THE COMMENCEMENT

TEXAS TECH UNIVERSITY

August 2015
Texas Tech University

The Commencement

Saturday, August 8, 2015
United Supermarkets Arena

9:00 a.m. and 1:30 p.m.
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.
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, the college 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 35,000 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 and 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 three 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 professional careers that will see many of them literally change the world, they can remember with certainty one important fact about Texas Tech University:

From here, it’s possible.
Saturday, August 8, 2015
9:00 a.m.

Presiding

Dr. M. Duane Nellis
President, Texas Tech University

Processional*

Texas Tech Commencement Band
Dr. Sarah McKoin, Conductor

National Anthem

Mr. Jody Keesee, Singer
Graduating with a Master of Music Education

Welcoming Remarks

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

Introduction of Commencement Speaker

Dr. M. Duane Nellis

Commencement Address

Mr. Mark Griffin
President and General Counsel of The Griffin Companies

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

Presentation of Bachelor’s Degree Candidates

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

Professor Andrew W. Martin
Interim Dean, College of Visual and Performing Arts

Dr. Michael San Francisco
Dean, Honors College

Dr. Lance A. Nail
Dean, Jerry S. Rawls College of Business

Dr. Al Sacco, Jr.
Dean, Edward E. Whitacre Jr. College of Engineering

Dr. Linda C. Hoover
Dean, College of Human Sciences

Recognition of Outstanding Students
Class of 2015

Dr. Lawrence E. Schovanec

Charge to the Graduates

Dr. M. Duane Nellis

Alma Mater
(Weak on Back Cover)

Ms. Amy Moss, Singer
Graduating with a Master of Music Education

Recessional*

Texas Tech Commencement Band

* Please remain seated during the Processional and Recessional
COMMENCEMENT CEREMONY

Saturday, August 8, 2015
1:30 p.m.

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

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

National Anthem
Mr. Jody Keesee, Singer
Graduating with a Master of Music Education

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

Introduction of Commencement Speaker
Dr. M. Duane Nellis

Commencement Address
Mr. Mark Griffin
President and General Counsel of The Griffin Companies

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

Presentation of Bachelor’s Degree Candidates
Dr. Michael L. Galyean
Dean, College of Agricultural Sciences and Natural Resources
Dr. Glenn Cummins
Associate Dean for Research, College of Media and Communication
Dr. Scott Ridley
Dean, College of Education
Dr. W. Brent Lindquist
Dean, College of Arts and Sciences
Dr. Michael San Francisco
Dean, Honors College
Mr. Andrew Vernooy, M.Des.S.
Dean, College of Architecture

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. Amy Moss, Singer
Graduating with a Master of Music Education

Recessional*
Texas Tech Commencement Band

* Please remain seated during the Processional and Recessional
COMMENCEMENT SPEAKER

Lubbock native and Texas Tech University School of Law graduate, Mark Griffin is president and general counsel of The Griffin Companies, which consists of Rip Griffin Truck Service Center, Inc. and Pro Petroleum, Inc., which are retail and wholesale fuel marketing, distribution, and storage companies.

Following receipt of his Doctor of Jurisprudence in 1979, Griffin began his legal career at Hance, Thompson, Thomas and Sawyer that same year. He joined The Griffin Companies in 1981. Additionally, Griffin served as an adjunct professor of business law at Lubbock Christian University from 1982-1985.

Griffin was a member of the Texas Tech University System Board of Regents from 2005-2009, as well as a director for Plains Capital Bank. He has served on many boards including Covenant Health System, the Texas Guaranteed Student Loan Corporation, and Lubbock Independent School District Foundation.

A graduate of Lubbock Monterey High School, Griffin earned a bachelor's degree in business administration from the University of Texas in Austin. He is a member of the State Bar of Texas and the Lubbock County Bar Association.

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.
CONVOCATIONS COMMITTEE
Ms. Shelley Barba, Chair
Dr. Barent McCool, Chair-Elect
Dr. Amma K. Akrofi
Dr. Rima Al Ajouni
Mr. Pradeep Attaluri
Mr. Ian Barba
Dr. Alan Barenberg
Dr. Rhonda Boros
Dr. Julie Chang
Dr. Fanni Coward
Dr. Mukaddes Darwish
Prof. Genevieve Durham DeCesaro
Ms. Peggy Flores
Dr. Matt Hart
Ms. Laura Heinz
Dr. Karlos Hill
Dr. Catherine Jai
Dr. Carole Janisch
Dr. David Klein
Dr. Katie Langford
Dr. Jingyu Lin
Dr. Elizabeth Louden
Dr. Jaime Malaga
Dr. Courtney Meyers
Dr. Mark Moore
Dr. Mary Murimi
Dr. Diego Pascual
Mr. Nick Pawelka
Dr. Comfort Pratt
Dr. Anne Prouty
Mr. Tom Rohrig
Mr. Matthew Schlief
Ms. Cheryl Stephenson
Ms. Carrye Syma
Mr. Jake Syma
Dr. Anna Tacon
Dr. Marcus Tanner
Dr. Susan Tomlinson
Dr. Shu Wang
Ms. Lynn Whitfield
Ms. Heidi Winkler
Dr. Aliza Wong
Dr. Amani Zaier

COLLEGE READERS
Agricultural Sciences and Natural Resources – Dr. Cindy Akers
Architecture – Professor Michael Martin
Arts and Sciences – Dr. Jorge Iber
Business – Mr. Derrick Ginter
Education – Dr. Kathryn Button
Engineering – Mr. Derrick Ginter
Graduate School – Dr. Bill Gelber
Honors College - Dr. Jorge Iber
Human Sciences – Dr. Sheila Scott-Halsell
Media and Communication – Dr. Todd Chambers
University Programs – Dr. Andrea McCourt
Visual and Performing Arts – Dr. Bill Gelber
Wind Energy – Dr. Andrea McCourt

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. Janet Veal
Human Sciences – Mr. Andrew Vanderpool
Media and Communication – Ms. Ashton Ray
University Studies – Ms. Amy Peterman
and Ms. Sarah Schwinz
Visual and Performing Arts – Ms. Kathy Nordstrom
Wind Energy – Ms. Kacey Young

STUDENT BANNER BEARERS
Agricultural Sciences and Natural Resources – Ms. Darby O’Shea Sullivan
Architecture – Mr. Sergio A. Elizondo
Arts and Sciences – Ms. Melissa Ann Rafferty
Business – Mr. Cedric E. Kudowor
Education – Ms. Nancy Guerreiro
Engineering – Mr. Duy Nguyen
Graduate School
9:00 a.m. – Ms. Lauren Kelly Thompson
1:30 p.m. – Ms. Olga Pahom
Honors College
9:00 a.m. – Ms. Taylor Mae Dawson
1:30 p.m. – Ms. Nadia Tello
Human Sciences – Ms. Elaine Morton
Media and Communication – Ms. Samantha Jo Hicks
University Programs – Mr. Eric Carl Lantz
Visual and Performing Arts – Mr. Mark Austin Belding

FACULTY BANNER BEARERS
9:00 a.m. – Timothy Dallas, Ph.D.
Professor of Electrical and Computer Engineering, Edward E. Whitacre Jr. College of Engineering
1:30 p.m. – Roger Lichti, Ph.D.
Chairperson and Professor of Physics, College of Arts and Sciences

LIBRARY BANNER BEARER
Ms. Melanie Clark, Associate Librarian

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 2014 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

9:00 a.m.  
Bill Gelber, Ph.D.  
Associate Professor of Theatre and Dance  
College of Visual and Performing Arts

1:30 p.m.  
Fred Hartmeister, Ph.D.  
Professor of Educational Psychology and Leadership  
College of Education

RECEPTIONS AND OTHER CEREMONIES

INDIVIDUAL COLLEGE RECEPTION  
Immediately After Commencement Ceremony  
College of Architecture  |  Architecture Gallery

OTHER CEREMONIES  
Monday, August 10, 2015  
Army ROTC Military Commissioning  |  10:00 a.m., International Cultural Center

GRADUATION HONORS

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

MARIA ELENA ARAGON  
PAULA RENEA BROOKS  
ALEXANDER W. CLARK  
MARIA ISABEL CORONADO  
MARIKYN NICOLE GONZALES  
NANCY GUERRERO  
BARBARA DEJARNETT  
ERIC XAVIER ESTRADA  
DAISY FUENTES  
DENNISE ARLETH GARCIA  
LAUREN M. IMMENSCHUH

NAPORSHA DENAЕ JACKSON  
MAIRA JAIMEZ  
CHARITY H. KINCANNON-KESTER  
MELISSA ANN RAFFERTY  
KENDRA LYNN SIMONEAUX  
MARISOL LARA SUAREZ  
NADIA TELLO  
SHIRLEY C. VASQUEZ  
KRISTEN LEIGH WILLIAMS

CANDIDATES FOR MILITARY COMMISSIONS

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

EMILY MARIE KIM COPPLE

The following students are being commissioned as Second Lieutenants in the Texas Army National Guard:

MICHAEL CESAR CORRADA  
JORDAN RAY NICHOLAS
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.

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

CIBEL GOMES DE SOTERO CAIO
DISSERTATION: Significance of Karyotypic Evolution in Phyllostomid Bats (Chiroptera phyllostomidae) as Revealed by Chromosome Painting
MAJOR PROFESSOR: Robert J. Baker

FAHMIDA IRIN
DISSERTATION: Estimating Genetic Boundaries with the Application of Multiple Operational Criteria
MAJOR PROFESSOR: Robert J. Baker

BUSINESS ADMINISTRATION

DALAL S A M AHMAD
DISSERTATION: An Investigation into the Effects of Category Centrality on Market Basket Value
MAJOR PROFESSOR: Mayukh Dass

HSUAN SHAWNA CHEN (In absentia)
DISSERTATION: Opportunity Near or Far: The Theoretical Structure and Cognitive Antecedents of Entrepreneurial Action
MAJOR PROFESSOR: Ronald K. Mitchell

ZHAN ZHANG FURNER
DISSERTATION: The GAAP Lock-out Effect of Worldwide Corporate Profits and Firm Value
MAJOR PROFESSOR: Robert Ricketts

JAE HWAN LEE (In absentia)
DISSERTATION: Stakeholder Work and Stakeholder Engagement: An Integrated Framework
MAJOR PROFESSOR: Ronald K. Mitchell

ARTEM VYACHESLAVOVICH MESHCHERYAKOV
DISSERTATION: Can Non-local Traders Capture the Local Information Advantage and Profit from It?
MAJOR PROFESSOR: Drew Winters

ANIELA FRENCH RANDOLPH (In absentia)
DISSERTATION: Hypomanic Personality and Opportunity Development
MAJOR PROFESSOR: Keith Brigham

PINYARAT SIRISOMBOONSUK
DISSERTATION: Exploring the Relationships between Information Technology Governance and Project Governance and Their Impacts on Project Performance: An Empirical Study
MAJOR PROFESSOR: Qing Cao

XINCHUN WANG
DISSERTATION: Estimation of Probabilistic Extreme Wind Load Effect with Consideration of Directionality and Uncertainty
MAJOR PROFESSOR: Mayukh Dass

CHEMICAL ENGINEERING

FAHMIDA IRIN
DISSERTATION: Utilizing Electrical, Mechanical, Adsorbent, and Microwave Properties of Carbon Nanomaterials
MAJOR PROFESSOR: Micah J. Green

WENQIAN TAO
DISSERTATION: Development of Universal Influenza A Vaccine Based on Conserved Viral Protein M2e and Its Nanocarriers
MAJOR PROFESSOR: Harvinder Singh Gill

CHEMISTRY

AUSTIN JAMES PRIVETT (In absentia)
DISSERTATION: Electron Nuclear Dynamics: The Resolution of Electronic States, Extension to Direct Ionization, and the Irradiation of Biomolecules in Proton Cancer
MAJOR PROFESSOR: Jorge Morales

VIDURA DHANANJAYA THALANGAMA ARACHCHIGE
DISSERTATION: Donor Substituted Group 14 Anions—New Ligand Platforms for Main Group and Transition Metal Complexes
MAJOR PROFESSOR: Clemens Krempner

CIVIL ENGINEERING

PAN GIL CHOI
DISSERTATION: Structural Evaluation of Transverse Crack in Continuously Reinforced Concrete Pavement
MAJOR PROFESSOR: Moon C. Won

CLINICAL PSYCHOLOGY

CHRISTINE ERIN GARDNER
DISSERTATION: Examining the Moderating Role of Perceived Problem-solving Efficacy in Relations between Asthma-related Quality of Life, Anxiety, and Asthma-related Anxiety
MAJOR PROFESSOR: James Clotpton

NOREEN LESARE WATSON (In absentia)
DISSERTATION: State and Trait Symptoms of Social Anxiety and Smoking to Cope as Risk Factors for Smoking Maintenance and Relapse
MAJOR PROFESSOR: Lee Cohen

ROBERT B. WATTS
DISSERTATION: Variables Related to Acceptance and Commitment Therapy: Influence on Chronic Pain and Activity Engagement
MAJOR PROFESSOR: Susan Hendrick

LINDSAY DAWN WILSON-BARLOW (In absentia)
DISSERTATION: Changes in Self-efficacy and Perceptions of Eating Behavior over the Course of Short, Web-based Intervention
MAJOR PROFESSOR: Jim Clotpton

COMPUTER SCIENCE

ALAA DARABSEH
DISSERTATION: Cyberspace Security Use Keystroke Dynamics
MAJOR PROFESSOR: Akbar Siami Namin

YIN LU
DISSERTATION: Towards Efficient Data Movement at Extreme Scale
MAJOR PROFESSOR: Yong Chen and Yu Zhuang

COUNSELING PSYCHOLOGY

ASHLEY B. BATASTINI
DISSERTATION: Comparing Telehealth and Face-to-face Interview Modalities in Referring Offenders with Mental Illness to Treatment
MAJOR PROFESSOR: Robert Morgan

VANESSA ALBINA COCA-LYLE
DISSERTATION: Cultural Attitudes and Female Sexual Desire
MAJOR PROFESSOR: Susan Hendrick and Clyde Hendrick

ELIZABETH ELIOT DENNARD
DISSERTATION: Predictors of Disordered Eating in Caucasian and Latino College Students: A Comparison across Culture and Gender
MAJOR PROFESSOR: Steven Richards

JULIANNA MICHELLE HARRIS (In absentia)
DISSERTATION: Predicting Patient-centered Behaviors among Infertility Specialists: The Role of Emotional Exhaustion, Depersonalization, and Lowered Sense of Accomplishment
MAJOR PROFESSOR: Sheila Garos

JENNIFER LEA MCADAMS (In absentia)
DISSERTATION: A Behavioral Examination of the Sexual Temptation Bias in Males
MAJOR PROFESSOR: Sheila Garos

CURRICULUM AND INSTRUCTION

MARQUISHA QUINTA IVerson
DISSERTATION: Exploring the Connections between High School Teacher Perceptions, Demographics, and Culturally Relevant Teaching Practices: A Case Study
MAJOR PROFESSOR: Trenia Walker

DEBORAH RODEN JOHNSON
DISSERTATION: Middle School Inclusion: An Exploration of General and Special Educators’ Perceptions
MAJOR PROFESSOR: Peggie Price

JUDY E. KNIGHT
DISSERTATION: Balanced Literacy Instruction in First Grade: A Case Study
MAJOR PROFESSOR: Peggie Price

MARIO ANTONIO MARTINEZ
DISSERTATION: The Burlesque and Other Tropes: Andragogical Content Knowledge in the 2014 OSHA Oil and Gas Safety and Health Conference
MAJOR PROFESSOR: Trenia Walker

JOSE HERIBERTO SALAZAR, JR.
DISSERTATION: Characterizing Interprofessional Education in the Health Profession of Clinical Laboratory Sciences
MAJOR PROFESSOR: Peggie Price

JOHN THOMAS SHERRILL
DISSERTATION: The Perceived Effectiveness of New Teacher Mentoring in a Rural Texas School District
MAJOR PROFESSOR: Sally McMillan
JASON ROBERT SKELTON
DISSERTATION: Development of a Measure on Instructional Coaching in Teacher Education Programs
MAJOR PROFESSOR: Doug Hamman

CHRISTOPHER JAMES SLOAN
DISSERTATION: Special Education Teachers’ Perception of Accountability Testing and the Self-efficacy of the Special Needs Child
MAJOR PROFESSOR: Trena Walker

MARTHA DIANE SOWELL
DISSERTATION: Perceptions of Middle School Principals in Supporting Student Success: A Descriptive Case Study
MAJOR PROFESSOR: Peggie Price

TWYLA JEAN DILLARD TASKER
DISSERTATION: Not Your Typical Fairy Tale: Stories of Success in a Small School
MAJOR PROFESSOR: Trena Walker

ECONOMICS

RUI HE
DISSERTATION: Essays Regarding Individuals’ Allocation of Time: Child Care, Work, Education, and Job Search
MAJOR PROFESSOR: Kaj Gittings

EDUCATIONAL PSYCHOLOGY

STEVEN RANDALL CHESNUT
DISSERTATION: The Development of the Achievement Gap During Early Childhood: Trends in Head Start
MAJOR PROFESSOR: Kamau O. Siwatu

XUN LIU
DISSERTATION: The Development of an Inventory of Seniors’ Life Difficulties and Coping Strategies: A Mixed Methods Study
MAJOR PROFESSOR: William Lan

ELECTRICAL ENGINEERING

NOAH EVERETT BERLOW
DISSERTATION: Computational Approaches to Drug Sensitivity Prediction and Personalized Cancer Therapy
MAJOR PROFESSOR: Ranadip Pal

MOHAMMAD A.E.A. FAIROUZ
DISSERTATION: Wireless Power Transfer
MAJOR PROFESSOR: Mohammad Saed

SAAD MD. JAGUL HAIDER
MAJOR PROFESSOR: Ranadip Pal

SUNDARI RAMABHOTLA
DISSERTATION: Optimization of Energy Management in Microgrid
MAJOR PROFESSOR: Stephen Bayne

GUOCHAO WANG
DISSERTATION: Continuous-wave Radar Sensor for Bio-medical and Structural Health Monitoring
MAJOR PROFESSOR: Changzhi Wang

ENGLISH

KERRY REBEKAH FINE
DISSERTATION: More Human than Human: American Monsters
MAJOR PROFESSOR: Sara Spurgeon

LUKE IANTORNO
DISSERTATION: Apocalyptic Sensibility: The Aesthetics of Millennium
MAJOR PROFESSOR: Ann Hawkins

ANDREW DOSS KEENE
DISSERTATION: A Crossing: Postcolonialism and Christianity in the Modernist British
MAJOR PROFESSOR: Jen Shelton

OLGA PAHOM
DISSERTATION: Gender, Story-telling, and Language Choices with Spanish-English Bilingual Couples
MAJOR PROFESSOR: Min Joo Kim

ENVIRONMENTAL TOXICOLOGY

SARA A. PAPPAS
DISSERTATION: An Investigation of Factors Influencing the Bioavailability of Silver Nanoparticles within a Terrestrial System
MAJOR PROFESSOR: Ron Kendall

EXPERIMENTAL PSYCHOLOGY

JOHNATHAN EUGENE STATZER (In absentia)
DISSERTATION: Power as a Type of Self-affirmation
MAJOR PROFESSOR: Zachary P. Hohman

FINE ARTS

LINA MOHAMMED AL KATTAN
DISSERTATION: The Conflicted Living Beings: The Performative Aspect of Female Bodies’ Representations in Saudi Painting and Photography
MAJOR PROFESSOR: Brian Steele

HAITHAM ABDULLAH EL-HAMMAL
DISSERTATION: An Exploratory Examination of the Deficiencies in Building Information Modeling (BIM) Pedagogy in Addressing Contemporary Industry Needs
MAJOR PROFESSOR: Debajyoti Pati

DENA KATHERINE HAENCHEN
DISSERTATION: Space Planning and Building Programming: How Stakeholders can Generate Quick, Informed Decisions
MAJOR PROFESSOR: Kristi Gaines

INTERIOR AND ENVIRONMENTAL DESIGN

HIMAYA ANN
DISSERTATION: Motivating Senior Staff in the Hospitality Industry
MAJOR PROFESSOR: Shane C. Blum

HUMAN DEVELOPMENT AND FAMILY STUDIES

LAUREN THOMPSON KELLY
DISSERTATION: The Consequences of Being a Victim and Witness of Family Violence as Reported by Mothers and Child Victims
MAJOR PROFESSOR: Dr. Elizabeth Trejos-Castillo

INDUSTRIAL ENGINEERING

JOHN BERNHUR JONNALAGADDA THIMOTHY
DISSERTATION: In Vitro Characteristics of Porous Biodegradable Poly (e-caprolactone) (PCS)/Polyglycolic Acid (PGA) Articular Cartilage Scaffolds Fabricated via Solid State Cryomilling
MAJOR PROFESSORS: Iris V. Rivero and Hong-Chao Zhang

HAITHAM ABDULLAH EL-HAMMAL
DISSERTATION: An Exploratory Examination of the Deficiencies in Building Information Modeling (BIM) Pedagogy in Addressing Contemporary Industry Needs
MAJOR PROFESSOR: Debajyoti Pati

DENA KATHERINE HAENCHEN
DISSERTATION: Space Planning and Building Programming: How Stakeholders can Generate Quick, Informed Decisions
MAJOR PROFESSOR: Kristi Gaines

NOUR MOHARRAM
DISSERTATION: The importance of Creating Sustainable Places of Respite in Saudi Arabian Hospitals
MAJOR PROFESSOR: Kristi Gaines
GRADUATE CANDIDATES

MARRIAGE AND FAMILY THERAPY

DEVIN GLENN DUPREE (In absentia)
DISSERTATION: Person-oriented Approaches in Couple Education Research
MAJOR PROFESSOR: Jason B. Whiting

MASS COMMUNICATIONS

ADENIYI K. BELLO
DISSERTATION: Community Radio is Public Sphere: Integrating Communities of Africa?
MAJOR PROFESSOR: Kent Wilkinson

MARY ELIZABETH BROOKS
DISSERTATION: Pig in a Python: The Framing of Older Adults in Advertising
MAJOR PROFESSOR: Shannon Bichard

BONI CUI
DISSERTATION: The Impacts of Parasocial Interaction on the Effectiveness of Antismoking PSAs: Investigating Parasocial Interaction, Metacognition, and Attitude Certainty using Moderated Mediation Model
MAJOR PROFESSOR: Melanie Sarge

ZHUPAN GONG
DISSERTATION: Quantitative Analysis of Processing Capacity in Visual Search: Examining the Impact of Visual Salience, Involvement, and Prior Knowledge on Selective Attention to Printed Advertisements and Memory Formation
MAJOR PROFESSOR: Glenn Cummins

MATHEMATICS

FATHI KOKSAL (In absentia)
DISSERTATION: Injectivity and Gorenstein Injectivity under Faithfully Flat Ring
MAJOR PROFESSOR: Lars W. Christensen

SARAH VIRGINIA OSBORN
DISSERTATION: Multilevel Solution Strategies for the Stochastic Galerkin Method
MAJOR PROFESSOR: Victoria Howle

MECHANICAL ENGINEERING

SURANGA INDRAPRIYA DHARMARATHINE
DISSERTATION: Role of Large-scale Motions on Passive Scalar Transport in a Turbulent Channel
MAJOR PROFESSOR: Luciano Castillo

JENA MICHELLE MCCOLLUM
DISSERTATION: Enhancing Aluminum Reactivity by Exploiting Surface Chemistry and Mechanical Properties
MAJOR PROFESSOR: Michelle Pantoya

NARENDRA SRIDHAR
DISSERTATION: Numerical Prediction of Wind Flow over Complex Terrain with Shallow and Steep Hills
MAJOR PROFESSOR: Siva Parameswaran

JUNHUA WEI
DISSERTATION: Fabrication of Elastomers with High Toughness and Strength by Integrating Nanomaterials
MAJOR PROFESSOR: Jenny Qiu

XIANLIN ZENG
DISSERTATION: Hybrid Networked Control for Cyber-physical Network Systems with Applications to Interconnected Power Grids
MAJOR PROFESSOR: Qing Hui

NUTRITIONAL SCIENCES

MONIQUE JENAI LEMIEUX
DISSERTATION: Targeting Obesity-induced Inflammation via Nutritional and Genetic Approaches
MAJOR PROFESSOR: Naima Moustaid-Moussa

MICHAEL PAUL ROGOWSKI (In absentia)
DISSERTATION: The Molecular Mechanism of T1AM on Weight Maintenance and Reversing Obesity
MAJOR PROFESSOR: Shaikh Rahman

PERSONAL FINANCIAL PLANNING

PATRICK MARK PAYNE
DISSERTATION: Risk and Financial Satisfaction
MAJOR PROFESSOR: Charlene Kalenkoiski

LAURA CATHERINE RICALDI
DISSERTATION: Three Essays on Consumer Credit Card Behavior
MAJOR PROFESSOR: Sandra Huston

PHYSICS

BRITTANY BETH BAKER
DISSERTATION: Positively Charged Muonium Diffusion in Indium Oxide and Other Transparent Conducting Oxides
MAJOR PROFESSOR: Roger Lichti

SPANISH

ANA SYLVIA ACEVEDO
DISSERTATION: Virgenes, Ninfomaniacas, Brujas y Travestis: El Discurso Subversivo de Carmen Boulosa
MAJOR PROFESSOR: Jorge Zamora

YURIKO IKEDA
DISSERTATION: Narrative Postapocalyptic in the Mundo Hispano
MAJOR PROFESSOR: George Cole

EDITH LOZANO-POZOS
DISSERTATION: La Narrativa Negra de la Cristiada y El Papel de la Mujer en Tres Novelas: La Guerra Sintetica, Jahel y Pensativa
MAJOR PROFESSOR: Genaro J. Perez

SPECIAL EDUCATION

PIK WAIH LAM
DISSERTATION: Teaching Pre-service Teachers to Co-teach: An Interactive Co-teaching Training Protocol
MAJOR PROFESSOR: Robin Lock

KATE ELIZABETH PIAZZA
DISSERTATION: Accessing General Education: Creating a Pathway for Special Education Students to Access the General Education Curriculum through Co-teaching
MAJOR PROFESSOR: Robin Lock

SYSTEMS AND ENGINEERING MANAGEMENT

TARA NICOLE WELBORNE
DISSERTATION: A Preliminary Investigation of the Impact of Geographic Dispersion and Degree of Virtuality on Engineering Student Team Processes and Performance
MAJOR PROFESSOR: Jennifer A. Cross

TECHNICAL COMMUNICATION AND RHETORIC

THOMAS KEVIN BURNS (In absentia)
DISSERTATION: Useful Fictions: How Popular Mechanics Builds Technological Literacy through Magazine Cover Illustration
MAJOR PROFESSOR: Kelli Cargile Cook

KATHRYN LORETTA CRANE (In absentia)
DISSERTATION: The Usability of the Course Syllabus: Testing Syllabi Modality and Comprehension
MAJOR PROFESSOR: Brian Still

MELISSA HELQUIST (In absentia)
DISSERTATION: Eye, Ear, Hand: Multimodal Literacy Practices of Blind Adults
MAJOR PROFESSOR: Sean Zdenek

WIND SCIENCE AND ENGINEERING

YUEPENG CUI (In absentia)
DISSERTATION: A Quantitative Model for Measuring Community Resilience
MAJOR PROFESSORS: Daan Liang and Bradley Ewing
RICHARD JOSEPH KRUPAR III
Dissertation: Improving Surface Wind Estimates in Tropical Cyclones Using WSR-88D
Derived Wind Profiles
Major Professor: John Schroeder

XINXIN ZHANG
Dissertation: Assessment of Wind Load Effects on Structures Considering Uncertainties and Directionality of Wind Climate and Aerodynamics
Major Professor: Xinzhong Chen

M A S T E R  O F  A G R I B U S I N E S S
LANEY MARTHA BATEMAN (In absentia)

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DANIEL ERIC BUDKE
SERGIO A. ELIZONDO
AARON MATTHEW HERRMANN
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CHRISTOPHER T. SANTACROCE
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ANIKA BLANCO
SARAH NICOLE HARTMAN
ANA LISA HARVEY
RICHARD WARREN KINCHLOE
GERMAIN QUINTANILLA
ELIZABETH MARIE REYES

M A S T E R  O F  A R T S
LISA CAITLIN HIGHSMITH
Thesis: Degenerative Joint Disease in the Wrist, Hand, Ankle, and Foot: A Study of Geriatric Skeletons from St. Nicholas Cemetery, Limassol, Cyprus

COMMUNICATION STUDIES
SAMER MELHEM
LAURAN MICHELLE SCHAFFER

ECONOMICS
HOSSEIN SALEHI
Thesis: The History of Stagflation: A Review of Iranian Stagflation

HISTORY
CARSON EUGENE BENN
Thesis: Rose Vines and Rotting Ghettos: Gangsta Rap, Appalachian Folk Songs, and the Place of Bad Music in American Popular Culture

G R A D U A T E  C A N D I D A T E S

TYLER JOSEPH BOUZA
Courtney Ann Hubbart (In absentia)
Thesis: Ties That Bind: Chivalric Loyalty in the Late Twelfth Century According to Major Angevin Chroniclers

SAMANTHA KALYNE LACK (In absentia)
Thesis: Amusing Instruction: Constructing the Modern Child in England during the Long Eighteenth Century

FRANCES PAIGE MARTIN

ABEL RIOS
Thesis: Entitled to Exemption: How the Vietnamese War Defined Conscientious Objection in America

INTERDISCIPLINARY STUDIES
ERIK CABELLO ARREOLA
RYAN NEIL DIXON
LEANNE MARIE DRAUS
AYMAN ABOO QUBLAN HARB
ALEXANDER JAMES WYATT (In absentia)
Thesis: Conflict in the Middle East: Investigating the Islamic Civil War

MASS COMMUNICATIONS
LAURYN PAIGE ARNHART
SHANE THOMAS BRINKLEY
JACOB GARRISON COPPLE
Thesis: Analysis of Climate Change Evidence Presentations and Information Formats

FELICIA CHRISTINA GARCIA (In absentia)

SABINA GURUNG
ATILLA HAFIZOGLU
DORAN JUDY LIU
CRYSTAL PRICE
Thesis: A Textual Analysis of and Comparison between Early 20th Century and Contemporary Marijuana Propaganda

YIWEN QIU
MARICRUZ GARCIA SAMARRIPAS
MEGAN DIANE SPRAUDE
LINDSEY ANNE SWEETGALL
KATLYN TAYLOR WESTFALL (In absentia)
VERONICA CLAIRE WICKS
XI ZHANG
Thesis: Media Coverage of the ISIS Threat: Transnational Media and Global Journalism

MUSEUM SCIENCE
KELLY MARIE CHANDRALAP (In absentia)
RAQUEL SHANNON COLEMAN
AMBER ELIZABETH GARCIA
ANDREA NELL MORENO
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KRISTIN ALLISON RODRIGUEZ
JESSICA ELIZABETH SCHNEIDER
KARI ALLISON SMITH
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CHASE ANDERSON JONES (In absentia)

PSYCHOLOGY
DOMINICA BOROWA (In absentia)
SARAH LOUISE BROWN
TERRI ANN DUNBAR (In absentia)
JESSICA MICHELLE JOHNSTON (In absentia)
JARED FREDERICK ROUSH (In absentia)
ANGELA KAY STEVENS
Thesis: Impulsivity and the Intention-behavior Relation for Emerging Adult Alcohol Consumption

TECHNICAL COMMUNICATION
MICHELLE CHRISTINE YORK

M A S T E R  O F  B U S I N E S S  A D M I N I S T R A T I O N

G E N E R A L  B U S I N E S S
MASRUIQUE MURTUZA ALI
LOGAN TANDY ARRANT
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ALEXIS NICOLE RICCI
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M A S T E R  O F  E D U C A T I O N

BILINGUAL EDUCATION
FELICIA MOJICA

COUNSELOR EDUCATION
PINKYPINKY ISMAIL ALI
TAYLOR ELIZABETH CHADICK

A U G U S T  2 0 1 5  1 7
GRADUATE CANDIDATES

SARAH L. DINGUS
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AMELIA RAMIREZ MENDEZ
HOWARD PAUL MONSOUL III

CURRICULUM AND INSTRUCTION
TIFANY A. COOPER
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LYGIA D’NAY FOREMAN
GINA LYNN GERMAN
KANDACE KILGORE HAIGLER (In absentia)

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CHEYENNE PAIGE Mc BRAYER
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TANYA HYMES GOSSETT
TIFFANY LATRESE FULLER
CECILIA ESTELA ERALES
KELLIE LYNN DYER

SARA ELIZABETH JOSE (In absentia)

THEMES: Examining Secondary Students’ Mental Models of a Local Environment after an Experiential Learning Field Trip

CHANDRA KAYE MALONE
JILLIAN J. WEINSTEIN (In absentia)

THESS: Using Systems Theory to Define the Importance of Informal Educator Communication with Formal Educators

KENDALL ANN ALIBER (In absentia)
KATHLEEN ANN BLODGETT
JUSTIN NEIL BURRUS
YVONNE MARINEZ VALDEZ

HIGHER EDUCATION
SONIA LYNN MOORE

INSTRUCTIONAL TECHNOLOGY
STEPHEN D. HAYES, JR.
MARISA ESTRELLA MEJIA
PAUL R. RODRIGUEZ

SPECIAL EDUCATION
KENDALL ANN ALIBER (In absentia)
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LAURA NICOLE CROY
LAURA KAY DELCAMBRE
KELLIE LYNN DYER
CECILIA ESTELA ERALES
TIFFANY LATRESE FULLER
TANYA HYMES GOSSETT
MICHELLE ORTBERG HANCOCK (In absentia)
LORETTA ANN HARMSEN
REBECCA LILLIAN HAYNES
TIFNI JOANETTE HELMS
CLOTIEL RASHELLE JOHNSON
KRISTEN MARIE KING
MELODY LYNN LEHMAN (In absentia)
CHEYENNE PAIGE Mc BRAYER (In absentia)
ANN RUIZ
JENNIFER J. SAYLES (In absentia)
STEFANIE ANNETTE SCHWARTZ
JANELLE LEEANN WALTZ

MASTER OF FINE ARTS
ART
PEDRAM BALDARI (In absentia)

THEATRE ARTS
JAMIE MICHAEL ROGERS

MASTER OF MUSIC
ZACHARY JOHN EVAN HOUSTON
KATHRYN KIE MANN

THESS: The Trope of the Cailín: Constructions of the Feminine in Three Sean-nos Songs
NATHAN NORIKA TANOUYE (In absentia)

MASTER OF MUSIC EDUCATION
WILLIAM ASBURY BALCH
EVAH JO CHAMBERS
JULIE BREEDEN DE HOYOS (In absentia)
NICHOLAS FRANCIS FLOOD
JOY DANE KEESEE


MASTER OF PUBLIC ADMINISTRATION
LIESL E. WYETT

MASTER OF SCIENCE
AGRICULTURAL AND APPLIED ECONOMICS
MENG JIANG
SHERBEN RENAE KNISLEY

THESS: Analysis of China’s Impact on Australia’s Grain Sorghum Export Market

AGRICULTURAL COMMUNICATIONS
CHRISTINA MARIE CHADWELL
KATHERINE GEORGEANNE SETTERBO

THESS: Going Against the Grain: Atypical Students in the College of Agricultural Sciences and Natural Resources at Texas Tech University

AGRICULTURAL EDUCATION
MICHELLE NEWTON HARRÉ
LUCY McMILLAN PRESTWOOD

MASTER OF ENGINEERING
JAROD KRISTOPHER KING

APPLIED PHYSICS
BANDAR MOHAMMED H. ALHARBI

THESS: Origin of Unexpected Condenser-like Rings Observed in Fourier Plane Images Obtained Using Immersion-oil Objective Lenses

ARCHITECTURE – POST PROFESSIONAL
PAOLA MUNIZ GARCIA

THESS: Concrete 3D Printing with Robotic Arm Application

JESSE VINAY KANTH NEDSURU

THESS: Adaptive Solar Power Harvesting Building Skin

MIROSLAV NEVLIDA (In absentia)

THESS: Mass Fabrication of Non-standard Geometries

ATMOSPHERIC SCIENCE
CASEY BENJAMIN GRIFFIN

THESS: In Situ and Radar Observations of the Low Reflectivity Ribbon

AARON W. HARDIN

THESS: Assessment of Urban Heat Islands During Hot Weather in the U.S. Northeast and Linkages to Microscale Thermal and Radiational Properties

MATTHEW JAMES LAURIDSEN

THESS: Nonlocal Inadvertent Weather Modification Associated with Wind Farms in the Central United States

MATTHEW CHRISTOPHER MAHALIK (In absentia)

THESS: Characteristics and Importance of Horizontal Momentum Surges in Supercell

JENNIFER CHRISTIAN NAUERT

THESS: Quantifying the Effect of Irrigation on Non-local Aspects of the Atmosphere

PHILLIP JAMES WARE

THESS: Thunderstorm Electrification and Kinematics as Seen Through Ensemble Lightning Flash Properties

BIOLOGY
COREY G. COLEMAN

THESS: Specific Gravity of Ova and Larvae for Pelagophilic Broadcast-spawning Cyprinids

BUSINESS ADMINISTRATION
COLIN DANIEL CALBREATH (In absentia)
CHISMOMANIE ELO-CHUKWUMA
LUKE HARRISON GOEBEL
TAO GUO (In absentia)
NATHAN SAMUEL RHODEN

COMPUTER SCIENCE
MOHAMMED NAZIM FEROZ (In absentia)

THESS: Examination of Data and Detection of Phishing URLs Using URL Ranking

P M MAHMUDUL HASSAN

THESS: A Comparative Performance Study on Data Storage Formats for Big Data Analytics

ROBERT J. JOHNSON (In absentia)

THESS: Game Programming Used to Teach Introductory Concepts in CS
YUN LOU
RASHMITHA RAMASAHAVAM
NAGENDRA VARMA TOTAKURA

ENVIRONMENTAL TOXICOLOGY
THOMAS RICHARD BILBO (In absentia)
THESIS: Toxicological Implications of the Developmental Environment in Two Aedes sp. Vector Mosquitoes

REBECCA SUZANNE COCHRAN
THESIS: Evaluation of Perfluorinated Compounds in Sediment, Water, and Passive Samplers Collected from the Barksdale Air Force Base

BRIDGETTE NICOLE FIDDER (In absentia)
THESIS: The Toxicological Effects of Pyrastrobin on the Energy Allocation Pattern of the Freshwater Gastropod, Lymnaea stagnalis

KRISTINA LYNN KOHL
THESIS: Neonicotinoid Insecticides: Agricultural Use, Runoff, and Invertebrate Toxicity

HEATHER AMELIA LANZA
THESIS: Perfluorinated Compound Residues in Biota Collected Near Barksdale Air Force Base, Bossier City, Louisiana, USA

KARA A. MINTON
THESIS: The Role of Temperature Variation in Neonicotinoid Toxicity and Species Sensitivity Distributions to Temperature

EXERCISE AND SPORT SCIENCES
LUKE THOMAS ADAMS
REBECCA LEIGH ANDERSON
MICHAEL JARED BOYD
DYLAN PATRICK CLARK
ALEXANDER STEPHEN DRUSCH
THESIS: The Effects of an After-school Strength and Conditioning Program on the Rate of Torque Development in Pre-adolescent Boys

CHANTE SIERRA FREEMAN
CHRISTIAN TYLER PEREZ
MATTHEW SHORT
THESIS: The Circulatory Levels of Irsin in Response to Acute and Chronic Resistance Training in Healthy Humans

LAUREN MARIEL STOLEN

FAMILY AND CONSUMER SCIENCES EDUCATION
LAURA LYNN HUGHES (In absentia)

FORENSIC SCIENCE
SAMUEL JUSTICE EDISON
HEATHER LYNN HIGHTOWER

GEO SCIENCES
KAITLYN ELISABETH ANDREAS
THESIS: Studying the Geometry and Kinematics of Gypsum-filled Fractures in the Permian Strata of Caprock Canyons State Park, Texas, USA

RYAN ALLEN BERRY
THESIS: Hornblende as an Indicator of Magma Batches and Magmatic Processes in the English Peak Pluton, Klamath Mountains, California

DAVID KEITH BRANNAN IV
THESIS: Fluvial Overprinting of Glacially Induced Microtextures on Quartz Grains Derived from the Chitina Glacier, Alaska

HORTICULTURE
B. KELLEY-ANNE RAWLsky

HUMAN DEVELOPMENT AND FAMILY STUDIES
BRITTANY L. SELPH

INTERDISCIPLINARY STUDIES
HANNAH LYNN BERGREN
ELIZABETH ANN GONZALEZ
TANYA ARUNPRakash MISHRA
THESIS: A Comparative Study Between Idealism and Realism in Mythological Sculpture and Portraiture in Hellenistic Greece (323-31 BC)

YAMINI PRADEEPKUM RATHAMSETTY

MANAGEMENT INFORMATION SYSTEMS
MADHUMATHI KANNAN (In absentia)

SHASHI KIRAN NARASIMHA REDDY

MARRIAGE AND FAMILY THERAPY
RAQUEL SHUMWAY CRUZ

MATHEMATICS
JACK EDWARD BYERS
CUI LUI
THESIS: Statistical Analysis on Warming Effects in Kansas City Area

HAIBO ZHANG

MICROBIOLOGY
TREVOR TAREK MASON (In absentia)
THESIS: Assessing Direct and Indirect Effects of the Fungicide, Flutriafol, on Arbuscular Mycorrhizal Fungi in Controlling Cotton Root Rot

RACHEL LEANN SIMS

DIANA LUCIA VARGAS GUTIERREZ

NICHOLAS DANE GOFORTH (In absentia)
THESIS: Short-term Effects of Wildfire on Bat Activity on the Valles Caldera National Preserve, New Mexico

KATHERINE PAULINE LEUENBERGER
THESIS: The Effects of Vegetation Variability, Demographic Differences, and Spatial Factors on Urban Bird Richness

CALEB POWELL ROBERTS (In absentia)
THESIS: Seasonal and Diel Elk Habitat Selection in the Jemez Mountains of New Mexico

KRISTINA JEAN YOUNG (In absentia)

PHYSICS
MARKHOOt MUDITH S. ALDAWSARI

THESIS: Comprehensive Study of Optical Condensers Formed in Wet-mounting Setup

CHRISTOPHER MARTIN STANLEY

PLANT AND SOIL SCIENCE
AMRITA DHAL
Thesis: GLABRA2 (GL2) Regulation of Cellulose Synthase A5 Gene Expression in Arabidopsis

PERSONAL FINANCIAL PLANNING
SHAINA HILL
HERMELJOHNSON, JR. (In absentia)
ZUNAIRA KHALID
MICHAEL CLARK WALSH (In absentia)

STATISTICS
JIIA WANG
THESIS: Genetic Mapping of Mice Derived From an F2 Intercross Population

QING XU
WILDLIFE, AQUATIC, AND WILDLANDS SCIENCE AND MANAGEMENT
MATTHEW ROSS ACRE
THESIS: Can a River-Reservoir Interface Serve as Nursery Habitat for Riverine Fishes?

JORDAN M. CALVERT
THESIS: Large Mammal Water Use on the Barry M. Goldwater Range-East in Southwestern Arizona

NIRAJ RAYAMAJI
THESIS: Conservation Genetics of Sclerocactus brevifolius subs. tobuschii and an Assessment of Its Genetic Relationship with Sclerocactus brevifolius subs. brevifolius

AAKRTI SHARMA
THESIS: Characterization of Soils via Portable X-Ray Fluorescence Spectrometer

CLAERENCE J. WEBB
THESIS: Crop Tolerance and Weed Management with Pyroxasulfone in Cotton

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EMMA DELANEY McLEAN
MICHAEL DAVID MEDFORD
KATHLEEN ELIZABETH WALKER
DAVID LEE YEARY

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JULIO CESAR ALVAREZ HERNANDEZ
SAMIR BLANCHET
KRISHNA DHUNGANA

A U G U S T 2 0 1 5  1 9
GRADUATE CANDIDATES

MASTER OF SCIENCE IN ELECTRICAL ENGINEERING

ADEYEMI OPEOLUWA AFOLABI
THESIS: Timing Behavior Modeling and Analysis for Hybrid Logic Full Adders in Bulk CMOS and FinFET

ARGENIS VALENTIN BILBAO (In absentia)

SAI KRISHNA KARTHIKEYA CHALLA
THESIS: Design of High-power, Lithium-ion Polymer Battery Management Systems

ALEXANDER W. CLARK
THESIS: Calculating the Weight of a Pig Through Facial Geometry Using 2-dimensional Image Processing

ERIC SIEGFRIED CORDERO DE SAINT MARS
THESIS: Rigorous Theory Based on Transient Eigen Expansion Rectifying Known Integral Analysis of Unsteady Viscous Encroachment in Capillary Channels

SRI RATHAN RANGISETTI
THESIS: Analysis, Design, and Optimization of Binary to BCD Converters

EVAN ROCHA
THESIS: Comparison of a Carbon Fiber and Carbon-epoxy Multicapillary Cathode in a Reflex Triode Vircator under UHV Conditions

DAVID SEVERIN RYBERG
THESIS: A System for Time-discretized Vacuum Ultraviolet Spectroscopy of Spark Discharges

MATTHEW SCOTT SAPP (In absentia)

THESIS: Kilohertz Operation of a Gyromagnetic Nonlinear Transmission Line High Power Microwave Source

GODLOVE AZHIE-NWI WANKI
THESIS: Tumor-endothelial Cell Interaction and Glucose Metabolism

MASTER OF SCIENCE IN PETROLEUM ENGINEERING

ALI HUSSAIN A. AL ALI (In absentia)

MOHAMMED HUSSAIN M ALJUBRAN (In absentia)

ALEX BEDIAKO GYAU

MRUNALI PATIL

PAUL LEWIS SIMS, SR.

GREGORY J. WITTE

MASTER OF SCIENCE IN INDUSTRIAL ENGINEERING

JORIS MICHEL GUERIN (In absentia)

MASTER OF SCIENCE IN MECHANICAL ENGINEERING

ALI GURSOY

SAGNIK SINGHA

MASTER OF SCIENCE IN SOFTWARE ENGINEERING

ASHLEY ELIZABETH ENGLISCH-SPINNEY (In absentia)

ZACHARY ALAN FALGOUT (In absentia)

MASTER OF SCIENCE IN SYSTEMS AND ENGINEERING MANAGEMENT

ROBERT TYLER McCLARY (In absentia)
The bachelor's degree represents completion of a four-year course of college-level study and is the oldest academic degree awarded by American institutions of higher learning.

Graduation with Honors is a distinction that is noted on diplomas and transcripts and receives special recognition at graduation ceremonies. Undergraduates who complete their work with a cumulative grade point average of 3.9 or above are graduated Summa Cum Laude; 3.7 to 3.89, Magna Cum Laude; 3.5 to 3.69, Cum Laude. Those who graduate from the Honors College after acquiring 24 Honors credit hours graduate "with Honors." Those who also complete an Honors thesis or project consisting of six additional hours graduate “with Highest Honors.”
<table>
<thead>
<tr>
<th>Name</th>
<th>Major</th>
<th>Honors</th>
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<tbody>
<tr>
<td>Kimberly Michelle Davis</td>
<td>2nd Major: Political Science</td>
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<td>Kirti Rae Edwards</td>
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<td>Matthew Donovan Finch</td>
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<td>Matthew Aaron Hamlin</td>
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<td>Macee Michelle Lane</td>
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<td>Ashley Nicole Nagy</td>
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<td>Daniel Michael Noonan</td>
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<td>Jordan Tyler Price</td>
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<td>Megan Kay Sayles</td>
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<td>Joel Calvin Smith</td>
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<td>Richard S. Tyson</td>
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<td>John Thomas Vukovic</td>
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<td>Kelsey Shawn Madden</td>
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<td>Grayson William Akerly</td>
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1 Summa Cum Laude  
2 Magna Cum Laude  
3 Cum Laude  
4 With Honors  
5 With Highest Honors
CELL AND MOLECULAR BIOLOGY
CODY JON-CHRISTIAN HINSHAW

CHEMISTRY
SEONG YEON CHO
LEOPOLDO DIAZ III
2nd Major: Mathematics
MICHAEL CHASE FRANKLIN
TRAM N. TRUONG

ECONOMICS
THIAGO RIBEIRO PINTO

EXERCISE AND SPORT SCIENCES
KRISTIN NICOLE AMERSON
RANCE LEE ANDREWS
STEPHANIE MEGAN ARENIVAS
ETHAN LAYNE AYCOCK
JUAN JOSE BARBOSA
ROBIN NICOLE BERMEA
KELCI MARIE BETHKE
Macy Elizabeth Bostick
EMILY MORGAN BROWN
LESLIE DANIELLE CAIN
AHALEE CLAIRE CATHEY
KARLYN KAY CARR
MICHAEL CESAR CORRADA
CODY LLOYD COWART
JOSHUA DAVID DALE
COURTNEY BRIANNE DEATHRIAGE
KRISTOPHER COLE ELIZONDO
AUBREY ANNE ELLIOTT
TANNER RYAN FROST
CRYSTAL GARCIA
MATTHEW DON GARLITZ
TYRA ANGELIQUE GETER
NAOMI GENIELLE GIRON
SPENCER LEE GODARD
PEARSON GUY GRANT
TARYN DAVID THOMPSON
KATHRINE LEIGH STRoud
TAYLOR BROOKE STOCKTON
KATHARINE LEIGH STRoud
JESSICA ELIZABETH HEWETT
ALEXANDRIA AUDREY JOYCE HOOK
ERICA ANN HSU
ALLISON MARY JEFFRIES
THOMAS TREY JOHNSON
AMBER LYNN JOZWIAK
TAYLOR GARY KARRH
KATHERINE ELIZABETH KING
JARED MATTHEW KIRCHMEIER
ASHLEIGH MICHELE LICKERT
AUSTIN YEAGER MARTIN
RYUN MARTINEZ
GARRETT JAMES MCDADD
ZACHARY LEE MCDPADDEN
CHRISTIAN EMMANUEL NELSON
TRAVIS DEAN NEWCOmB

HANNA MARIE OBADAT
ROBERT JAMES OLIVAREZ, JR.
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GEORGE KENNETH PARDY
COURTNEY PAIGE PARHAM
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ANDREA LAUREN RAYMOND
ETHAN SAYLOR REID
ISABEL C. REYES
CHRISTOPHER NOAH ROBERTS
COlBY DOUGLAS ROSEN
BRITANY NICHOLE RUBLE
TAYLOR BROOKE SCONYERS
OSCAR ALFONSO SEVILLANO
VIOLET AINSLEY SHAFFER
JORDAN CURTIS SIMMONS
JOSHUA LEONARD SLOAN
Savnanna Brooke Stockton
KATIE JUNE UNDERWOOD
JOSHUA KOLE WELDON
SARAH ASHLEY WILKE
RAYLAN PAIGE WITTEN
KASIE ELIZABETH YOUNGLAS

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WILLIAM EUGENE ARMSTRONG
CLINTON ERNEST CARR
ALEXANDER LEE GEIS
DONALD QUENTIN KRAMER
ROBERT C. PARTY
WILLIAM HOUSTON REEVES
GERRY DANIEL RETZLOFF
TYLER CHARLES ROY

MATHEMATICS
MATTHEW RICHARD BARR
SHENGQIAO HUANG
BRiANNA RAE LUTZ
JORDAN RAY NICHOLAS
PHUONG-MAI CHRISTINE TRAN

MICROBIOLOGY
PEYTON TAYLOR EDMONDS
LETICIA ESPARZA
NIDAL A. HALIMEH

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IN INTERNATIONAL ECONOMICS
JOHN DAVID DEANs
SPENCER WAYNE ERWIN
RYAN KAVANAUGH
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UNIVERSITY OF TEXAS AT EL PASO

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LYNDON COLE MASSEY
2nd Major: Management
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PATRICK O’CONNELL PATTERSON
HARRISON BRAYDEN ROSE
ANDY GROVES RYAN
Elliott Jackson Sewell
BRIANNA NICOLE SHARP
TAMUKA KUNDAI SIMANGO
Clement Sordet
KELCEY RENE SULAK
2nd Major: Management

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SALENE BAMPI
EDUARDO BARCENAS
VANESSA A. BOSQUE
PAULA RENEA BROOKS
JASON CHARLES BUSTILLOS
ARACELY CARDENAS
VALERIE CASTILLO
HURLENE A. CATAHAN
MARIA ISABEL CORONADO
EVELYN COVARRUBIAS
STEFANI CUEVAS
BARBARA DEJARNETT
JENNIFER C. DELGADO
YARA JAZMIN DURAN
MARIA CARMEN EGUILUZ
MARThA LETICIA ESQUIVEL
ERIC XAVIER ESTRADA
DAISY FUENTES
DENNISE ARLETH GARCIA
BEA LINDA GARZA
SHAY LEE GARCIA
ARACELY XITALY GUAJARDO
NANCY GUERRA
NANCY GUERRERO
CINTHIA GUTIERREZ
ANEL MONZERRAT HIDALGO-MATURANO
JOSHUA STEVEN HILDINGER
JOVAN IBARRA
LAUREN M. IMMENSCHUH
MAIRA JAIME
MYRIAH LYNN JONES
CHARITY H. KINCANNON-KESTER
SONIA M. KROWL

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ERIC A. GARZA DEL BOSQUE
TYLER NICHOLAS SONNTAG
EILEEN NYAMBURA WAINAINA
THEODORE WILLIE WILLIAMS

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JONATHAN COLE HAMPTON
SIMON NATHANIEL MELONAS

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NORMAN BREWER
HAYDEN KYLE MILLER

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MICHAEL EDWARD CUMMINGS
ALEX KATE DUBBERLY
JOSHUA DANIEL RODRIGUEZ

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DOUGLAS ERNEST BERNOFT
VINCENT LAWRENCE DOMINIC
JAMIL MARC FAULKNER
SHANNON PAUL FEATHERS III
JARRED WADE FERGUSON
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ANDREW O. JONES
ANDRES L. MIRELES
DUY NGUYEN
BLAYNE OWEN PARRISH
MISLAV RAC
AUSTIN WARREN REID
HORACE LE ROBINSON
THOMAS L. ROCHA
HEATH WINSTON STEELE
WILLIAM CHRISTOPHER STOUT
2nd Major: Computer Science

ENVIRONMENTAL ENGINEERING
MEGAN NICHOL MULLEN

INDUSTRIAL ENGINEERING
ALONZO GUADALUPE Gonzalez
JOHNSON HO
THOMAS MATHIEU
LINH-GIA NGUYEN-VAN
CHRISTIAN A. NIMOH
BREYLON DEVON RANKINE
ANDREW CRAIG THOMAS

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JESUS EFREN CANO
BRETT GLENN COOK
DAVID WILDS DAY
JOSHUA EDWARD FALDYN
TANNER CRAIG FORD
TYLER GARRETT HART
ROBERT TRAVIS HILDEBRAND
ROSS ALAN MAYNARD
JONATHAN CHIBEZE MGBEIKE
XAVIER IGNACIO NANEX
RYAN KENDALE RICHERSON
JAMES DALLAS SEWELL III
MOHAMMAD K. SHAHID
JERRY EDWARD TOCHTERMAN, JR.

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ARYAN SHAZAD
ERMAS ZERGAW

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Honors College

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HONORS ARTS AND LETTERS
SIRIA YSABEL BOJORQUEZ
EUNJEE KIM

TEXAS TECH UNIVERSITY
College of Human Sciences

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JESSICA RENEE ATWOOD
STEPHANIE RENEE GARZA
ANGELA MARIE JONES
JORDAN LEIGHANN KING

BACHELOR OF SCIENCE
APPAREL DESIGN AND MANUFACTURING
ALEXANDRA L. ALVARADO
TATISHA CECILE CARRASCO
ELLEN MARIA CHANCELLOR
EMILY LYNN CHARLTON
2nd Degree: General Studies
TAYLOR MAE DAWSON
ELIOT MARTIN DRAKE
ALISON RENEE GILLILAND
LISA LI HON
VALENCIA CECIL JACKSON
ELAINE ELISE MORTON
SARA YVONNE PETROSS
LYNDSLEY NOELLE SANCHEZ
SHYANNE NICOLE YURRITA

COMMUNITY, FAMILY, AND ADDICTION SERVICES
STUART GILCHRIST BEESON
STACIE CASSANDRA CHAVEZ
JACORIAN KEVIN DUFFIELD
EMILY MARIE HAMILTON
MAZIE RENE HERNANDEZ
JOHN NORMAN LASSETER
LATRESE CHANELE VANCE
KAYLA JOY WANG

EARLY CHILDHOOD
APRIL MARIE CRAIG

FAMILY AND CONSUMER SCIENCES
HAYLE DANIELLE JACKSON

HUMAN DEVELOPMENT AND FAMILY STUDIES
SAMANTHA CATHERINE ABERNATHY
CAITLYN JANAE BUSH
VANESSA RENÉ CASTILLO

HUMAN SCIENCES
McKENZIE BROOKE ARCHER
ELYSE NICOLE BUSBY
DARRYL NORWOOD DORA
LAQUITHA QUINETTE DUNCAN
PATRICK SCOTT HART
ANGELA CLARABELLE LUNA
MICHELLE MARIE MELROSE
TYLER DEAUN MIDDLETON
REBECCA GABRIELLE NICKENS
AUDRA JOE NIEMAN
CHRISTOPHER JAMES RAMIREZ
TAYLOR ELIZABETH REDDINGTON
KACEY RENEE SCHWENK
SHELDON THOMAS WEBSTER
JAMES BRENNAN WELCH

NUTRITION
ODESSA ERIN APPEL
RACHEL LAUREN COFFMAN
MEAGAN ELAINE FULCHER
KATHRYN PAIGE GREEN
AVRIL VONETTA McGHEE
STEPHEN P. RAJOTTE

NUTRITIONAL SCIENCES AND DIETETICS
CYNTHIA ENRIQUEZ
KASSANDRA TROI LAMB
CONNALLY REBECCA RUSHING
ALSTON COLE TRBULA

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

AUGUST 2015  25
UNDERGRADUATE CANDIDATES

RESTAURANT, HOTEL, AND INSTITUTIONAL MANAGEMENT
KADY LAUREN AUGUSTUS
BRANDON TRANT BARTA
ELISSA CAMILLE BROWN
KENNEDI JEAN CLARK
TAYLOR ALEXANDRA ERPILLO
TAYLOR MARIE MAXEY
CASEY REESE MONROE
KELSEY KAITLYN MOYNIHAN
RACHEL LAUREN MUÑOZ
MICHAEL CHARLES PAULSEN
SCOTT ROBERT POSSEHL
TAYLOR RAE SCRIVEN
JOHN CODY SELLERS
WILLIAM D. BRENT SHAPER
BLAKE AUSTIN STEINFORD
DANIEL C. WADE
KELSEY ANNA WARD

RETAIL MANAGEMENT
BREANDREA NICOLE ADEVEREAUX
ELIZABETH LAYNE BALDOCK
KATHRYN MARIE BYRNE
MONTRELL DEMON CARTWRIGHT
BRIAN JACOB FIELD
IJEOMA SANDRA IHME
HAILEY ELIZABETH MARTYN
SYDNEY MECHELLE MONTGOMERY

ELECTRONIC MEDIA AND COMMUNICATIONS
AUDREY ROSE D’ANTONIO
KEITH GREEN
ALYSSA BETH HAYDEN
KAMI NICOLE HUNT
TAYLOR NICOLE LAHEY
JENNIFER ELIZABETH MCKOWN
2nd Degree: Theatre Arts
LINDA BIANCA PARKER
KEVIN RYAN QUIGLEY
KEVIN CHARLES ROGERS

JOURNALISM
REGINE ELISE CLIATT
LORELEI DAY
KAITLYN SARA KRAVIK
TAUTH FRANKIE TREES

MEDIA STRATEGIES
JOSHUA MICHAEL BARBEE
TYLER ASHTON COLLARD
REBECCA STEPHANIE DOUGLAS
EMILY MARIE ECKLUND
ROBERT BENNETT ENDLICH
JORGE EDUARDO HINOJOSA, JR.
KATELYN NEAL NEWMAN
DANIEL PAGE ROLEN
MALLORY ANNE SANDERSON
OLIVIA PAIGE SIKORA

PUBLIC RELATIONS
ZOE KATHERINE BELL
COURTNEY ELLEN CAUTHEN
CHRISTY LEE COLE
LANCE CONNOR FORMBY
DIXIE CARLYN FRECHETTE
TAYLOR PAIGE GLASS
TRAVIS COBB LOFLEY
NATALIE LYNN SWARINGAM
NOELLE ANDREA VELA

HEATHER NICOLE EATON
JUSTIN ROYCE HUGHES
KLINTON MARLER
ELLIO T McGOUGH SCHARF
CONNOR PAIGE SIMS
IRIS JAZELLE SOTO
HANNAH MARGARET TICHACEK
ZACHARY MORSE WALLACE

BACHELOR OF ARTS

UNIVERSITY STUDIES
NICHOLAS GRANT BEARD
LESLI RENAE BILLS
KAYLEY LYNN BYNUM
JUAN CARLOS CASTILLO
CODY AUSTIN CHRISTENSEN
BREANNA NIKOHL CONNER
TAMMY DENISE CORN
TAYLOR JENNINGS COX
CLAYTON CAMPBELL DANIELS
ALTAGRACIA TORRES DELVALLE
NIKOLENA MARIE FERONTI
KYLE JACOB FIELDS
HAYDEN ALEXANDER HOLMES
WESLEY DANIEL KAROTKIN
MICHAEL PATRICK KENNEDY
TONI DANETTE KREBS
REED WILLIAM KRUIGER
ERIC CARL LANTZ
JASON ANTHONY LAPISKA
RALPH JUSTIN LAYTON
SHELDON A. LEMCO
FILIBERTO MARQUEZ
JEFFREY MICHAEL MEYER
NICHOLAS DANIEL MEZA
JESSICA ANN NORWOOD
CODY BENNETT OLIVER
JACOB PAUL PACHECO
CLAYTON WILLIAM O’ROR
EVER ANTONIO PRIETO
THOMAS WILLIAM REHG
TARRINGTON LEE RIVERS
JORDAN PAUL SIMON
KARLEA BLAINE SMITH
ROBERT MICHAEL STEWART
KEVIN EUGENE THORNTON
CHRISTINA MONIQUE VAZQUEZ
AMANDA SUZANNE WELDY
RYAN JEFFERY WILLIAMS
SHAKIRRA PARETT WILLIAMS

TEXAS TECH UNIVERSITY

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

26 TEXAS TECH UNIVERSITY
BACHELOR OF SCIENCE
UNIVERSITY STUDIES
ROBERT SCOTT BRISCOE
DAVID WAYNE FOSTER, JR.
GREGORY CHARLES GORMAN
SUMMER BREANNE JOHNSON
JON CODY JOLLEY
BRIAN E. OCHUKO
RACHEL MICHELLE PELLETIER
LENCI ELIZABETH RODRIGUEZ
JOHN RYAN RUSHING
RYAN MICHAEL STARR
SARAH JANE STUBBS
JOE SALDAÑA TJERINA
JOHN RAYMOND ZACHERY III

WIND ENERGY
GEORGE EVAN BETTS
MATTHEW TAYLOR BISHOP
TIMOTHY WAYNE GASSAWAY
GRAYSON MCCALL GRAY
CASEY BRAD MERRITT
ESKA LAWRENCE MILLER
ZACHARY BRADFORD WINBUSH

BACHELOR OF ARTS
THEATRE ARTS
VICTORIA CORINNE LAWSON

BACHELOR OF FINE ARTS
ART
RYAN MATTHEW BITZER
VEATRIZ FERGUSON
KATELYN YVONNE McPHERSON
JAMES FRANK POTTS V
SYDNEY LYNN WILSON

BACHELOR OF GENERAL STUDIES
TREVOR SCOTT RITCHEY

BACHELOR OF MUSIC
MARK AUSTIN BELDING
CHELSEA ELIZABETH CROCHET
WILLIAM TREvor HALL

*Summa Cum Laude  *Magna Cum Laude  *Cum Laude  *With Honors  *With Highest Honors
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 the 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. 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 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 Texas Tech 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 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, a college faculty member.

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 Provost in cooperation with the Convocation Committee and the Office of Official Publications at Texas Tech University.
- 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 August 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.
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 G. 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)
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.