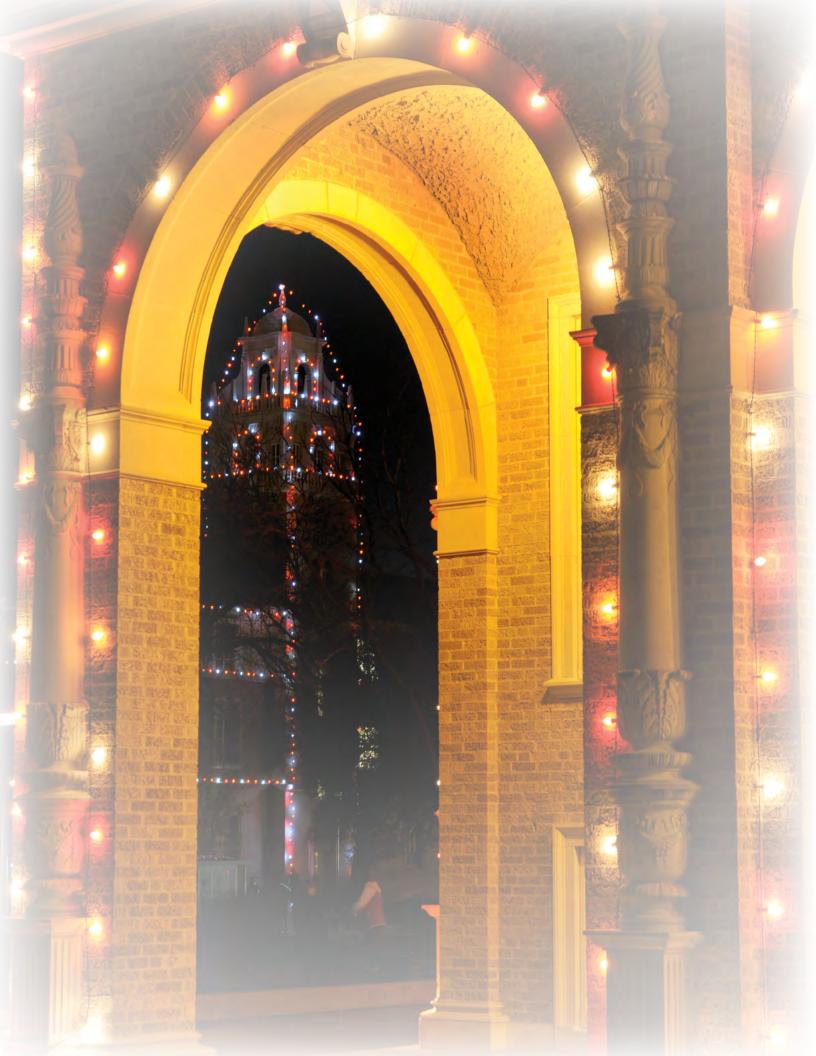


TEXAS TECH UNIVERSITY®

COMMENCEMENT FALL 2015



December 11-12 Lubbock, Texas





COMMENCEMENT FALL 2015

Friday, December 11, 2015 Saturday, December 12, 2015 UNITED SUPERMARKETS ARENA 3:00 p.m. and 7:00 p.m. 9:00 a.m. and 1:30 p.m. LUBBOCK, TEXAS

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our mission

As a public research university, Texas Tech advances knowledge through innovative and creative teaching, research, and scholarship. The university is dedicated to student success by preparing learners to be ethical leaders for a diverse and globally competitive workforce. The university is committed to enhancing the cultural and economic development of the state, nation, and world.

TEXAS TECH UNIVERSITY ADMINISTRATION

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

LAWRENCE E. SCHOVANEC, 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. MUÑOZ, 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

MR. MICKEY L. LONG Chairman Midland, Texas

MRS. DEBBIE MONTFORD

Vice Chairman

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Fort Worth, Texas

MR. TIM LANCASTER Abilene, Texas

MR. JOHN D. STEINMETZ
Lubbock, 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

ABOUT TEXAS TECH UNIVERSITY

ROM 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.

















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

Ms. Gretchen Rae Brosz

(Words on Back Cover)

Graduating with a Bachelor of Music

Recessional*

^{*} Please remain seated during the Processional and Recessional

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 Dr. Mark A. Sheridan

Master's Degree Candidates Vice Provost for Graduate Studies and Dean, Graduate School

Recognition of Outstanding Students

Class of 2015

Dr. Lawrence E. Schovanec

Charge to the Graduates

Alma Mater

(Words on Back Cover)

Mr. Stephen Ray Sims

Dr. M. Duane Nellis

Recessional*

^{*} Please remain seated during the Processional and Recessional

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

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

Class of 2015

Dr. Lawrence E. Schovanec

Charge to the Graduates

Dr. M. Duane Nellis

Alma Mater

Ms. Rebecca Mae Bauer

(Words on Back Cover)

Graduating with a Bachelor of Music

Recessional*

^{*} Please remain seated during the Processional and Recessional

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

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.

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

Recessional*

Ms. Mackenzie Erin Malone

(Words on Back Cover)

^{*} Please remain seated during the Processional and Recessional

COMMENCEMENT SPEAKER

arsha 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

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.

ACKNOWLEDGEMENTS

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.

PRESIDENTIAL MACE

ROWNED 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
	LISA LOW, M.B.A. fessor of Practice in Public Relations bllege of Media and Communication

GRADUATION HONORS

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

Landon Ramsev 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

CANDIDATES FOR GRADUATE DEGREES

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

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

DOCTOR OF EDUCATION

AGRICULTURAL EDUCATION

Richard Howard Coppedge

Dissertation: An Assessment of Knowledge and Skills Competencies for Wind Energy Technician I: A Delphi Methodology Major Professor: Rudy Ritz

EDUCATIONAL LEADERSHIP

Sharron Sullivan Hubbard

Dissertation: Best Practices for Texas Rural Schools to Enable First-year Alternative Certification Program Teachers to Build Selfefficacy and Find Success in their New Careers Major Professor: Fernando Valle

HIGHER EDUCATION

Pamela Sue Campbell

Dissertation: Self-efficacy in a Co-requisite Model of Developmental Mathematics and College Algebra: A Qualitative Analysis of Student Perceptions Major Professor: Stephanie J. Jones

Ayesha N. Hawkins

Dissertation: Involvement Matters: The Impact of Improvement in Student Clubs and Organization on Student Retention and Persistence at Urban Community Colleges

Major Professor: Dimitra Jackson-Smith

Kara Denice Larkan-Skinner

Dissertation: The Role of SACSCOC Recommendations on Changing Community College Practices in Institutional Effectiveness: A Quantitative Analysis Major Professor: Stephanie J. Jones

Rhonda Lasha Lewis

Dissertation: Community College Faculty Perceptions of Web-based Instruction and Its Impact on Student Completion in Developmental Math Courses

Major Professor: Dimitra Jackson-Smith

Julie Dearing Neal

Dissertation: A Collective Case Study Analysis of the Decision-making Processes Utilized by Community College Practitioners and Workforce Advisory Committee Members to Make Informed Decisions

Major Professor: Stephanie J. Jones

Gave Lvnn Scott

Dissertation: Contingent Faculty Perceptions of Shared Governance in a Texas Community College: A Phenomenological Inquiry Major Professor: Stephanie J. Jones

Leslie Tabatha Lynell Singleton

Dissertation: Perceptions of Community College Academic Advisors of Intrusive Advising for First-Year Academically Under-prepared Students Major Professor: Dimitra Jackson-Smith

Christa Caren Slejko

Dissertation: Perceptions of a Minority Male Experience in a Community College Freshman Success Course: A Collective Case Study Major Professor: Stephanie J. Jones

Catherine Reece West

Dissertation: Effects of Offering Baccalaureate Degrees on the Community College Mission and Resource Allocations: A Collective Case Study Analysis of Community College Administrator Perceptions and Experiences Major Professor: Stephanie J. Jones

SPECIAL EDUCATION

Norma Jean Hernandez

Dissertation: The Effects of Incorporating Methods for Acquiring Academic Self-efficacy into the Writing Instruction for Individuals with a Learning Disability

Major Professor: Robin Lock

DOCTOR OF MUSICAL ARTS

MUSIC

Michael William Christensen

Dissertation: A Historical Approach to Interpreting Select Saxophone Works by Ryo Noda Major Professor: David Dees

Wen Ling Chua (In absentia)

Dissertation: Memory and the Pianist: Practical Strategies for Improving Memorization and Performance Recall Major Professor: Carla Davis Cash

Livang Han

Dissertation: Interpreting J.S. Bach's "Italian Concerto" (BWV 971): A Comparative Study of Various Recordings and Editions Major Professor: William Westney

Michael Charles Johnson

Dissertation: Yair Yaweh: An Original composition for Symphonic Band with Biblical and Harmonic Analysis

Major Professor: Peter Fischer

Hsin Yi Lee

Dissertation: "Anatman" by Narong Prangcharoen: A Conductor's Perspective and Analysis Major Professor: Sarah McKoin

Stephen Ray Sims

Dissertation: A Performer's Guide to Three Selected Sacred Cantatas for Bass Voice by George Philipp Telemann Major Professor: Karl Dent

DOCTOR OF PHILOSOPHY

AGRICULTURAL COMMUNICATIONS AND EDUCATION

Rachel Bobbitt Jackson

Dissertation: First-year Persistence and Major Commitment at Texas Tech University: A Logistic Regression Analysis Major Professor: Cindy Akers

Maria Kalyvaki

Dissertation: Barriers that Influence Minnesota Agricultural Science Faculty in Creating Online Classes in Higher Education Major Professor: David Doerfert

CassiDe Jana Street

Dissertation: Student Characteristics, Influences, and Decision Factors in College Matriculation Major Professor: Scott Burris

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
Neotominae (Rodentia: Criectidae)
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 Biodiesal Fuels by Electroreduction

Major Professor: David M. Birney

Anurag Prakash Srivastava

Dissertation: Ferredoxin-dependent Cyanbacterial 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

Dissertation: A Secure Policy Framework for the Descartes Specification Language 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

CURRICULUM AND INSTRUCTION

Patricia Roberts Cleere (In absentia)

Dissertation: Because It Works: A Journey through a Recovery School

Major Professor: Barbara Morgan-Fleming

Holly E. Follmer

Dissertation: Understanding the Availability of Nonfiction Books in Child Care Center Preschool Classrooms: A Mixed Methods Inquiry Major Professor: Kathryn Button

Lynn Fratangelo

Dissertation: Brain-based Instruction: Teachers' Perceptions and Knowledge of Brain-based Learning Strategies Major Professor: Sally McMillan

Linnie Owens Greenlees

Dissertation: Teachers' Perspectives on Inclusion: The Impact on Instructional Practices Major Professors: Barbara Morgan-Fleming and Trenia Walker

Joan Annabel Jenkins

Dissertation: Professional Development of Preservice History Teachers in the First Semester of a Two-semester Student Teaching Experience: Case Study

Major Professor: Margaret Price

Thanh Thi Ngoc Phan

Dissertation: Inquiry-based Instruction in Online Courses: Re-envisioning Online Learning through Poetic Frameworks

Major Professor: Sally McMillan

Latosha S. Scott-Dickerson

Dissertation: Mentoring African American Middle School Students Using a Culturally Informed Mentoring Program Major Professor: Margaret Price

Elaine Lynelle Stribling (In absentia)

Dissertation: Balancing 21st Century Skills with State Assessments: A Case Study of A High Achieving Elementary School Major Professor: Barbara Morgan-Fleming

Jesse D. Thomas

Dissertation: Toward a Mixed Home-Public Education: Understanding Homeschool Curriculum and Instruction
Major Professor: Shirley M. Matteson

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 Combordity of Autism Spectrum Disorder and Attention Deficit/ Hyperactivity Disorder Major Professor: Tara Stevens

ELECTRICAL ENGINEERING

Bejoy Nariampully Pushpakaran

Dissertation: Electro-thermal Performance Analysis of SiC Power Devices under High **Energy Pulsed Condition**

Major Professor: Stephen B. Bayne

ENGLISH

Rebecca Gayle Howell

Dissertation: Must Be the Devil: Poems Major Professor: Curtis Bauer

ENVIRONMENTAL TOXICOLOGY

Prathap Kumar Salakatte Mahalingaiah

Dissertation: Chronic Oxidative Stress and Susceptibility to Renal Carcinogenesis Major Professor: Kamaleshwar Singh

FAMILY AND CONSUMER SCIENCES EDUCATION

Cynthia Louise Miller

Dissertation: Career Mapping: Charting a Course towards Increasing Student Ownership in College and Career Planning Major Professor: Karen Alexander

HIGHER EDUCATION-HIGHER EDUCATION RESEARCH

Jennifer Shaulis Hughes

Dissertation: Exploration of How Assessment Professionals Describe Faculty Compliance with Academic Assessment in Higher Education Major Professor: Stephanie J. Jones

Anna Thomas Young

Dissertation: Multidisciplinary Research Teams: A Quantitative Analysis of Interventions and Barriers to their Success Major Professor: Stephanie J. Jones

INDUSTRIAL ENGINEERING

Adji Gnouma Cisse

Dissertation: Locating Facilities in Humanitarian Networks Subject to Road Major Professor: Milton Smith

Nazanin Naderi

Dissertation: Evaluating the Effect of Splitting Wind Farms and Developing a Model to Select the Best Locations to Install Wind Farms Major Professor: Milton Smith

INTERIOR AND **ENVIRONMENTAL DESIGN**

Ahmad Alansari

Dissertation: Examining the Preparedness of Interior Design Students in Kuwait from a Global Design Firm Perspective Major Professor: Debajyoti Pati

MARRIAGE AND FAMILY THERAPY

Hannah Autumn Korkow-Moradi

Dissertation: Mindfulness, the Helping Alliance, and the Client: A Single-case Study Design Major Professor: Douglas Smith

MASS COMMUNICATIONS

Shawn Ray Hughes

Dissertation: Moving the Needle: A Comparative Analysis of Message Reception During Televised Presidential Debates Major Professor: Erik Bucy

MATHEMATICS

Gamage Pemantha Lakraj

Dissertation: Smoothed Functional Principal

Component Analysis

Major Professor: Frits Ruymgaart

MECHANICAL ENGINEERING

Sourav Barman

Dissertation: Explaining Interfacial Viscoelasticity of a Particle Alden Interface Using Microstructure

Major Professor: Gordon Christopher

Eric Michael Brannigan

Dissertation: Rate Sensitivity of Tensile Strength of Biocompatible Alloys and Advanced Analysis Method for Assessing Mechanical Response at Shallow Depths

Major Professor: Alan Jankowski

Jon Kent Ilseng

Dissertation: Measuring Productivity and Performance in a System of Systems of Government Organizations, Educational Institutions, and Industry to Meet the Needs of Society Major Professor: Atila Ertas

Ikenna Dominic Ivenso

Dissertation: Modeling and Simulation of the Equilibrium and Nonequilibrium Dynamics of DNA

Major Professor: Todd Lillian

Luke J. Mayer

Dissertation: Design and Validation of a Solar Thermonuclear Reactor Major Professor: Darryl James

Senay Nathanael Tewolde

Dissertation: A Model for Noninvasive Detection of Eye Tumor and Core Body Temperature by Ocular Surface Temperature Major Professors: Ming-Chien Chyu and Kevin Long

Christopher Michael Umstead

Dissertation: Investigation of a Mechanism of Retinal Hemorrhaging in Abusive Head Trauma Major Professors: Alan Barhorst and Thivakorn "Tiva" Kasemsri

NUTRITIONAL SCIENCES

Anuradha Anand Shastri

Dissertation: Cytotoxic Effects of Amino Alcohols on K562 Chronic Myeloid Leukemia and HepG2 Hepatocellular Carcinoma Cell Lines Major Professor: Julian Spallholz

Jia Zhang (In absentia)

Dissertation: Molecular Imaging and Prevention of Atherosclerosis Using CD36-Targeted Nanoparticles and Epigallocatechin Gallate Major Professor: Shu Wang

PERSONAL FINANCIAL PLANNING

Dissertation: Three Essays in Investor Behavior Major Professor: Michael Finke

PETROLEUM ENGINEERING

Wenjing Li

Dissertation: Microscopic Numerical Modeling for Fluid Injection into Unconsolidated Formation Major Professor: Mohamed Y. Soliman

Haitham Ahmed Othman (In absentia) Dissertation: Using Microwave to Produce Heavy Oil Reservoirs: Experimental and

Numerical Study

Major Professor: Mohamed Y. Soliman

PHYSICS

Thomas Mark Halverson

Dissertation: Exact Quantum Dynamics Calculations of Large Dimensional Molecules Using Phase Space Basis Truncation Major Professor: William Poirier

PLANT AND SOIL SCIENCE

Mamatha Kakarla (In absentia)

Dissertation: Soil Microbial Community Composition and Diversity during Conservation Reserve Program (CRP) Restoration and CRP Conversion to Cropland

Major Professor: Jennifer Moore-Kucera

Jerry Edgar Moorhead

Dissertation: Lysimetric Evaluation of Eddy Covariance and Scintllometer Systems for the Texas High Plains Major Professor: Stephen Maas

POLITICAL SCIENCE

Michael William Hull (In absentia)

Dissertation: Sanction Imposition and Success: Dyadic Intensity, Power, and the Cost-effectiveness of Sanctions

Major Professor: David Lektzian

GRADUATE CANDIDATES

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

SYSTEMS AND ENGINEERING MANAGEMENT

Diana Barraza-Barraza

Dissertation: An Adaptive ARX Model to Estimate an Asset Remaining Useful Life *Major Professors*: Mario G. Beruvides and Jorge Limon-Robles

David Patrick Day

Dissertation: Barriers to Continuous Process Improvement in a Military Organization Major Professor: Jennifer A. Cross

TECHNICAL COMMUNICATION AND RHETORIC

Belinda Gayle Amaya (In absentia)

Dissertation: A Case Study Investigation of the Shared Identity of the Papua New Guineans against Domestic Violence Facebook Group Major Professor: Brian Still

Ashlynn Laura Reynolds-Dyk

Dissertation: Is this Normal? Why Are You Staring? Real Freak Shows Run Over at the Intersection: A Multimodal Approach to Rhetorical Analysis of Disability and Reality TV Major Professor: Sean Zdenek

WILDLIFE, AQUATIC, AND WILDLANDS SCIENCE AND MANAGEMENT

Yeong Seok Jo

Dissertation: Mammals of Korea: Conservation and Management
Major Professor: John Thomas Baccus

ZOOLOGY

Nurul Ain Binti Elias

Dissertation: The Influence of Roosting Ecology and Insect Resources on the Reproductive Phenology of Malaysian Rainforest Insectivorous Bats Major Professor: Tigga Kingston

MASTER OF AGRIBUSINESS

Yu-Hsin Chang
J. Ricardo Antonio Gomez Mayorquin
Carter Kaylynn Humphreys
Victoria Gayle Kalina
Reid Austin Manning
Logan Scott Mason
Robert Edward Matus III
James Daniel Sias

MASTER OF ARCHITECTURE

Marc Christopher Anderson Kelsey Jill Beach Cameron Wade Bickert (In absentia) George Kenneth Blankenship Ricardo Cuellar **Shane Colton Daves** Ivan Ali Devora Tyler Randall-Scott Jones Jonathan Louis Langdon Alexander W. Lyssy Tyler Peter Mason Ryan Steven McAllister **Andrew Tanner Morrison** Joseph Henry Mueller Michael B. Norris **Kyle Arthur Norton Brian Edmond Ortiz** Alex M. Patterson Gabriel Puga Alexander Lewis Queen Carlton W. Shartle Tyler Nathaniel Thompson Aaron Ricardo Vazquez Nieto

MASTER OF ART EDUCATION

Holley T. Baker Tedra Laraine McMillian (*In absentia*) Carleen Jean Michener (*In absentia*) Rebeca A. Regalado Martha Lynn Underriner (*In absentia*)

MASTER OF ARTS

ANTHROPOLOGY

Melanie Lynn Highsmith

Thesis: Experimental Assessment: Heavy Bladed Tool Mark Analysis in Relation to Dismemberment and Its Implications for Forensic Identification

Kyle Oliver Ports

Thesis: Sacred Earth: Subterranean Features in the Hinterlands of Dos Hombres in Northwestern Belize.

Lizette Rodriguez

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

APPLIED LINGUISTICS

Karlissa Janae Black Mitchell Blake Gries Kristina Denise Mayer (*In absentia*)

ART HISTORY

Jamie Lea Lynn

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

COMMUNICATION STUDIES

J. Miles Kirk

ECONOMICS

Godfrey Mangenje

ENGLISH

Stacey Lea Haenchen Allison Leigh Spikes Savannah Elizabeth Wood

HISTORY

Samantha J. Lippard Whitney DaNae Taylor

INTERDISCIPLINARY STUDIES

Autumn Joy Arthur Ryan Christopher Bustin Greg Graham (In absentia) Trilce Ruiz Valerie Dommek Slate (In absentia) Rachel Elizabeth Traxler Jose Luis Valenciano (In absentia)

LANGUAGES AND CULTURES

Rasha Abdullah F. Alkhrejah Seham Ghorm A. Alsad Timothy Joseph Langston

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MATHEMATICS

Kyle John Steinle

MUSEUM SCIENCE

Samantha Marie Biffle
Betsy Deiterman
Ryan Scott Painter
Daniel Joseph Tyler
Brittany D. Webb
Thesis: Curating Museum Exhibition Dioramas:
Considerations and Guidelines
Mikaela Lorraine Young

PSYCHOLOGY

Cecilia Bess (In absentia) Kevin Andrew Harmon (In absentia)

Dmitrii Aleksandrovich Paniukov

ROMANCE LANGUAGES

Frances Kelly Wells (In absentia)

SOCIOLOGY

Alfredo Edward Falcon

Thesis: Visions of Manhood: Socialization to Masculinity and the Boys and Girls Club of America

MacAllister David Jeffrey (In absentia)

Victor Manuel Reta, Jr.

Thesis: Perception of College Students Towards

Local Law Enforcement

MASTER OF BUSINESS ADMINISTRATION

GENERAL BUSINESS

Peter J. Arterburn James Anthony Bill

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Denyson Duane Wray Eric W. Wright

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BILINGUAL EDUCATION

Kristin Elizabeth Mauldin

COUNSELOR EDUCATION

Ellen Michelle Clarke Stephanie Abigail Gines Nichole Lee Gonzalez Stephenie Allyn Jones Rachel Ann Owen Shelly M. Pattison Ashley Nicole Penner

CURRICULUM AND INSTRUCTION

Erica Joelle Buckwalter Kasondra Michelle Garcia Sarah Risse Koenig

Thesis: Using Systems Theory to Evaluate the Effectiveness of a New Zoo Exhibit

Chandra Kaye Malone

Robert Harrison Uzick (In absentia) Thesis: Family Discourse on a Nature Trail

EDUCATIONAL LEADERSHIP

Nidaa Mohammad Almuhanna Tiffany Cheadle Arely Vega Diaz Sabrina Nicole Huston **Chris Lemmons Robert Olivo**

EDUCATIONAL PSYCHOLOGY

Rachael Karen Phillips

Shelle Ann Scott

INSTRUCTIONAL TECHNOLOGY

Yvonne R. Asakawa

Erica Tracey Clough (In absentia) **Bartholomew Donald Dluhy** Rosario N. Mondelli

Heejin Son (In absentia)

SPECIAL EDUCATION

Renee Alcala

Adrienne Lynn Barker (In absentia)

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MASTER OF ENVIRONMENTAL ENGINEERING

Desirea Rashelle Dalton (In absentia)
Juvencio Francisco Zamora

MASTER OF FINE ARTS

ART

Alberto Careaga

THEATRE ARTS

Amanda Espinoza Mackenzie Paige Kennedy

MASTER OF LANDSCAPE ARCHITECTURE

George Ephraim Strasser Tugce Ulvan Kaleli

MASTER OF MUSIC

Andrew James Allegretto Christopher Sean Hepburn Thesis: Aleksey Stanchinsky (1888-1914): A Guide to Research

Stephanie Joy Rizvi-Stewart

Thesis: The Shifting Receptions of Shostakovich's "Official" Compositions in Cold War America: 1949-1959

MASTER OF MUSIC EDUCATION

Christopher Adame

MASTER OF PUBLIC ADMINISTRATION

Arnold Rene Alaniz II Irasema Ibarra Paige Elizabeth Muehlenkamp

MASTER OF SCIENCE

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

AGRICULTURAL COMMUNICATIONS

Johnnie Elizabeth Hughs

Thesis: The Public Relations Practices of Ranching

Horse Industry Organizations Elissa Laurel Rynne McLerran

Thesis: Texas Tech University's Undergraduate Agricultural Communications Students' Experiences

ANIMAL SCIENCE

David A. Cashman, Jr. (In absentia)

Thesis: Evaluation of Beef Strip Loin Steaks of Varying Marbling Scores and Maturity Levels Fed a High Energy Corn-based Concentrate Diet Prior to Harvest

Keelyn Elizabeth Hanlon

Thesis: Presence of *Salmonella*, *Escherichia coli* 0157 and *Campylobacter* in Small-Ruminants

Guilherme Picinin Salgado Prezotti

Brady Joel Ragland

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 Dongvu 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

BUSINESS ADMINISTRATION

Jonathan Hunter King Shengbin Lin Amber Lynne Miles Brittany Janell Porter Taylor Leann Reed Ryan Patrick Schwab Ha Simpson Andrew Jordan Wendel Nina Winklerova

CHEMISTRY

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 Sarath 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

FAMILY AND CONSUMER SCIENCES EDUCATION

Sandra Ann Schultz (In absentia)

FORENSIC SCIENCE

Itzel Chavarria (In absentia) Victoria Jayne Martinez Melissa Nicole McFeeters

GEOSCIENCES

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

Sherry Diane Smith

Thesis: Long-term Carbon Sequestration from Bermudagrass Fairways in Lubbock, Texas Daria Geneva McKelvey

HOSPITALITY AND RETAIL MANAGEMENT

Rachel Aldrich Madison Weslee Emma Amelotte Lauren Alyssa Davis Gina Victoria Gaytan Morgan Leigh Humphrey Amy Catherine Lott Kathryn Anne Rapp Qing Yao

INTERDISCIPLINARY STUDIES

Nicolette Sue Imamura Divya Devi Keshamoni Charli DeLyn McGhee Jose Alfredo Payan Chavez Keith James SoRelle Hilari Roxanne Vargas

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Brooklyn Janae Dendle Jesse Duran III Nathan Andrew Garcia Agustin Alejandro Gonzales Toddrick LeSean Gotcher Chase Alexander Helms Laura Elise Kempka Clark Adam Lammert Kimberly C. Mansion Victoria Marie Olson Maleah Kae Schorpp Robin T. Sunny (In absentia)

Thesis: The Biomechanical Effects of Elevated

Heels on Barbell Deadlift

Flizabeth Lauren Ullathorne Jenny Marie Whall Sheridan Taylor Wilson

MANAGEMENT INFORMATION **SYSTEMS**

Pranith Abbaraju Deemah Abdullah Alassaf

Chaitanaya Eswar Krishna Alugolu

Bhavya Bhatia

Neha Rajendra Chandak Vamshikrishna Chigullapally Shivjeet Deepak Deoghare Sushil Deepak Dhamale Aksha Dhanabalsamy Raj Tharun Domala

Sundeep Kumar Eluru Srinivasulu

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Bharath Kenchappa Narayanappa

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Srikanth Reddy Lankala

Shengbin Lin Zhongtian Lin

Seetharam Reddy Marreddy

Manu Mehra Kiran Kishore Miryala Shruthi Mulagada SriKrishna MysoreSrinivas Bhanuprakash Reddy Nalamadgu

Byomakesh Panda Suyogita Suryabhan Patil Srikaanth Penugonda Sharath Kumar Pullappa

Ashwin Rodge

Vamsi Krishna Sabbisetty Anirudh Samudrala Saisandeep Sanka Pramod Reddy Sareddy

Jainam Shah **Apoorv Sharma**

Fazil Sheik Mohammed (In absentia)

Shweta Sadananda Shetty Bhargav Shingirikonda Pranay Chandra Siri

Sushilkumar Keshav Sontakke Sharath Kumar Sriram Akshita Surakanti (In absentia) Naga Sai Adithya Tadakamalla Saikumar Reddy Takula Prathamesh S. Tarkar Phani Babu Tummala

Haritha Chandana Tummalapally

Varun Kumar Vanka Hitesh Veeramachaneni Nikita Machindra Vikhe Nagamohan Volleru Janna Rachelle Wadsworth (In absentia) Anand Anil Walvekar

MARRIAGE AND FAMILY THERAPY

Neli Morris

Thesis: The Relationship of Digital Communication Methods and Parent Satisfaction with Parent-Child Relationship

MATHEMATICS

Kayla Janine Comeaux

Thesis: An Analysis of Deterministic and Stochastic Models for Within-host and Betweenhost Disease Dynamics Coupled throughout the Environment

Bimali Udara Jayasinghe

NUTRITIONAL SCIENCES

Ashleigh Nicole Arthurs (In absentia) Justina Michelle Sifuentes Casiano Kayla M. Clark Denise Mae DelPrincipe Rachel Ann Floyd Carina Bryelle Greenfield (In absentia) Courtney Ann Lowe Holli A. McNeill Alyssa Ann Richardson Camille Elaine Studt Amy Michelle Williamson

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Debanik Das (In absentia) Alicia Marie Haigis **Austin James Leavitt** Rayshawn McCallum Roland C. Ranck Hailey Alexandra Thorn Zhen Wang Jingjing Zhao

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

Thesis: Improved Testing Methods for Cotton Breeders: Calibration of the High Volume Instrument (HVI) Elongation Measurement

Pablo Antonio Tovar Ballen

Thesis: Spatial and Temporal Variation in Mycorrhizal Associations in a Rare North American Orchid

STATISTICS

Jonathan Fredrick Doerzbacher

Thesis: Building Better Confidence Intervals for the Resistance Factor in LRFD

Nothabo Dube

Thesis: Application and Comparison of Time Series Methods on Tuberculosis Incidence Data: A Case Study of Zimbabwe 1990-2013

WILDLIFE, AQUATIC, AND WILDLANDS SCIENCE AND MANAGEMENT

Trevor S. Gicklhorn

Thesis: Analysis of Motion-captured Pictures Located on Man-made Water Sources in the Southern High Plains of West Texas

Laurie Marie Groen

Thesis: Risk of Wind Turbine Encounters and Migration Patterns of Swainson's Hawks (*Buteo swainsoni*) Migrating from the Plains of Texas to the Pampas of Argentina

Matthew C. McEwen

Thesis: Plant Succession in a Southern High Plains Semi-arid Grassland over a 17-year Period

Kristin Elaine Stacy (In absentia)

Mark Andrew Thomas

Thesis: Survival and Movement of Parent-reared Northern Bobwhite in the Rolling Plains of Texas

MASTER OF SCIENCE IN ACCOUNTING

Lindsey Michelle Baird

Karsyn Lea Bezner

Brooke Ashley Broughton

Blake Everett Chandler

Kayla Jo Ann Collier

Elizabeth A. Cowan

Samuel Glenn Dunphy

Andrew Scott Eames

Taylor Wayne Edwards (In absentia)

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Morgan Lee McVicker

Elizabeth Kate Meaders

Tiara J'Nai Robinson Blanca Lorena Runkel

Jason Ray Seefeld

Matthew Gale Slentz

Mark William Stone

Hayden Fooks Taylor

Brandon Hugh Thompson

Nathan Joel Toti

Samantha Leigh Wagner

Whitney Rebecca White

MASTER OF SCIENCE IN CIVIL ENGINEERING

Manil Chathuranga Hettiwatte

Sevan Mirzaian

Preston Lane Sturkie (In absentia)

Cristal C. Tay (In absentia)

Thesis: Developing Precipitation Intensity-Duration-Frequency (IDF) Models Using Nonlinear

Minimization in R

MASTER OF SCIENCE IN ELECTRICAL ENGINEERING

Adeyemi Opeoluwa Afolabi

Ankith Reddy Arra

Thesis: Modeling and Stability Analysis of AC $\,$

and DC Microgrids

Narendra Sai Tej Bobbili

Kamalakar Reddy Bounapalli

Keerthana Buddha

Job Kelreen Darpolor

Tri Cao Doan (In absentia)

Raymundo Santiago Garcia

Thesis: System Control Design of a Hardtube

Vircator and Coaxial Ferrimagnetic Nonlinear

Transmission Line Array

Paul Guthrie Gatewood

Ryan Davis Gibson (In absentia)

Chenhui Liu

Thesis: Non-contact Human Machine Interaction Using Wireless Power Transfer Features: Model

Analysis and Circuit Design

Aaron Russell McMullan

Thesis : Testing and Simulation of Dynamic Soil

Impedance for High Voltage Pulses

Hieu Khac Anh Nguyen

Abhilash Reddy Pabbath Reddy

Aviraj Harendra Patel

Michael Hoangthi Phamvu

Siddharth Rajguru

Prabhat Kumar Ratnala

Madelyn Bailey Ulferts

Thesis: Analysis of DC/DC Boost Converters

Design Methods

Medha Vemla

Christopher Michael White

Yves Valentin Zomebot

MASTER OF SCIENCE IN INDUSTRIAL ENGINEERING

Anand Sunder Adwait Anant Thakur

MASTER OF SCIENCE IN MECHANICAL ENGINEERING

Kevin Xiang Du

Mark Jacob Guerra

Thesis: Wear Rate Effects on Strength of Bone

Dongyan Lou

Danielle E. McNeese

Mark Alan Ryan

Michael R. Satches

Thesis: Nano-composite Material Development

for 3D Printers

Hermann Tchatat Njike

Neil Gregory Vaz

MASTER OF SCIENCE IN PETROLEUM ENGINEERING

Kelvin Legborsi Igereh Kevin Marfiandra Phillip Denzel McElroy

MASTER OF SCIENCE

IN SOFTWARE ENGINEERING

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Veronica Flores Scarborough



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Graduation with Honors is a distinction that is noted on diplomas and transcripts and receives special recognition at graduation ceremonies. Undergraduates who complete their work with a cumulative grade point average of 3.9 or above are graduated *Summa Cum Laude*; 3.7 to 3.89, *Magna Cum Laude*; 3.5 to 3.69, *Cum Laude*. Those who graduate from the Honors College after acquiring 24 Honors credit hours graduate "with Honors." Those who also complete an Honors thesis or project consisting of six additional hours graduate "with Highest Honors."



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Brittani Nicole Pfau³

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Leah Rexanne Bell²

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ENVIRONMENTAL CROP AND SOIL SCIENCES

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Joshua Michael Navarro

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Ari F. Shita

2nd Major: Marketing Mohamed Shogar Reid Kaylene Stephens Sarah Frances-Margaret Street Paul Sebastian Sutton² Ryan Colby Swanner

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Cameron Leigh Timber

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2nd Major: Marketing

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Dustin Eric Wallace John Charles Waller **Austin Bryant Waterman Jackson Richard Watkins** Travis James Whitehead

Clav Alan Wiemers Kyle Weston Wolfe¹ **Kevin Song Yang** Meng Yang Aaron Lee Young¹

PETROLEUM ENGINEERING

Kahlob S. Bookout Helmult Eshun Mohammed Adnan Jehangir Shaun Menezes¹ **Tanner Roy Neves**

Duy Le Nguyen Hopkins Oghenekevwe Ojarikre

Davis Oluwaseyi Omole Hugo Pena Delgado Aby Nancy Pitah Edmundo Silva

Patrick Kelly Sisemore, Jr. Samuel Demeke Tekle **Britt Whited**

Ermias Begashaw Zergaw



BACHELOR OF ARTS

ENVIRONMENT AND THE HUMANITIES Hannah Michelle Wilie⁴

2nd Major: English

HONORS ARTS AND LETTERS

William Thomas Bednarz^{2,5} Victoria Kristen Cassandra Queneau^{2,5} 2nd Major: English



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APPAREL DESIGN AND MANUFACTURING

Whitney Marie White

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EARLY CHILDHOOD

Hanna Noel Drabble Lauren Lee Durham Colleen Marie Haden **Brooke Monet Knight Bailey Ann Moore** Alicia Annetta Plouff Jessica Gabrielle Sorey Sloane Ann Spalla³ Victoria Ashley Vaughn³

FAMILY AND CONSUMER SCIENCES Jacqulynn Susann Coats

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Savannah Marie Arranaga Christopher Emmanuel Asikis¹ Haley Rae Baker

Kellie Lorraine Berkel-Hoffman Morgan Dalynn Bingham Alexandra Julian Carrillo Jennifer Carter

Iris Estephania Contreras Tiffany Rochelle Coulon³ Erika Renee Davila Jasmine Kiara Devroe

Kathleen Elizabeth Farrell Blaire Elizabeth Flora³ Gilde Flores III

Keely Nicole Garland Gennifer Kay Gerard³ Marissa Kathleen Goodwin Alaina Rachelle Granado Rebecca Cheryl Ham² Leticia DeAnn Hernandez

Leticia DeAnn Hernandez Erin Michelle Inman Ellen Rene Irwin Marquis Lewan Johnson

Asia Kylene Jones Emilee Caitlyn Kieke Melissa Lynn Leach Amy Carol Lillibridge Loren Alexandra Lopez³

Samantha Morelos Macariola Adrain Ray Marquez Miranda Martinez² Kelsey Nicole McConnell² Caitlin Nicole Mills² Alyssa Rachelle Moore Kaily Marie Moore Shelby Marie Morgan Stephanie Nicole Morin³ Caitlin Mary Morrow Madison Rose Nelson Taylor Ann Newton² Shevon Ambang Ngwanah

Avery Leeann Odom Sonya Elise Olivarez Kelsey Marie Orsak¹ Ashley Meagan Parr Savannah Rachelle Pearce JulieAnne Nicole Pender² Emily Ann Perez

Sydney Elizabeth Pirtle Devyn Lance Pratt Storrie Cameron Pratt Irma Linda Reyes Taylor C. Rindlisbacher Jennyfer Renae Riojas Christa Marie Savage Dulce Gardenia Segura Kelsey Cheyenne Sharp³ Jordan Leigh Stanley² Laura Kathryn Statham Casey Chaise Stegall Kristi Michelle Townzen

Veronica Nicole Uriegas Jeri Marissa Urive Daniel Alberto Vargas Caitlin Claire Vierling KayLyn Nicole Vines Brianna Nicole Williams¹ Chemary Nichelle Wingo

Jessica Ann Tucker³

HUMAN SCIENCES

Ibukun Adedayo Adetomiwa Morgan Victoria Allen **Demetrius Delaney Alston** Kristi Anela Belshe Ashley Nicole Benton Allison Diana Caddel Adelaide Diana Castillo Tiphanie Marie Chanel³ Aimee May Coleman Madison Skye Davis Anna Marie Dioses Alexander James Foster Christopher Rvan Gilbow Jakeem D. Grant Devin Anne Horan Robin Joyce Jackson Kelci Renai Kelley Salevi Antonio Levi Shyanne Marie Malaeb

Kelci Renai Kelley Salevi Antonio Levi Shyanne Marie Malaeb Keland O'Neal McElrath Krystal Nicole McKenzie Dayne Gerald McLean Travis Wayne Mikes Jolie Lynn Moyer

Shawntel Nneka-Adaure Ogoke Meghan Nicole Patterson Alix Justine Pipkins Robert Alan Price Andre Demetris Ross

Andre Demetris Ross Genna Marie Scholten Dwayne Lashad Slay Jason Keith Taylor Shelby Marie Vasquez Brett Christopher Wesley Kristopher Trae'von Williams

Lou Rhea Williams Megan Marie Zen

NUTRITION

Aryn Alise Allbright Tiffany Ijeoma Atabansi Katherine Nicole Benavidez

Jacy Ann Berta Kaylen Marie Bolton Jessica Leigh Cundy Olivia Danielle Ellis Jose Dolores Gallegos Jose Allan Galvan Meza² Christian Rose Garcia Jennifer Noelle Garibay³ Kaitlin Emily George Ryane Lynn Gosschalk² Amber Lynn Green

Amber Lynn Green
Karem Gabriela Guerrero-Garcia
Amanda Aidee Gutierrez
Brittany Ann Hargrove
Logan Nicole Head
Madison Nicole Holbrook
Kimberly Denise Jay⁴
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Lucy Elizabeth Keyworth
Mary Mar Mendoza²
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Megan Ashley Aust

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Megan Nicole Kimmel
Jordyn Ashley Kotzur
Sandra Alexandria Martinez
Mackenzie Piper Perry
Madyson Nichole Rengstorf¹
Katy Michelle Russell
Diana Ryan Schmitz
September Tyler Sheree Smith



Alec Andrew Arena

BACHELOR OF ARTS

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Paul Bryson Carroll²
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Porfirio Cruz III
Griffin Dean Enna
Darian Jaylynn Gilbert
Natalie Anne Gorny
Samantha Morgan Ketzel
Peyton Nicole Millington
Christopher Ahmad Payne
Elizabeth Hazel Pryor
Devin Christopher Speir

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BACHELOR OF APPLIED ARTS AND SCIENCES

Felicia Ann Fernandez Joshua Frederick Howard

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 Eilbacher Dallas Gabrielle Exum Taylor Marie Fielder Kevin Randall Fleeman Kerri Lee Ford² Leonard Julian Fossier III Gregory Marc Gali Cesar Humbert Garcia Daniel Erik Garcia Joaquin Roy Garcia Marlyn 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 Kruse³ 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 Potter³ Demi Renee Pratt LaDarrin Jovan O'Keef Robertson Xavier Luis Salinas Lee Blake Santa Maria Cathy Galvan Sarabia Alexandria Marie Scott Mallory Elyse Scott Rody Blaine Seilheimer Christopher Michel Shockey Jordan Paul Simon Amanda Lee Smith³ Jeffrey Lee Snyder² Rebecca Marie Stallings Joel Thomas Stark Ian Chase Timmons Shady Whitlyn 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 DeAnn Macek Ashlea Diane Marler Darin Michael Mercado Susan Lynette Moore² David Winslow Randall Kristi Jo Rigdon D'Nae Lynn Robinett³ Justin Cory Salazar Heather Nicole Springfield Courtney Brooke Strickland Wayne Edward Swink¹ Colin Glyn Zapalac

WIND ENERGY

Brian Louis Beckman
Elizabeth Marie Jorczyk
Ryan Dean Morris
Jacob Jack Pigg³
Wilson Wayne Sloan
David Bruce Smith
2nd Major: Mechanical Engineering



BACHELOR OF ARTS

ART

Rachael Nora Payne

DANCE

Bianca Nicole Barrera Amanda Mary Hanrahan Allison Marie Jones³ Rebecca Elaine Seitz

THEATRE ARTS

Valerie Ann Cadena Reagan Bethany Kruse Teresa Rose Stranahan

BACHELOR OF FINE ARTS

ART

Kimberly McCall Curtis²
Jennifer Elaine Karr
Amanda Michelle Lange¹
Gahye Lee¹
Katie Elizabeth Patton
Samantha Jessica Resendez³
Rachel Loren Reynolds
Reyna Kali Saenz
Luis Sahagun
Susan Camille Thorn³
Braylon Dale Wiley

THEATRE ARTS

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

BACHELOR OF GENERAL STUDIES

Wesley Devaughn Smith Natalie Spencer Tate

BACHELOR OF MUSIC

Joshua Ray Ballard^{2,5} Rebecca Mae Bauer³ Gretchen Rae Brosz Jennifer Marie Bupp³ Joshua Alexander Carroll Candace Aimee Casarez² Mara Mikayla Garza¹ Kimberly Lynn Landsman² Hannah Darcy Lilly^{3,4} Mackenzie Erin Malone Joseph C. McPherson² Miranda Danielle Ramirez Derrik Elton Spiegel Travis D. Taylor Dustin Alan Tharp¹ Adam David Vadala H. Brent Wood³ Kurt Allen Zotz

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

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

Wind Energy | Room 107, National Wind Institute

OTHER CEREMONY

Friday, December 11, 2015

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

CANDIDATE FOR MILITARY COMMISSION

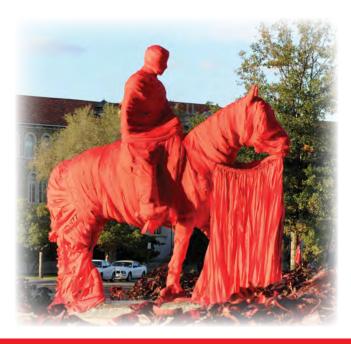
The following student is being commissioned as a Second Lieutenant in the United States Air Force:

Costin D. Wolt

TEXAS TECH TRADITIONS

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

Will Rogers was one of the most famous entertainers in America in the 1920s and '30s, and his longtime friend, Amon Carter, was Texas Tech's first chairman of the Board of Directors. Rogers donated \$200 for the Texas Tech band to play at the football game against TCU in 1926 because he wanted people "to hear a real band." Then the cowboy humorist donated \$1,500 to buy band uniforms for the trip to Fort Worth. A few years after Rogers perished in a plane crash, Carter presented the statue of Rogers and his horse, Soapsuds, to Texas Tech. Sculpted by 18year 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.

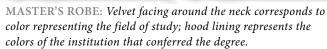
(www.TexasTechRing.org)

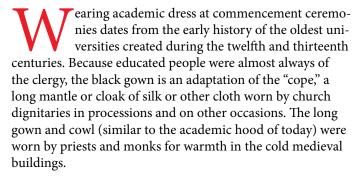


ACADEMIC DRESS AND PROCESSION









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

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

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





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

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

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

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

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

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

COLORS REPRESENTING FIELDS OF STUDY

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

Maize | Agriculture Blue-Violet | Architecture

White | Arts, Letters and Humanities

Drab | Business Administration

Lilac | Dentistry
Copper | Economics
Light Blue | Education
Orange | Engineering
Brown | Fine Arts
Russet | Forestry
Maroon | Human Sciences

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.

COLLEGE BANNERS

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

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



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

ties. 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. 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 **Ir.** 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 stu-



dent Unwana Essien, is encircled with a border of red, white, and black, symbolizing the spirit of Texas Tech University and the Red Raiders. The two stars represent the ethical duty of engineers to themselves and society. The four symbols in the center

of the seal stand for the foundations of engineering:

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

The **Honors College** banner features a sky blue field onto which is placed a



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

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

The College of Human Sciences banner 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 awardwinning 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

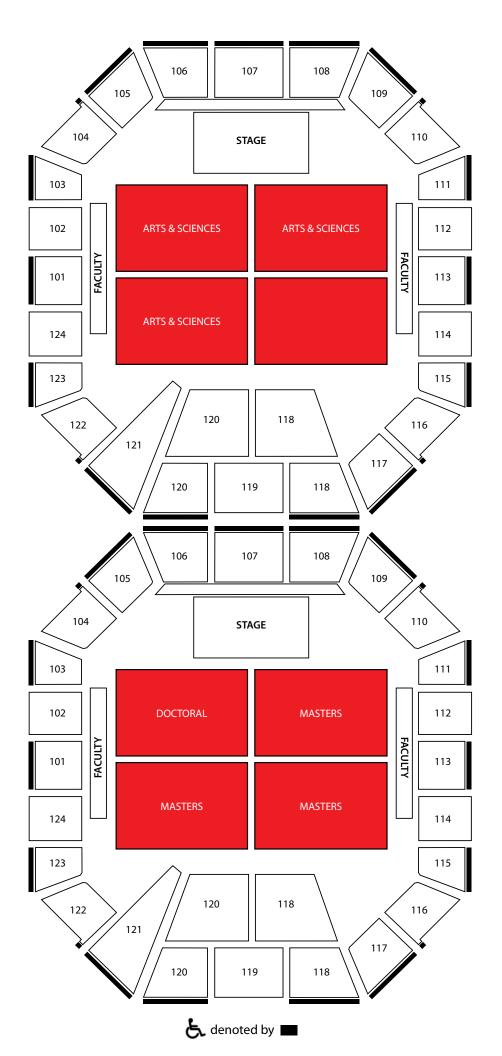
- The commencement music ensemble is comprised of students from the Texas Tech University School of Music under the direction of Dr. Sarah McKoin. Their participation is funded through the auspices of the Office of the President, Texas Tech University.
- Women's Service Organization and students from 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 conferral of degrees is the student's permanent academic record kept by the Office of the Registrar.

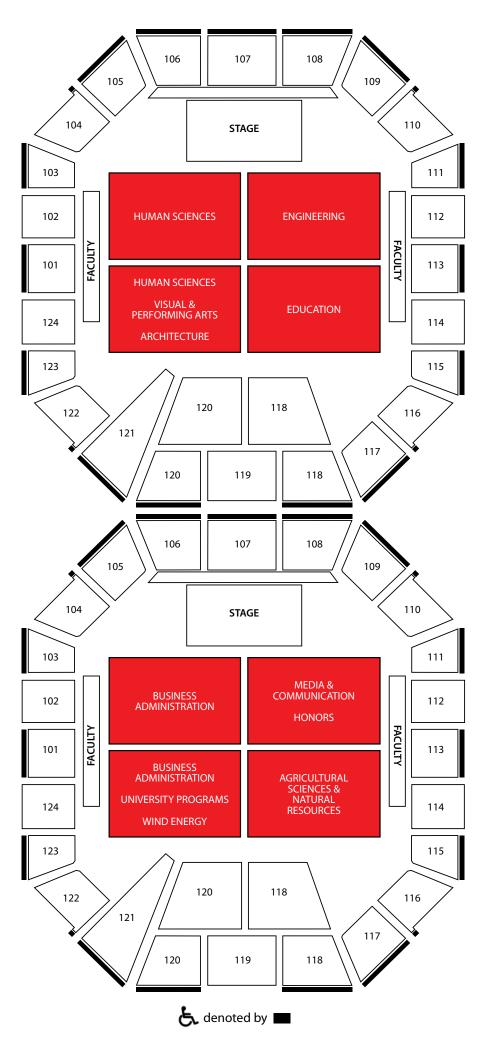


SEATING CHART FRIDAY, December 11, 2015, 3:00 p.m.

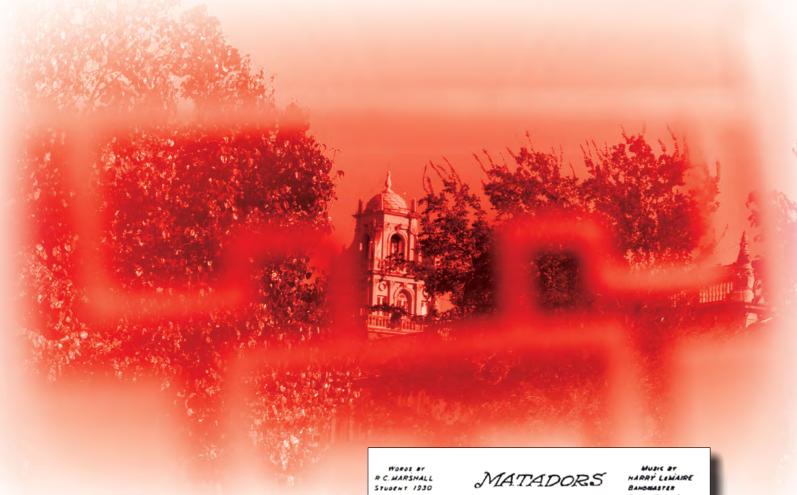
SEATING CHART FRIDAY, December 11, 2015, 7:00 p.m.







SEATING CHART SATURDAY, December 12, 2015, 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.

