



TEXAS TECH UNIVERSITY®

From here, it's possible.



COMMENCEMENT
AUGUST 9, 2014



DEDICATED
SEPTEMBER 1972
TEXAS TECH
UNIVERSITY



TEXAS TECH UNIVERSITY®

Commencement Ceremony

Saturday, August 9, 2014
UNITED SUPERMARKETS ARENA

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

CONTENTS

Administration		3
About Texas Tech University		4 – 7
Commencement Ceremonies		8 – 9
Commencement Speaker		10
About President Nellis		10
Acknowledgements		11
Convocations Committee		
Administrative Representatives		
College Readers		
International Flags		
Banner Bearers		
Faculty Banner Bearers for Ceremonies		
Presidential Mace		12
Receptions and Other Ceremonies		12
Candidates for Military Commissions		12
List of Graduate Degree Candidates		13 – 21
List of Undergraduate Degree Candidates		22 – 27
Academic Dress and Procession		28 – 29
College Banners		30 – 31
Texas Tech Traditions		32
Seating Charts		33

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 and
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 L. DUNCAN, J.D.
Chancellor, Texas Tech University System

MR. MICKEY L. LONG
Chairman, Board of Regents
Midland, Texas

MR. LARRY K. ANDERS
Vice Chairman, Board of Regents
Dallas, Texas

MR. JOHN ESPARZA
Austin, Texas

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MR. TIM LANCASTER
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San Antonio, Texas

MRS. NANCY NEAL
Lubbock, Texas

MR. JOHN D. STEINMETZ
Lubbock, Texas

MR. JOHN B. WALKER
Houston, Texas

MR. COBY RAY
Plano, Texas

ACADEMIC OFFICERS

MARK SHERIDAN, Ph.D.
Vice Provost for Graduate Studies;
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

CAROL D. EDWARDS, Ph.D.
Dean, College of Visual and Performing Arts;
Professor of Art

ABOUT TEXAS TECH

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 system in Texas that hosts a university, a law school, and a health science center on adjacent campuses, Texas Tech University is the major institution of higher education in a region larger than 46 of the nation's 50 states.

Today, Texas Tech University continues to thrive, with more than 33,000 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.





ABOUT TEXAS TECH

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 absolute certainty one important fact about Texas Tech University:

From here, it's possible.







COMMENCEMENT

Saturday, August 9, 2014
9:00 a.m.

Presiding	Dr. M. Duane Nellis <i>President, Texas Tech University</i>
Processional*	Texas Tech Commencement Band <i>Prof. Duane Hill, Conductor</i>
National Anthem	Dr. Quinn Patrick Ankrum <i>Assistant Professor of Music</i>
Welcoming Remarks	Mr. Tim Lancaster <i>Board of Regents, Texas Tech University System</i> Mr. Robert L. Duncan <i>Chancellor, Texas Tech University System</i>
Introduction of Commencement Speaker	Dr. M. Duane Nellis
Commencement Address	Mr. Douglas E. Barnhart <i>Chairman of the Board of Barnhart-Reese Inc., Managing Partner of Makena Medical Buildings LLC, and Chief Executive Officer of Makena Consulting, Inc.</i>
Conferring of Degrees	Dr. M. Duane Nellis Dr. Lawrence E. Schovanec <i>Provost and Senior Vice President</i>
Presentation of Doctoral and Master's Degree Candidates	Dr. Mark A. Sheridan <i>Vice Provost for Graduate Studies and Dean, Graduate School</i>
Presentation of Bachelor's Degree Candidates	Dr. Michael L. Galyean <i>Dean, College of Agricultural Sciences and Natural Resources</i> Dr. Marijane Wernsman <i>Assistant Dean of Students and Study Abroad, College of Media and Communication</i> Dr. W. Brent Lindquist <i>Dean, College of Arts and Sciences</i> Dr. Michael San Francisco <i>Dean, Honors College</i> Dr. Scott Ridley <i>Dean, College of Education</i> Dr. Clifton Ellis <i>Associate Dean, College of Architecture</i>
Recognition of Outstanding Students Class of 2014	Dr. Lawrence E. Schovanec
Charge to the Graduates	Dr. M. Duane Nellis
Alma Mater (Words on Back Cover)	Mr. Daniel Singleton Todd <i>Graduating with a Doctor of Philosophy in Fine Arts</i>
Recessional*	Texas Tech Commencement Band

* Please remain seated during the Processional and Recessional

COMMENCEMENT



**Saturday, August 9, 2014
1:30 p.m.**

Presiding	Dr. M. Duane Nellis <i>President, Texas Tech University</i>
Processional*	Texas Tech Commencement Band <i>Prof. Duane Hill, Conductor</i>
National Anthem	Dr. Quinn Patrick Ankrum <i>Assistant Professor of Music</i>
Welcoming Remarks	Mrs. Nancy Neal <i>Board of Regents, Texas Tech University System</i> Mr. Robert L. Duncan <i>Chancellor, Texas Tech University System</i>
Introduction of Commencement Speaker	Dr. M. Duane Nellis
Commencement Address	Mr. Douglas E. Barnhart <i>Chairman of the Board of Barnhart-Reese Inc., Managing Partner of Makena Medical Buildings LLC, and Chief Executive Officer of Makena Consulting, Inc.</i>
Conferring of Degrees	Dr. M. Duane Nellis Dr. Lawrence E. Schovanec <i>Provost and Senior Vice President</i>
Presentation of Doctoral and Master's Degree Candidates	Dr. Mark A. Sheridan <i>Vice Provost for Graduate Studies and Dean, Graduate School</i>
Presentation of Bachelor's Degree Candidates	Dr. Juan S. Muñoz (<i>presenting University Studies and Wind Energy degrees</i>) <i>Senior Vice President for Institutional Diversity, Equity, and Community Engagement; Vice Provost for Undergraduate Education and Student Affairs</i> Dr. Carol D. Edwards <i>Dean, College of Visual and Performing Arts</i> Dr. Lance A. Nail <i>Dean, Jerry S. Rawls College of Business</i> Dr. Stephen Ekwaro-Osire <i>Associate Dean of Research and Graduate Programs and Professor of Mechanical Engineering, Edward E. Whitacre Jr. College of Engineering</i> Dr. Linda C. Hoover <i>Dean, College of Human Sciences</i>
Recognition of Outstanding Students Class of 2014	Dr. Lawrence E. Schovanec
Charge to the Graduates	Dr. M. Duane Nellis
Alma Mater (<i>Words on Back Cover</i>)	Mr. Daniel Singleton Todd <i>Graduating with a Doctor of Philosophy in Fine Arts</i>
Recessional*	Texas Tech Commencement Band

* Please remain seated during the Processional and Recessional



COMMENCEMENT SPEAKER

Douglas E. Barnhart is chairman of the board of Barnhart-Reese Inc., managing partner of Makena Medical Buildings LLC, and chief executive officer of Makena Consulting, Inc.

Prior to founding the Makena Companies, Doug was chairman of the board of Barnhart, Inc., which under his leadership grew to a yearly sales volume in excess of \$650 million. Prior to founding Barnhart, Inc. in 1983, Doug served as a Navy Civil Engineer Corps officer, responsible for U.S. Government administration of construction contracts and public works administration at Navy shore installations, and as a vice president for a major Southern California contractor.

Doug was a gubernatorial appointee and past chairman of the California Contractors State License Board; a former Commissioner of The California Uniform Public Construction Cost Accounting Commission; and the Del Mar Fair Board. He is a former executive board member of the Regional San Diego Chamber of Commerce, a board member of the San Diego National Bank, past-president of the San Diego International Sports Council, and past chairman of the Qualcomm Stadium Board. He also served as co-chair of the San Diego Super Bowl Host Committee. He was the 2008 president of the Associated General Contractors (AGC) of America, and is a Construction Neutral for the American Arbitration Association. Doug is also a past chairman of the Construction Apprenticeship Trust for the San Diego AGC, secretary of the AGC Construction Pension Trust, and past chairman of the National AGC Heavy Federal Division. He has served on the AGC National Executive Committee for 10 terms.

Doug has received numerous honors and awards for his professional achievements. In 2008, he received the Woodrow Wilson Award for Corporate Citizenship. Other awards include the Small Business Award for Excellence, Who's Who in U.S. Executives, and the Business/Industry Award for the Greater San Diego Industry-Education Council. He has been named to the Civil Engineering Academy at Texas Tech University, and is a Texas Tech Distinguished Engineer. In 2009, he was named a Distinguished Texas Tech Alumnus.



ABOUT PRESIDENT M. DUANE NELLIS

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

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

Nellis also has been recognized nationally and internationally for his research and teaching through numerous awards from organizations such as the Association of American Geographers (AAG), AAG's John Fraser Hart Award for Excellence in Research, the Outstanding Contributions Award by the AAG's Remote Sensing Specialty Group, the Young Research Scholar Award by the Institute of British Geographers, the Kansas State University Outstanding Teaching Award and University Adviser of the Year Award, as a Fellow of the American Association for the Advancement of Science, and as a Distinguished Alumni Fellow Award recipient from Oregon State University. Nellis previously served as provost and senior vice president at Kansas State University. He also served as dean of the Eberly College of Arts and Sciences at West Virginia University, the institution's largest academic college.



ACKNOWLEDGEMENTS

CONVOCATIONS COMMITTEE

Dr. Rhonda Boros, Chair
Ms. Shelley Barba, Chair-Elect
Dr. Mary Frances Agnello
Dr. Amma K. Akrofi
Dr. Rima Al Ajlouni
Mr. Ian Barba
Ms. Beth Bowlin
Dr. Julie Chang
Dr. Jamie Cooper
Dr. Fanni Coward
Dr. Patricia Delucia
Dr. Charlotte Dunham
Dr. Gary Elbow
Dr. Michael Farmer
Ms. Peggy Flores
Ms. Heather Ford
Dr. Kristi Gaines
Ms. Laura Heinz
Dr. Lynn Huffman
Dr. Catherine Jai
Dr. Carole Janisch
Dr. David Lamp
Dr. Jingyu Lin
Ms. Adriana Lopez
Dr. Elizabeth Loudon
Dr. Jaime Malaga
Dr. Aretha Marbley
Dr. Jonathan Marks
Dr. Barent McCool
Dr. Courtney Meyers
Dr. Comfort Pratt
Mr. Matthew Schliet
Ms. Carrie Syma
Mr. Jake Syma
Dr. Marcus Tanner
Dr. Shu Wang
Mr. Robert Wernsman
Ms. Lynn Whitfield
Ms. Heidi Winkler
Dr. Amani Zaier

ADMINISTRATIVE REPRESENTATIVES

Agricultural Sciences and Natural Resources – Ms. Lori Dudley
Architecture – Ms. Anna Martinez-Lopez
Arts and Sciences – Ms. Kim Mills
Business – Ms. Geleah Sharp
Education – Ms. Connie Watson
Engineering – Ms. Tonette Rittenberry
Graduate School – Ms. Lora Lopez
Honors College – Ms. Megan Conley
Human Sciences – Ms. Jennifer Dean
Media and Communication – Dr. Marijane Wernsman
University Studies – Ms. Amy Peterman and Ms. Sarah Foley
Visual and Performing Arts – Ms. Kathy Nordstrom
Wind Energy – Ms. Kacey Young

COLLEGE READERS

Agricultural Sciences and Natural Resources – Dr. Erica Irlbeck
Architecture – Professor Gary W. Smith
Arts and Sciences – Dr. Jorge Iber
Business – Dr. Robert Ricketts
Education – Dr. Peggy Johnson
Engineering – Mr. Derrick Ginter
Graduate School – Dr. Bill Gelber
Honors College – Dr. Jorge Iber
Human Sciences – Dr. Thomas Kimball
Media and Communication – Prof. Robert E. Wernsman
University Programs – Dr. Marcus Tanner
Visual and Performing Arts – Dr. Quinn Patrick Ankrum
Wind Energy – Dr. Marcus Tanner

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 2013 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.



STUDENT BANNER BEARERS

Agricultural Sciences and Natural Resources – Ms. Jodi Rowe
Architecture – Mr. Pedro Jorge Espinet
Arts and Sciences – Ms. Nicole Beth Amos
Business – Mr. Stuart Joseph Biltz
Education – Ms. Donna Carol West
Engineering – Ms. Jessica Anne Stilwell
Graduate School –
9:00 a.m. – Ms. Maria Teresa Leos
1:30 p.m. – Mr. Troy Matthew Lescher
Honors College –
9:00 a.m. – Ms. Shelby Thibodeaux
1:30 p.m. – Mr. Benjamin Rahman
Human Sciences – Mr. Nicholas D. Hayes
Media and Communication – Mr. Stan-lee Cole Heath
University Programs – Mr. David Cannon Vaughn
Visual and Performing Arts – Ms. Amy Lynn Tisdale

FACULTY BANNER BEARERS FOR UNDERGRADUATE CEREMONIES

9:00 a.m. – Joann Grant, M.A.
Assistant Professor of Practice, College of Media and Communication
1:30 p.m. – Debbie Laverie, Ph.D.
Senior Associate Dean and Professor of Marketing, Jerry S. Rawls College of Business



PRESIDENTIAL MACE

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



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

MACE BEARERS

- 9:00 a.m.** **Robin Lock, Ph.D.**
*Associate Dean for Graduate Education and Research;
Professor of Educational Psychology and Leadership,
College of Education*
- 1:30 p.m.** **Peter Fischer, D.M.A.**
*Associate Professor of Music,
College of Visual and Performing Arts*

RECEPTION

COLLEGE OF ARCHITECTURE RECEPTION

Immediately After Commencement Ceremony | Architecture Gallery

CANDIDATES FOR MILITARY COMMISSIONS

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

JAMES MARTIN MALONEY

The following students are being commissioned as a Second Lieutenant in the Army National Guard:

JOSHUA TROY CRANDELL

MICHAEL ALAN WHITE

GRADUATION HONORS

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

NICOLE BETH AMOS	NICKI HERNANDEZ
ALAINA DIANN EUBANK	JODIE MIA HASKELL
BRENDA BOURQUE GARZA	TORGEN SHANE MARTINSON
NICHOLAS D. HAYES	DONNA CAROL WEST
JACOB RYAN HEMPEL	



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

DONALD WAYNE KELM

DISSERTATION: A Study of the Effectiveness of Texas A&M AgriLife Extension Services' Program Excellence Academy for New Employees
MAJOR PROFESSORS: David Lawver and Chris Boleman

EDUCATIONAL LEADERSHIP

DUSTY LEE PALMER

DISSERTATION: An Examination of Reforming Grading Practices through the Lens of Transformational Leadership: A Mixed Methods Study
MAJOR PROFESSOR: Fernando Valle

KENDALL ARNIM YOUNG

DISSERTATION: Resiliency Factors of Minority Males
MAJOR PROFESSOR: Sylvia Mendez-Morse

INSTRUCTIONAL TECHNOLOGY

AMAL AYIDH J. ALZAHIRANI (In absentia)

DISSERTATION: An Examination of Students' Attitude and Effects of Role Assignment in Asynchronous Online Discussions
MAJOR PROFESSOR: Nancy Maushak

MARTI AUSTIN SIDES

DISSERTATION: Mobile Technology and the Reduction of Cognitive Load
MAJOR PROFESSOR: Nancy Maushak

CHRISTOPHER EDWARD ZAKRZEWSKI (In absentia)

DISSERTATION: Exploration of the Relationship between Epistemological Beliefs and Technology Acceptance
MAJOR PROFESSOR: Nancy Maushak

SPECIAL EDUCATION

JAMES DENNIS CAVITT

DISSERTATION: Examining the Effects of Teaching Self-Determination/Self-Advocacy Skills on the Domain Scores of the Arc Self-Determination Scale of Fifth Grade Students with High Incidence Disabilities
MAJOR PROFESSOR: Stacy Carter

CARLOS ALBERTO FLORES, JR.

DISSERTATION: The Effectiveness of Videoconferencing in the Delivery of a Manual Communication Lab for Deaf Educators
MAJOR PROFESSOR: Roseanna Davidson

DOCTOR OF MUSICAL ARTS

MUSIC

TONATIUH GARCIA JIMENEZ

DISSERTATION: Between Assimilation and Resistance of Western Musical Culture: Traces of Nationalism on José Pablo Moncayo's "Viola Sonata"
MAJOR PROFESSOR: Kimberly Sparr

ANTHONY JAMES KING

DISSERTATION: Double Concerto for Guitar and Bandoneon of "Homage a Liege" by Astor Piazzolla, Adapted and Arranged for Marimba and Vibraphone: A Performance Guide
MAJOR PROFESSOR: Lisa Rogers

MARTHA PLACERES

DISSERTATION: On the Performance of "Homenaje a Federico García Lorca" by Silvestre Revueltas and "Danzón No. 5" by Arturo Márquez
MAJOR PROFESSOR: David Becker

DOCTOR OF PHILOSOPHY

AGRICULTURAL AND APPLIED ECONOMICS

JANANI RAJBHANDARI THAPA

DISSERTATION: Essays on Community-based Behavior Change Interventions for Obesity Prevention
MAJOR PROFESSOR: Conrad Lyford

ANIMAL SCIENCE

MARIA ALEXANDRA CALLE MADRID (In absentia)

DISSERTATION: Detection of Shiga Toxin-Producing *Escherichia coli* (STEC) O157 and Non-O157 Serogroups by Multiplex IMS and Assessment of Growth Requirements
MAJOR PROFESSOR: Mindy Brashears

ANNA VAN STELTEN (In absentia)

DISSERTATION: Characterization of Virulence-attenuated *Listeria monocytogenes* Common among Food and Food-associated Environments but Rarely Associated with Disease
MAJOR PROFESSOR: Kendra Nightingale

BIOLOGY

JIAN CHEN

DISSERTATION: *Arabidopsis thaliana* Phosphotyrosyl Phosphatase Activator is Essential for Protein Phosphatase 2A Holoenzyme Assembling and Plays Important Roles in Hormone Signaling, Salt Stress Response, and Plant Growth and Development
MAJOR PROFESSOR: Hong Zhang

STEVEN DOUGLAS COLLINS

DISSERTATION: Fine-scale Modeling of Riverine Odonata Distributions in the Northeastern United States
MAJOR PROFESSOR: Nancy McIntyre

PRIYANKA PRIYADARSHENI DE SILVA WANIGASINGHA

ARACHCHILAGE (In absentia)
DISSERTATION: The Sensory Ecology of Foraging and Mating in Frog-biting midges (Corethrellidae: Diptera)
MAJOR PROFESSORS: Ximena E. Bernal and Lewis Held

ADAM W. FERGUSON (In absentia)

DISSERTATION: Evolution of Skunks (Carnivora: Mephitidae) across the Mexican Transition Zone: Understanding the Influence of Environmental Variation on Morphological and Phylogeographic Patterns
MAJOR PROFESSOR: Rich Strauss

WEI XU

DISSERTATION: One-Carbon Transfer Reactions in *Leishmania* Lipid Metabolism
MAJOR PROFESSOR: Kai Zhang

GRADUATE CANDIDATES

BUSINESS ADMINISTRATION

KYUNG-AH BYUN

DISSERTATION: Two Essays on the Effects of Product Recalls on Sales Dynamics and Consumer Loyalty

MAJOR PROFESSOR: Mayukh Dass

AMANDA SOPHIA HINOJOSA

DISSERTATION: Applicant Experiences of Cognitive Dissonance: An Investigation of the Influence of Dissonance in the Job Interview

MAJOR PROFESSOR: William Gardner

JUNYOU P LEE (In absentia)

DISSERTATION: Two Essays on Initial Public Offerings

MAJOR PROFESSOR: Jack Cooney

KELLY DAVIS McCAULEY

DISSERTATION: Emotional Separation from the Morality of the Self-Emotional Labor as an Antecedent of Dishonesty

MAJOR PROFESSOR: William Gardner

AJAYA KUMAR SWAIN

DISSERTATION: Investigating the Relationships among Corporate Sustainability Strategy, Operations Strategy, and Supply Chain Capabilities, and Their Impact on Sustainability Performance: A Resource-based View (RBV) Approach

MAJOR PROFESSOR: Qing Cao

YAN ZHANG (In absentia)

DISSERTATION: Examining the Long-run Accounting and Stock Performance of Serial Acquirers

MAJOR PROFESSOR: Derek Oler

CHEMICAL ENGINEERING

SRIYA DAS

DISSERTATION: Dispersion and Rheology of Stabilized Graphene Colloids and Gels

MAJOR PROFESSOR: Micah Green

QIUYING GU (In absentia)

DISSERTATION: Model-based Strategy for Control of Hydraulic Fracturing Processes

MAJOR PROFESSOR: Karlene Hoo

MIR ABDUL KARIM (In absentia)

DISSERTATION: Local Linear and Nonlinear Viscoelasticity of Polymeric System by Particle Tracking Rheology Simulation

MAJOR PROFESSOR: Rajesh Khare

JI HYE KIM

DISSERTATION: Drop-Based Microfluidics and Crystallization Studies

MAJOR PROFESSOR: Siva Vanapalli

RONG XU

DISSERTATION: Modeling of Solar Energy Conversion into Hydrogen Energy and Electricity

MAJOR PROFESSOR: Ted Wiesner

JING ZHAO

DISSERTATION: Dynamics below the Glass Transition Temperature and Viscoelastic and Calorimetric Investigation of Different Fossil Resins

MAJOR PROFESSOR: Greg McKenna

CHEMISTRY

PADMANABHA VENKATESH KATTAMURI

DISSERTATION: Asymmetric C-C Bond Forming Reactions Using Chiral N-Phosphonyl Imines and Asymmetric Synthesis of Chiral Analogs of Anandamide and Evaluation of Their Anti-Inflammatory Activity

MAJOR PROFESSOR: Guigen Li

HUI LI

DISSERTATION: Novel Donor Substituted Group 14 Anions—Useful Ligand Systems for Zwitterionic Metal Complexes

MAJOR PROFESSOR: Clemens Krempner

BRIAN MICHAEL McNERNEY

DISSERTATION: Synthesis, Structure and Reactivity of Silicon Based Main Group Metal Complexes

MAJOR PROFESSOR: Clemens Krempner

GARRETT RANDALL MOHR

DISSERTATION: Characterization and Inhibition of *Trypanosoma cruzi* Sterol-C24 Methyltransferase Enzyme and Its Chemotherapeutic Implications for Chagas Disease

MAJOR PROFESSOR: William Nes

COREY ALAN PETTY

DISSERTATION: Exact Quantum Dynamical Calculations of Rovibrational Spectra Using Massively Parallel Computers

MAJOR PROFESSOR: Bill Poirier

SURESH PINDI

DISSERTATION: Chiral N-Phosphinyl and N-Sulfinyl Imine Chemistry: Design, Synthesis, and Applications in Asymmetric C-C Bond Forming Reactions through Group Assisted Purification (GAP)

MAJOR PROFESSOR: Guigen Li

CIVIL ENGINEERING

SREERAM GOPAL SINGARAJU

DISSERTATION: Nutrient Fate and Transport in Drainage Ditches Carrying Agricultural Runoff

MAJOR PROFESSOR: Venki Uddameri

COMPUTER SCIENCE

SOMA DATTA

DISSERTATION: A Multi-Stage Decision Algorithm for Rule Generation for Minority Class

MAJOR PROFESSOR: Susan Mengel

TAEGHYUN KANG (In absentia)

DISSERTATION: Blackboard for Component-based Robot Software Failure

MAJOR PROFESSOR: Michael Shin

COUNSELOR EDUCATION

NICOLE JULIETTE NOBLE

DISSERTATION: School Counselors' Perceptions of Twins

MAJOR PROFESSOR: Loretta Bradley

CURRICULUM AND INSTRUCTION

DANIEL CADE ALLEN

DISSERTATION: Professional Learning Communities and Collaboration: The Impact Collaboration Has on Teachers' Beliefs on Instruction

MAJOR PROFESSOR: Reese Todd

MARIA TERESA LEOS

DISSERTATION: Mispronouncing Haute Couture: A Teacher's Journey through the Literacies of Fashion

MAJOR PROFESSOR: Sally McMillan

ECONOMICS

NEDAL EISA FARHAN AZZAM (In absentia)

DISSERTATION: An Essay on Monetary Policy Asymmetry: An Application on the Central Bank of Jordan's Reaction Function

MAJOR PROFESSOR: Mashaalah Rahnamamoghadam

FAN JIANG

DISSERTATION: Three Essays on Family Firm and R & D Investment in China

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DISSERTATION: Essays in Time Use and Coordination

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DISSERTATION: Carbon Dioxide Emissions in the United States: Prospects and Policies

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EDUCATIONAL PSYCHOLOGY

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DISSERTATION: Examining the Academic Resilience in Mathematics Performance for the Underprivileged Ninth Graders Using the National Data from the High School Longitudinal Study (HSLS: 09)

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MAJOR PROFESSOR: William Lan

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DISSERTATION: Measuring Mathematics Interest and Affect: An Item Response Theory Evaluation of the Self-description Questionnaire I (SDAI)
MAJOR PROFESSOR: Lucy Barnard-Brak

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DISSERTATION: Modeling and Evaluation of High Voltage, High Power 4H-Silicon Carbide Insulated-gate Bipolar Transistors
MAJOR PROFESSOR: Stephen Bayne

KEVIN J. LAWSON

DISSERTATION: Safe Operating Area and Failure Modes of SiC Gate Turn-off Thyristors for High Energy Applications
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MAJOR PROFESSOR: Weimin Gao

FAMILY AND CONSUMER SCIENCES EDUCATION**SANDRA ELAINE DUKE**

DISSERTATION: Reported Family and Consumer Sciences Experiences and Perceived Social Capital of College Students: A Quantitative-Exploratory Cross-Cultural Study
MAJOR PROFESSOR: Barbara Allison

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MAJOR PROFESSOR: Anne Prouty

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MAJOR PROFESSOR: Melanie Sarge

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DISSERTATION: The Impacts of Use of Facebook Interactive Features on Individual Social Capital: A Moderated Mediation Model of Taking User Perceptions of Facebook and Motives of Usage into Account
MAJOR PROFESSOR: Weiwu Zhang

MEHRNAZ RAHIMI

DISSERTATION: How Tolerant Are People in the Diaspora of Opposing Political Views? An Evaluation of Media Use and Political Tolerance among Iranians in the U.S.A.
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MAJOR PROFESSOR: Frits Ruymgaart

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MAJOR PROFESSOR: Victoria Howle

KENDALL ALLISON GILLIES

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MAJOR PROFESSOR: Alex Solynin

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DISSERTATION: Coordinated Resource Allocation and Load Balancing for Network Systems Using Semistability Tools and Multiagent Coordination Optimization
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DISSERTATION: Investigation of Effects of Temperature and Swelling on Wellbore Stability in Unconventional Reservoirs
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TALAL DAOU GAMADI

DISSERTATION: Experimental and Numerical Study of the EOR Potential in Shale Oil Reservoirs by Cyclic Gas Injection
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MAAROOF SHAHRIAR

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POLITICAL SCIENCE

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DISSERTATION: Linguistic Assimilation and Ethnic Representation in the Post-Soviet Russia's Ethnic Homelands
MAJOR PROFESSOR: Frank Thames

PSYCHOLOGY—CLINICAL PSYCHOLOGY

VANESSA HAVILAH BAYER

DISSERTATION: Eating Disorders in Lesbian and Bisexual Women: Relationship of Binge Eating to Depressive Symptoms, Shame, Distress Tolerance, and Internalized Homophobia
MAJOR PROFESSOR: Jim Clopton

DANIELLE RENEE JAHN

DISSERTATION: The Intervening Role of Perceived Burdensomeness in Relations between Domains of Cognitive Functioning and Indicators of Suicide Risk
MAJOR PROFESSOR: Kelly Cukrowicz

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DISSERTATION: Evaluating Cognitive Behavioral Case Formulations for Tailored Treatment of Comorbid Depression and Anxiety Using Ecological Momentary Assessment
MAJOR PROFESSOR: Gregory Mumma

CHLOE VALENTINE MENON

DISSERTATION: Influence of Bilingualism on Neurocognitive Functioning: Relation to Educational Attainment and Apolipoprotein E-4 Status
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DISSERTATION: Criminal Defendants' Perceptions of Working Alliance, Trust, Procedural Fairness, and Satisfaction in Attorney-Client Pretrial Consultations: A Comparison of Video-conferencing and In-person Modalities
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DISSERTATION: Women's Sexual Functioning: The Role of Self-Objectification, Appearance Anxiety, and Depression
MAJOR PROFESSOR: Sheila Garos

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DISSERTATION: How Do the Two Measures of Metacognitive Monitoring Accuracy Separately Affect the Efficacy of Control of Study Decisions?

MAJOR PROFESSOR: Michael Serra

KATIE RACHELLE SMITH

DISSERTATION: A Dynamical Look at Nonconscious Behavioral Mimicry Patterns: Self-Monitoring as a Moderator of Dyadic Behaviors

MAJOR PROFESSOR: Darcy Reich

SPANISH

MARIA CARMEN ARCINIEGA

DISSERTATION: “Dócil Rebedlía”: las mujeres exiliadas de Silvia Molina

MAJOR PROFESSOR: Jorge Zamora

SABRINA SAOUSSEN LAROUSHI

DISSERTATION: Sicarios, putas y religión: lo grotesco en la *narconovela* colombiana

MAJOR PROFESSOR: George Cole

SPECIAL EDUCATION

PHOEBE AOKO OKUNGU

DISSERTATION: Accommodation Needs for Teachers Who are Blind and Teach Students with Visual Impairments

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DISSERTATION: Qualitative Investigation of the Experience of Quality of Life for Young Adults Who Are Blind

MAJOR PROFESSOR: Rona Pogruind

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DISSERTATION: Scalable Systems Engineering Ontology for Small and Medium Enterprise (SME) Research Organizations

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DISSERTATION: Mapping Disruption and Contradiction in a Thirdspace Work Environment: Applications for Technical Communication

MAJOR PROFESSOR: Rich Rice

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DISSERTATION: The Role of Attitudes in Assessing the Feasibility of Teaching Technical Communication: A Study of Students, Faculty, and Administrators in a Northwest Chinese University

MAJOR PROFESSOR: Sam Dragga

WILDLIFE, AQUATIC, AND WILDLANDS SCIENCE AND MANAGEMENT

PETER EDWARD SCHLICHTING

DISSERTATION: Wild Pig Ecology in West Texas

MAJOR PROFESSOR: Brad Dabbert

WIND SCIENCE AND ENGINEERING

KUANGMIN GONG

DISSERTATION: Probabilistic Extreme Response Analysis of Large Wind Turbines to Natural Winds

MAJOR PROFESSOR: Xinzhong Chen

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DISSERTATION: Impacts, Assessments, and Responses: Interdisciplinary Perspectives on Tornadoes

MAJOR PROFESSOR: Daan Liang

ZOOLOGY

LIZETTE KARLA SILES MENDOZA

DISSERTATION: Phylogeographic Structure, Diversity, and Systematics in the Genus *Micronycteris* (Chiroptera: Phyllostomidae)

MAJOR PROFESSOR: Robert Baker

MASTER OF AGRIBUSINESS

GARRISON EDWARD WILLIAMS

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MATTHEW TAYLOR BUKIN (In absentia)

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ANALaura ALMEIDA**BRIAN ANTHONY AVALOS****JORDAN AVERY BATES** (In absentia)**GEOFFREY PEARSON BROWN****MATTHEW TARVER HILL** (In absentia)**AMANDA JANE HUGHES-KING****KYUNG YEON KIM****JOHN LLOYD LAURENCE****JENNIFER LYNN LOPEZ** (In absentia)**LUIS MARTIN MEDINA HINOJOS****PAOLA MARIANA MENDOZA****JOSEPH A. MIHOIN II****VALERIA SIERRA****CECILIA MARJORIE STEWART****COLLIN THOMAS ZALESAK**

MASTER OF ARTS

ANTHROPOLOGY

JACOB RAY EDWARDS (In absentia)

THESIS: Within Reach: The Excavation of Intact Historical Water Wells

APPLIED LINGUISTICS

MHD HASAN AL MEKDASH

ECONOMICS

IBRAHIM OZAYTURK (In absentia)

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INTERDISCIPLINARY STUDIES

SEAN CHRISTOPHER BERRY**MARCUS R. GOMEZ****CHARLES MAIS****JANI SUE MANRING****SCIPIO REGENAL SHOLARS II****KATHY LYNN WHEELER**

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PSYCHOLOGY

JENNY CHONG (In absentia)**KAREN ELIZABETH GRABOWSKI** (In absentia)

THESIS: Positive Metacognitive Beliefs about Rumination and Alcohol Use in College Students

JESSICA MARIE HOFFMANN (In absentia)

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Autobiography in Tom Stoppard's Works

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SIHUI ZHANG
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LARA D. HOLBERT
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AARON ROARK ROGERS
MICHELLE DAWN SEDBERRY
THESIS: Creating Future Engineers through
Elementary Engineering Professional
Development
SCOTT SHEFFIELD SIMON

EDUCATIONAL PSYCHOLOGY

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XIAOYA LIU
LAUREN SUE McDONALD
AVERY DANIELLE MILLER (In absentia)
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MASTER OF MUSIC

ROBIN AYAX ALDANA CENTENO
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 THESIS: Carrying on the Tradition: A Performance Practice Analysis of Stylistic Evolution in Texas Contest Style Fiddling
 JOHN CURTIS JONES (In absentia)

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MARLA LAURIE ANN COLGROVE WILLIAMS
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ROBERT LEON STEELE

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 THESIS: Perceptions of Online Swine Auction Websites: A Qualitative Study
 MAKENNA R. LANGE (In absentia)
 THESIS: Faith, Family and Ducks: A Content Analysis of *Duck Dynasty*

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 THESIS: Influence of Gender on Career and Family Balance of Texas Agricultural Science Teachers
 LINDSAY GRACE ORNBAUN
 THESIS: Factors Affecting School Connectedness among Agricultural Education Students in Colusa County, California
 JOSHUA LOGAN STEWART
 THESIS: Teacher Efficacy and the Perceived Importance of Record Keeping Skills in Agricultural Education Programs

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 NATHAN WILSON POND
 THESIS: Reduction of Fecal Shedding of Shiga-toxin Producing *Escherichia coli* (STEC) in Cattle Fed a *Lactobacillus acidophilus* NP51 Based Direct-Fed Microbial and the Use of *L. acidophilus* NP51 to Reduce STECs and *Salmonella* in Soil and Manure from the Feedlot Environment
 ALEX THOMPSON
 THESIS: Interaction of Various Inclusion Levels of Dietary Vitamin D₂ Enriched Yeast Cell Wall with Zilpaterol Hydrochloride on Performance and Post-Mortem Tenderness in Feedlot Steers

APPLIED PHYSICS
 MDHAOUI ALI ALHUSAIN (In absentia)
 THESIS: Fourier Plane Microscope for Imaging Plasmonic Crystals with Periods beyond the Diffraction Limit

ARCHITECTURE-POST PROFESSIONAL
 MAJED MUBARAK S. ALQUIMI (In absentia)
 THESIS: New Techniques to Use Date Palm Fronds in Architectural and Product Design Applications

ARID LAND STUDIES
 TABEA MALINOWSKI (In absentia)
 THESIS: Presence of Potential Predators and Thermal Environments of Texas Horned Lizards (*Phrynosoma cornutum*)

ATMOSPHERIC SCIENCE
 PAUL FRANCIS PROSOSKI (In absentia)
 THESIS: Radar Observations and Analysis of Misocyclones along Spring 2012 West Texas Dry Lines

BIOLOGY
 CHRISTIAN PRABHAT BEZBORUAH
 THESIS: Genomic Targets Regulated by AGO4 Explored through Analysis of Distinct AGO4 Mutants
 SARAH ANN CANDLER
 THESIS: To Eat or Not to Eat? Behavioral Responses to Novelty and Aposematic Signals

BIOTECHNOLOGY
 EDA BAYKAL-CAGLAR
 THESIS: Effect of Chain Length of Hybrid Lipids on Line Tension in Phase-Separated Giant Unilamellar Vesicles
 EDWARD JOHN KUENZI

BUSINESS ADMINISTRATION
 BETHANY CHRISTINE DAVILA

CHEMISTRY
 JOSEPH AHMED KABRANE (In absentia)
 THESIS: Theoretical Investigation of Hydrogen Bonding and Ion Pair Formation in Nafion Membrane Models
 GARDIYAWASAM PUNCHI HEWAGE SANDUN KALPANA (In absentia)
 THESIS: Molecular Characterization of Iron Signaling Pathway by Plant Growth Promoting Rhizobacteria GB03
 SIQI LIN (In absentia)
 THESIS: Application of *N*-Phosphonyl Auxiliaries in Aminohalogenation Reactions and Peptide Synthesis
 ANG ZUO (In absentia)
 THESIS: Progress towards a New Guanidine Naphthalene

ENVIRONMENTAL DESIGN
 IMAN ABDULBASIT BOKHARI

EXERCISE AND SPORT SCIENCES
 KEMBRA DAWN ALBRACHT (In absentia)
 THESIS: Effects of Emotional Exposure on State Anxiety and Physiological Measures of Stress Reactivity after an Acute YogaFit Session
 MARIA ESPERANZA RATON BREGENDAHL
 THESIS: Will Manipulation of Efficacy Alter Functional Motor Performance in Older Women?
 VALERIE JEAN CHRISTIE (In absentia)
 JESSICA RENAE DILLEY
 AMBER MICHELLE JOYCE
 JEFFREY CHARLES MacLEOD
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 Thesis: A Legal Examination of the NCAA's Policies Regarding Athletes' Rights to Legal Representation

FAMILY AND CONSUMER SCIENCES EDUCATION
 SHELLIANN BARNUM
 THESIS: The Value of Family and Consumer Sciences Programs in the Public School Curriculum: A Local District-wide Research Project
 ALISHA HOPE HALL

FORENSIC SCIENCE
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 HEATHER DEANNE JACKSON (In absentia)

GEOSCIENCES
 CORY HARDING CHRISTIE
 THESIS: Possible Causes for the Variation of Geothermal Gradients across the Northern Continental Shelf of the Gulf of Mexico
 ASHLEY K. SAELENS
 THESIS: Conodont Biostratigraphy of the Red House Formation (Middle Pennsylvanian), South-Central New Mexico
 AARON JOSEPH WATERS
 THESIS: Middle Pennsylvanian Paleogeographic and Basin Analysis of the Taos Trough, Northern New Mexico

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THESIS: Influence of Variable Irrigation Regime and Salinity on Gas Exchange and Growth of *Olea europaea* L.

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THESIS: An Exploratory Study of the Genesis and Development of Self-Concept across Racial/Ethnic Groups

CARY REBECCA OLDHAM

THESIS: The Relative Timing of Sex, Love, and Commitment: Testing Sexual Script Theory among Newlywed Couples

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THESIS: Perceptions of Friendship among Children with High-Functioning Autism and Typically Developing Children

INTERDISCIPLINARY STUDIES

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MATTHEW BAKER MILLER (In absentia)

THESIS: Ergosterol Biosynthesis in Green Algae and its Phylogenetic Implications

MANAGEMENT INFORMATION SYSTEMS

REESHA LASITHA SANTHOSH

RAJA SEKHA REDDY METTU

MARRIAGE AND FAMILY THERAPY

LUKE S. EINERSON (In absentia)

LINDSAY PAIGE HUFFHINES (In absentia)

THESIS: A Short Form of the Trauma Symptom Checklist for Children

MATHEMATICS

MARY PEARL HEBERT (In absentia)

THESIS: Plant-Vector-Virus Models with Vector Aggregation Applied to Cassava Mosaic Virus

MICROBIOLOGY

SANKALYA SWARNAMALI AMBAGASPITIYA

AMBAGASPITIYE GEDARA

THESIS: Studies on Beta-Lactamase Production in *Aeromonas* Species

POLRIT VIRAVATHANA

THESIS: Expression and Characterization of a Kinase from Chilo Iridescent Virus

LINDSEY CHRISTINA WILBURN (In absentia)

NUTRITIONAL SCIENCES

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LISA CAY CHENEY

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THESIS: Follow-up Effects of JUMP2HEALTH—A Web-Based Nutrition Education Approach for Parents of Preschool Children

PERSONAL FINANCIAL PLANNING

THOMAS ARTHUR DUFFANY III (In absentia)

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PHYSICS

OMAR HAMMAD H. ALSALMI

THESIS: Phase Stability of XZn (X=Cu, Ag, and Au) B2 Phase Alloys

PLANT AND SOIL SCIENCE

CAMERON TRENT OLIVER (In absentia)

THESIS: Comparison of Yield and Boll Distribution Under Three Water Treatments of Some Cotton Cultivars Developed from 1986-2012

TRAVIS WILSON WITT

THESIS: Performance of Five Castor (*Ricinus communis* L.) Genotypes in Geographically Diverse Environments of North America

YEDAN XIONG

THESIS: Digital Image Analysis of Old World Bluestem Canopy Cover and Leaf Area

STATISTICS

XIAO FENG (In absentia)

JOSHUA DAVID GUENTHER (In absentia)

THESIS: Reliability of a Continuous System under Linearly Decreasing Stress

ZINIYU YU (In absentia)

BO ZHANG

WILDLIFE, AQUATIC, AND WILDLANDS

SCIENCE AND MANAGEMENT

THOMAS L WARREN (In absentia)

THESIS: Northern Bobwhite Habitat Response to the East Amarillo Complex Wildlife

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KARIN SHERRILL DERBY

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KATHERINE ELIZABETH PETERS

ELIZANDRA TORRES (In absentia)

MAURA ALICIA WHITE

MASTER OF SCIENCE IN CHEMICAL ENGINEERING

ROZANA BARI

THESIS: Exfoliation and Characterization of 2D Layered Nanomaterials

ALEJANDRO GONZALEZ FLORES

THESIS: Extremum Seeking Control Applied to a Semi-Batch Reaction Operation

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MASTER OF SCIENCE IN CIVIL ENGINEERING

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THESIS: Modeling of Saturated Thickness of the Ogallala Aquifer in Texas

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THESIS: Modeling Stream-Aquifer Interaction in Fountain Creek Watershed, Colorado

MASTER OF SCIENCE IN COMPUTER SCIENCE

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THESIS: Proximity Based Dynamic Hierarchical Clustering of High Dimensional Data for Efficient Searching

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THESIS: Examination of Data, Rule Generation, and Detection of Phishing URLs Using Online Logistic Regression

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NAMRATHA KATUKOORI

RICHARD WESTON MAULDIN

SARAH RAINGE

THESIS: Using Reinforcement Learning to Learn Causal Laws in Dynamic Domains

AMANDA MICHELLE VIDETICH

THESIS: A Limited Grounding Approach for Solving Answer Set Programs

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JOHN PETER FENSKE (In absentia)

THESIS: Quality Measures for Lightfield Interpolation Algorithms

SHIVKUMAR CHANNAPPA GOURSHETTY

THESIS: Near-Infrared Imaging of Single- and Double-Sided Vanadium Dioxide Thin Films Using Pump-Probe Technique

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JASON MICHAEL MEEKS

MASTER OF SCIENCE IN MECHANICAL ENGINEERING

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THESIS: Organic Composite Materials for Structural Components

RICHA SOMKANT PADHYE

THESIS: Impact of Solvents on the Synthesis and Combustion of Aluminum and Poly Tetra Fluoro Ethylene

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THESIS: Characterization of Powder Composite Energetic Materials Containing Nanofillers for Electrostatic Safety

**MASTER OF SCIENCE
IN PETROLEUM ENGINEERING**

JASEM MOHAMMED A ALSHABEEB

THESIS: Asphaltene Floc Size as a Function of
N₂ and CO₂ Concentration in Black Oil

AHMED MOUSTAFA ABDELRAHMAN ALZAHABI

(In absentia)

JUNYI BIAN (In absentia)

VIVEK VERGHESE CHERUVATHOOR

MOHAMMAD AMIRUL HOSSAIN

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ALI REZAEI

THESIS: Numerical Development of a Fully
Coupled Non-Planar Hydraulic Fracture
Simulator

**MASTER OF SCIENCE
IN SOFTWARE ENGINEERING**

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CARSON DAVID SUBLETT
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MAURA ALICIA WHITE
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DERREK WAYNE CHINNOCK

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ANDREW C. McCURDY²

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2nd Major: Business Economics
ANDREW BRIAN ELEY
2nd Major: Accounting
SEAN DEVIN MAHONEY
BENJAMIN S. RAHMAN⁴

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JOSHUA TODD CAGLE
TYFANY D. CHANEY³
TYLER SAUNDERS GARRETT
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JARED B. KOHNLE
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KATHERINE L. UPDYKE
ARMANDO VILLARREAL
2nd Major: Marketing
DARYL A. WOODALL

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CALEB K. ANDREWS
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ROBERT CAMERON BOOTHE
2nd Major: Marketing
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College of Education

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College of Engineering**

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RUAL PORRAS

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SEAN PHILIP BERRY
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TEXAS TECH UNIVERSITY
Honors College™

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ENVIRONMENT AND THE HUMANITIES

SHELBY THIBODEAUX^{3,4}
2nd Major: French



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JARED NEVEN

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TEXAS TECH UNIVERSITY

College of Media & Communication

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ELIZABETH DANIELLE JOHNSON
ALINA KEOHAVONG
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McKENZIE MADONNA RUSSELL
TRACI ANN THERIAULT
KYNDALL LYNN WALSDORF

ELECTRONIC MEDIA AND COMMUNICATIONS

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ELIASER TORREZ FIERRO
TRACY BETH FONDREN
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EVERETT LAURENCE JORDAN
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NATASHA MARIE PARKER

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CYBELE ELIZABETH BARTON
EVAN GEORGE DIXON
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STAN-LEE COLE HEATH³
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BRONTÉ BRECHON MAJOR
CAROLINE NICOLE MARSICO
TAYLOR MICHELLE PEACE
JUSTIN MICHAEL RAMON
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SHELBY LAYNE SCHWEITZER
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University Programs

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SEAN ALTON DONAHUE
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JOSHUA TAYLOR FIKES
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LELAND JAMES GUPTON
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THOMAS HAUGHTON HATCH
JEFFREY KYLE HAUSSLER
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KEATON ALEXANDER MUXWORTHY
ZACHARY STEVEN NORWOOD
CAITLIN MICHELLE PAVEY
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ALEXIS JEANNINE FLEMING
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VICENTE LUIS SALINAS²
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TEXAS TECH UNIVERSITY

College of Visual & Performing Arts™

BACHELOR OF ARTS

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JONATHAN MAXWELL WEAVER

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ART

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MARISSA ANNIKA MATTHIES
2nd: General Studies
CAROL THOMAS MAZHUVANCHERIL
COLLEEN ROSE O'BRIEN
NEIL F. SINCLAIR

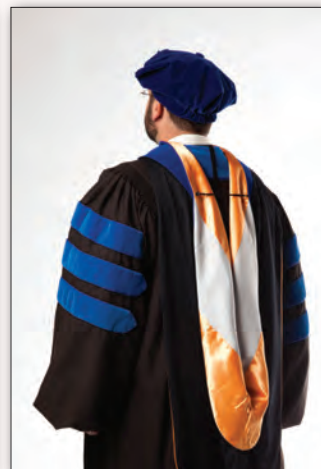
THEATRE ARTS

LAUREN ASHLEY MANGUM

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



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



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

Wearing academic dress at commencement ceremonies dates from the early history of the oldest universities 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 re-

ceived 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 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 you to order a Texas Tech Commencement DVD to commemorate your achievement. The \$45 purchase also will include a one-year Texas Tech Alumni Association gift membership. This membership will help you stay connected to Texas Tech. To reserve your copy of today's ceremony, complete and mail an order form, located at one of the tables in each corner of the concourse. Do not leave the forms on the tables. Please mail them to the address on the form. To learn more about the Alumni Association, visit www.TexasTechAlumni.org or call 806.742.3641.

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 blue-violet background color of the **College of Architecture** is the color established by the Intercollegiate Code to designate this academic area and is also seen in the velvet border of Architecture master's and doctoral hoods and doctoral gowns. The Ionic column symbol set in a red circle references the traditions

of classical architecture. The banner was designed by Bill Felty, a retired Associate Dean for the College of Architecture.

The blue background color of the **College of Education** banner reflects the light blue color designated for education by the Intercollegiate Code and is also seen in the velvet border of education master's and doctoral hoods and doctoral gowns. The upper area of the banner carries a school building encircled by the words "College of Education" and "Scholarship, Leadership, Service" to represent the primary roles of the college as a unit dedicated to preparing

teachers and furthering 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 created in 2000 by Randal Lacy, a technician in the Office of the Dean. The red and black colors appropriately represent the largest and most diverse college in the university. The college logo depicts the college initials in a sweeping, modernistic monogram. The Texas Tech seal is centered at the lower point of the banner.

The **Graduate School** banner is blue. Imposed on this background is a white circle within a light blue one. These circles contain the image of a golden open book and a burning lamp. The open book symbolizes knowledge and the lamp represents a light by which to study. The Graduate School banner was designed by the late Associate Dean Thomas

Langford and Ms. 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 Prof. Duane Hill, Associate Director of Bands and Director of the Goin' Band from Raiderland. Their participation is funded through the auspices of the Office of the President, Texas Tech University.
- TTUHC Printing Center 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; Cheryl Hedlund, Senior Editor.

PHOTO CREDITS

Neal Hinkle (pp. 4, 5, 7), Student Media (p. 7)

This program is an unofficial list of August 2014 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.



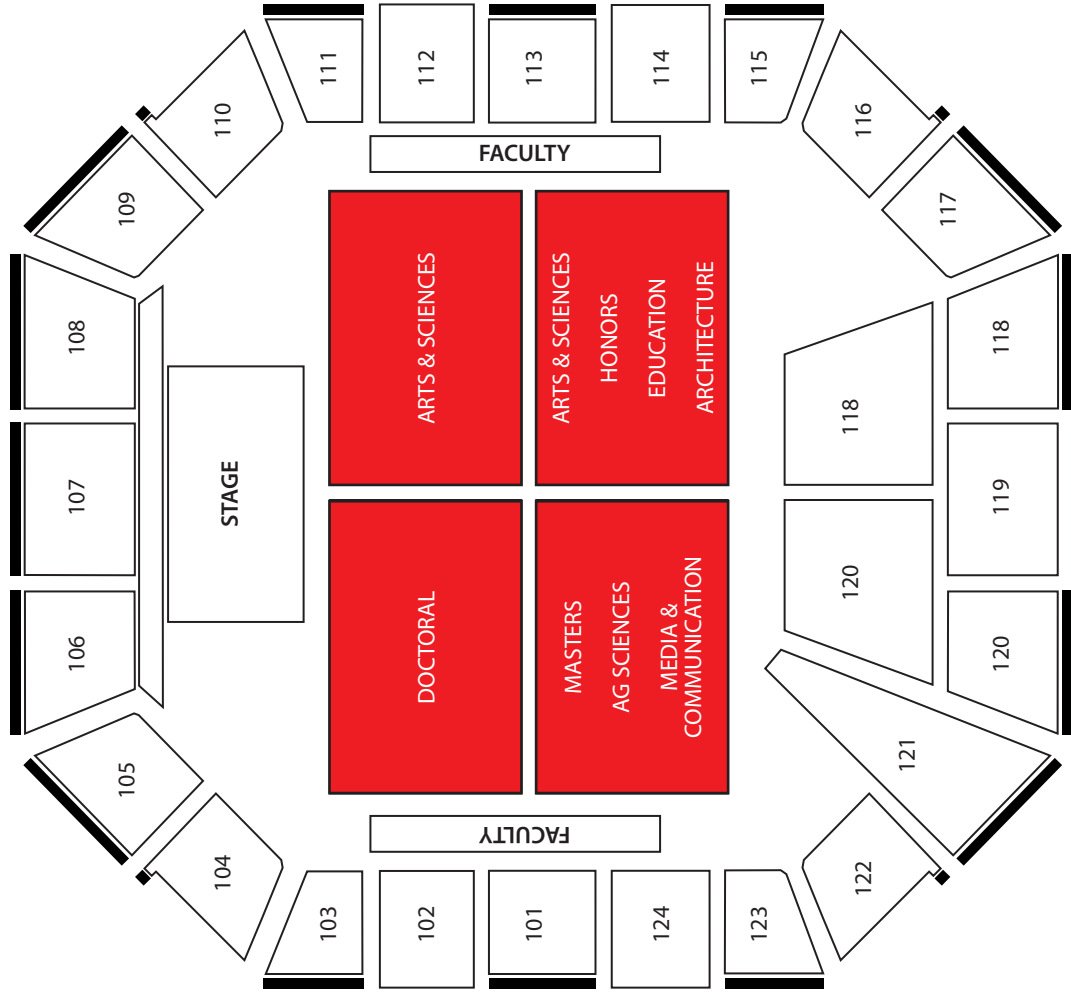
The Texas Tech Class Ring

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)



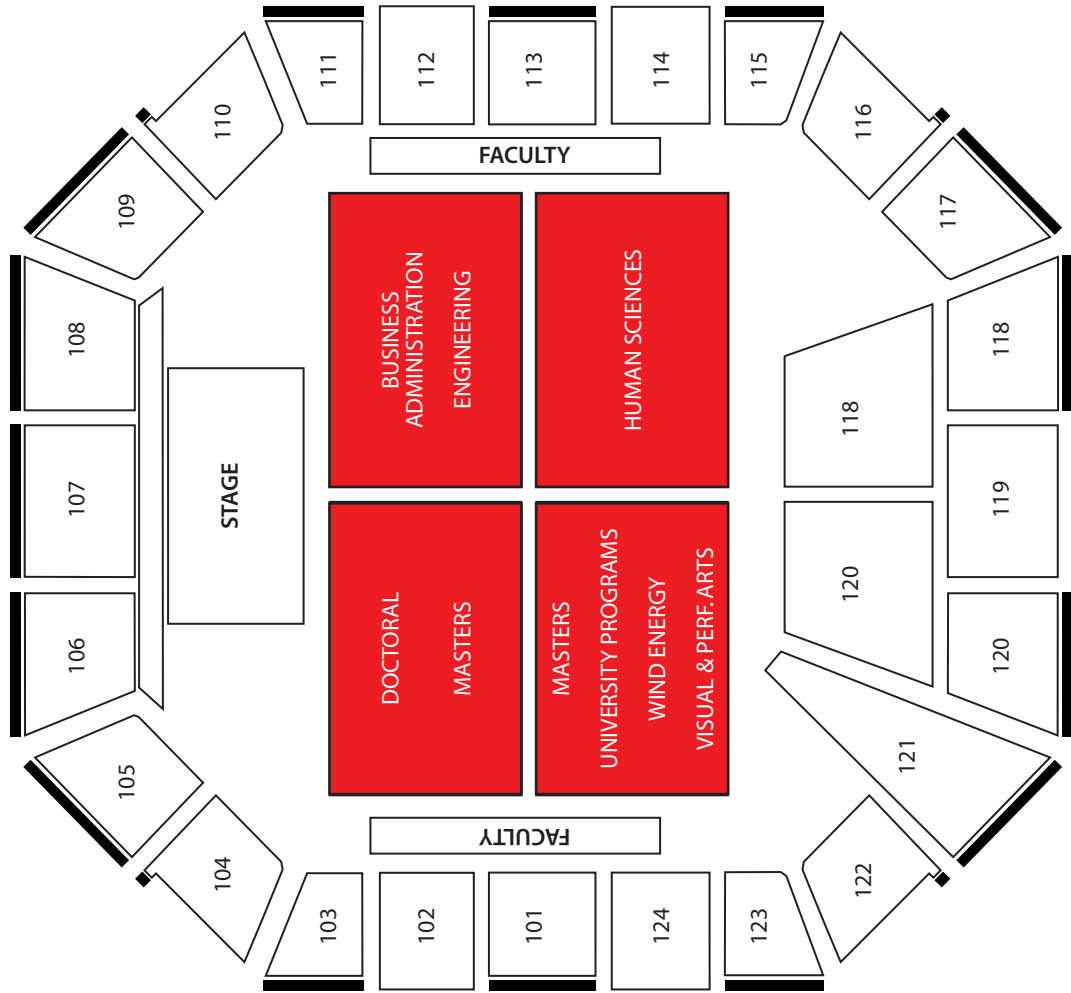
SATURDAY, August 9, 2014

9 A.M.



SATURDAY, August 9, 2014

1:30 P.M.



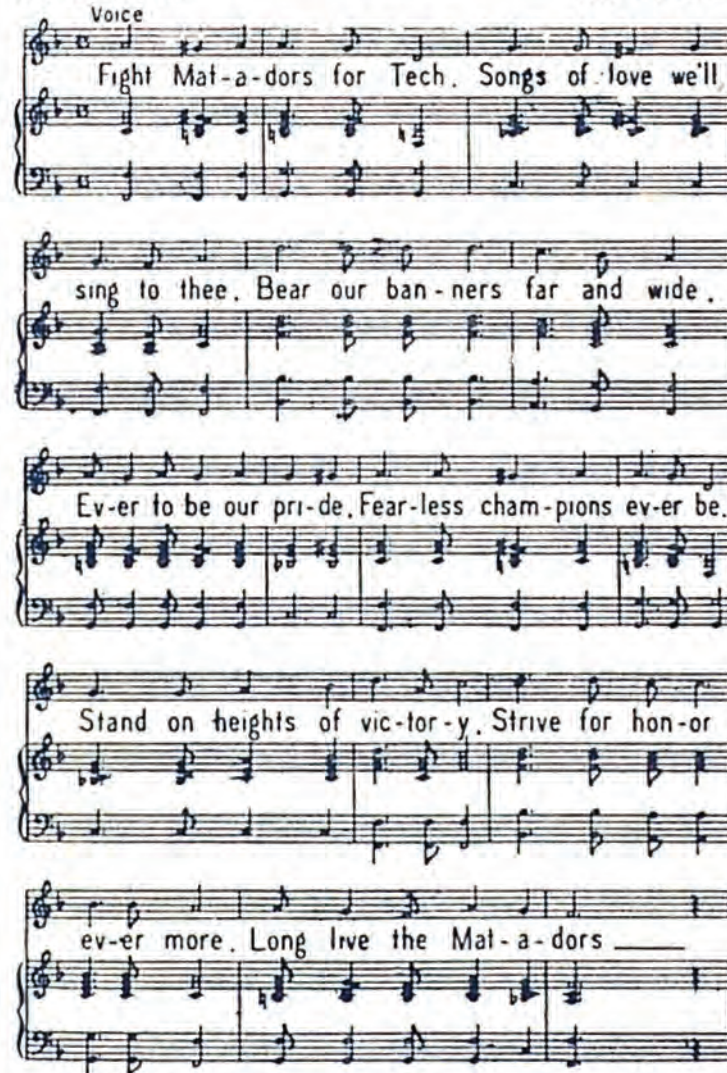
WORDS BY
R. C. MARSHALL
STUDENT 1930
TEXAS TECH COLLEGE

MATADORS

MUSIC BY
HARRY LEMAIRE
BANDMASTER
TEXAS TECH COLLEGE

VOICE

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

The image shows a musical score for the song "Matadors". It consists of a voice line and a piano accompaniment. The voice line is written on a single staff with a treble clef and a key signature of one sharp (F#). The piano accompaniment is written on two staves, treble and bass, with a key signature of one sharp. The lyrics are written below the voice line. The score is divided into five systems, each with a voice line and piano accompaniment. The lyrics are: "Fight Mat-a-dors for Tech. Songs of love we'll sing to thee. Bear our ban-ners far and wide. Ev-er to be our pri-de. Fear-less cham-pions ev-er be. Stand on heights of vic-tor-y. Strive for hon-or ev-er more. Long live the Mat-a-dors —".

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.



C O N G R A T U L A T I O N S

August 2014 Graduates