COMMENCEMENT
FALL 2015

Friday, December 11, 2015 3:00 p.m. and 7:00 p.m.
Saturday, December 12, 2015 9:00 a.m. and 1:30 p.m.
UNITED SUPERMARKETS ARENA  LUBBOCK, TEXAS
As a public research university, Texas Tech advances knowledge through innovative and creative teaching, research, and scholarship. The university is dedicated to student success by preparing learners to be ethical leaders for a diverse and globally competitive workforce. The university is committed to enhancing the cultural and economic development of the state, nation, and world.
TEXAS TECH UNIVERSITY ADMINISTRATION

M. DUANE NELLIS, Ph.D.
President and Professor of Geosciences

LAWRENCE E. SCHOVANE, Ph.D.
Provost and Senior Vice President;
Professor of Mathematics and Statistics

NOEL SLOAN, J.D., CPA
Vice President for Administration and Finance;
Chief Financial Officer

ROBERT V. DUNCAN, Ph.D.
Vice President for Research;
Professor of Physics

JUAN S. MUNOZ, Ph.D.
Senior Vice President for Institutional
Diversity, Equity, and Community Engagement;
Vice Provost for Undergraduate
Education and Student Affairs;
Associate Professor of Curriculum and Instruction

TEXAS TECH UNIVERSITY SYSTEM
CHANCELLOR / BOARD OF REGENTS

ROBERT DUNCAN, J.D.
Chancellor,
Texas Tech University System
Professor of Law

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Dallas, Texas

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MR. CHRISTOPHER M. HUCKABEE
Fort Worth, Texas

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MR. JOHN ESARPAZ
Austin, Texas

MR. TIM LANCASTER
Abilene, Texas

MRS. DEBBIE MONTFORD
Vice Chairman
San Antonio, Texas

MR. L. FREDERICK “RICK” FRANCIS
El Paso, Texas

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MR. RONNIE HAMMONDS
Houston, Texas

MS. VICTORIA MESSER
Canyon, Texas

ACADEMIC OFFICERS

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

DARBY DICKERSON, J.D.
Dean, School of Law;
W. Frank Newton Professor of Law

MICHAEL L. GALYEAN, Ph.D.
Dean, College of Agricultural Sciences and
Natural Resources; Paul Whitfield Horn Professor
and Thornton Distinguished Chair,
Animal and Food Sciences

ANDREW D. VERNOOY, M.Des.S.
Dean and Professor,
College of Architecture

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

LANCE A. NAIL, Ph.D., CFA
Dean, Jerry S. 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, Edward E. Whitacre Jr.
College of Engineering;
Professor of Chemical Engineering

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

LINDA C. HOOVER, Ph.D.
Dean, College of Human Sciences;
Professor of Restaurant, Hotel and
Institutional Management

DAVID D. PERLMUTTER, Ph.D.
Dean, College of Media and Communication;
Professor of Journalism and
Electronic Media/Public Relations

ANDREW W. MARTIN, M.F.A.
Interim Dean, College of Visual and
Performing Arts; Professor of Art

BELLA KARR GERLICH, Ph.D.
Dean of Libraries
FROM ITS VERY BEGINNING

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

Today, Texas Tech continues to thrive, with more than 36,000 students enrolled in its 11 colleges: Agricultural Sciences and Natural Resources, Architecture, Arts and Sciences, Jerry S. Rawls College of Business, Education, Edward E. Whitacre Jr. College of Engineering, Honors College, Human Sciences, Media and Communication, Visual and Performing Arts, and the Graduate School, as well as University Programs via the Provost’s Office. The institution’s goal is to enroll 40,000 students by 2020.

Because of its educational scope and purpose, as well as the size of the region it serves, Texas Tech University operates in numerous Texas locations beyond the Lubbock campus. In all, the Texas Tech University System—which includes Texas Tech University, Angelo State University, Texas Tech University Health Sciences Center, and Texas Tech University Health Sciences Center at El Paso—has more than 44,000 students enrolled.
SINCE TEXAS TECH’S FIRST graduation ceremony in the spring of 1927, more than 200,000 undergraduate and graduate degrees have been awarded by the university. From these proud graduates have emerged captains of industry, world-renowned surgeons, noted authors, famous singers, acclaimed teachers and professors, attorneys, entrepreneurs, agronomists, scientists, professional athletes, and countless others who have claimed positions of service and responsibility in a rapidly changing world.

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

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

From here, it’s possible.
Friday, December 11, 2015
3:00 p.m.

Presiding
Dr. M. Duane Nellis
President, Texas Tech University

Processional*
Texas Tech Commencement Band
Mr. Duane Hill, Conductor

National Anthem
Ms. Rebecca Mae Bauer
Graduating with a Bachelor of Music

Welcoming Remarks
Mr. Larry K. Anders
Board of Regents, Texas Tech University System

Chancellor’s Remarks
Mr. Robert Duncan
Chancellor, Texas Tech University System

Introduction of Commencement Speaker
Dr. M. Duane Nellis

Commencement Address
Ms. Marsha Sharp
Lady Raiders Head Coach Emerita; Associate Athletics Director for Special Projects, Texas Tech University

Conferring of Degrees
Dr. M. Duane Nellis
Dr. Lawrence E. Schovanec
Provost and Senior Vice President

Presentation of Bachelor’s Degree Candidates
Dr. W. Brent Lindquist
Dean, College of Arts and Sciences
Dr. Michael San Francisco
Dean, Honors College

Recognition of Outstanding Students
Class of 2015
Dr. Lawrence E. Schovanec

Charge to the Graduates
Dr. M. Duane Nellis

Alma Mater
(Words on Back Cover)
Ms. Gretchen Rae Brosz
Graduating with a Bachelor of Music

Recessional*
Texas Tech Commencement Band

* Please remain seated during the Processional and Recessional
COMMENCEMENT CEREMONY

Friday, December 11, 2015
7:00 p.m.

Presiding

Dr. M. Duane Nellis
President, Texas Tech University

Processional*

Texas Tech Commencement Band
Mr. Duane Hill, Conductor

National Anthem

Mr. Stephen Ray Sims
Graduating with a Doctor of Musical Arts

Welcoming Remarks

Mr. Tim Lancaster
Board of Regents, Texas Tech University System

Chancellor’s Remarks

Mr. Robert Duncan
Chancellor, Texas Tech University System

Introduction of Commencement Speaker

Dr. M. Duane Nellis

Commencement Address

Ms. Marsha Sharp
Lady Raiders Head Coach Emerita;
Associate Athletics Director for Special Projects, Texas Tech University

Conferring of Degrees

Dr. M. Duane Nellis
Dr. Lawrence E. Schovanec
Provost and Senior Vice President

Presentation of Doctoral and Master’s Degree Candidates

Dr. Mark A. Sheridan
Vice Provost for Graduate Studies and Dean, Graduate School

Recognition of Outstanding Students Class of 2015

Dr. Lawrence E. Schovanec

Charge to the Graduates

Dr. M. Duane Nellis

Alma Mater
(Words on Back Cover)

Mr. Stephen Ray Sims

Recessional*

Texas Tech Commencement Band

* Please remain seated during the Processional and Recessional
# Commencement Ceremony

**Saturday, December 12, 2015**  
9:00 a.m.

<table>
<thead>
<tr>
<th>Event</th>
<th>Speaker/Position</th>
</tr>
</thead>
</table>
| Presiding                            | Dr. M. Duane Nellis  
President, Texas Tech University                                                                 |
| Processional*                        | Texas Tech Commencement Band  
Mr. Duane Hill, Conductor                                                           |
| National Anthem                      | Ms. Gretchen Rae Brosz  
Graduating with a Bachelor of Music                                                  |
| Welcoming Remarks                    | Mrs. Debbie Montford  
Board of Regents Vice Chairman, Texas Tech University System                        |
| Chancellor’s Remarks                 | Mr. Robert Duncan  
Chancellor, Texas Tech University System                                                |
| Introduction of Commencement Speaker | Dr. M. Duane Nellis                                                              |
| Commencement Address                 | Ms. Marsha Sharp  
Lady Raiders Head Coach Emerita;  
Associate Athletics Director for Special Projects, Texas Tech University             |
| Conferring of Degrees                | Dr. M. Duane Nellis  
Dr. Lawrence E. Schovanec  
Provost and Senior Vice President                                                     |
| Presentation of Bachelor’s Degree Candidates | Dr. Linda C. Hoover  
Dean, College of Human Sciences  
Professor Andrew W. Martin  
Interim Dean, College of Visual and Performing Arts  
Dr. Clifton Ellis  
Associate Dean for Academics, College of Architecture  
Dr. Al Sacco, Jr.  
Dean, Edward E. Whitacre Jr. College of Engineering  
Dr. Scott Ridley  
Dean, College of Education |
| Recognition of Outstanding Students  | Dr. Lawrence E. Schovanec                                                        |
| Class of 2015                         |                                                                                |
| Charge to the Graduates              | Dr. M. Duane Nellis                                                             |
| Alma Mater (Words on Back Cover)     | Ms. Rebecca Mae Bauer  
Graduating with a Bachelor of Music                                                  |
| Recessional*                         | Texas Tech Commencement Band                                                    |

* Please remain seated during the Processional and Recessional
**COMMENCEMENT CEREMONY**

**Saturday, December 12, 2015**  
**1:30 p.m.**

<table>
<thead>
<tr>
<th>Event</th>
<th>Person/Role</th>
</tr>
</thead>
</table>
| Presiding                                  | Dr. M. Duane Nellis  
*President, Texas Tech University*                                             |
| Processional*                              | Texas Tech Commencement Band  
*Mr. Duane Hill, Conductor*                                                        |
| National Anthem                            | Ms. Mackenzie Erin Malone  
*Graduating with a Bachelor of Music*                                              |
| Welcoming Remarks                          | Mr. Christopher M. Huckabee  
*Board of Regents, Texas Tech University System*                                    |
| Chancellor's Remarks                       | Mr. Robert Duncan  
*Chancellor, Texas Tech University System*                                         |
| Introduction of Commencement Speaker       | Dr. M. Duane Nellis                                                        |
| Commencement Address                       | Ms. Marsha Sharp  
*Lady Raiders Head Coach Emerita;  
Associate Athletics Director for Special Projects, Texas Tech University*          |
| Conferring of Degrees                      | Dr. M. Duane Nellis  
Dr. Lawrence E. Schovanec  
*Provost and Senior Vice President*                                                  |
| Presentation of Bachelor's Degree Candidates | Dr. Lance A. Nail  
*Dean, Jerry S. Rawls College of Business*                                          |
|                                           | Dr. Juan S. Muñoz  
(presenting University Studies and Wind Energy degrees)  
*Senior Vice President for Institutional Diversity, Equity, and  
Community Engagement; Vice Provost for Undergraduate  
Education and Student Affairs*                                                        |
|                                           | Dr. Glenn Cummins  
*Associate Dean for Research, College of Media and Communication*                |
|                                           | Dr. Michael San Francisco  
*Dean, Honors College*                                                              |
|                                           | Dr. Michael L. Galyean  
*Dean, College of Agricultural Sciences and Natural Resources*                   |
| Recognition of Outstanding Students Class of 2015 | Dr. Lawrence E. Schovanec                                                  |
| Charge to the Graduates                    | Dr. M. Duane Nellis                                                        |
| Alma Mater                                 | Ms. Mackenzie Erin Malone                                                  |
| (Words on Back Cover)                      | Texas Tech Commencement Band                                               |

*Please remain seated during the Processional and Recessional*
COMMENCEMENT SPEAKER

Marsha Sharp is Head Coach Emerita at Texas Tech University. In 24 seasons as head coach of the Texas Tech Lady Raiders, she had a career record of 572-189 and led her team to eight conference championships, 10 Sweet 16 appearances, four Elite Eight appearances, and a national championship in 1993. She was named National Coach of the Year in 1993 and 1994 and SWC/Big 12 Coach of the year seven times. She was inducted into the Texas Women’s Hall of Fame in 1999, the Texas Sports Hall of Fame in 2000, the Women’s Basketball Hall of Fame in 2003, and the Texas Panhandle Sports Hall of Fame in 2008. In the spring of 2010, Sharp received the Naismith Outstanding Contributor to Basketball Award and the Women’s Basketball Coaches Association Jostens Berenson Lifetime Achievement Award.

Despite all her successes on the court, Coach Sharp holds her players’ academic achievements above all else, having ended her coaching career with a nearly perfect player graduation rate. Thanks to her vision, persistence, and her own initial gift, the Marsha Sharp Center for Student-Athletes opened in January 2004. The center provides student-athletes with the most up-to-date academic services facilities in the nation. Awarded the Lauro F. Cavazos award from the Texas Tech Alumni Association, Sharp was also honored by Texas Tech upon being named Head Coach Emerita. In the fall of 2004 Coach Sharp added author to her list of accomplishments as her book, “Tall Enough to Coach,” became a best-seller. She has also been a TV color analyst for the San Antonio Silver Stars of the WNBA during the 2007 and 2008 seasons and for the Texas Tech Lady Raiders from 2010-2012.

At Texas Tech, she is currently an Associate Athletics Director for Special Projects. She is developing the Fearless Champions Leadership Academy, oversees the Marsha Sharp Leadership Circle, professional development, and community involvement. A sought-after speaker, consultant, and team building expert, she continues to promote the topics of gender equity, civility, ethics, and leadership for coaching staffs, athletic teams, and corporations.

ABOUT PRESIDENT M. DUANE NELLIS

Marsha Sharp

M. Duane Nellis was named the 16th president of Texas Tech University on March 22, 2013, and began serving as president in June 2013. As a national higher education leader and president of Texas Tech, Nellis has been committed to enhancing Texas Tech University’s presence as a top tier national public research university through efforts that promote even greater levels of student success, academic quality and reputation, research and creative activities, and outreach dimensions. Nellis has defined Texas Tech 21st-century pillars of excellence around such themes as being more entrepreneurial, more engaged, with a commitment to inter-disciplinary activities and global connections, while enhancing diversity.

He is recognized nationally and internationally for his research that utilizes satellite data and geographic information systems to analyze various dimensions of the Earth’s land surface. This research has been funded by more than 50 sources, such as NASA, the National Geographic Society, the U.S. Agency for International Development, and the U.S. Department of Agriculture. His research has led to more than 120 articles and reports in a wide range of professional journals, and 17 books and book chapters. He has given more than 100 professional presentations and has been invited to speak at more than 60 universities and related settings internationally.

Nellis also has been recognized nationally and internationally for his research and teaching through numerous awards from organizations such as the Association of American Geographers (AAG), AAG’s John Fraser Hart Award for Excellence in Research, the Outstanding Contributions Award by the AAG’s Remote Sensing Specialty Group, the Young Research Scholar Award by the Institute of British Geographers, the Kansas State University Outstanding Teaching Award and University Adviser of the Year Award, as a Fellow of the American Association for the Advancement of Science, and as a Distinguished Alumni Fellow Award recipient from Oregon State University. Nellis previously served as provost and senior vice president at Kansas State University. He also served as dean of the Eberly College of Arts and Sciences at West Virginia University, the institution’s largest academic college.
CONVOCATIONS COMMITTEE
Dr. Barent McCool, Chair
Dr. Alan Barenberg
Dr. Shane Blum
Mr. Thad Brock
Dr. Julie Chang
Dr. Fanni Coward
Ms. Gracen Daniel
Dr. Mukaddes Darwish
Prof. Genevieve Durham DeCesaro
Ms. Peggy Flores
Dr. Kristi Gaines
Dr. Courtney Gibson
Dr. Roxie Godfrey
Dr. Matt Hart
Ms. Laura Heinz, Chair-Elect
Dr. Karlos Hill
Dr. Catherine Jai
Dr. David Klein
Dr. Katie Langford
Dr. Jaime Malaga
Ms. Sheon Montgomery
Dr. Mark Moore
Dr. Mary Murimi
Dr. Diego Pascual
Dr. Anne Prouty
Mr. Tom Rohrig
Mr. Matthew Schlief
Ms. Cheryl Stephenson
Ms. Carrye Syma
Mr. Jake Syma
Dr. Marcus Tanner
Dr. Susan Tomlinson
Ms. Lynn Whitfield
Ms. Heidi Winkler
Dr. Aliza Wong
Mr. Le Yang
Dr. Amani Zaier

COLLEGE READERS
Agricultural Sciences and Natural Resources –
Dr. David Weindorf
Architecture – Professor Michael T. Martin
Arts and Sciences – Dr. Jorge Iber
Business – Mr. Derrick Ginter
Education – Dr. Katherine Button
Engineering – Mr. Derrick Ginter
Graduate School – Dr. William Gelber
Honors College – Dr. Jim Brink
Human Sciences – Dr. Bill Gustafson
Media and Communication – Dr. Todd Chambers
University Programs – Dr. Marcus Tanner
Visual and Performing Arts – Dr. William Gelber
Wind Energy – Dr. Marcus Tanner

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

STUDENT BANNER BEARERS
Agricultural Sciences and Natural Resources –
Ms. Jessica Anne LeFors
Architecture – Mr. Tyler Timothy McBeth
Arts and Sciences – Ms. Kourtney Layne Kouth
Business – Mr. Timothy Morgan Howard
Education – Ms. Hailey J. Walker
Engineering – Mr. Kyle Weston Wolfe
Graduate School – Mr. Luke J. Mayer
Honors College
3:00 p.m. – Ms. Rachel Ann Murdy
9:00 a.m. – Mr. Nathanael Alton Havens
1:30 p.m. – Ms. Victoria Kristen
Cassandra Queneau
Human Sciences – Ms. Sarah M. Hardey
Media and Communication –
Ms. Emily Elizabeth Gardner
University Programs – Mr. Wayne Edward Swink
Visual and Performing Arts –
Mr. Dustin Alan Tharp

FACULTY BANNER BEARERS
3:00 p.m. – Jaclyn Canas-Carrell, Ph.D.
Associate Professor of Environmental Toxicology, College of Arts and Sciences
7:00 p.m. – Robin H. Lock, Ph.D.
Associate Dean for Graduate Education and Research; Professor of Educational Psychology and Leadership, College of Education
9:00 a.m. – Charlene Kalenkoski, Ph.D.
Associate Professor of Personal Financial Planning, College of Human Sciences
1:30 p.m. – Chuck West, Ph.D.
Thornton Distinguished Chair in Plant and Soil Science, College of Agricultural Sciences and Natural Resources

LIBRARY BANNER BEARERS
3:00 p.m. – Mr. Rob King
9:00 a.m. – Ms. Melissa Gonzalez
1:30 p.m. – Ms. Joy Perrin

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 2015 enrollment included international students from 105 countries. It is with pride that the university displays flags from around the world to represent the many countries that comprise the Texas Tech student body.
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**

**Graduate School Ceremony**

7:00 P.M., DECEMBER 12 .................................................. WEIWU ZHANG, PH.D.
Associate Professor of Public Relations
College of Media and Communication

**Undergraduate Ceremonies**

3:00 P.M., DECEMBER 11 ................................................... SCOTT HOLADAY, PH.D.
Senior Associate Chairperson and
Professor of Biological Sciences
College of Arts and Sciences

9:00 A.M., DECEMBER 12 .................................................... JAMES WHITE, M.S.
Professor of Architecture
College of Architecture

1:30 P.M., DECEMBER 12 ..................................................... LISA LOW, M.B.A.
Assistant Professor of Practice in Public Relations
College of Media and Communication

**GRADUATION HONORS**

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

- Landon Ramsey Allen
- Christopher Emmanuel Asikis
- Megan Noel Bolton
- Brenda Angelica Floran
- Tyler Ray Floyd
- Matthew John Frosonl
- Timothy Morgan Howard
- Heidi Cheyenne Klassen
- Kourtney Layne Kouth
- Elizabeth Macias
- Tyler Timothy McBeth
- Adrianna Mercedes Mendoza
- James Michael Miller
- Alyssa Rachelle Moore
- Duy Khuong Nguyen
- Dustn D. Perez
- Dennis Ramirez
- Tarek Ezzeddine Redwan
- Julie Garcia Villanueva
- Samantha Leigh Wagner
- Hailey J. Walker
- Alex Matthew Washburn
- Tanna Blair Wieler
- Kayla Renee Wilkinson
- Kyle Weston Wolfe
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.
GRADUATE CANDIDATES

ANIMAL SCIENCE
Kishor Kumar Gautam
Dissertation: The Effect of Feed Additives and Methods to Improve Nutrient Utilization in Animals
Major Professors: Michael Ballou and Michael Galyean

BIOLOGY
Kenneth Warren Griffith
Dissertation: Promoting STEM Faculty Development and Student Metrics to Catalyze Retention and Persistence in the Biological Sciences
Major Professors: Ronald Chesser and Brenda Rogers
Chun-Chia Huang
Dissertation: The Diversity and Conservation of Bats in a Coffee-forest Landscape in Sumatra, Indonesia
Major Professor: Tigga Kingston
Megan Shanell Keith
Dissertation: Phylogenetic Relationships, Divergence and Radiation within the Subfamily Neotomiinae (Rodentia: Cricetidae)
Major Professor: Robert Bradley

CHEMICAL ENGINEERING
William S. Wang
Dissertation: Droplet Microfluidics: A Study of Traffic and Mass Transfer in Two-Phase Microfluidic Networks
Major Professor: Siva Vanapalli

CHEMISTRY
Shikha Sharma
Dissertation: Experimental and Computational Studies on Pseudopericyclic [3,3]-Sigmatropic Rearrangements of AcetoCycohexadienones and Trichloroacetimidates and Synthesis of Modified Biodiesel Fuels by Electrocatalysis
Major Professor: David M. Birney
Anurag Prakash Srivastava
Dissertation: Ferrodoxin-dependent Cyanobacterial Nitrate Reductase: Mutagenic and Biophysical Studies
Major Professor: David B. Knaff
Lianjie Xue
Dissertation: Optical Kerr Effect Spectroscopy, Physical Properties, and Molecular Dynamics Simulations of Imidazolium-based Ionic Liquid Systems
Major Professor: Edward Quitevis

CIVIL ENGINEERING
Felipe de Jesus Estrada
Dissertation: Decision Support Systems for Sustainable Watershed Development in the Capibaribe River Basin, Pernambuco, Brazil
Major Professor: Annette Hernandez
Nubia Luz Estrada
Dissertation: Effects of Plant Uptake and UV and 03 Production Mechanisms on Perchlorate Isotopic Composition and Possible Implications to Natural Perchlorate
Major Professor: Andrew Jackson
Timothy A. Wood
Dissertation: Improved Culvert Load Rating through an Evaluation of the Influence of Cover Soil Depth, Demand Model Sophistication, and Live Load Attenuation Methods
Major Professor: William Lawson

CLINICAL PSYCHOLOGY
Erin Frances Schlegel (In absentia)
Dissertation: Self and Other Perceptions of Suicidal Desire: The Role of Informants in the Measurement of Perceived Burdensomeness
Major Professor: Kelly Cukrowicz

COMPUTER SCIENCE
Venkata Narasimha Rao Inukollu
Major Professor: Joseph Urban
Raymond Scott Pettit
Dissertation: Using Automated Assessment Tools to Analyze In-depth Student Learning of Programming Concepts
Major Professor: Susan A. Mengel

COUNSELOR EDUCATION
Sonya Diane Torbert
Dissertation: An Investigation of the Psychological Effects of Providing Treatment to Sex Offenders
Major Professor: Charles Crews

EDUCATIONAL PSYCHOLOGY
Angela Ybarra Alejandro
Dissertation: Examining the Perceptions and Behaviors of Academic Integrity Among Members of Greek Life Organizations
Major Professor: Lucy Barnard-Brak
Fatih Koca
Dissertation: Exploring the Role of Student Teachers’ Self-efficacy Beliefs and Teacher-Student Relationship Qualifying Students’ Academic, Social, and Behavioral
Major Professor: Kamua Oginga Siwatu
Lei Peng
Dissertation: The Comorbidity of Autism Spectrum Disorder and Attention Deficit/ Hyperactivity Disorder
Major Professor: Tara Stevens
<table>
<thead>
<tr>
<th>NAME</th>
<th>FIELD</th>
<th>THESIS</th>
<th>MAJOR PROFESSOR</th>
</tr>
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<tbody>
<tr>
<td>Adji Gnouma Cisse</td>
<td>ELECTRICAL ENGINEERING</td>
<td>Dissertation: Electro-thermal Performance</td>
<td>Stephen B. Rayne</td>
</tr>
<tr>
<td>Rebecca Gayle Howell</td>
<td>ENGLISH</td>
<td>Dissertation: Must Be the Devil: Poems</td>
<td>Curtis Bauer</td>
</tr>
<tr>
<td>Prathap Kumar Salakatte Mahalingaiah</td>
<td>ENVIRONMENTAL TOXICOLOGY</td>
<td>Dissertation: Chronic Oxidative Stress and Susceptibility to Renal Carcinogenesis</td>
<td>Kamaleshwar Singh</td>
</tr>
<tr>
<td>Cynthia Louise Miller</td>
<td>FAMILY AND CONSUMER SCIENCES EDUCATION</td>
<td>Dissertation: Career Mapping: Charting a Course towards Increasing Student Ownership in College and Career Planning</td>
<td>Karen Alexander</td>
</tr>
<tr>
<td>Jennifer Shaulis Hughes</td>
<td>HIGHER EDUCATION–HIGHER EDUCATION RESEARCH</td>
<td>Dissertation: Exploration of How Assessment Professionals Describe Faculty Compliance with Academic Assessment in Higher Education</td>
<td>Stephanie J. Jones</td>
</tr>
<tr>
<td>Anna Thomas Young</td>
<td>INDUSTRIAL ENGINEERING</td>
<td>Dissertation: Multidisciplinary Research Teams: A Quantitative Analysis of Interventions and Barriers to their Success</td>
<td>Stephanie J. Jones</td>
</tr>
<tr>
<td>Adji Gnouma Cisse</td>
<td>MECHANICAL ENGINEERING</td>
<td>Dissertation: Explaining Interfacial Viscoelasticity of a Particle Alden Interface Using Microstructure Analysis</td>
<td>Gordon Christopher</td>
</tr>
<tr>
<td>Nazanin Naderi</td>
<td>INDUSTRIAL ENGINEERING</td>
<td>Dissertation: Evaluating the Effect of Splitting Wind Farms and Developing a Model to Select the Best Locations to Install Wind Farms</td>
<td>Milton Smith</td>
</tr>
<tr>
<td>Ahmad Alanasi</td>
<td>INTERIOR AND ENVIRONMENTAL DESIGN</td>
<td>Dissertation: Examining the Preparedness of Interior Design Students in Kuwait from a Global Design Firm Perspective</td>
<td>Debajyoti Pati</td>
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<tr>
<td>Hannah Autumn Korkow-Moradi</td>
<td>MARRIAGE AND FAMILY THERAPY</td>
<td>Dissertation: Mindfulness, the Helping Alliance, and the Client: A Single-case Study Design</td>
<td>Douglas Smith</td>
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<tr>
<td>Shawn Ray Hughes</td>
<td>MASS COMMUNICATIONS</td>
<td>Dissertation: Moving the Needle: A Comparative Analysis of Message Reception During Televised Presidential Debates</td>
<td>Erick Bucy</td>
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<tr>
<td>Gamage Pemantha Lakraj</td>
<td>MATHEMATICS</td>
<td>Dissertation: Smoothed Functional Principal Component Analysis</td>
<td>Frits Ruymgaart</td>
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<tr>
<td>Sourav Barman</td>
<td>MECHANICAL ENGINEERING</td>
<td>Dissertation: Explaining Interfacial Viscoelasticity of a Particle Alden Interface Using Microstructure Analysis</td>
<td>Gordon Christopher</td>
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<td>Dissertation: Three Essays in Investor Behavior</td>
<td>Michael Finke</td>
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<tr>
<td>Wenyong Li</td>
<td>PETROLEUM ENGINEERING</td>
<td>Dissertation: Microscopic Numerical Modeling for Fluid Injection into Unconsolidated Formation</td>
<td>Mohamed Y. Soliman</td>
</tr>
<tr>
<td>Haitham Ahmed Othman</td>
<td>(In absentia)</td>
<td>Dissertation: Using Microwave to Produce Heavy Oil Reservoirs: Experimental and Numerical Study</td>
<td>Mohamed Y. Soliman</td>
</tr>
<tr>
<td>Thomas Mark Halverson</td>
<td>PHYSICS</td>
<td>Dissertation: Exact Quantum Dynamics Calculations of Large Dimensional Molecules Using Phase Space Basis Truncation</td>
<td>William Poirier</td>
</tr>
<tr>
<td>Mamatha Kakarla</td>
<td>PLANT AND SOIL SCIENCE</td>
<td>Dissertation: Soil Microbial Community Composition and Diversity during Conservation Reserve Program (CRP) Restoration and CRP Conversion to Cropland</td>
<td>Jennifer Moore-Kucera</td>
</tr>
<tr>
<td>Jerry Edgar Moorhead</td>
<td>POLITICAL SCIENCE</td>
<td>Dissertation: Lysimetric Evaluation of Eddy Covariance and Scintillometer Systems for the Texas High Plains</td>
<td>Stephen Maas</td>
</tr>
</tbody>
</table>
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Taylor Crenshaw McMichael (In absentia)
Dissertation: Japan’s Unseen Pork: Intergovernmental Transfers, Apolitical Formulas, and Electoral Strategy in Postwar Japan
Major Professor: Dennis Patterson

James David Schmitz (In absentia)
Dissertation: Identity, Partisanship, and Independence in American Politics
Major Professor: Gregg Murray

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Dissertation: Barriers to Continuous Process Improvement in a Military Organization
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Ashlynn Laura Reynolds-Dyk
Major Professor: Sean Zdenek

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Dissertation: The Influence of Roosting Ecology and Insect Resources on the Reproductive Phenology of Malaysian Rainforest Insectivorous Bats
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Thesis: Experimental Assessment: Heavy Bladed Tool Mark Analysis in Relation to Dismemberment and Its Implications for Forensic Identification

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Thesis: An Assessment of Degenerative Joint Disease of the Hip and Shoulder in a Cypriot Community from Limassol, Cyprus

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Thesis: Poetic Composition: Narrative Sequence and Chiastic Arrangement of Imagery in the Iconographic Narrative of the Palenque Cross Group

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Irasema Ibarra
Paige Elizabeth Muehlenkamp

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AGRICULTURAL AND APPLIED ECONOMICS
Miranda Blayne Gillum (In absentia)
Thesis: Analysis of the Effects of Physical Sustainability on Profitability for Crop Production in the Southern High Plains of Texas
Kelsey Jean Stokes
Thesis: The Economic Feasibility of an Equine Sports Therapy Facility

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Johnnie Elizabeth Hughes
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Elissa Laurel Rynne McLerran
Thesis: Texas Tech University’s Undergraduate Agricultural Communications Students’ Experiences

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David A. Cashman, Jr. (In absentia)
Keelyn Elizabeth Hanlon
Thesis: Presence of Salmonella, Escherichia coli 0157 and Campylobacter in Small-Ruminants
Guilherme Picinin Salgado Prezotti
Thesis: Interactive Effects of Zilpaterol Hydrochloride Supplementation and Gender on Carcass Characteristics, Post-Mortem Tenderness, and Immunohistochemical Analysis of Longissimus Muscle
Susan Elizabeth Sexton
Thesis: A Validation of 1,3-dibromo-5,5-dimethylhydantion and Lactic Acid on Salmonella and Shiga Toxin Producing Escherichia coli on Beef Head and Cheek Meat

APPLIED PHYSICS
Abdulaziz Mohammad Al Mogeeth
Dongyu Cao
Thesis: Optical Microscopy Techniques Based on the Use of a Computer-Controlled Hemispherical Digital Condenser

ARCHITECTURE – POST PROFESSIONAL
Milad Fereshtehnezhad (In absentia)
Thesis: Intensity Morphology in Landscape Urbanism

BIOENGINEERING
Monica Sharma

BIOLOGY
Michael Lee Hyndman
Thesis: Reduced Daily Temperature Range Influences the Magnitude of Soil Microbial Activity in a Creosotebush Bajada in the Chihuahuan Desert in Big Bend National Park

BIOTECHNOLOGY
Aishwarya Balasankar

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Andrew Jordan Wendel
Nina Winklerova

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Shahrima Maharubin
Thesis: Infrared Spectroscopy Measurements of Native and Functionalized Poly (Vinyl Alcohol) Nanowebs

COMPUTER SCIENCE
Misha Ahmadian
Thesis: Computation Reduction through Data Re-use for Scientific Applications
Sarah Chandra Marothu
Meenakshi Polepeddi

ENVIRONMENTAL DESIGN
Elina Hartmann
Mesha Mechelle Kleibrink
Rachita Patel

ENVIRONMENTAL TOXICOLOGY
Francis Loko
Thesis: Corticosterone Concentrations of Rolling Plains Bobwhite Quail and Potential Relationships with Weather Variables
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Sandra Ann Schultz (In absentia)

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Itzel Chavarria (In absentia)
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Melissa Nicole McFeeters

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Ethan Lee Backus
*Thesis: A Comparative Study of Monazite Reactivity, and Its Compositional and Textural Response to Metamorphism and Metasomatism in Compositionally Contrasting High-temperature Natural Fluid Systems*
Alec Scott Dotzer (In absentia)
*Thesis: Mantle Transition Zone Variations across Central South America*

HORTICULTURE
Prativa Gautam
*Thesis: Long-term Carbon Sequestration from Bermudagrass Fairways in Lubbock, Texas*

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Chase Alexander Helms
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Victoria Marie Olson
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Robin T. Sunny (In absentia)
*Thesis: The Biomechanical Effects of Elevated Heels on Barbell Deadlift*

Elizabeth Lauren Ullathorne
Jenny Marie Whall
Sheridan Taylor Wilson

MANAGEMENT INFORMATION SYSTEMS
Pranith Abbaraju
Deemah Abdullah Allassaf
Chaitanaya Eswar Krishna Alugolu
Bhavya Bhatai
Neha Rajendra Chandak
Vamsikrishna Chigullapally
Shivjeet Deepak Deoghare
Sushil Deepak Dhamale
Aksha Dhanabalsamy
Raj Tharun Domala
Sundeepr Kumar Eluru Srinivasulu
Satya Prakash Enugula
Yash Prashant Gajbhiye
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Bharath Kenchappa Narayanappa
Akshay Ramrao Kulkarni
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Bijesh Kurungote Balakrishnan
Srikanth Reddy Lankala
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Manu Mehra
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Nikita Machindra Vikhe
Nagamohan Volleru
Janna Rachelle Wadsworth (In absentia)
Anand Anil Valvekar

MARRIAGE AND FAMILY THERAPY
Neli Morris

MATHEMATICS
Kayla Janine Comeaux
*Thesis: An Analysis of Deterministic and Stochastic Models for Within-host and Between-host Disease Dynamics Coupled throughout the Environment*
Bimali Udara Jayasinghe

NUTRITIONAL SCIENCES
Ashleigh Nicole Arburs (In absentia)
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Roland C. Ranck
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PHYSICS
Kavitha Arur (In absentia)

PLANT AND SOIL SCIENCE
Cassie Marie Franke
*Thesis: Functional Evolutionary Studies of a Cotton Fiber Initiation Transcription Factor*
Mishon Kai Hopkins (In absentia)
Charles Brentwood Langdon II
Kolby Matthew McCormick
Pablo Antonio Tovar Ballen
*Thesis: Spatial and Temporal Variation in Mycorrhizal Associations in a Rare North American Orchid*
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Thesis: Building Better Confidence Intervals for the Resistance Factor in LRFD
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Thesis: Analysis of Motion-captured Pictures Located on Man-made Water Sources in the Southern High Plains of West Texas
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Thesis: Plant Succession in a Southern High Plains Semi-arid Grassland over a 17-year Period
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Thesis: Survival and Movement of Parent-reared Northern Bobwhite in the Rolling Plains of Texas

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Thesis: Modeling and Stability Analysis of AC and DC Microgrids
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Kamalakar Reddy Bounapalli
Keerthana Buddha
Job Kelreen Darpolor
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Thesis: Testing and Simulation of Dynamic Soil Impedance for High Voltage Pulses
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Eric James Gerald
Adriana H. Gonzalez-Galan
Taylor Brooke Hoffard
Ali Morgan Holdridge
Jordan Monroe Hollins
Jordan Marcus Irvine
Eric James Kennedy
Thomas Cutter Martin
Matthew Ryan Moore
Cody Keith Nitcher
Nathan Vince Ortiz, Jr.
Ryan Orlando Salazar
Mark Dillon Shaffer
Caitlyn Shaina Sharp
Dylan David Smyth
Matthew Christopher Stafford
Duncan Sinclair Stanley
Jacob Aubrey Strutton
Zachary Scott Torres
Travis Nicholas Tustin
Brianna Nicole Waldie
Jordan Michelle Warren
Joseph Mark Washburn
Briana Michelle Washington
Kevin Aaron Weakley
Austin Ryan Wideman
Easton Nicole Wollney

JOURNALISM

Audra Lauren Coffman
Nicole Carolann Crites
Rashayla Edith Daniels
Halima Folasade Fasasi
Justin Leauon Gonzales
Ellysa Maria Gonzalez
Alyssa Marie Herzog
Anna Marie Johnson
Karly Anne Johnson
Pat R. McNeill
Robert David Talley

Donte Jamel Phillips
Jason Michael Pugh
Haley Nicole Webster
Taylor James Wilkerson
Leslie Gail Williams

PUBLIC RELATIONS

Nina Sara Alavizadeh
Ty Evan Aldridge
Lauren Rachel Balch
Mykiala Briana Baltimore
Erin Nichole Barnes
Audra Leigh Becker
Bailey Jo Blount
Allison Elizabeth Brown
Courtney Ellen Cauthen
Morgan Marie Davis
Grace Aurelia Diana
Emily Elizabeth Gardner
Dylan Maurice George
Stephanie Grace Gilder
Efen Gomez
Helen Hailu
Bria Jinai Jones
Makenzie Katherine Keene
Griffin Daun Kimble
Preston Scott Kopriunik
Taylor Lee LaFargue
Darcy Gay LeDoux
Guadalupe Mata
Mary Ruth Matthews
Caitlin Alexandra McElwain
Nicholas Joseph Mitchell
Alexis Nicolette Nauman
Nicholas Todd Parkin
Julia Marie Pena
Bryanna Symone Pratt
Britney Eileen Reynolds
Lauren Delane Rivas
Rachel Nicole Robinson
Benjamin Richard Rosas
Marlee Grace Sanderson
Aaron Divon Smith
Makenzee Jade Spriuell
Morgan Brooke Stewart
Joy Ann Stratton
Michael Anthony Suniga
Ashley Danielle Turner
Caylar Delane Widick
Carson Quay Wilson

BACHELOR OF APPLIED ARTS AND SCIENCES

Felicia Ann Fernandez
Joshua Frederick Howard

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

BACHELOR OF ARTS

UNIVERSITY STUDIES

Jason Michael Antu
Dane Paul Arnold
Logan Jeffery Cates
Victoria Catrina Chance
Jonathan Charles Colby
Preston M. Corbell
Christopher John Davidson
Justin Brent Davis
Levi Benjamin De Leon
Blake Ryan Douglas
Clayton Cole Eibacher
Dallas Gabrielle Exum
Taylor Marie Fielder
Kevin Randall Fleeman
Kerri Lee Ford
Leonard Julian Fossier III
Gregory Marc Gali
Cesar Humbert Garcia
Daniel Erik Garcia
Joaquin Roy Garcia
Maryln Ariana Garcia
Francisco Patrick Garza
Gabriel Gonzalez
David Paul Harrison
Jacob Matthew Henderson
Tiffany Lynn Herrera
Timothy Heath Hill
Leah Kathryn Hoffman
Wesley Daniel Karotkin
Hannah Denis Kruse
Benjamin Jacob Landson
Matthew Blake Langley
Ralph Justin Layton
Sheldon A. Lemco
Michael Charles Lewis
Lindsey Diane Magnenat
William Zack Martinez
Christian Ryan Maurer
Cody Bennett Oliver
Brenda Mayra Perez
Christopher Oren Perry
Jill Lauren Peterson
Kaitlyn Adair Potter
Demi Renee Pratt
LaDarrin Jovan O'Keef Robertson
Xavier Luis Salinas
Lee Blake Santa Maria
Cathy Galvan Sarabia
Alexandria Marie Scott
Mallory Elyse Scott
Rodr Blaine Selheimer
Christopher Michel Shockey
Jordan Paul Simon
Amanda Lee Smith
Jeffrey Lee Snyder
Rebecca Marie Stallings
Joel Thomas Stark
Ian Chase Timmons
Shady Whitllyn Wheeler
Catherine Victoria Watson
Cameron Mitchell Wright

BACHELOR OF SCIENCE

UNIVERSITY STUDIES

Bryce Robert Braly
Dustin Chase Freeman
Amber Nichole Gregory
Saul Herrera
Lakin Noel Hise
Jeri D'Ann Hatley-Holubec
Amalia Lorraine Hopson
Elias Joseph Karam
Shishen Li
Justin Keith Long
Meredith DeAnnn Macek
Ashlea Diane Marler
Darin Michael Mercado
Susan Lynette Moore
David Winslow Randall
Kirsti Jo Rigdon
D'Nae Lynn Robinett
Justin Cory Salazar
Heather Nicole Springfield
Courtney Brooke Strickland
Wayne Edward Swink
Colin Glyn Zapalac

WIND ENERGY

Brian Louis Beckman
Elizabeth Marie Jorczyk
Ryan Dean Morris
Jacob Jack Pigg
Wilson Wayne Sloan
David Bruce Smith
2nd Major: Mechanical Engineering

BACHELOR OF FINE ARTS

ART

Kimberly McCall Curtis
Jennifer Elaine Carr
Amanda Michelle Lange
Gahye Lee
Katie Elizabeth Patton
Samantha Jessica Resendez
Rachel Loren Reynolds
Reyna Kali Saenz
Luis Sahagun
Susan Camille Thorn
Braylon Dale Wiley

THEATRE ARTS

Anthony Clay Burton
Natascha Miriam Muizers
2nd Degree: Psychology
Ky Von Re'Shaud Raymond

BACHELOR OF GENERAL STUDIES

Wesley Devaughn Smith
Natalie Spencer Tate

BACHELOR OF MUSIC

Joshua Ray Ballard
Rebecca Mae Bauer
Gretchen Rae Brosz
Jennifer Marie Bupp
Joshua Alexander Carroll
Candace Aimee Casarez
Mara Mikayla Garza
Kimberly Lynn Landsman
Hannah Darcy Lilly
Mackenzie Erin Malone
Joseph C. McPherson
Miranda Danielle Ramirez
Derrik Elton Spiegel
Travis D. Taylor
Dustin Alan Tharp
Adam David Vadala
H. Brent Wood
Kurt Allen Zottz

THEATRE ARTS

Valerie Ann Cadena
Reagan Bethany Kruse
Teresa Rose Stranahan

1Summa Cum Laude  2Magna Cum Laude  3Cum Laude  4With Honors  5With Highest Honors
RECEPTIONS AND OTHER CEREMONIES

INDIVIDUAL COLLEGE RECEPTIONS

Immediately After Commencement Ceremony

- College of Agricultural Sciences and Natural Resources | Animal and Food Sciences Building, Room 101
- College of Architecture | Architecture Gallery
- College of Arts and Sciences | Foyer Area of Room 104, Holden Hall
- Jerry S. Rawls College of Business | McCoy Atrium, 1st Floor of Rawls College of Business
- College of Education | Second Floor Lobby, College of Education
- Edward E. Whitacre Jr. College of Engineering | 101 Livermore Center
- College of Human Sciences | El Centro, Human Sciences Building
- College of Media and Communication | Matador Room, Student Union Building
- College of Visual and Performing Arts | Rotunda, Holden Hall
- University Studies | Red Raider Lounge, Student Union Building
- Wind Energy | Room 107, National Wind Institute

Please Note: The Graduate School will distribute diplomas in the City Bank Room of the United Supermarkets Arena immediately after the commencement ceremony.

OTHER CEREMONY

Friday, December 11, 2015

Air Force ROTC Military Commissioning | 5:30 p.m., Human Sciences Building, Room 169

CANDIDATE FOR MILITARY COMMISSION

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

Costin D. Wolt
Who’s Sitting on a Horse?
(And Why Is He Red?)

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

Raider Red or the Masked Rider?

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

The Texas Tech Class Ring

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

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

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

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

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

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

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

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

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

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

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

HONOR CORDS / MEDALLION

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

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

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

TEXAS TECH COMMENCEMENT ANNOUNCEMENTS

GRADUATE PHOTOGRAPHS

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

COMMENCEMENT DVD

The Texas Tech Alumni Association encourages graduates to order a Texas Tech Commencement DVD to commemorate their achievement. The $45 purchase also will include a one-year Texas Tech Alumni Association gift membership. This membership will help graduates stay connected to Texas Tech. To reserve a copy of today’s ceremony, complete and mail an order form located at one of the tables in each corner of the concourse. Do not leave the forms on the tables. Please mail them to the address on the form. To learn more about the Alumni Association, visit www.TexasTechAlumni.org or call 806.742.3641.
The banners displayed at Texas Tech University commencement ceremonies are patterned on military, political, and trade guild insignia that date back to the Middle Ages and beyond. Known as gonfalons, they most closely resemble the flags created by Italian city states before and during the Renaissance. The Texas Tech University flags were individually designed to display symbols and colors that represent the areas of interest of each unit.

The Faculty Banner displays the university colors, red with black, and features the university seal encircled by the words “Seal of Texas Tech University.” The seal was designed by William Ward Watkin, the original campus master planner, in 1924. The shield is a black escutcheon quartered by a red cross, on which are arrayed 10 cotton bolls, symbolic of the importance of cotton to West Texas and representing Lubbock County and the nine surrounding cotton-producing counties. These symbols also reflect one of the original missions of Texas Technological College: “To provide students with a thorough education in textiles and technical engineering.” The shield features emblems that evoke the university, community, state and nation. In the upper-right quadrant, a book symbolizes religion and academic traditions. A star in the upper-left corner stands for the Lone Star State of Texas. In the lower left a key represents home, and in the lower right the lamp of knowledge indicates the primary mission of Texas Tech University: “To develop and advance knowledge.” Above the shield, an eagle, the national bird of the United States, spreads its wings. Mindful of the claims of all these constituencies, the faculty of the university create, transmit, and preserve knowledge.

The College of Agricultural Sciences and Natural Resources was one of the four founding schools of the university in 1924. The college banner was redesigned for use in the December 2005 graduation ceremony. Dr. Marvin Cepica, former dean of the college, developed the design with approval and input from the College Marketing Committee. The background color, maize, was established by the Intercollegiate Code to represent the agricultural disciplines. The design, with a map of the continent of North America, reflects the global scope of modern agriculture and natural resources management.

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

The blue background color of the College of Education banner reflects the light blue color designated for education by the Intercollegiate Code and is also seen in the velvet border of education master’s and doctoral hoods and doctoral gowns. The upper area of the banner carries a school building encircled by the words “College of Education” and “Scholarship, Leadership, Service” to represent the primary roles of the college as a unit dedicated to preparing teachers and furthering educational scholarship, leadership, and service. The Double T logo appears at the bottom of the banner.

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

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

The Graduate School banner is blue. Imposed on this background is a white circle within a light blue one. These circles contain the image of a golden open book and a burning lamp. The open book symbolizes knowledge and the lamp represents a light by which to study. The Graduate School banner was designed by the late Associate Dean Thomas Langford and Ms. Beth Cain, who was a Graduate School staff member and artist for many years.
The banner of the Edward E. Whitacre Jr. College of Engineering features the seal of the college set on a field of orange, the academic color for engineering. The seal of the college, inspired by a 2009 design by chemical engineering student Unwana Essien, is encircled with a border of red, white, and black, symbolizing the spirit of Texas Tech University and the Red Raiders. The two stars represent the ethical duty of engineers to themselves and society. The four symbols in the center of the seal stand for the foundations of engineering:

- The light bulb, surrounded by a ribbon and questions, represents the inspiration of engineers to answer questions and solve problems.
- The square and globe represent the practical application of the engineer's work.
- The hammer and screwdriver represent the theoretical application of the engineer's work.
- The atomic figure surrounding the beaker represents the confluence of chemistry, 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 ages 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.

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

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

The College of Visual and 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.

ACKNOWLEDGEMENTS

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

- Women’s Service Organization and students from the College of Visual and Performing Arts assisted with preparing diploma tubes.

- This program was produced by the Office of the Provost in cooperation with the Convocation Committee and the Office of Official Publications at Texas Tech University, Garrett McKinnon, Director and Cheryl Hedlund, Senior Editor.

This program is an unofficial list of December 2015 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 conferment of degrees is the student's permanent academic record kept by the Office of the Registrar.
SEATING CHART
FRIDAY,
December 11, 2015,
3:00 p.m.

SEATING CHART
FRIDAY,
December 11, 2015,
7:00 p.m.
SEATING CHART
SATURDAY,
December 12, 2015,
9:00 a.m.

SEATING CHART
SATURDAY,
December 12, 2015,
1:30 p.m.
The first athletic teams of the university were known as the Matadors, a name that reflected the Spanish architectural influence on campus. The change from Matadors to Red Raiders occurred after a Lubbock Avalanche-Journal writer commented on the red uniforms and strong season of the 1932 football team, saying “the Red Raiders from Texas Tech” were the terror of the Southwest Conference. The name caught on and by 1936 the team was renamed the Red Raiders. No changes were ever made to the school song, which was penned in 1930. Page from 1936 Student Handbook courtesy of the Southwest Collection.