubbock, TX
 LAUREN BAILEY MOTHERAL,² Fort Worth, TX
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 CAROLIN SARAH ROTTACH,¹ Keller, TX
 NADIA ALYS RUBALCADO, Crosbyton, TX
 MEGAN ASHLEY SANDERSON, Trophy Club, TX
 SANGITA SHARMA, Houston, TX
 JORDAN ALEXANDER SMITH, San Antonio, TX
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 SARA NICOLE STUBBLEFIELD, Cuero, TX
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 JOSE MANUEL VEGA, Waxahachie, TX
 NICOLE JENÉ WAGGANER, Allen, TX
 ALESHA NICOLE WARD,³ Lubbock, TX
 RICHELLE ANN WETSEL, Pearland, TX

RUSSIAN LANGUAGE AND AREA STUDIES

ROSS BRADLEY HARBOUR, Round Rock, TX
 2nd Major: Sociology

SOCIAL WORK

ALEXANDRA EMRAL MATAMOROS, McKinney, TX
 HALEY CHRISTINE WARREN, Waco, TX
 JOSHUA COLE WRIGHT, Lubbock, TX

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

UNDERGRADUATE CANDIDATES

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SPANISH

ROCHELLE ADA ANYIGBO, Sugar Land, TX
CARISSA BROOKE HATLEY,² Flower Mound, TX
ANGELA LUCILLE HEIMBIGNER,^{3,4} Spring, TX
MONICA ALINE RIOS, Hamlin, TX
MARY HANNAH SMITH, Cocoa, FL
ALFRED DWAYNE SOTO, Idalou, TX

BACHELOR OF SCIENCE

BIOCHEMISTRY

GINA LYNN GRAHAM,¹ Amarillo, TX
DEREK DANIEL KLAUS, Georgetown, TX
CHRISTOPHER MANH TRAN, Arlington, TX

BIOLOGY

WILLIAM RYAN BARR, Portland, TX
MUHAMMAD NASSER BASHITI, Lubbock, TX
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AMY ELIZABETH CEGELSKI, Houston, TX
PEARL PUIMUN CHAN,¹ San Antonio, TX
LANCE EARL COPELAND, San Antonio, TX
HEATHER LYNN DAVIDSON, Waterford, MI
MONIQUE CHINWE ENIH, Houston, TX
RICHARD JOSEPH FUMOSO, Kingwood, TX
CARLA CRISTAL GARCIA, Dallas, TX
SAINOBU ABIODUN JOKOMBA, Lagos, Nigeria
REBECCA JEAN LAND, Tyler, TX
ASHLEY NICOLE LYONS, Lubbock, TX
NWADIOGO ADAURE NDUKA, Rowlett, TX
MATTHEW STEVEN RAMIREZ, Amarillo, TX
SRIYUTHA ALAVALAPATI REDDY,^{2,4} Lufkin, TX
AARON ALVARADO SANCHEZ, Odessa, TX
KELI LEN SCHULTE, Nazareth, TX
JUAN SERGIO SIERRA, Lubbock, TX
DANIEL OTIS STEARNS, Lubbock, TX
LORENA VELASQUEZ, Dallas, TX
NICHOLAUS CONNOR VINCENT, Stratford, TX
MIKAELA MARIE WALLACE,² New Home, TX
JUSTIN PHILLIP WILLIAMS, San Antonio, TX

CELL AND MOLECULAR BIOLOGY

MARYLYN LISWIN MATHEW,^{2,4} Dallas, TX

CHEMISTRY

JORGE LUIS CHAVEZ, Eldorado, TX
MARCUS JORDAN YIP, Amarillo, TX

EXERCISE AND SPORT SCIENCES

SEAN M. AARON, Aledo, TX
BRENT WILLIAM ALDENDIFER, Plano, TX
JESSICA DYNE ALLEN, Austin, TX
CARRIE ELIZABETH BRADSHAW,² Sundown, TX
DAVID LOUIS BREGGER, Austin, TX
BETHANY SARA CASTILLO, Plano, TX
STEFANIE RENAE CHARLES, Mineral Wells, TX
MICHAEL PAUL CHRISTY, Dallas, TX
ROCKY LYLE DE HOYOS, Muleshoe, TX
AMANDA DANÉ DOWDY,³ Lexington, TX
TERRA MONIQUE EVANS,³ Phoenix, AZ
NICHOLAS JAMES FLORA,² Katy, TX
BENJAMIN KY GIBSON, Pampa, TX
SARAH LIZABETH GODBEE, Fort Worth, TX
MYLES THOMAS GRIFFARD, Odessa, TX
JONATHAN MICHAEL GUERRA, Victoria, TX
DIANA GUERRERO, Olton, TX
BAILEY JO GUTHRIE,² Rigby, ID
WILLIAM ANDREW HANLEY, Dallas, TX
ABIGAIL PAIGE HARWELL, Corpus Christi, TX
ADAM WILLIAM HAYES, The Woodlands, TX
HOLLY DIANE HAYES, Wimberley, TX
JACLYN RENE HAZLEDINE, Southlake, TX
KRISTY AMY HAZLEDINE, Southlake, TX
MITCHELL WILLIAM HICKS, Denver City, TX
KAYLA DIANE HOFFMANN, Plano, TX
OLIVIA HANNEMAN HULME,³ Richardson, TX
SETH RANDALL JOHNSON,³ Forsan, TX
JASON NICHOLAS KRUSEMARK, Austin, TX
JARED WAYNE LAMINACK, Paducah, TX
ROBERT KEITH LISTER, JR., Mesquite, TX
MEGAN LITTLE, Lovington, NM
MELINDA MARIE LONG, Katy, TX
JOSE VENTURA LOPEZ, Bay City, TX
MICHAEL ANTHONY MALDONADO, Petersburg, TX
RYAN PATRICK MAYO, Katy, TX
SEAN DAVID McCANN, Flower Mound, TX
MICHELLE DARYL MENDEZ, Lubbock, TX
IFEATU SOMUTOCHUKWU OKAFOR,² Houston, TX
WILLIAM THOMAS PARDEE, Leander, TX
MICHAEL E. RAMOS, San Antonio, TX
JOEL REYNA, San Antonio, TX
LEE DONOVAN RINEWALT, Lamesa, TX
JAMES ANTHONY VALOR RODRIGUEZ,³ Flower Mound, TX
ROSEVELIA RODRIGUEZ, Palmer, TX
CHELSEA MARIA SANDOVAL, Mansfield, TX
KENDALL JO SCHNEIDER, Spearman, TX
TREVOR GILLET SEDBERRY, Aspermont, TX
DEREK ALAN SOKOLOSKY, Graham, TX
ALFRED DWAYNE SOTO, Idalou, TX
GEORGE VARGHESE, Houston, TX
JACOB MITCHELL VINTINNER, Leander, TX
RYAN JAMES WHITE, Wellington, TX

GEOSCIENCES

JUSTIN RYAN FORTNEY, Cedar Park, TX
BENJAMIN GUTIERREZ, Spring, TX
STEPHEN THOMAS HINOJOSA, Corpus Christi, TX
THOMAS WARNER KNIGHT, Carrollton, TX
LOGAN LEE LANGFORD, Granbury, TX
JESSE DALTON MARTINDALE, Eureka, TX
LAURA MAKENZIE MOORE, Cedar Park, TX
BENJAMIN HENRY RICHARDS, Katy, TX

HEALTH

RACHEL KRISTIN ROBINSON, Amarillo, TX

MATHEMATICS

JOSHUA THOMAS ARCHER, Amarillo, TX
RYAN ALLEN BARBOUR, Fritch, TX
AMY MICHELLE FONTENOT, Houston, TX
REBECCA ANN LELKO,^{1,4} Chardon, OH
JONATHAN MATTHEW RODRIGUEZ, Stafford, TX
NICKLAS LARS RYDBERG,³ Carrollton, TX
CHRISTOPHER JOHN SAUER, Weatherford, OK

MICROBIOLOGY

AARON COLE BRACKEN, Midland, TX
JENNA MARIE BURGIN, Clovis, NM
BEAU RANDALL TURNER, Ballinger, TX

PHYSICS

PHILIP MARK HENRY, Houston, TX
CLAYTON LYNN NIETO, Rosanky, TX
GREGORY EDWARD O'BRIEN, San Antonio, TX
2nd Major: Mathematics
DAVID SEVERIN RYBERG, Germantown, MD
KENNETH ROWLAND VERLAGE, McAllen, TX

BACHELOR OF SCIENCE IN INTERNATIONAL ECONOMICS

INTERNATIONAL ECONOMICS

JESSICA LYNN CARR, Lubbock, TX
KATHERINE PAIGE JONES, Fort Worth, TX
EDWARD JONATHAN MARTINEZ, Dallas, TX
SAVANNAH ELIZABETH MARIE SPEIGHTS, Houston, TX
JUSTIN WAYNE WILLIAMS, Angleton, TX



TEXAS TECH UNIVERSITY
Rawls College of Business

BACHELOR OF BUSINESS ADMINISTRATION

ACCOUNTING

MARY ARDEN AMY, Bedford, TX
ANDREW WILLIAM BLACKWELL, Corsicana, TX
HANNAH MARIE BULLINGTON, North Richland Hills, TX
2nd Major: International Business
TAYLOR MARCOS CARMONA, Beaumont, TX
SEAN SCOTT COLLIER, Tomball, TX
KATHERINE BONNIE CORTINAS, Austin, TX

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

JAMES WARREN DRYSDALE,² Lubbock, TX
ZACHARY SCOTT ELDRIDGE, Florence, TX
CODY WARREN FLANARY, Wall, TX
JUSTIN SCOTT GREEN, Plano, TX
REED HUNTER JOHNSON, San Angelo, TX

2nd Major: Finance

CHRISTOPHER DAVID LUNDQUIST, Plano, TX
FAITH KERUBO METOBO, Arlington, TX
DHRUPESHKUMAR ARVINDKUMAR PATEL, Dalhart, TX
JONATHAN SAMUEL PERLMAN, Dallas, TX
KAITLIN DANIELLE POAGE, Colleyville, TX
VANCE ALBERT SCHUMACHER, Dalhart, TX
NATHAN ALEXANDER SEARCY, Austin, TX
KATRINA LEANN SHIPP, Lubbock, TX
MOLLY ANNE SWANSON, Bedford, TX
JASON MICHAEL TURPIN, Gardner, KS

2nd Major: Finance

KAITLIN D'LANI WHITTET, Stephenville, TX
JARED PAUL WILKERSON,³ Big Spring, TX

2nd Major: Finance

BUSINESS ECONOMICS

MERRITT MARCELLA LACKEY, Lubbock, TX
PRESTON ROSS MUNSON, Snyder, TX
OLUWASEUN OLORUNFUNMI OSUNSAN, Lagos, Nigeria
CHRISTIAN JULIAN TELLEZ, Lubbock, TX
ANDREW J. WILLIAMS, Highland Village, TX

ENERGY COMMERCE

AMIR GASCA ESKAFYAN,³ Chicago, IL
KENNETH DARE FRICK III, Abilene, TX

FINANCE

RUDY JACOB DE LA CRUZ III, San Antonio, TX

2nd Major: General Business

BAILEY ANN HARDY,³ Austin, TX
MINH TUAN HOANG, Lubbock, TX
SAMMIE K. HOWARD, JR., Texarkana, TX
MASON GARY MacNOLL, Abilene, TX
HAYDEN CARL MOLBERG, Dallas, TX

2nd Major: Business Economics

JAMES BOYD PRICE, Lubbock, TX
KYLE ANDREW ROSE,¹ Celina, TX
MICHAEL THAXTON STEVENSON, Wichita Falls, TX

GENERAL BUSINESS

CHAD Q. CONN, Lubbock, TX
BRENT TYLER ERNST, Grapevine, TX
JEFFREY WILSON GOSSETT, Prosper, TX
KIRK MATTHEW GROGAN, Flower Mound, TX
JAMES T. HUGHES, Austin, TX
BROOKE ERIN JUNOT,³ Nederland, TX
GERRON MARSHEEN MOORE, Lubbock, TX
LOGAN REECE MULLINS, Grapevine, TX
GARRETT TRAVIS RILEY,³ Muleshoe, TX
JEFFERY TAYLOR STEVENSON, Katy, TX
JUSTIN BENJAMIN TOON, Dallas, TX
ALEXIS JOSEPHINE VARGAS, El Paso, TX

INTERNATIONAL BUSINESS

JAMES ALAN BARKER, League City, TX
KELLEY LAUREN CRAIG, Austin, TX
DESIDERATA HART, Austin, TX
DAVID ANTHONY KNOTT, San Antonio, TX
ADAM PAUL LEVI, Bedford, TX
JAKOB CURTIS LOVELADY,³ Tuscola, TX
HALSTON ROCHELLE McMULLAN, Coppel, TX
SHILOH FORREST OLD,³ Santa Fe, NM
ALESIA CALERO ROMERO,² Garland, TX
LAUREN ALYSSA SMITH, Waco, TX
LAUREN ELIZABETH TARPLEY, Mesquite, TX

2nd Major: Marketing

JOSHUA ALAN TERRY, Slaton, TX

2nd Major: Marketing

TYLER B. THOMPSON, Lubbock, TX
MANUEL FRANCISCO VELILLA, Corpus Christi, TX

MANAGEMENT

AMY LYN BUFORD, Ingram, TX
DANIEL MONTOYA CARRASCO, Odessa, TX
GARRET ANTHONY COOPER, Carrollton, TX
RICHARD I. CRILL, Snyder, TX
ASHLEY MARIE DEVILLENEUVE, McKinney, TX
EMILY HOLLIS GURLEY, Friona, TX
JAMES ALEXANDER HAIRE, Tyler, TX
JAMES NICHOLAS HANSLIK,³ Lubbock, TX

2nd Major: General Business

SCOTT MICHAEL LEJEUNE, Austin, TX
JASMINE MICHELLE McWASHINGTON, Lubbock, TX
JOHN COX MINOTT III, Sugar Land, TX
SHAUNTAL DEMI NOBELS, Haslet, TX
JOHN CARSON PRICHARD, Ransom Canyon, TX
TYLER SCOTT PUGSLEY, Austin, TX
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JACOB SCOTT SMITH, Alvord, TX
DAVID HOOKS WALLER, Albany, TX
AARON ROSS WEIR, Amarillo, TX
CORA LEA WRIGHT, Lubbock, TX

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JOHN WILLIAM ADAMS, Whiteface, TX
CORY DON HOOTEN, McKinney, TX
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SEAN THOMAS OLLRE, Kemah, TX
JACOB LANE ROSE, Dallas, TX

MARKETING

ANDREW DAVID ALLBRITTON,¹ Plano, TX
ABBY ELIZABETH BARNETT, Beaumont, TX
JOSHUA WAYNE BEASLEY, Hughes Springs, TX
CAMERON LEWIS BRUMFIELD, Breckenridge, TX

2nd Major: Management

DANIEL JAMES BUCKLEY, Austin, TX

2nd Major: Management

BENJAMIN ADAM BURKS, Flint, TX
JOSEPH PATRICK BURON, Farmers Branch, TX
AMANDA MARIE COYLE, Coriscana, TX
ALEX JEFFREY DEPPING, Kingwood, TX
RAUL ANTHONY DIAZ III, Lubbock, TX
MICAH MATTHEW DRIVER, Weatherford, TX
BRYAN JOHN GAY, Keller, TX
DANIELLE JEAN GEORGE, Highland Village, TX
LENDEA ALEXANDRA HARRIS, Mesquite, TX
DANIEL ANDREW HERNANDEZ III, Odessa, TX
EMILY ELIZABETH HINTON, Midland, TX
LOUREL JONES III, Houston, TX

2nd Major: Management

NATALIE NICOLE KENDRICK, Kerrville, TX
JESSICA LOREE KING, Keller, TX
KELLY EVANS KINZER, Lubbock, TX
LANDRY ROBERT LLOYD, Hereford, TX
TYLER CAIN McCORMACK, Lubbock, TX
KAITLYN TRU OTTS, Shamrock, TX
COLIN ALEXANDER PALMER, Bellaire, TX
SARAH ELIZABETH PETERS, Lake Jackson, TX
ANDREW NICHOLAS POWELL, Sammamish, WA
MELISSA ANN SAENZ, McAllen, TX

2nd Major: Management

BRITTANY DANIELLE SANFORD, San Antonio, TX

2nd Major: Management

SHELLEY NICOLE SEALS, Dallas, TX
JOSEPH ROSS SELF, Plano, TX
ROBERT DOUGLAS SHEPARD, Austin, TX
ANNA KATHRYN SMITH, Missouri City, TX
TREY DOUGLAS SMITH, Austin, TX

2nd Major: Management

JOSHUA PHILIP TALBOT, Trophy Club, TX
LUKE CARTER THORBURN, Dallas, TX
THOMAS RIVERS YOST, Dallas, TX



TEXAS TECH UNIVERSITY
College of Education

BACHELOR OF SCIENCE

MULTIDISCIPLINARY SCIENCE

DANIELLE SAMANTHA GIBSON, Houston, TX
SHAWN TAYLOR HORN, Granbury, TX

MULTIDISCIPLINARY STUDIES

ANDREA AGUINAGA,¹ Dallas, TX
APRIL DAWN BEHRENS,¹ Liberty Hill, TX
ALYSSA NICHOLE BERNECHE, Austin, TX
MARIA ANTONIETA CARSON,¹ Fredericksburg, TX
SARA DEBORD,¹ Fredericksburg, TX
ABIGAIL LEE HAMMOND, San Antonio, TX
CHRISTINE MARIE LOTT, Fort Worth, TX
HANNAH MARIA MARKO, Boerne, TX
ANGELECA MEZA PALACIO, Marble Falls, TX
CECILIA ACOSTA SALAZAR,³ Lampasas, TX
VALENTINA ARIZOLA SALINAS,¹ Fredericksburg, TX
NATHAN CHARLES TIDWELL, Lubbock, TX

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

UNDERGRADUATE CANDIDATES



TEXAS TECH UNIVERSITY

Edward E. Whitacre Jr.
College of Engineering

BACHELOR OF SCIENCE

CHEMICAL ENGINEERING

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MICAH STEVEN WESSELS, Cedar Park, TX

CIVIL ENGINEERING

DAVID ALAN GREEN, Lubbock, TX
DAVID MICHAEL GRIGGS, Marietta, GA
AUSTIN STEVEN JENNINGS, Friendswood, TX
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TIMOTHY GRANT RIEDER, Omaha, NE
JEFFREY NELSON THAI, Carrollton, TX
TYLER LAMAR WATTS, Houston, TX

COMPUTER ENGINEERING

JOSHUA LEE BRUHN, The Woodlands, TX
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PRISCILLA ANTIONETTE McDONALD, Duncanville, TX
CASEY JOSEPH SMITH,³ Plano, TX

COMPUTER SCIENCE

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MATTHEW AARON LEGLER,² Austin, TX
RYAN LEE REARDON, Amarillo, TX
TIMOTHY ALLEN RILEY, San Antonio, TX
JONATHAN MATTHEW RODRIGUEZ, Stafford, TX
CHRISTOPHER JOHN SAUER, Weatherford, OK
BOBBY LEE SUMNERS, Midland, TX
WHITNEY NICOLE WEBSTER, Odessa, TX

CONSTRUCTION ENGINEERING

DAVID GONZALEZ, Boerne, TX

ELECTRICAL ENGINEERING

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CAMERON CHARLES COLE, Keller, TX
RYAN SCOTT GERIES,³ Friona, TX
JIM ROBERT HOTCHKIN, Bridgeport, TX
DAUN JOUNG, Seoul, South Korea
MARK DAVID LEMONS, Wellington, TX
2nd Major: Civil Engineering
JOSÉ RAMÓN LÓPEZ-CORDELL, McKinney, TX
MICKY WADE MACHEN, Plainview, TX
JOSHUA LYNN MADDOX, Springlake, TX
JOSHUA DAVID MILLS, Lubbock, TX
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DAVID EDWARD NORMAN, Grand Prairie, TX
JOHN G. PAPADOPOULOS, Live Oak, TX
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ENGINEERING TECHNOLOGY

ZANE RAY ELKINS, Lubbock, TX
LLOYD COLLINS HAMILTON, El Paso, TX
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BRYCE ALDEN McNELIS, Austin, TX
JOHN FRANKIE MORENO, Sinton, TX
MICHAEL BRUCE PERRINE, JR., Austin, TX
GREGORY MALCOLM RIGGAN, Lubbock, TX
RAMIRO R. RODRIGUEZ, III, Abilene, TX
TRENTSTON DURAL SIMON, Keller, TX
NICHOLAS STEPHEN STEDMAN, Houston, TX
CHIMA DAVIS UDEOGU, Carrollton, TX
DAVID PAUL WAGNER, Austin, TX

INDUSTRIAL ENGINEERING

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BRIAN PATRICK BELL, Paris, TX
BRITTANY RULYN ELLISON, Tuscola, TX
DERIK DANIEL GAWLIK, Odessa, TX
DREW NELSON HAWK, Allen, TX
LAQUINTI SENTELL HUNTSBERRY, Dallas, TX
REID GREGORY MALLOCH, Cypress, TX
BROCK ALEXANDER MARTIN, Grapevine, TX

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RYAN JOSEPH MURPHY, Abilene, TX
PHILIP SAMUEL NICHE, McKinney, TX
KYLE ANTHONY NOLL, Alvin, TX
AMAR KAMALNAYAN PATEL, Ahmedabad, India
COOPER ROY READ, Pearland, TX
ALEXANDER CHARLES SCHULTZ,³ Montgomery, TX
EVAN VARGAS,² Lubbock, TX

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TEXAS TECH UNIVERSITY

College of Human Sciences

BACHELOR OF SCIENCE

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TESSA ANNE MARSH, Paducah, KY
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PEYTON LEIGH SCOTT, Lubbock, TX
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¹Summa Cum Laude ²Magna Cum Laude ³Cum Laude ⁴With Honors ⁵With Highest Honors

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RACHEL LOUISE TRAPP,² Albuquerque, NM



TEXAS TECH UNIVERSITY
College of Mass Communications²

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MARY TALLY McCORMACK, Colleyville, TX
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MATTHEW MELECIO VILLANUEVA, San Antonio, TX

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MARISSA CARRASCO GONZALES, Dallas, TX
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TEXAS TECH UNIVERSITY
University College²

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MOHAMMED ADBULWAHAB AL ALWAN, Alhassa, Saudi Arabia
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FIELD JONATHAN BENNING, El Paso, TX
ROBERT BRYAN BENTLEY, Houston, TX
JOHN CHARLES BRADDOCK, Pampa, TX
JENNIFER LYNN ARNOLD-BUCHANAN, Midland, TX
DEVIN DUBOSE CANGELOSE, Dallas, TX
KATHERINE MICHELLE COIT, Midland, TX
DAWN MARIE COLLUM, Comfort, TX
CINNAMON CLARKE DYSON, Waco, TX
SAM GREGORY ESTES, Lubbock, TX
COLIN DAVID FAHEY, Sugar Land, TX
BRIAN STEPHEN FARLEY, Midland, TX
AGAPITO JESUS FLORES, San Antonio, TX
WHITNEY PAGE GAINES, Sterling, IL
MARIANA ALYSSA GARCIA, Corpus Christi, TX
VICTORIA DANIELLE GARZA, Arlington, TX
MEAGAN AMBER GOLLIHAR, Hamby, TX
GRAYCE RENE GREGG, Grapevine, TX
THOMAS VAL HANDRICK, JR, Perryville, MO
JAMES DAVID HARPER, Austin, TX
DEREK MONTGOMERY HICKS, Big Spring, TX
ALLEN LEROY HIGBY II, Lubbock, TX
AMBER DENISE HOUSE, Lubbock, TX
RYAN SCOTT HOWELL, Dalhart, TX
JAMES EVERETT HUNT, Beeville, TX
ELIAS GALVAN JALOMO, Ballinger, TX
BARRY KENNETH JOHNSON, Aledo, TX
PHILLIP EDWARD JONES, Carrollton, TX
ANTHONY VINCENT LASTRAPE, Oceanside, CA
JACE DAVID LEEDY, Abilene, TX
NATHAN HENRY LEIBOLD, Highland Village, TX

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

UNDERGRADUATE CANDIDATES

PETER PAUL GANZON LONGNO, Odessa, TX
 MOLLY BESS MACON, Dallas, TX
 ALYSSA LEANN MATTSON, Abilene, TX
 DUSTIN ROBIN MCCARTY, Borger, TX
 MICHAEL REID McRAE II, Plano, TX
 ALEESHA MAREE MORALES, Midland, TX
 MICHAEL HOWARD MORGAN, Midland, TX
 CASEY NICOLE MORRIS, Fairfield, CA
 CARLA JEAN NEVEN, San Antonio, TX
 NICOLETTE OLUFELA ONADELE, Waxahachie, TX
 CHRESTIEN TRENTON OSBORNE, Colleyville, TX
 ZACH BRUCE PECKOVER, Austin, TX
 NICHOLAS ROBERT POPESCU, Flower Mound, TX
 JACOB CLIFFORD POWELL, Coppel, TX
 BLAKE ANTHONY RADER, Houston, TX
 MARIE AMANDA RAMOS, Odessa, TX
 MOISES RAMOS-CARRASCO, Odessa, TX
 CYNTHIA KAY RICHARDSON, Odessa, TX
 ERIN LEIGH ROBERTS, Austin, TX
 DEEDEE DIANE ROBERTSON, Marble Falls, TX
 MARIA HELENA RODRIGUEZ, Lorenzo, TX
 JOHN DANIEL SCHAEFER, Houston, TX
 BRADY KYLE SCOGGIN, Olton, TX
 ROBERT RITCHIE SEQUENZIA, Plano, TX
 JODY LAYNE SLAUGHTER, Levelland, TX
 JULIE ANN SPRAGGINS, Azle, TX
 PETER AARON SURLEY, Boerne, TX
 CHAD TENNYSON, Trophy Club, TX
 ASHLEY ELIZABETH TUCKER, Kingwood, TX
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UNIVERSITY STUDIES

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 CALVIN BRANDON BOGART, Midland, TX
 CHRISTOPHER ROBERT BOWMER, Mesquite, TX
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 JARED WAYNE FERGUSON, Buffalo, TX
 THADDAEUS ADAM GOODLING, Haltom City, TX
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 WHITNEY MORGAN SWARTZ, Plano, TX
 CLINTON PAUL UNGER, Amarillo, TX
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GENERAL STUDIES

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 THOMAS EDWARD WALKER, Friendswood, TX



TEXAS TECH UNIVERSITY
**College of Visual
 & Performing Arts**

BACHELOR OF ARTS

DANCE

ANNA MARIE CONSTANCIA, San Angelo, TX

MUSIC

NATANYA CHANTELE RIDLEY,¹ Ransom Canyon, TX

THEATRE ARTS

BRIANA MARIE LOYA, El Paso, TX
 TIFFANY DANIELLE PARSLEY, Lubbock, TX
 KATHERINE LEIGH RAMIREZ, Pecos, TX

BACHELOR OF FINE ARTS

ART

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 LINDSEY ELISE COULTER, Comanche, TX
 NICHOLAS FOREST DOWDELL, Katy, TX
 ROBERT ANDREW MONK, Sugar Land, TX
 ANNA CATHERINE POWE, Midland, TX
 RACHEL LOUISE TRAPP,² Albuquerque, NM
 ERICA CATHERINE WHITE, Flower Mound, TX

BACHELOR OF MUSIC

MUSIC

DANIEL COLTER KING, Lubbock, TX
 ARIELLE LEAH MURPHY, Kingwood, TX
 JAMES ROBERT PENDELL,³ Clint, TX
 LEE PATRICK WILLIS,³ San Antonio, TX

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



MILITARY COMMISSIONS

*The following student is being commissioned as a
 Second Lieutenant in the United States Air Force:*

JOSÉ RAMÓN LÓPEZ-CORDELL, McKinney, TX

Each of the following students are being commissioned as Second Lieutenants in the United States Army:

CLAYTON COLE HARRISON, Muenster, TX
 TRAVIS PAUL JONES, San Antonio, TX
 JAIME PEREZ, Comfort, TX

JAE HONG REDFEARN, Houston, TX
 DARCY SEPE STANFORD, Valrico, FL
 ASHLEY MICHELLE SVANE, Flower Mound, TX

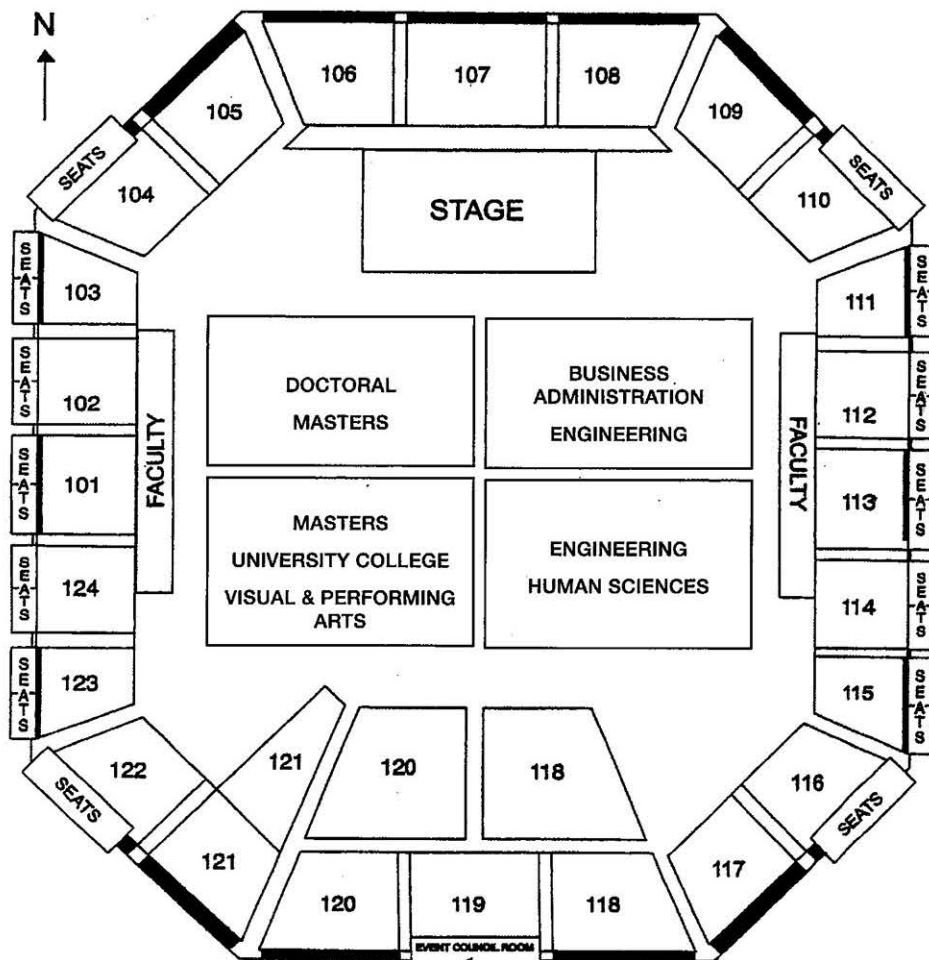
This program is an unofficial list of August 2012 graduates and should not be used to determine a student's academic or degree status. The actual award of honors reflected on a student's diploma will be determined by the student's final academic average. The university's official registry for conferral of degrees is the student's permanent academic record kept by the Office of the Registrar.

United Spirit

A R E N A

Saturday, August 11, 2012

9:00 a.m.



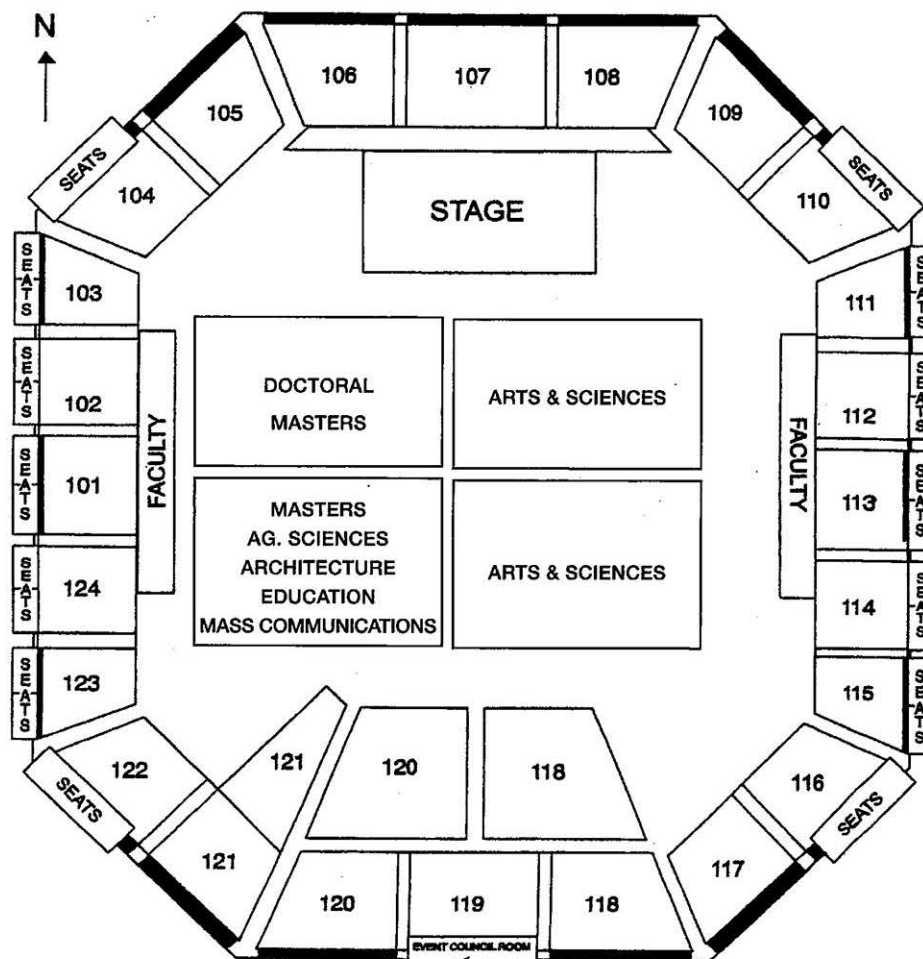
♿ Designated by ■

United Spirit

A R E N A

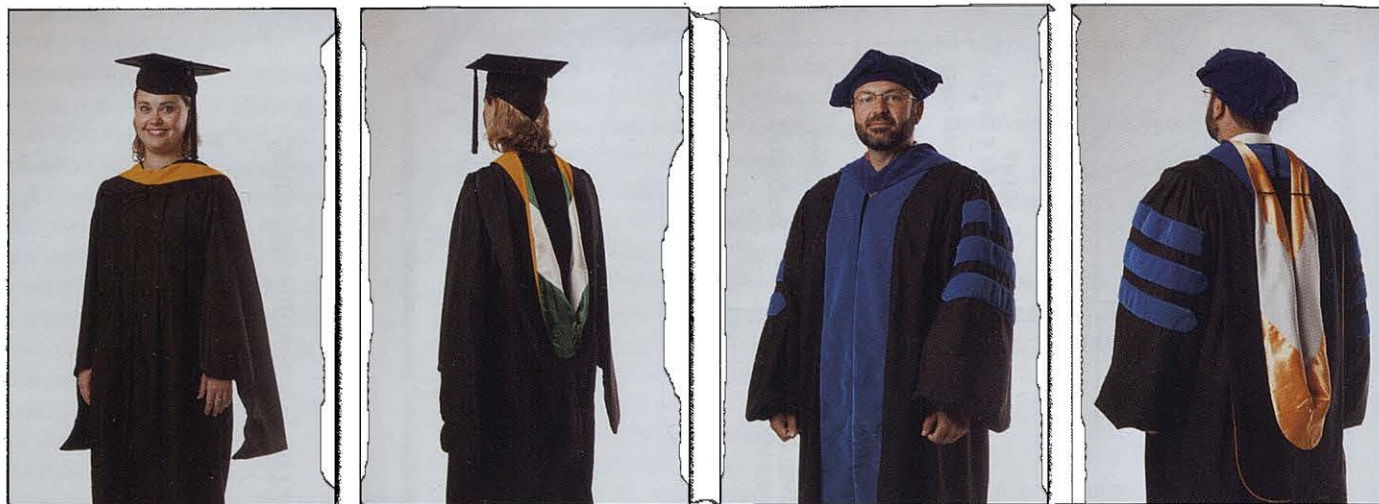
Saturday, August 11, 2012

1:30 p.m.



♿ Designated by ■

ACADEMIC DRESS AND PROCESSION



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

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

Wearing academic dress at commencement ceremonies dates from the early history of the oldest universities during the 12th or 13th century.

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 3.50 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).

Students elected to Phi Beta Kappa 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

ACADEMIC DRESS AND PROCESSION



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.



UNDERGRADUATE ROBE: A red stole displaying the Double T and seal of the university distinguishes students receiving baccalaureate degrees. Degree candidates wearing red cords will graduate with honors designations based on a minimum 3.50 GPA.

COLOR CHART FOR FIELDS OF STUDY

The following is a list of colors established by the Inter-collegiate Code to represent the different 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

TEXAS TECH COMMENCEMENT ANNOUNCEMENTS

GRADUATE PHOTOGRAPHS

A professional photographer will be taking photos of graduates as they receive their diplomas. You will be able to view and order these photos at www.candidcolorphotography.com. Click on "view proofs" and then "graduations." Images will be posted within 48 hours of the ceremony. Photographers 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 to have these photos taken.

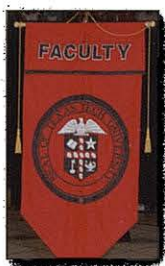
COMMENCEMENT DVD

The Texas Tech Alumni Association encourages you to order your Texas Tech Commencement DVD to commemorate your achievement. Available at a cost of \$45, the DVD purchase also will include a one-year Texas Tech Alumni Association gift membership. This membership will help you stay connected to Texas Tech. To reserve your 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.

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 gonfalone, 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 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 and Natural Resources was one of the four founding schools of the university in 1924. The college banner was recently redesigned, and the new



banner was first used in the December 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 blue-violet background color of the **College of Architecture** is the color established by the Intercollegiate Code to designate this academic area and is also seen in the velvet border of Architecture master's and doctoral hoods and doctoral gowns. The Ionic column symbol set in a red circle references the traditions of classical architecture. The banner was designed by Bill Felty, a retired Associate Dean for the College of Architecture.



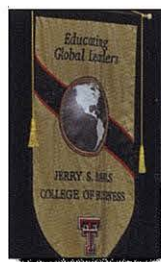
The blue background color of the **College of Education** banner reflects the light blue color designated for education by the Intercollegiate Code and is also seen in the velvet border of education master's and doctoral hoods and doctoral gowns. The upper area of the banner carries a school building 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 education-

al scholarship, leadership and service. The TTU 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 and Sciences banner was created in 2000 by Randal



Lacy, a technician in the Office of the Dean. The red and black colors appropriately represent the largest and most diverse college in the university. The college logo depicts the college initials in a sweeping, modernistic monogram. The Texas Tech seal is centered at the lower point of the banner.

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 Graduate School banner was designed by the late Associate Dean Thomas Langford and Ms. Peggy Edmonson, who was a Graduate School staff member 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 Es-sien, 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 represent 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 has a dark brown field with the name of the college at the top. Underneath and centered on the banner are the words "Improving and Enhancing the Human Condition," which enclose a divided circle. The left side of the circle contains a map of the Western

Hemisphere and the right side features three human faces in silhouette, a man, a woman and a child, each of which is a different color. The map represents the connectedness of the global human community, and the diversity of the faces and their age represent the families and communities served by

College of Human Sciences programs. The banner was adapted by former Associate Dean Steven M. Harris from an original symbol created by Dr. Ben Goh, a faculty member in the college.

The **College of Mass Communications** banner illustrates waves of information emanating from a single point—one voice heard by many. The banner is white with a horizontal crimson bar across the top and crimson lettering. 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 bar is the name of the college and under that is a square with three waves representing the diffusion of information. The university seal appears at the bottom of the banner.

The banner for **University College** reflects the global engagement vision of Texas Tech University to reach students on campus, offcampus, and around the world.



The name University College does not suggest a defined set of disciplines but is often used for one or more of several purposes including distance and off-campus programs, interdisciplinary and general studies programs, and programs for adult and non-traditional students.

The **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 Department 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.

PHOTO CREDITS

Student Media: Page 3, 34 (Guns Up)
Neal Hinkle: Pages 4, 5, 7, 8
Sothy Eng: Page 34 (Carol of Lights)
Artie Limmer: Cover Photo; Pages 6, 35 (Will Rogers, Masked Rider), 36
Jerod Foster: Page 30

SPECIAL THANKS

Members of the Institute of Electrical and Electronic Engineers Texas Tech Student Branch assisted with preparing diploma tubes

PRODUCTION

Produced by the Office of the Provost in cooperation with the Convocation Committee and the Office of Official Publications at Texas Tech University. Sue H. Jones, Editor; Cheryl Hedlund, Assistant Editor.

TEXAS TECH TRADITIONS



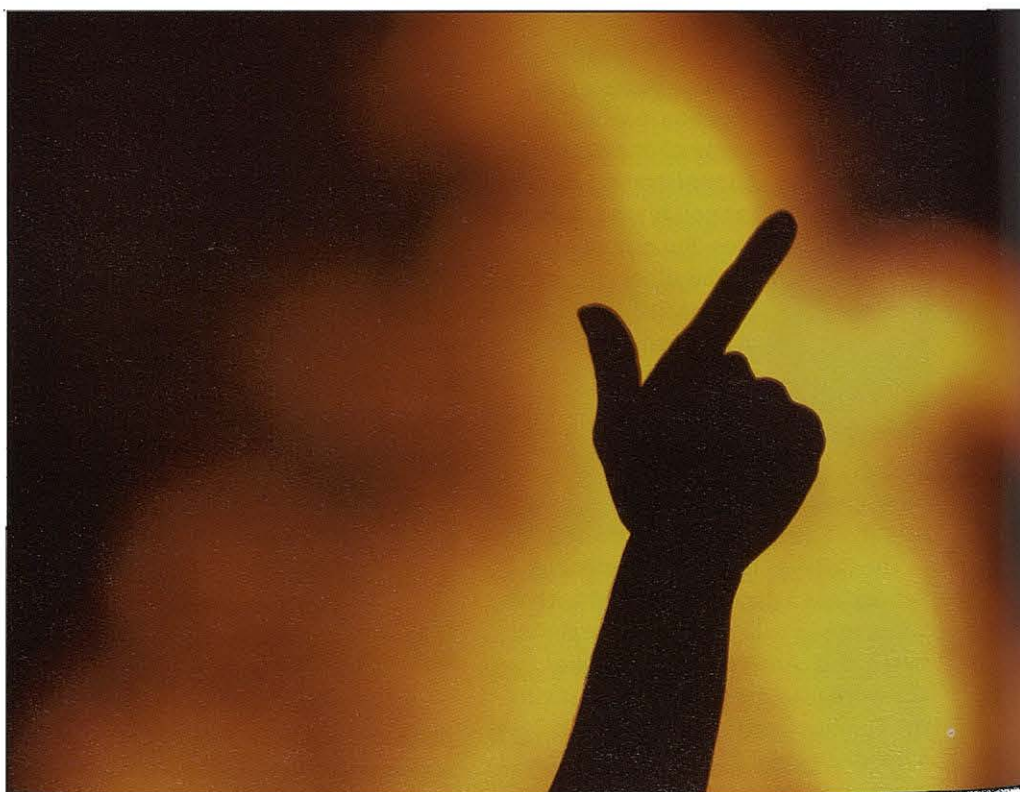
CAROL OF LIGHTS

More than 25,000 red, white, and orange lights make up the spectacular Carol of Lights display held annually in December. The lights are on more than six miles of wire and adorn 13 campus buildings.

A single switch activates the relays and turns on all the lights at once. More than 20,000 participants gather around a darkened Memorial Circle to listen to the Texas Tech choir and watch the Masked Rider and torch-carrying Saddle Tramps parade through the circle.

GUNS UP

This hand sign can be traced back to L. Glenn Dippel, a 1961 alumnus who lived in Austin and faced the daily presence of the "Hook 'em Horns" hand sign. He and his wife Roxie decided to retaliate, looked to the mascot Red Raider and his guns for inspiration, and developed the Guns Up hand signal in 1971. The Saddle Tramps and cheerleaders immediately adopted Guns Up and a new tradition was born.



THE MASKED RIDER

The Masked Rider is a colorful symbol of Texas Tech school spirit and pride. Wearing black riding clothes, mask, bolero hat, and red cape, the Masked Rider mounts a black quarterhorse to lead the football team onto the field. Early Tech students started the tradition on Sept. 26, 1936. Called Ghost Riders because no one knew their identities, the rider would appear mysteriously during home football games wearing a scarlet satin cape and riding a palomino stallion. The rider would circle the field at breakneck speed and disappear for the remainder of the game. Years later, George Tate, a member of the Class of 1937, admitted being the first Ghost Rider. When Tech played in the Gator Bowl on Jan. 1, 1954, Joe Kirk Fulton—the university's first official Masked Rider—rode a horse named Blackie and led the team onto the field. Fulton wore Levi's, a red shirt, red and black cape, and a black cowboy hat. Ed Danforth of the *Atlanta Constitution* wrote: "No team in any bowl game ever made a more sensational entrance."



WILL ROGERS AND SOAPSUDS

Will Rogers, a famous humorist in the 1920s and 30s, donated \$200 for the Texas Tech band to play at the football game against TCU on Oct. 20, 1926. He wanted people to hear "a real band." Rogers was encouraged by his longtime friend Amon G. Carter, the college's first chairman of the board of directors, to donate \$1,500 to buy new band uniforms for the trip to TCU. Carter matched the contribution. In 1948, the Amon G. Carter Foundation presented to Texas Tech a statue of Rogers and his horse, Soapsuds, entitled "Riding into the Sunset." Sculpted by Electra Waggoner Biggs, who was only 18 years old at the time, the statue is one of four in the United States.

GOIN' BAND FROM RAIDERLAND

The Goin' Band from Raiderland has grown from a scraggly group of 20 members in 1925 to 425 today, making it the largest marching band in the Big 12. Texas Tech was the first college in the nation to allow females in its marching band, a move that kept the band afloat during the difficult World War II years. In 1999 the band was awarded the highest honor for a collegiate marching program, the Sudler Trophy. The traveling trophy is awarded for demonstrating "particular excellence over a period of years."



*Fight, Matadors, for Tech!
Songs of love we'll sing to thee.
Bear our banners far and wide.
Ever to be our pride.
Fearless champions ever be.
Stand on heights of victory.
Strive for honor evermore.
Long live the Matadors.*

(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 came when 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 school song.)



CONGRATULATIONS
Summer 2012 Graduates