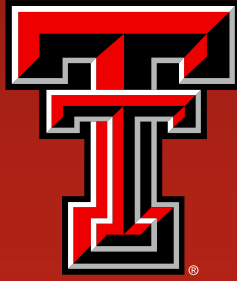




FALL 2016 COMMENCEMENT

December 16-17 | Lubbock, Texas





TEXAS TECH UNIVERSITY®

COMMENCEMENT
FALL 2016

Friday, December 16, 2016
Saturday, December 17, 2016
UNITED SUPERMARKETS ARENA

3:00 p.m. and 7:00 p.m.
9:00 a.m. and 1:30 p.m.
LUBBOCK, TEXAS

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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

LAWRENCE E. SCHOVANEC, Ph.D.

*President;
Professor of Mathematics and Statistics*

MICHAEL L. GALYEAN, Ph.D.

*Interim Provost and Senior Vice President;
Horn Professor; Thornton Chair in Animal and Food Sciences*

NOEL SLOAN, J.D., CPA

*Vice President for Administration and Finance;
Chief Financial Officer*

GUY LONERAGAN, Ph.D.

*Interim Vice President for Research;
Professor of Animal and Food Sciences*

JUAN S. MUÑOZ, Ph.D.

*Senior Vice President for Institutional
Diversity, Equity, and Community Engagement;
Vice Provost for Undergraduate
Education and Student Affairs;
Professor of Curriculum and Instruction*

TEXAS TECH UNIVERSITY SYSTEM CHANCELLOR / BOARD OF REGENTS

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*Chancellor,
Texas Tech University System
Professor of Law*

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Abilene, Texas

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Midland, Texas*

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Lubbock, Texas

MRS. DEBBIE MONTFORD

*Vice Chairwoman
San Antonio, Texas*

MR. RONNIE HAMMONDS

Houston, Texas

MR. JEREMY STEWART

Arlington, Texas

ACADEMIC OFFICERS

MARK SHERIDAN, Ph.D.

*Vice Provost for Graduate and
Postdoctoral Affairs;
Dean, Graduate School;
Professor of Biology*

W. BRENT LINDQUIST, Ph.D.

*Dean, College of Arts & Sciences;
Professor of Mathematics*

LINDA C. HOOVER, Ph.D.

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

DARBY DICKERSON, J.D.

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

PAUL R. GOEBEL, Ph.D.
*Interim Dean, Jerry S. Rawls College of Business;
Professor of Business Administration*

SCOTT RIDLEY, Ph.D.

*Dean, College of Education;
Professor of Education*

DAVID D. PERLMUTTER, Ph.D.

*Dean, College of Media & Communication;
Professor of Journalism and
Electronic Media/Public Relations*

STEVE FRAZE, Ph.D.

*Interim Dean, College of Agricultural Sciences
& Natural Resources; Professor,
Agricultural Education and Communications*

AL SACCO, JR., Ph.D.

*Dean, Edward E. Whitacre Jr.
College of Engineering;
Professor of Chemical Engineering*

NOEL ZAHLER, D.M.A.

*Dean, J.T. and Margaret Talkington
College of Visual and Performing Arts;
Professor of Music*

JIM WILLIAMSON, M.Arch.

*Dean and Professor,
College of Architecture*

MICHAEL SAN FRANCISCO, Ph.D.

*Dean, Honors College;
Professor of Biology*

BELLA KARR GERLICH, Ph.D.

Professor and Dean of Libraries

ABOUT TEXAS TECH UNIVERSITY

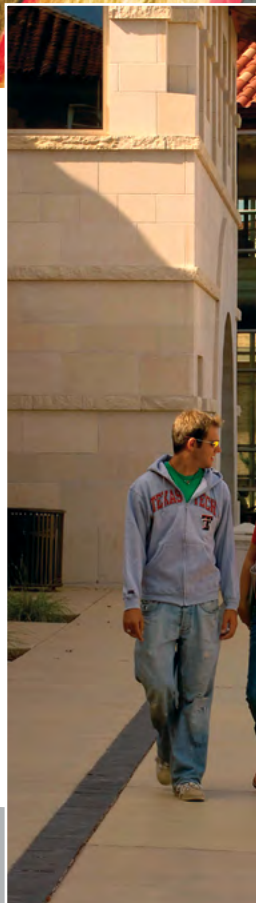
FROM ITS VERY BEGINNING the Texas Tech University community has had a sense of destiny and an awareness of the impact it could and would have on Texas and the wider world. Originally named Texas Technological College, Texas Tech opened in 1925 with six buildings, four schools (Agriculture, Engineering,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

Today, Texas Tech continues to thrive, with more than 36,000 students enrolled in its 11 colleges: Agricultural Sciences and Natural Resources, Architecture, Arts and Sciences, Jerry S. Rawls College of Business, Education, Edward E. Whitacre Jr. College of Engineering, Honors College, Human Sciences, Media and Communication, J.T. and Margaret Talkington College of Visual and Performing Arts, and the Graduate School, as well as University Programs via the Provost's Office. The institution's goal is to enroll 40,000 students by 2020.

Because of its educational scope and purpose, as well as the size of the region it serves, Texas Tech University operates in numerous Texas locations beyond the Lubbock campus. In all, the Texas Tech University System—which includes Texas Tech University, Angelo State University, Texas Tech University Health Sciences Center, and Texas Tech University Health Sciences Center at El Paso—has more than 44,000 students enrolled.









SINCE TEXAS TECH'S FIRST graduation ceremony in the spring of 1927, more than 200,000 undergraduate and graduate degrees have been awarded by the university. From these proud graduates have emerged captains of industry, world-renowned surgeons, noted authors, famous singers, acclaimed teachers and professors, attorneys, entrepreneurs, agronomists, scientists, professional athletes, and countless others who have claimed positions of service and responsibility in a rapidly changing world.

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

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

From here, it's possible.



COMMENCEMENT CEREMONY

Friday, December 16, 2016

3:00 p.m.

Presiding	Dr. Lawrence Schovanec <i>President, Texas Tech University</i>
Processional*	Texas Tech Commencement Band <i>Dr. Sarah McKoin, Conductor</i>
National Anthem	Ms. Aimee Michelle Foster <i>Graduating with a Bachelor of Music</i>
Welcoming Remarks	Mr. Tim Lancaster <i>Board of Regents, Texas Tech University System</i>
Chancellor's Remarks	Mr. Robert Duncan <i>Chancellor, Texas Tech University System</i>
Introduction of Commencement Speaker	Dr. Lawrence Schovanec
Commencement Address	Mr. John T. Montford, J.D. <i>President and CEO, JTM Consulting, LLC</i> <i>First Chancellor, Texas Tech University System</i>
Presentation of Doctor of Humanities, <i>Honoris Causa</i> to Mr. C. Carey Hobbs	Dr. Lawrence Schovanec
Conferring of Degrees	Dr. Lawrence Schovanec Dr. Michael Galyean <i>Interim Provost and Senior Vice President</i>
Presentation of Bachelor's Degree Candidates	Dr. W. Brent Lindquist <i>Dean, College of Arts and Sciences</i>
Recognition of Outstanding Students Class of 2016	Dr. Michael Galyean
Charge to the Graduates	Dr. Lawrence Schovanec
Alma Mater <i>(Words on Back Cover)</i>	Ms. Aimee Michelle Foster
Recessional*	Texas Tech Commencement Band

** Please remain seated during the Processional and Recessional*

COMMENCEMENT CEREMONY

Friday, December 16, 2016

7:00 p.m.

Presiding	Dr. Lawrence Schovanec <i>President, Texas Tech University</i>
Processional*	Texas Tech Commencement Band <i>Dr. Sarah McKoin, Conductor</i>
National Anthem	Ms. Michaela Celeste Hardin <i>Graduating with a Bachelor of Music</i>
Welcoming Remarks	Mr. John Esparza <i>Board of Regents, Texas Tech University System</i>
Chancellor's Remarks	Mr. Robert Duncan <i>Chancellor, Texas Tech University System</i>
Introduction of Commencement Speaker	Dr. Lawrence Schovanec
Commencement Address	Mr. John T. Montford, J.D. <i>President and CEO, JTM Consulting, LLC</i> <i>First Chancellor, Texas Tech University System</i>
Conferring of Degrees	Dr. Lawrence Schovanec Dr. Michael Galyean <i>Interim Provost and Senior Vice President</i>
Presentation of Doctoral and Master's Degree Candidates	Dr. Mark A. Sheridan <i>Vice Provost for Graduate and Postdoctoral Affairs;</i> <i>Dean, Graduate School</i>
Recognition of Outstanding Students Class of 2016	Dr. Michael L. Galyean
Charge to the Graduates	Dr. Lawrence Schovanec
Alma Mater <i>(Words on Back Cover)</i>	Ms. Michaela Celeste Hardin
Recessional*	Texas Tech Commencement Band

** Please remain seated during the Processional and Recessional*

COMMENCEMENT CEREMONY

Saturday, December 17, 2016

9:00 a.m.

Presiding	Dr. Lawrence Schovanec <i>President, Texas Tech University</i>
Processional*	Texas Tech Commencement Band <i>Dr. Sarah McKoin, Conductor</i>
National Anthem	Ms. Michaela Celeste Hardin <i>Graduating with a Bachelor of Music</i>
Welcoming Remarks	Mr. Tim Lancaster <i>Board of Regents, Texas Tech University System</i>
Chancellor's Remarks	Mr. Robert Duncan <i>Chancellor, Texas Tech University System</i>
Introduction of Commencement Speaker	Dr. Lawrence Schovanec
Commencement Address	Mr. John T. Montford, J.D. <i>President and CEO, JTM Consulting, LLC</i> <i>First Chancellor, Texas Tech University System</i>
Conferring of Degrees	Dr. Lawrence Schovanec
Presentation of Bachelor's Degree Candidates	Dr. Al Sacco, Jr. <i>Dean, Edward E. Whitacre Jr. College of Engineering</i> Dr. Noel Zahler <i>Dean, J.T. and Margaret Talkington College of Visual and Performing Arts</i> Dr. Linda C. Hoover <i>Dean, College of Human Sciences</i> Mr. Jim Williamson <i>Dean, College of Architecture</i> Dr. Scott Ridley <i>Dean, College of Education</i>
Recognition of Outstanding Students Class of 2016	Dr. Michael Galyean
Charge to the Graduates	Dr. Lawrence Schovanec
Alma Mater (Words on Back Cover)	Ms. Aimee Michelle Foster <i>Graduating with a Bachelor of Music</i>
Recessional*	Texas Tech Commencement Band

** Please remain seated during the Processional and Recessional*

COMMENCEMENT CEREMONY

Saturday, December 17, 2016
1:30 p.m.

Presiding	Dr. Lawrence Schovanec <i>President, Texas Tech University</i>
Processional*	Texas Tech Commencement Band <i>Dr. Sarah McKoin, Conductor</i>
National Anthem	Ms. Roxanne Gabrielle Martinez <i>Graduating with a Bachelor of Music</i>
Welcoming Remarks	Mrs. Debbie Montford, Vice Chairwoman <i>Board of Regents, Texas Tech University System</i>
Chancellor's Remarks	Mr. Robert Duncan <i>Chancellor, Texas Tech University System</i>
Introduction of Commencement Speaker	Dr. Lawrence Schovanec
Commencement Address	Mr. John T. Montford, J.D. <i>President and CEO, JTM Consulting, LLC</i> <i>First Chancellor, Texas Tech University System</i>
Conferring of Degrees	Dr. Lawrence Schovanec Dr. Michael Galyean <i>Interim Provost and Senior Vice President</i>
Presentation of Bachelor's Degree Candidates	Dr. Paul R. Goebel <i>Interim Dean, Jerry S. Rawls College of Business</i> Dr. David Perlmutter <i>Dean, College of Media and Communication</i> Dr. Steve Frazee <i>Interim Dean, College of Agricultural Sciences and Natural Resources</i> Dr. Michael San Francisco <i>Dean, Honors College</i> Dr. Juan S. Muñoz <i>(presenting University Studies and Wind Energy degrees)</i> <i>Senior Vice President for Institutional Diversity, Equity, and</i> <i>Community Engagement; Vice Provost for Undergraduate</i> <i>Education and Student Affairs, Professor of Curriculum and Instruction</i>
Recognition of Outstanding Students Class of 2016	Dr. Michael L. Galyean
Charge to the Graduates	Dr. Lawrence Schovanec
Alma Mater <i>(Words on Back Cover)</i>	Ms. Roxanne Gabrielle Martinez
Recessional*	Texas Tech Commencement Band

** Please remain seated during the Processional and Recessional*

COMMENCEMENT SPEAKER



John Montford is president & CEO of JTM Consulting, LLC. Prior to establishing his own consulting firm, he served as senior advisor for global public policy for General Motors Company from January 1, 2010 to January 2012. At GM, he was responsible for GM public policy for federal, state, and international, as well as the GM Foundation. He was a member of the GM Executive Committee from January 1, 2010 to May 1, 2011.

Prior to joining GM, Montford served as the senior vice president of state legislative affairs for AT&T. Following the 2005 merger of SBC and AT&T, he served as president of the Western Region for AT&T, responsible for 23 states west of the Mississippi. From 2002 to 2005, he was president of external affairs for Southwestern Bell. He joined SBC, now AT&T, in September 2001.

Montford was the 2005 chairman of the Greater San Antonio Chamber of Commerce, a catalyst for economic development in San Antonio with more than 2,000 members. From 2007 through 2010, Montford was president of the

board of the National Western Art Foundation, for which he personally secured the lead gift to create the Dolph and Janey Briscoe National Western Art Museum in San Antonio. He was also chair of the advisory committee for the Texas Parks and Wildlife Department. He served as chairman of the development board of the University of Texas Health Science Center at San Antonio. He has also served as an independent director of Southwest Airlines since 2002, and as a member of the board of directors of Atlantic Aviation from 2012 to 2016. While at GM he also served as chairman of the GM Foundation Board.

Before joining SBC, Montford was Texas Tech University's first chancellor, the chief executive officer of the university system. In 2001, he was named Chancellor Emeritus of the Texas Tech University System.

Montford served as a member of the Texas Senate for 14 years. During his tenure in the Senate he served as chairman of the senate finance committee and chairman of the senate state affairs committee. *Texas Monthly* named Senator Montford among the "Top 10 Best Legislators" for five legislative sessions.

Montford was an active duty officer in the United States Marine Corps from 1968 to 1971. After his military service, he served as an elected district attorney. He received his bachelor's degree in political science and a juris doctor degree from The University of Texas at Austin.

He and his wife, Debbie, are the proud parents of three children and five grandchildren.

ACKNOWLEDGEMENTS

CONVOCATIONS COMMITTEE

Dr. Barent McCool
Ms. Laura Heinz, Chair
Mr. Ian Barba
Ms. Shelley Barba
Dr. Alan Barenberg
Mr. Jordan Bell
Dr. Shane Blum
Dr. Rhonda Boros
Mr. Thad Brock
Ms. Luciana Cavazos
Dr. Julie Chang
Dr. Fanni Coward
Dr. Mukaddes Darwish
Prof. Genevieve Durham DeCesaro
Ms. Amiee Dixon
Dr. Kristi Gaines
Dr. Courtney Gibson
Dr. Roxie Godfrey
Dr. Matt Hart
Dr. Catherine Jai
Dr. David Klein
Dr. Katie Langford
Dr. Jaime Malaga
Dr. Jonathan Marks
Mr. Gary McCrory
Ms. Sheon Montgomery
Dr. Mark Moore
Dr. Mary Murimi
Dr. Diego Pascual
Ms. Michelle Pearson
Dr. Comfort Pratt
Mr. Tom Rohrig
Prof. Matthew Schlieff, Chair-elect
Ms. Carrye Syma
Mr. Jake Syma
Dr. Anna Tacón
Dr. Marcus Tanner
Dr. Susan Tomlinson
Prof. Seth Warren-Crow
Ms. Lynn Whitfield
Ms. Heidi Winkler
Dr. Aliza Wong
Mr. Le Yang
Dr. Amani Zaier

COLLEGE READERS

Agricultural Sciences and Natural Resources –
Dr. Erica Irlbeck
Architecture – Mr. Darrick Wade
Arts and Sciences – Dr. Jorge Iber
Business – Mr. Derrick Ginter
Education – Dr. Zenaida Aguirre-Muñoz
Engineering – Mr. Derrick Ginter
Graduate School – Dr. Bill Gelber
Honors College – Dr. Erica Irlbeck
Human Sciences – Dr. Bill Gustafson
Media and Communication – Dr. Todd Chambers
University Programs – Dr. Marcus Tanner
Visual and Performing Arts – Dr. William Gelber
Wind Energy – Dr. Marcus Tanner

ADMINISTRATIVE REPRESENTATIVES

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

STUDENT BANNER BEARERS

Agricultural Sciences and Natural Resources –
Ms. Chamonix Estelle Mejia
Architecture – Ms. Nicole Glitsch Lide
Arts and Sciences –
Ms. Devin Nicole Gunstream
Business – Ms. Ashley Varqa Maveddat
Education – Ms. Roberta Jo Morales
Engineering – Mr. Thomas Taylor O'Hair
Graduate School – Ms. Ashley Marie Gonzales
Human Sciences – Ms. Susana P. Carillo
Honors College
3:00 p.m. – Ms. Jennifer Elaine May
9:00 a.m. – Ms. Catherine Helen Lundberg
1:30 p.m. – Ms. Sydney Michelle Squires
Media and Communication –
Ms. Laura Isabel Gonzales
University Programs –
Ms. Kelly Rae Meredith
Visual and Performing Arts –
Ms. Ashley Lynn Allen

FACULTY BANNER BEARERS

3:00 p.m. – Gary Stewart Elbow, Ph.D.
*Associate Professor of Geography, College of
Arts and Sciences; Associate Professor of Honors,
Honors College*
7:00 p.m. – Annie Chalex Boyle, M.M.
*Assistant Professor of Music, J.T. and Margaret Talk-
ington College of Visual and Performing Arts*
9:00 a.m. – Julie Zook, Ph.D.
*Assistant Professor of Architecture, College of
Architecture*
1:30 p.m. – Scott Burris, Ph.D.
*Interim Chairperson and Professor of Agricultural
Education and Communications, College of
Agricultural Sciences & Natural Resources*

LIBRARY BANNER BEARERS

3:00 p.m. – Mr. Ryan Litsey
9:00 a.m. – Mr. Jack Becker
1:30 p.m. – Ms. Jessie Simpson

MUSIC ENSEMBLE

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

PROGRAM

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.

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 2016 enrollment includes international students from 111 countries. It is with pride that the university displays flags from around the world to represent the many countries that comprise the Texas Tech student body.



PRESIDENTIAL MACE

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

MACE BEARERS

Graduate School Ceremony

7:00 P.M., DECEMBER 16 DAVID C. IVEY, PH.D.
*Professor of Marriage and Family Therapy
College of Human Sciences*

Undergraduate Ceremonies

3:00 P.M., DECEMBER 16 ELEANOR THERESA VON ENDE, PH.D.
*Associate Professor of Economics
College of Arts and Sciences*

9:00 A.M., DECEMBER 17 SHU WANG, PH.D.
*Assistant Professor of Nutritional Sciences
College of Human Sciences*

1:30 P.M., DECEMBER 17 ERIC E. RASMUSSEN, PH.D.
*Assistant Professor of Public Relations
College of Media and Communication*

GRADUATION HONORS

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

Ashley Lynn Allen
Amanda LaRue Calvert
Noelle Alexandra Cavalier
Bobby Mark Clift
Stephan Alexander French
Laura Isabel Gonzales
Devin Nicole Gunstream
Madison Marie Herman

Amanda Marie Huerta
Jenna Marie Jernigan
Alex Chase Johnston
Cody Tyler Karp
Ashley Varqa Maveddat
Chamonix Estelle Mejia
Roberta Jo Morales

Phi Thanh Nguyen
Thomas Taylor O'Hair
Danielle Alyse Roberts
Caitlin McKenzie Scorgie
Sydney Michelle Squires
Stephanie Olivia Taylor
Alexandra Maria Trevino

CANDIDATES FOR GRADUATE DEGREES

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

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

DOCTOR OF EDUCATION

HIGHER EDUCATION

Gerard Paul Achenbach (*In absentia*)

Dissertation: Barriers that Impact the Academic Success of Military Veterans Enrolled at Federally Regulated Maritime Academies: A Collective Case Study Analysis

Major Professor: Fred Hartmeister

Tia L. Agan

Dissertation: Educator Preparation Practitioner Perceptions of Cultivating Adjunct Field Supervisors in the Four-Year University

Major Professor: Dimitra Jackson Smith

Matthew Anthony Dempsey

Dissertation: Assessing the Effect of Peer Tutoring in STEM Gatekeeper Courses with Respect to Gender and Ethnicity

Major Professor: Dimitra Jackson Smith

Dakota Jamal Doman

Dissertation: A Phenomenological Study on Historically Black Colleges' and Universities' African American Male Presidents Using Student Affairs as a Career Pathway

Major Professor: Dave Louis

Kimshi Latrice Hickman

Dissertation: The Effects of Peer-Led Team Learning on Pass Rates, Academic Performance, and Retention of Under-Represented Minority Students in STEM Courses

Major Professor: Dave Louis

Julie Covert Murphy

Dissertation: A Case Study Inquiry of Female Undergraduate Engineering Student Experiences with Collegiate Mentoring

Major Professor: Dimitra Jackson Smith

Stacy Lyn Pfluger

Dissertation: Rural-serving Community College Faculty Perceptions of the Leadership Skills Necessary for Effective Midlevel Academic Leaders

Major Professor: Stephanie J. Jones

Tomikia Lasha Pickett (*In absentia*)

Dissertation: Effects of Organization Culture and Climate on Career Aspirations and Advancement: A Collective Case Study Analysis of the Experiences and Perceptions of Women of Color in Midlevel Student Affairs

Major Professor: Stephanie J. Jones

Aaron Richard Reed

Dissertation: Exploring the Perceptions of Current Computer Science Students and Student Affairs Professionals on the Factors Influencing Student Retention and Attrition

Major Professor: Dave Louis

Joel Hernandez Robles

Dissertation: Student-veteran Perceptions of and Experiences with Veteran-specific Support Programs and Services in a Texas Community College

Major Professors: Dimitra Jackson Smith and Stephanie J. Jones

John Arthur Turner

Dissertation: Critical Incident of Campus Violence: Community College Students' Experiences and Perceptions of Its Effect on Academic Success

Major Professor: Stephanie J. Jones

Mindy Rae Watson

Dissertation: The Relationship of Course Scheduling on Community College Student Pass Rates, Persistence Rates, and Retention Rates

Major Professor: Stephanie J. Jones

INSTRUCTIONAL TECHNOLOGY

Van Thanh Thi Phan

Dissertation: Multimedia Message Design: Examining the Effects of Background Classical Music and Decorative Pictures on Retention, Comprehension, and Motivation

Major Professor: Hansel Burley

Parviz Safadel

Dissertation: Examining the Effects of Augmented Reality in Teaching and Learning Environments that Have Spatial Frameworks

Major Professor: Hansel Burley

DOCTOR OF MUSICAL ARTS

MUSIC

Yuway Chan

Dissertation: The Relationship between Graduate Pianists' Achievement Goal Orientation and Practice Behaviors

Major Professor: Carla D. Cash

Daniel Aaron Coakwell (*In absentia*)

Dissertation: The Young Singer's Guide to J.S. Bach's Evangelist Role: A Trans-generational Perspective with Acclaimed Conductors Helmuth Rilling, Masaaki Suzuki, and Craig Hella Johnson

Major Professor: Karl Dent

Ali Montazerighahjaverestani

Dissertation: Naqme-y-e Sahar (The Melody of Dawn): A Piece for Solo Violin, Woodwinds, Percussions and Strings

Major Professor: Mei-Fang Lin

Fagner Magrinelli Rocha

Dissertation: An Analysis of Violin Sound Spectra with Different Shoulder Rests

Major Professor: Anne Chalex Boyle

DOCTOR OF PHILOSOPHY

AGRICULTURAL COMMUNICATIONS AND EDUCATION

Missi Miquela Currier

Dissertation: Examination of Factors that Influence Student and Supervisor Perceptions of Congressional Internship Success

Major Professor: David Doerfert

ANIMAL SCIENCE

Cameron Reid Nightingale

Dissertation: Inflammatory Status and Leukocyte Function During the Peripartum Period and Subsequent Effects on Reproduction and Lactational Performance in Dairy Cattle

Major Professor: Michael Ballou

GRADUATE CANDIDATES

Katherine Parsons Sharon (*In absentia*)

Dissertation: Immunological Effects of Pre-weaning Plane of Nutrition and Yeast Fermentation Products on Respiratory Disease in Dairy Calves
Major Professor: Michael Ballou

BIOLOGY

Soorang Lee

Dissertation: History, Population Structure and Evolution of Invasive *Tamarix* L. in the Southwestern U.S.
Major Professor: Matt Olson

BUSINESS ADMINISTRATION

Robert Edward Evert

Dissertation: Family Businesses and Entry Timing: Effects of Family Control on Internationalization
Major Professor: Tyge Payne

CHEMICAL ENGINEERING

Md Mizanur Rahman

Dissertation: Development of Microfluidic Platforms for Muscle Strength and Aging Investigations in the Model Organism *C. elegans*.
Major Professor: Siva A. Vanapalli

CHEMISTRY

Eshan Gurung

Dissertation: Physical Property, Structure, and Dynamics Studies of Ionic Liquid Systems
Major Professor: Edward Quitevis

Alicia Lenora Howard

Dissertation: Characterization, Mutagenesis and Mechanistic Analysis of the Sterol C24-Methyltransferase: Implications for Understanding Active Site Requirements for Sterol Biosynthesis
Major Professor: David Nes

Crista Danielle Thomas

Dissertation: Mechanism-based Inhibition of Ergosterol Biosynthesis in *Acanthamoeba castellanii* and Its Therapeutic Implications
Major Professor: David Nes

Francis Simiyu Wekesa

Dissertation: Iron Catalysts as Applied in Organic Synthesis: (1) Hydrosilylation of Carbonyl Compounds (2) Aldol-Condensation and Cyclotrimerization of Aldehydes (3) Dimerization of Cycloolefins towards Synthesis of High Energy-Density Fuels
Major Professor: Michael Findlater

Qing Zhang

Dissertation: Modeling Studies of Effect of Mixing Morphology on Aerosol Optics
Major Professor: Jonathan Thompson

Rui Zhu

Dissertation: Sensitive and Quantitative Proteomics and Glycoproteomics Biological Studies
Major Professor: Yehia Mechref

CIVIL ENGINEERING

Jieying Hua (*In absentia*)

Dissertation: Characterization, Modeling, and Mitigation of Vortex-induced Vibration of Slender Cylinder
Major Professor: Delong Zuo

Roxana Jahanbakhsh Javid

Dissertation: Quantifying the Environmental Impacts of Selected Sustainable Transportation Policies
Major Professor: Ali Nejat

Kayla Anne Natividad

Dissertation: Effect of Ceramic Frit on Load Resistance of Heat Treated Rectangular Glass
Major Professor: Scott Norville

CLINICAL PSYCHOLOGY

Natalie Marie Scanlon

Dissertation: Within-group Differences of Hispanic Children's Symptoms of Depression, Anxiety, and Social Anxiety and Their Relations with Various Parenting Behaviors
Major Professor: Catherine Epkins

COUNSELOR EDUCATION

Bryan Corley Moffitt

Dissertation: Dual Role Professional's Perceptions of Spirituality Competencies Concerning Master's Level Counselor Education Student Preparation
Major Professor: Charles Crews

Kathryn Joy Soule

Dissertation: EMDR with Grief: Exploring the Client Experience and Potential Benefits
Major Professor: Bret Hendricks

Laura Lyn Sparrow

Dissertation: Mothers' Perceptions of Counselors' Roles in Working with Families of Children with Autism: A Qualitative Inquiry
Major Professor: Charles Crews

Tony Joseph Walker

Dissertation: School Counseling in Charter Schools: School Leader's Perceptions of Counselor Role, Programming, and Qualifications
Major Professor: Bret Hendricks

CURRICULUM AND INSTRUCTION

Dilber Celebi

Dissertation: Pedagogy of Resistance: Reading Young Adults for Hope with Freirean Pedagogy, Praxis, and Civic Engagement in Turkey
Major Professor: Sally McMillan

Annette Elizabeth Davis-Smith

Dissertation: Student Perspectives of Transfer from an Associate of Arts in Teaching Degree to a Bachelor's Degree in Teacher Education
Major Professor: Margaret A. Price

Melinda Morrow Hammerschmidt

Dissertation: Teacher Perceptions Regarding the Teaching of Gifted Students in the Traditional Classroom Setting
Major Professor: Heather Greenhalgh-Spencer

Donald Michael Hume

Dissertation: Teacher Subject Matter Competency and Its Effects on Content Knowledge, General Pedagogical Knowledge, and Pedagogical Content Knowledge: A Comparison of California's Subject-matter Programs and the C-SET
Major Professor: Margaret A. Price

Dana Lynn Mayhall

Dissertation: Explorations of Impacts of a Teacher Preparation Program and Diverse Classroom Contexts on Elementary Math Teachers' Knowledge and Practice
Major Professor: Jian Wang

Jennifer R. Rumsey

Dissertation: Grassroots vs. the Testing Machine: A Case Study
Major Professor: Margaret A. Price

Joy Ann Russell

Dissertation: Exploring the Role of Instruction Librarians in Academic Education
Major Professors: Margaret A. Price and Reese Todd

Amber Edwards Wagon

Dissertation: Exploring Peer Editing Experiences in the College Composition Classroom
Major Professor: Mellinee Lesley

Faisal Farriet Zalm

Dissertation: The Impact of Professional Development on Elementary Teachers' Practice in Curaçao
Major Professor: Margaret A. Price

ECONOMICS

Sinh Ngoc Dang (*In absentia*)

Dissertation: Essays on International Trade and Portfolio Investment
Major Professor: Masha Rahnama

Mahmoud Salari

Dissertation: Essays in Applied Economics and Data Analysis
Major Professor: Robert McComb

Hanan Mohammad Khaleel Shkokani

Dissertation: Bank Characteristics and the Credit Channel of Monetary Policy Transmission in the European Economic and Monetary Union. Is There New Evidence?
Major Professor: Masha Rahnama

Lufei Teng

Dissertation: Essays in International Trade and Finance
Major Professor: Masha Rahnama

EDUCATIONAL PSYCHOLOGY

Rong Chang

Dissertation: Toward a Better Measure: Integrating Noncognitive Constructs Using Action-control Theory

Major Professor: Todd Little

ELECTRICAL ENGINEERING

Scott Wayne Clark

Dissertation: Design of Universal Insulation Systems for Low Voltage and High Voltage Rotating Electrical Apparatus

Major Professor: Michael Giesselmann

Shelby Lynn Lacouture

Dissertation: Advanced Characterization of SiC Power Devices Before and After Electrothermal Stress

Major Professor: Stephen Bayne

Guofeng Ren (*In absentia*)

Dissertation: Nanostructured Carbon and its Composites with Transition Metal Oxide for Electrochemical Energy Storage

Major Professor: Zhaoyang Fan

Christopher N. Turner

Dissertation: Training a New Instrument to Measure Cotton Fiber Maturity Using Transfer Learning

Major Professor: Hamed Sari-Sarraf

ENGLISH

Megan Lenai Hansen

Dissertation: Mediating Lenses: Nineteenth-Century Visual Science and Gendered Vision

Major Professor: Bruce Clarke

ENVIRONMENTAL TOXICOLOGY

Meghan Marie Cromie

Dissertation: Chemotherapeutic Properties of Epigallocateching-3-Gallate in Lung Carcinogenesis

Major Professor: Weimin Gao

Nicholas Dunham

Dissertation: Field and Laboratory Studies on Eyeworms (*Oxyspirura petrowi*) and their Impact on the Northern Bobwhite (*Colinus virginianus*)

Major Professor: Ronald Kendall

Jordan William Hunter

Dissertation: Assessment of Surrogate Biomarkers for Ophthalmic Disease in *Colinus virginianus* Infected by *Oxyspirura petrowi*

Major Professor: Steve Presley

Evelyn Gabriela Reategui Zirena

Dissertation: Effects of Diet Quality on Cadmium Toxicity and Bioenergetics in the Great Pond Snail, *Lymnaea stagnalis*

Major Professor: Todd Anderson

FAMILY AND CONSUMER SCIENCES
EDUCATION

Jay T. Killough

Dissertation: Confidence in Career Decision-making upon First Destination Employment Post Graduation: A Study of Texas Tech University Seniors and Graduate Students

Major Professor: Karen Alexander

FINE ARTS

Laurie Ann Colgrove Williams

Dissertation: A Comparative Study of Teaching Behaviors of Band and Orchestra Directors in Ensemble Rehearsals

Major Professor: Keith Dye

Aurelia Gregoria Rocha

Dissertation: Insights to El Sistema Practices at the Music Learning Center of San Antonio, Texas

Major Professor: Michael Stoune

Elissa Rae Stroman

Dissertation: Prescribing, Inscribing, and Negotiating Gilded Age Musical Femininity

Major Professor: Christopher J. Smith

HIGHER EDUCATION-
HIGHER EDUCATION RESEARCH

John Paul Garcia

Dissertation: Depression and Anxiety Symptoms and Their Association with Academic Performance, Persistence, and Graduation Beliefs in First-generation College Students

Major Professor: Valerie Paton

Ashley Marie Gonzales

Dissertation: Parental Influence and Relationship among First-generation College Students Attending Community College

Major Professor: Valerie Paton

Clint Dee Havins

Dissertation: Community Service and Postsecondary Student Completion Rates: A Quantitative Analysis

Major Professor: Valerie Paton

HISTORY

Ming-Syuan Zhong

Dissertation: Operation Babylift: Bringing Cold War Orientalism Home

Major Professor: Randy McBee

HOSPITALITY ADMINISTRATION

Ali Abdulhadi Alalmai

Dissertation: The Examination of Factors Influencing Students toward Choosing Hospitality as a Major: The Case of Undergraduate Hospitality Students

Major Professor: Shane Blum

Donna Jean Fickes (*In absentia*)

Dissertation: Education Innovation: Creating a Mindful Learning Environment in the Online, Experiential, and Culinary Classroom

Major Professors: Shane Blum and Sheila Scott-Halsell

Jeffrey Sean Harper

Dissertation: Extrinsic and Intrinsic Motivations and Their Impact on Student Participation in a Study Abroad Experience

Major Professor: Tim Dodd

Ran Li

Dissertation: Electronic Word-of-mouth and Destination Image: Influences on US Residents' Travel Intention to Beijing, China

Major Professor: Jessica Yuan

HUMAN DEVELOPMENT AND
FAMILY STUDIES

Rachel Dan Fang

Dissertation: Understanding Social Decision Making in Married Couples Playing the Ultimatum Game

Major Professor: Michael O'Boyle

Satabdi Samtani

Dissertation: The Impact of Maternal Health and Involvement on Children's Well Being: A Latent Growth Model

Major Professors: Miriam Muslow and Alan Reifman

Anuradha Sastry

Dissertation: Infants' Responses to Differential Treatment by Mother: Documenting Jealousy in Infants in India

Major Professor: Sybil Hart

Shu Yuan

Dissertation: Co-parenting, Marital Quality, and Children's Adjustment in Mainland China

Major Professor: Dana Weiser

INDUSTRIAL ENGINEERING

Katharina Renken

Dissertation: Economic Effects of Mitigation Spending in Emergency Management in the United States of America from 2004 to 2014

Major Professors: Mario Beruvides and Andrea Jackman

Kai-Oliver Zander

Dissertation: Methods for Job Allocation in a Multi Machine Additive Manufacturing Environment

Major Professor: Milton Smith

INTERIOR ENVIRONMENTAL DESIGN

Negin Housharian

Dissertation: Healthcare Planning Parameters Affecting Efficiency in Emergency Departments

Major Professor: D. Pati

GRADUATE CANDIDATES

MARRIAGE AND FAMILY THERAPY

Heather Austin-Robillard

Dissertation: Negotiating Motherhood for Women in Recovery from an Eating Disorder

Major Professor: Sterling Shumway

Timothy Glenn Parker

Dissertation: Raising a Child with Down Syndrome: A Dyadic Analysis of Resiliency, Coping, and Relational Adjustment

Major Professor: Nicole Springer

MASS COMMUNICATIONS

Priyanka Khandelwal

Dissertation: Adoption, Use and Identity Construction in YikYak

Major Professor: Robert Peaslee

MATHEMATICS

Wenzhen Fan

Dissertation: Control System Splines on the Manifold of Lines in R^2

Major Professor: Alex Wang

Bo Li

Dissertation: Simultaneous Inference Based on Rank Regression in Biomedical Data Analysis

Major Professor: Hossein Mansouri

MECHANICAL ENGINEERING

Lili Liu (*In absentia*)

Dissertation: Size and Shape-controlled Synthesis of Inorganic Nanomaterials

Major Professor: Jharna Chaudhuri

Kelsey Ann Meeks

Dissertation: Particle Dispersion and Connectivity in Energetic Thin Films

Major Professor: Michelle Pantoya

Xueda Shi

Dissertation: Mechanism of Non-Newtonian Flow around a Confined Cylinder, Array of Cylinders and Its Role on Oil Displacement

Major Professor: Gordon Christopher

Siheng Su

Dissertation: Graphene-based Nanomaterials for Brain Cancer Therapy

Major Professor: Jingjing Qiu

PETROLEUM ENGINEERING

Raed Abdulrhman M. Alouhali

Dissertation: Temperature, Mineralogy, and Fluid Effect on Unconventional Formation Properties

Major Professor: Mohamed Soliman

Ahmed Moustafa Abdelrahman Alzahabi

Dissertation: Optimization of Hydraulic Fracture Design and Sequencing in Unconventional Formations

Major Professor: Mohamed Soliman

Xingbang Meng

Dissertation: Investigation of Enhanced Condensate Recovery Potential in Shale Gas Condensate Reservoir by Cyclic Gas Injection

Major Professor: James Sheng

Fahd Siddiqui

Dissertation: Fluid Flow through Porous Media in the Periphery of Darcy's Law

Major Professor: Mohamed Soliman

Yang Yu

Dissertation: Experimental Study of Enhanced Liquid Oil Recovery from Shale Reservoirs by Gas Injection

Major Professor: James Sheng

PHYSICS

Darshan Bhadresh Desai

Dissertation: Novel Techniques of Optical Detection and Observation of Periodic Crystals

Major Professor: Luis Grave-de-Peralta

James Anthony Faulkner

Dissertation: A Search for WW γ and WZ γ Triboson Production and Anomalous Quartic Gauge Couplings at $\sqrt{s} = 8$ and 13 TeV within the Compact Muon Solenoid

Major Professor: Sung-Won Lee

PLANT AND SOIL SCIENCE

Travis Olen Conley

Dissertation: Paleo-environmental Landscape Evolution of the Eastern Caprock Escarpment of the Southern High Plains

Major Professors: Eileen Johnson and David Weindorf

Deepika Mishra

Dissertation: Improvement of Cotton Fiber Quality with Chemical Mutagenesis

Major Professor: Dick Auld

SPANISH

John Edmund Baron

Dissertation: Restoring Memory in Recent Novels and Films from Argentina

Major Professor: John Beusterien

SYSTEMS AND ENGINEERING MANAGEMENT

Francisco Armando Figueroa (*In absentia*)

Dissertation: Improved Institutional Risk Reduction at Universities through Better States of Preparation

Major Professor: Milton Smith

Dale Eugene Moon

Dissertation: Real Time Economic Model for Behind the Meter Wind Generation Installation in a Government Facility

Major Professor: Jennifer Cross

TECHNICAL COMMUNICATION AND RHETORIC

Jeannie Griffin Bennett

Dissertation: An Unhealthy Drama: A Burkean Analysis of Mental Illness Rhetoric

Major Professor: Amy Koerber

Joy Taylor McMurrin

Dissertation: Negotiating the Supermarket: A Critical Approach to Nutrition Literacy among Low-income Consumers

Major Professors: Sam Dragga and Amy Koerber

Danielle Marie Saad

Dissertation: The Other Muslimah: Online Counter Narratives of Muslim Women in Alternate Web Spaces

Major Professor: Sean Zdenek

WILDLIFE, AQUATIC, AND WILDLANDS SCIENCE AND MANAGEMENT

Nicole Tatman Quintana

Dissertation: Predator-prey Relationships between Rocky Mountain Elk and Black Bears in Northern New Mexico

Major Professor: Mark Wallace

Wondmagegne Daniel Whibesilassie

Dissertation: African Civets in Ethiopia: Husbandry Practices, Peoples' Perceptions and Knowledge, and Damage Analysis

Major Professor: Gad Perry

ZOOLOGY

Juan Pablo Carrera Estupiñán

Dissertation: Diversity, Zoogeography, and Community Ecology of Bats in the Ecuadorian Andes

Major Professors: Robert Bradley and Carleton Phillips

MASTER OF AGRIBUSINESS

Jordan Lee Busher

Tate Ellis Horwood

Reina Mistene Lewis

Grayson John Russell

MASTER OF ARCHITECTURE

Marvin David Bonilla

Christopher Joseph Brennan

Ethan James Fleshman

Kyle Anthony Flusche

Adam Jose Gutierrez

Justin Anthony Leal

Jeffrey Ryan McAdory

Aldo Gerardo Morales, Jr.

Clifton Wayne Petty

Eduardo Ponce

Christina Nicole Purcella

Emerson Rodriguez (*In absentia*)

JuanRaymon Rubio

Iman Safi
Steven Saucedo
Edward Serna
Jordan Danielle Sjuje
Zack Langston Sprinkle
Wesley Aaron Thomas
Miles Ralston Valentine
Patrick Gerald Walker
Brett Addison Wheeler
Thalia Ronit Wiener Castillo
Sawyer Lee Wilson

MASTER OF ART EDUCATION

Margaret Ann Dye
Paula Jo LeBleu (*In absentia*)
Shelbi Nicole Reichenau
Daniel Thomas Rodriguez

MASTER OF ARTS

ART HISTORY

Shauna Michelle Leslie Garland
Thesis: Roads: Transportation or Transformation?
Indigenous and Spanish Mapping Practices in
the Relaciones Geográficas of 16th-Century New
Spain
Spencer Taylor Mitchell
Thesis: Visual Communications of Power: The
Iconography of the Classic Maya Naranjo-Sa'al Polity

COMMUNICATION STUDIES

Shelby Loryn Cearley
Kay Leigh Shannon
Berenice Urista

COUNSELING PSYCHOLOGY

Mandrila Das (*In absentia*)
Victoria Anna Henderson (*In absentia*)

ECONOMICS

Antonia Gkergki (*In absentia*)

ENGLISH

Chrysta A. Carson
Thesis: The Black Bodies of Eve: Transformative
Embodiment in Nalo Hopkinson's *Midnight Rob-*
ber and B. Catling's *The Vorrh*
Traci Margaret Gillen
Nidhi Kaith
Joshua David Osbourn

EXPERIMENTAL PSYCHOLOGY

Trevor Jennings McIntyre (*In absentia*)

HISTORY

Omero Lara
Emalee Joy Nelson
Thesis: Cubans in Professional Baseball: The
Game-changing Ties between Color, Gender and
Acceptance in the United States

INTERDISCIPLINARY STUDIES

Victoria Ann Alvarez
Darina Petrova Brackeen
Aaron Christopher McKenzie
Daniel Felipe Mendoza
Elisa Rene Taylor
Tracy D. Tindle
Kiana Wright

LANGUAGES AND CULTURES

Saad Abdulaziz Alamri
Effah Yahya Morad

MASS COMMUNICATIONS

Holly Brie Bearden
Kaitlyn Nicole Beckert
Mary Holly Cram
Mallory Brooke Cross
Austin Michael Davidson
Thesis: Alone in a Crowded Room: An Assessment
of Crowd Noise as an Auditory Structural Feature
in Music Recordings
Dylan Stafford Echols
Krystyna Quinn Harper
Georgia Ann Kapusta
Alicia Rose Keene
Natalie Ann Kendrick
Enrique L. Luna
Nicole Elise Molter
Reagan Elizabeth Moore
Katelynne Ashley Newman
Ebony Tiara Sayles
Mariia Silina (*In absentia*)
K'Leigh Dawn Sims
Justin Rashad Smith
Skylar Rain Starbuck
Noelle Andrea Vela
Abigail L. Werner
Lauren Nicole West
Gerald Wayne White II

MATHEMATICS

Lee David Gundersen (*In absentia*)
Patrick Jerome O'Connell
Christopher John Sauer
Natalie B. Welcome (*In absentia*)

MUSEUM SCIENCE

Morgan Lee Keller
Rebecca Elise Knight
Charlotte Johanna Lee Stockton
Caroline Lindsay Reeves (*In absentia*)

POLITICAL SCIENCE

Madison Victoria Hood (*In absentia*)
Maria Seredina

PSYCHOLOGY

McKenzie Jo Cordell
Sarah Jo David
Thesis: Network Analysis Approach to Intra-
individual Dynamic Symptom Structure of an
Individual with Obsessive-Compulsive Disorder
Andrew James Marshall
Thesis: Mind or Body: An Investigation of the
Comparative Efficacy of Brief Mindfulness-based
and Applied Relaxation Techniques for the Treat-
ment of Anxiety

ROMANCE LANGUAGES

Hector Noriega
Emeline Charlotte Tetevuide
Thesis: L'influence Britannique Sur les codes et les
modes de Consommation Moderne du Champagne

STRATEGIC COMMUNICATION AND INNOVATION

Emily Ann Keller
Anthony Dean Killa
Madison Brook Tatum
Claudia Mariana Tristán

TECHNICAL COMMUNICATION

Mallory Jade Mooney (*In absentia*)
Margaret Reen Waldron (*In absentia*)

MASTER OF BUSINESS ADMINISTRATION

GENERAL BUSINESS

Thais Watson Ahlstrand
Sean Ryan August
Casey Jacqueline Baker
Jeffrey James Barrington
Ian Andrew Barry
Mandy M. Blevins
Shannon Lee Boddie
Kryl Lane Boedeker
Kyle Andres Brito (*In absentia*)
Stephen Rush Broderson
Hayden James Brown (*In absentia*)
Brooke Nicole Bruington
Shane Livingston Bryant
Elizabeth Anne Buckner
Lisa Jean Clark
Alexander Buckley Compton
Stephen C. Cross
Stephanie Elane Deleon
Dalton Wade DeWinne
Michael H. Diaz
Alissa Willson Downing
Connor Rush DuBose

GRADUATE CANDIDATES

Rafael Dutra Borges
Helmult Eshun
Rachel C. Fernandez
Ted Fily Flores
Arturo Ramirez Garcia
Kyle Scott Garcia (*In absentia*)
Timothy Wayne Gassaway II
Gregory Charles Gorman
Matthew Luke Guenther
Scott Christopher Guenther
Christian Harris Gulde (*In absentia*)
Tyler Garrett Hart
Cesar Armando Hernandez
Allison R. Hoffman
Laura D. Honnol
Andrew Stephen Jeffreys (*In absentia*)
Tanner Stanley Jerrett
Karen Karimi
Kristen Brooke Klein
Kevin Robert Koestler
Taylor Helene Lindgren (*In absentia*)
Laura Helen Lindow
Ethan Patrick Mathias
Grant Myles McMillan
Usman Oshiobugie Mohammed
Pedie Boy Lumba Monta
Drew Quinton Morgan
Rajesh Nambiar
Ndidiama Onyekachi Nduka
M. Gage Nelson
Kim-Long Richard Nguyen
Laney Trang Nguyen
Vianca Monette Nunez
Elizabeth Adedayo Onasanya
Gabyhayes Gabriel Opusunju
George Hajimu Parker (*In absentia*)
Robert Porras Rodriguez
Richard Scott Rodriguez
Mazen Sabouni
Bianca Zuriel Salas
Matthew Gilbert Saldaña
Fabian Sanchez (*In absentia*)
William Steele Sessions II (*In absentia*)
Madison Seymour
LoNita C. Sharp
Gary Kiip Smith
Joseph R. Stone (*In absentia*)
Lance Pon Suvans
Dexter Sykes
Denise Tarango
Philip A. Terrigno
Camilo Tovias
Sorleen Carolina Trevino
Ashton Taylor Urrea
Mugdha Eknath Vartak
Binu Thankamani Velayudhan
Margaret Carlee Walker
Leslie Price White (*In absentia*)
David Andrew Wilson
Jason Todd Yocham
Lauren Carter Zimmermann

MASTER OF EDUCATION

COUNSELOR EDUCATION

Michelle Elaine Byrd
Margarita Martinez Gamboa
Nehemiah R. Gutierrez
Sally Jo Jackson
Marley Morris
Dianna Payan
Matthew W. Spikes (*In absentia*)
La'Ryon Deon Witherspoon

CURRICULUM AND INSTRUCTION

Ebtehal Hussain Alhashem
Thesis: Parental Involvement in Preschool Education

EDUCATIONAL LEADERSHIP

Melissa Kay Fletcher
Jessica Haleigh Kern
Lyndsay Thoms Lucas
Adrianna Billalba Lujan
Lynsey Marie Pinkerton
Marina Matilde Rodriguez
Frank Shepherd
Joseph Robert Sledge (*In absentia*)

EDUCATIONAL PSYCHOLOGY

Laura Alejandra Martinez
Rosario Moreno
Casey Michael Williams

HIGHER EDUCATION

Aaron Michael Chavarria
Thesis: Understanding How Dual-credit Course Participation Shapes Students' Perceived Social Preparation for College and Post-college Plans
Nhung Thi Tuyet Pham
Thesis: Adequacy in Faculty Standards of U.S. Regional Accreditation Commissions

INSTRUCTIONAL TECHNOLOGY

Megan Nicole Gallenstein
Jessica Guerra
Matthew William Jones (*In absentia*)
Ashley Marie Prothro
Carol Marie Wilson (*In absentia*)

SPECIAL EDUCATION

James Matthew Baker
Jordan Nicole Bragg
Michelle Louise Chica
Ashley A. Davis
Jennifer Lynn Durik-Resnick
Kit Elizabeth Empson
Gloria Alicia Garza
Veronica Garza
Christina Geigenmiller
Kelli McCabe Geise
Alicia Yathay Gomez Pizarro
Kelly Renae Grace
Tawnia Yvette Groll

Dora Hernandez-Pagel
Yahaira Carolina Herrera
Yvette Morgan Hoisington
Morgan Lynn Johnson
Dianna Kim
Meghan Elizabeth Landry-Barnett
Adrian Jo Little
Frances Elizabeth McGuire
Adam David Membrey
Danielle Marie Mulder
Brandy Catherine Nehlig
Rachelle Stewart Nielson
Tamara Nicole Pate-Price
Emily Danielle Poindexter
Doris A. Senatori
Allison Elizabeth Sheats
Cassidy James Sherwood
Keely Ann Simmons
Vanessa Solis
Danielle Nicole Stevens
Heidi Lynn Tennison

MASTER OF ENGINEERING

Shivam Sisodia

MASTER OF ENVIRONMENTAL ENGINEERING

Garret Douglas Bland
Anastasia Nicole Fox
Bethany Leigh Schomin
Paul Vincent Swope

MASTER OF FINE ARTS

ART

Victoria Marie Bee
Ashley Marie Busby
Kristen Lea Swartz

THEATRE ARTS

Travis Michael Clark

MASTER OF LANDSCAPE ARCHITECTURE

Aura Marina Dominguez
Jinxing Wei

MASTER OF MUSIC

Samuel James Bigott
William Linthicum-Blackhorse
Thesis: La Nuna de Julia, Cinco Canciones de Cuna
Hannah Frances Macgillivray
Ann Marie Nichols (*In absentia*)
Jordan Kent Siebrecht
Brooke Elizabeth Trapp

MASTER OF MUSIC EDUCATION

Nachel Charis Konemann

Thesis: A Descriptive Study of Gender Bias of Images in Method Books for Beginner Band

MASTER OF PUBLIC ADMINISTRATION

Robert William Berleth

Paul Gordon Busacca

Juliana Marín Melo

Erin Nicole Rea

MASTER OF SCIENCE

AGRICULTURAL AND APPLIED ECONOMICS

Deborah Hoff Clarke (*In absentia*)

Omar De Jesus Cortez (*In absentia*)

Thesis: The Gears of Investment in Education: An Econometric Analysis on How Growth, Economic, and Education Indicators Impact Public Education Expenditure in Developed and Developing Economies

Kouamlan Hinin Badr Moussa Kouassi

Bredoumy (*In absentia*)

Marilu Varela

AGRICULTURAL COMMUNICATIONS

Ashley Hope Hancock

AGRICULTURAL EDUCATION

Juan M. Cantu, Jr.

Cassie Joyce Godwin

Thesis: A Case Study of the Texas Alliance for Water Conservation's Communication Efforts

ANIMAL SCIENCE

Katherine Gulick

Thesis: Investigations into Bovine Cardiopulmonary Physiology and Disease

ARCHITECTURE

Ahmed Khairadeen Ali

Thesis: Informative Urbanism: a Method of Cross Networking City Data from Spatial Locations to Their Actual Systematic Networking

Merlyn Thomas Samuel

Thesis: An Exploration of Stereotomic Form-finding Strategies Utilizing 3D Printing and Robotic Hot Wire Cutting

APPLIED PHYSICS

Eman Mohammed A. Bu Ali

Thesis: Thermal imaging and Infrared Scene Projector Based on VO2 Films and Scanning Mirrors

Alexandra Vladimirovna Gordienko

Thesis: Growing Anatase and Rutile Titania on c-cut Sapphire using Pulsed-Laser Deposition

Premitha Wijayinie Pansalawatte

Thesis: Photo-Electrical Studies of VO2 Thin Films

ATMOSPHERIC SCIENCE

Samantha Marie Berkseth (*In absentia*)

Thesis: Quantitative Analysis of the Turbulent Structure of Convection

BIOENGINEERING

Carla B. Shelton (*In absentia*)

BIOLOGY

Somrita Basu (*In absentia*)

Christopher Dale Dunn

Thesis: Genetic Diversity and the Origin of Contemporary Eastern Elk (*Cervus canadensis*) Populations in Texas

Sarah Frances Mangum

Thesis: Exploration of Evolutionary Relationships and LINE-1 Retrotransposition Accumulation/Activity within Sciurids

Ezinne Adabaram Osuji

Thesis: Pattern of Microbial Degradation of Estrone and Triclosan Mixture and Its Effect on Soil Bacterial Community

BIOTECHNOLOGY

Udahawatte Gedara Shasika Harshani Jayarathne

Nethanji Sandarajika Kumarapathiranalage

Thesis: Using RNA-Seq to Understand Mechanisms of Water-deficit Stress Acclimation in Peanut Leaf

BUSINESS ADMINISTRATION

Abu Naser Fayed Ahmed

Casey Jacqueline Baker

Kyle Andres Brito (*In absentia*)

Brooke Nicole Bruington

Zhe Chen (*In absentia*)

Ryan Michael Gregory

Nathan Edward Hamblin

Matthew Daniel Kampf

Jonathan A. Lowe

Bianca Zuriel Salas

Darya White

CHEMISTRY

Megan Elizabeth Gonzalez

Thesis: A Quantum Dynamical Study of the Rotation of the Dihydrogen Ligand in the Fe(H)₂(H₂) (PEtPh₂)₃ Coordination Complex

Mahesh Thakurathi

Thesis: The Stokes-Einstein Equation and the Diffusion of Ferrocene in Room Temperature Ionic Liquids (RTILs) Studied by Cyclic Voltammetry

COMPUTER SCIENCE

Md Raihan Majumder

Irene Maria Lalitha

Sebastian Nino-Penaloza

Manasa Shivarudra

Vibha Viswanatha Indushree

DATA SCIENCE

Saurabh Dhoble

Walter Gutierrez Rodriguez

ENVIRONMENTAL DESIGN

Ibtihaj Saad R Alsadun

ENVIRONMENTAL TOXICOLOGY

Jacob Ryan Carrick (*In absentia*)

Thesis: Optimizing Use of Toxicity Test Data: Censored Data in Species Sensitivity Distributions and Temporal Data in Mixture Studies

Neha Anil Sawant

FAMILY AND CONSUMER SCIENCES EDUCATION

Katherine Nicole Sobel

FOOD SCIENCE

Brenda Sofia Inestroza Herrera

Thesis: Reduction of *Salmonella* Embedded in Lymph Nodes During Grinding Using Lactic Acid and Peracetic Acid Treatments on Beef Trim, Combined with Acidified Sodium Chlorite

FORENSIC SCIENCE

Brittany Nicole Koon

Thesis: Annotation of Transposable Elements in *Phormia regina* and its Application to Forensic Science

Michael Igor Radford

Thesis: Fingerprint Visualization on Condoms

GEOGRAPHY

Sarah Elizabeth Johnson (*In absentia*)

Thesis: Vegetation Textures of Dunes in Arid and Semi-Arid Regions

Ashley Elizabeth Morris

Thesis: An Investigation of Social Vulnerability and Storm Resource Availability for Tornado Hazards in Lubbock, Texas

GEOSCIENCES

Hepeng Tian (*In absentia*)

Thesis: Using Hornblende Geochemistry to Unravel the Emplacement of Magmatic Structures, Tuolumne Intrusive Complex, California

HORTICULTURE SCIENCE

John Harnsworth Kerlin V

GRADUATE CANDIDATES

HOSPITALITY AND RETAIL MANAGEMENT

Ahmed Abdulaziz A. Alshiha
Magboul Musleh D. Althubiti
Thesis: The Effect of Cultural Background on
Perceived Service Quality and Guest's Satisfaction
for Hotel Guests among Muslim Pilgrims
Victoria Grace Elam
Marinda Katherine Wilson
Rachel DeAnn Young

HUMAN DEVELOPMENT AND FAMILY STUDIES

Alivia Joanne Depaulo
Chinagorom Akwaugo Duru (*In absentia*)
Thesis: Effects of Exposure to Donated and Non-
Donated Breast Milk on Preterm Infants' Weight
Gain
Taylor Suzanne Flowers
Melissa Nicole Gray

INTERDISCIPLINARY STUDIES

David Christian Brenner
Jeremy Du Wayne Cortez
Rebecca G. Gerhardt
Sreehari Inukollu
Blessy John Keralavakkayil
Zachary Lin Kittley (*In absentia*)
Marshall Jacob Thornhill (*In absentia*)

KINESIOLOGY

Kelci Marie Bethke
Ryan Neil De Franco
Matthew Allen Hamm
Jazmyn Whitney Lamar-Bruce
Lauren Ann Watson

MATHEMATICS

Sara Calandrini (*In absentia*)
Giacomo Capodaglio (*In absentia*)
Shih-Yu Lee
Thesis: Adaptive Mesh Refinement for Multigrid
Solver
Jayaweera Arachchige don Miuran Dencil
William Todd Henry Tritch

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Thesis: Nutrition Education Intervention to
Increase Nutrition Knowledge and Healthy Food
Choices among Fourth and Fifth-graders in East
Lubbock, Texas: A Promised Neighborhood
Project

Jordan Haley Robison
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PHYSICS

Shaima Ali Alanzi
Thesis: Dual-space Microscopy
Wedad Kayad Alenazy
Thesis: Super-resolution Imaging of Photonic Crys-
tals Using the Dual-space Microscopy Technique
Jigesh Rameshchandra Patel (*In absentia*)

PLANT AND SOIL SCIENCE

Jennifer Colette Chagoya (*In absentia*)
Thesis: Physiological Screening and Marker-
Assisted Selection for Drought Tolerance in
Peanut
Jonathan Lee Shockey
Thesis: Harvest-aid Efficiency in Guar (*Cyamopsis*
tetragonoloba (L.) Taub.) in the Texas Plains

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Yang Cai
Hong Li (*In absentia*)
Lewis Glendal Owens III
Alahendra Acharige Chamila Dilhani Perera
Thesis: Inference for the Survival Function of the
Linearly Decreasing Stress Weibull
Monir Uz Zaman

WILDLIFE, AQUATIC, AND WILDLANDS SCIENCE AND MANAGEMENT

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Diet, and Impacts on Ungulate Neonate Survival
on the National Rifle Association Whittington
Center, New Mexico
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Thesis: Status of Mesocarnivores in the Last Area
Known to be Occupied by Swift Foxes, *Vulpes*
velox, in Texas
Daniel Thomas Raleigh
Thesis: Sandhill Crane (*Antigone canadensis*)
Overwintering Resource Use and Selection in
West Texas Using GIS and Remote Sensing
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Thesis: *Bouteloua gracilis* Competition with *Salsola*
iberica in Shortgrass Prairie Rangelands

ZOOLOGY

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Thesis: Eat and Run: The Effects of Anthropogenic
Noise on the Perceived Predation Risk of the
Eastern Chipmunk, *Tamias striatus*

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Sharp Freeway and University Avenue Intersection
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Sydney Michelle Squires⁵



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Daniel Patrick Ely
Alicia Denise McDonald³

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Luis J. Anaya¹
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Anthony James Uchtyl
Ashlyn Paige Utley
Katherine Marie Webb
Sydney Lane Webster²
Shelby Lauren Wofford
Taylor Austin Worley



BACHELOR OF APPLIED ARTS AND SCIENCES

Adrian Aranda
Jocelyn Bartum-Torres
Jennifer Renee Martinez

UNDERGRADUATE CANDIDATES

BACHELOR OF ARTS

UNIVERSITY STUDIES

Franklin Alexander Agnew
Chris Luis Aguilar
Bobbi Avila
Brian Charles Baker
Brett David Becker
Taylor Elaine Biddle
Stephanie Dian Everfree Blackwell²
Sterling Wade Blocker
Misty Dawn Bloomingdale³
Coleman Pollard Bowden
Nichoel Dawn Boyd
Megan Elise Bradford
Cody Robert Burris
Ashley Nicole Clark³
Cammie Lynn Coffey²
Colton A. Englishbee
Keith Roland Eynon
Amelia Vonneice Flora
Courtney Anne Gerig
Kimberleigh Rochelle Gonzalez²
Winston Eugene Goodman
Shannon Hope Graham
August Hunter Hein³
Heather Marie Jennings
Andrew Parsons Grisebaum
Jaimie Lauren Hayslip
Natosha Anne Hendrickson²
Clay Michael Herbolt
Ashleigh Morgan Jenkins
Jessica Ellen Jones
Emma Laine Kingsbery
Raniece Michelle Knighten
Blake Andrew Laster
Cody Ryan Leake
Matthew Ryan Long³
Ryan Thomas Mahady
Joshua Michael Montano
Spencer Ray Morgan
Afamefuna Ikenna Pride Okeke
Taylor Austin Pamplin
Mary Katherine Perrine
Raheel Rafique Poonja
Spencer Charles Porter
Ibrahim Isaiah Pratt
Jared Lance Presser
Sarah Dawson Pulaski
A. Michael Punzo
Cory Lane Raley
Kristen Michelle Righter²
Kylee Zane Rodriguez
Rodolfo Benjiman Samarripas
Ida Donnell Schmidt
Jordan Paul Simon
Cameron Andrew Smith
Camri Deann Stovall
William Harold Sullivan
Haely Rebekah Sumruld
Courtne Miche Taylor
Daniel Jordan Taylor
Paige Nicole Turnbow
Brandon Dwayne Vickers
Gerald Wayne Watson
Steve Nelson Weber
Samuel Kreg Whiteside
Audrey Marie Wilde

BACHELOR OF SCIENCE

UNIVERSITY STUDIES

Ryan David Behrle
Kyle Wayne Caviness
Chase Philip Eubanks
Obinna Eberechi Ezekwe
Santos Sherod Garcia
Danielle M Gavin
Caleb Matthew Hall³
Cody Hall
Josie Lynn Hayes
Guadalupe Herrera
Cody Rhea Howard
Oggaha Moe Hein Htut
Brittney Nicole Johnson³
Kaitlin Leigh Leary
Isaac Richard Lucio
Cedric Christopher Macklin
Christopher Lee Martin
Colby Blake McKelva
Enrique Mendez, Jr.
Kelly Rae Meredith¹
Michael Anthony Merrick
Juan Pedro Moreno
Lavinia Caroline Owen
Roland Rodriguez
Turner Julian Sparks
Joshua David Tucker
Kenneth Brandon Yoakum

WIND ENERGY

Shelby Maloy
Steven Ernesto Perez
Eric Christopher Piontek
Carlos Michel Rivas



TEXAS TECH UNIVERSITY
J.T. & Margaret Talkington
College of Visual & Performing Arts

BACHELOR OF ARTS

ART

Frances Ruth Atha

DANCE

Hannah Mariah Miller³

MUSIC

Marissa Alyse Bingham
Ashli Kate Bradshaw
Kyle D. Davis
Cody E. Kurtin
James Daniel Wilkinson

THEATRE ARTS

Taylor Lynn Hart²
Chelsey DiAnne Holt
Katherine Lauraleen Moore
Lauren Allene Tuttlebee²

BACHELOR OF FINE ARTS

ART

Melissa Ann Burger
Joshua Chase Cobb
Steven Erick Estrada
Valerie Jean Haley³
Brook Hendrix
Rebekah Elizabeth Holmes
Emily Guy Livingston
Marten Anthony Ortiz
Elizabeth Avery Smith
Antoinette Marie Triola
Tucker Briley Waldroop³
Benjamin Thatcher Wortham

BACHELOR OF GENERAL STUDIES

Lauren Keach Karcher
David Irving Siegel
Michelle Ariel Vega³

BACHELOR OF MUSIC

Ashley Lynn Allen¹
Benjamin Reed Cordell²
Jeremy Luke Couture
Meredith Ann Crouch
Megan Lacy Dillon²
Johnathan Christopher Doerr
Joshua A. Dolney³
Grant Alexander Easdon
Aimee Michelle Foster²
Jesus R. Garcia
Zachary A. Gonzalez
Nicholas Joseph Grigar
Michaela Celeste Hardin²
Rebecca Suzanne Kozinski¹
Victoria Lien^{1,4}
Gabriella Antoinette Martinez
Roxanne Gabrielle Martinez
Jonathan Andrew Ortiz¹
Andrew Taylor Pacheco
Keith William Peters
Austin Benjamin Scott³
Tyler B. Simon³

RECEPTIONS AND OTHER CEREMONIES

INDIVIDUAL COLLEGE RECEPTIONS

Immediately After Commencement Ceremony

College of Agricultural Sciences and Natural Resources | Animal and Food Sciences Building, Room 101

College of Architecture | Architecture Gallery

College of Arts and Sciences | Foyer Area of Room 104, Holden Hall

Jerry S. Rawls College of Business | McCoy Atrium, 1st Floor of Rawls College of Business

College of Education | Second Floor Lobby, College of Education

Edward E. Whitacre Jr. College of Engineering | 101 Livermore Center

College of Human Sciences | El Centro, Human Sciences Building

College of Media and Communication | Matador Room, Student Union Building

J.T. and Margaret Talkington College of Visual and Performing Arts | Rotunda, Holden Hall

University Studies | Red Raider Lounge, Student Union Building

Wind Energy | Room 107, National Wind Institute

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

OTHER CEREMONIES

Army ROTC Military Commissioning | Friday, December 16, 10:00 a.m., International Cultural Center, Room 105B

Air Force ROTC Military Commissioning | Saturday, December 17, 6:00 p.m., Escondido Theatre, Student Union Building

CANDIDATES FOR MILITARY COMMISSIONS

The following students are being commissioned as a Second Lieutenant in the United States Air Force:

Blake Anthony Gawlik
Julia Eve Torres

The following students are being commissioned as a Second Lieutenant in the United States Army:

David Harvey Enriquez
William Bradley Taliaferro IV

The following students are being commissioned as a Second Lieutenant in the United States Marine Corps:

Thomas Earl Graham III
Stephen Anthony Mendoza

COLLEGE BANNERS

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

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



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



signed for use in the December 2005 graduation. Dr. Marvin Cepica, former dean of the college, developed the design with approval and input from the College Marketing Committee. The background color, maize, was established by the Intercollegiate Code to represent the agricultural disciplines. The design, with a map of the continent of North America, reflects the global scope of modern agriculture and natural resources management.

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



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



represent the primary roles of the college as a unit dedicated to preparing teachers and furthering educational scholarship, leadership, and service. The Double T logo appears at the bottom of the banner.

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



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



The **Graduate School** banner is blue. Imposed on this background is a white circle within a light blue one. These circles contain the image of a golden open book and a burning lamp. The open book symbolizes knowledge and the lamp represents a light by which to study. The 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 was redesigned in 2016 and adapted from an original design by former faculty member Dr. Ben Goh. The design depicts a woman, an adolescent, and a child. The diversity of faces and ages represents the families and communities



served by the college in its mission to improve and enhance human lives through teaching, research, and outreach. The image of the globe represents the goal of not only serving the lives of those in the local community, but also connecting with the global community.

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 **J.T. and Margaret Talkington 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.

The symbols on the **Texas Tech University Libraries'** banner reinforce the idea that the Library is the center of knowledge on campus. As such, it is the guardian and giver of knowledge and information. The key in the foreground of the banner symbolizes the Libraries' role as guardian and safe keeper of all ideas. In the not too distant past, knowledge was considered sacred or something that was



best kept locked away, thus the symbolism of the key. The flames symbolize the Libraries' other and equally important role as the giver of knowledge, providing access to wisdom. For centuries, the use of fire was believed to be man's first step on the path to civilization; one characteristic of fire is its ability to spread, which represents the Library's role as purveyor of knowledge. The colors of the flames symbolize the three broad branches of knowledge; scarlet for humanities, gold for sciences, and the purple flame for social sciences.

ACADEMIC DRESS AND PROCESSION



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

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.



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

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

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

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

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

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

COLORS REPRESENTING FIELDS OF STUDY

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

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

HONOR CORDS / MEDALLION

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

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



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

TEXAS TECH COMMENCEMENT ANNOUNCEMENTS

GRADUATE PHOTOGRAPHS

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

COMMENCEMENT DVD

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

TEXAS TECH TRADITIONS

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

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



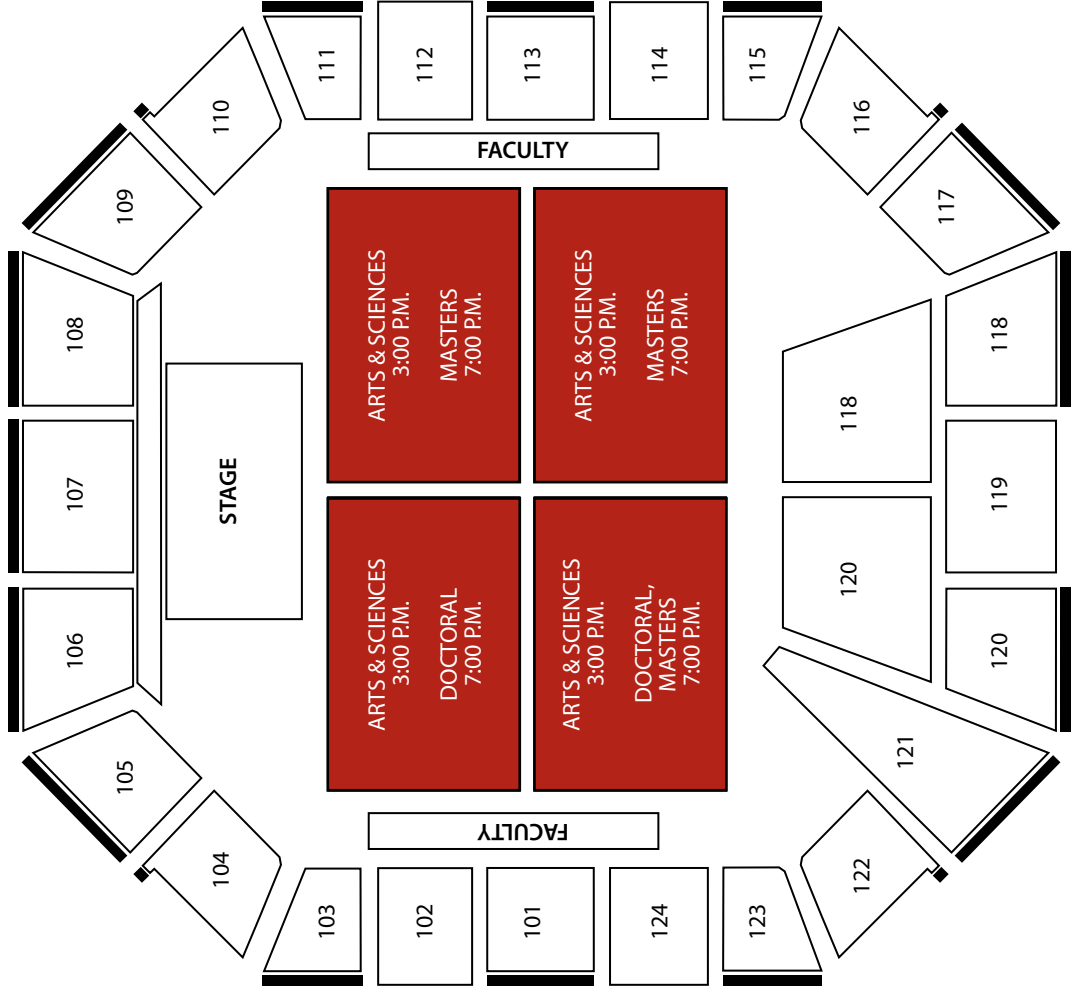
The Texas Tech Class Ring

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.

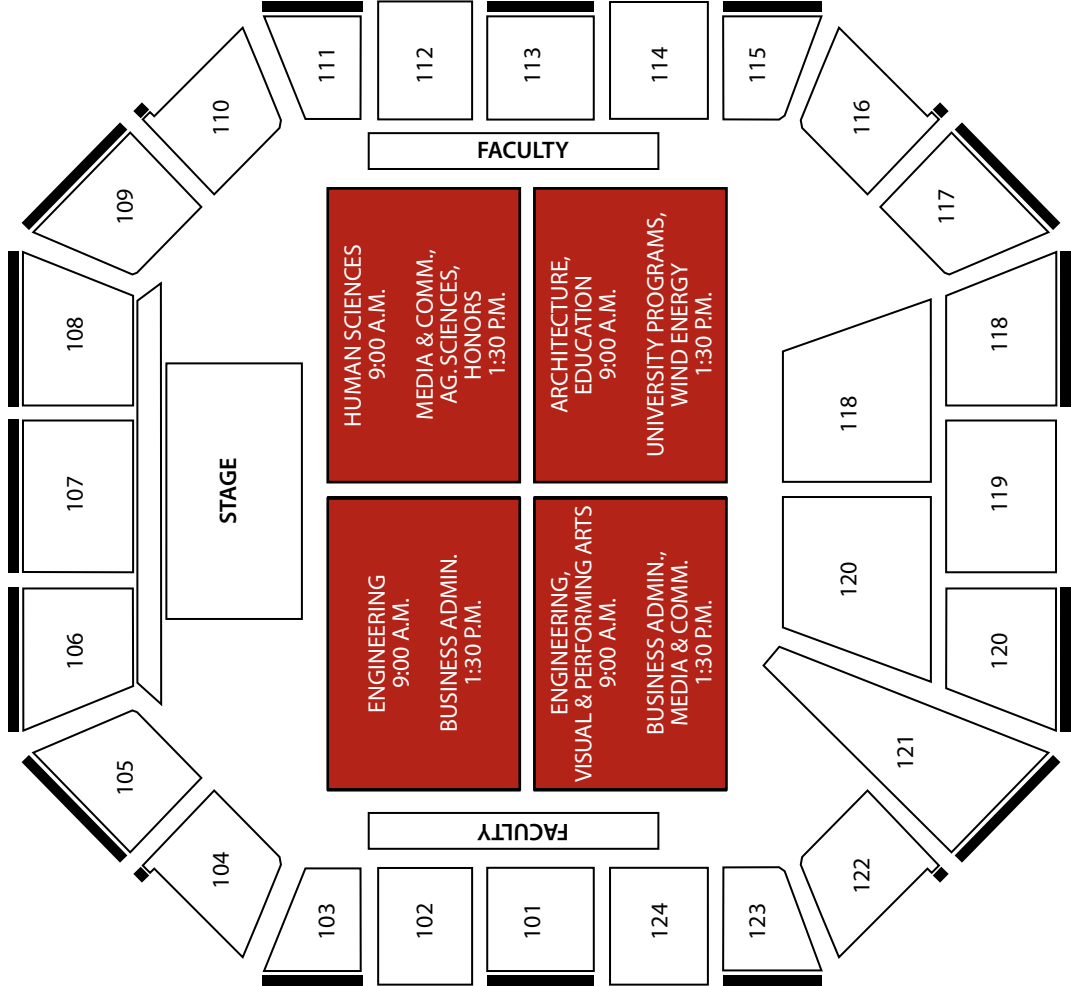
(www.TexasTechRing.org)

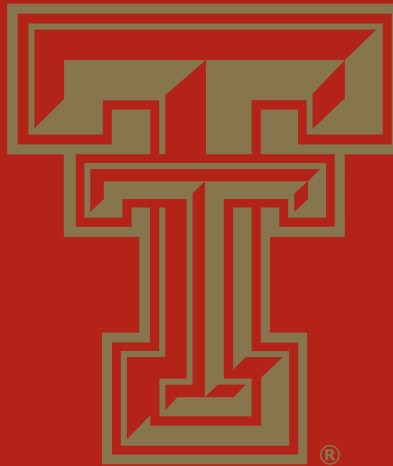


FRIDAY, December 16



SATURDAY, December 17





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.

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