



SPRING 2020 Lubbock, Texas May 23, 2020





TEXAS TECH UNIVERSITY®

SPRING 2020



Saturday, May 23, 2020

9:00 a.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.

LAWRENCE E. SCHOVANEC, Ph.D.

President; Professor of Mathematics and Statistics

MICHAEL L. GALYEAN, Ph.D.

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

BYRON KENNEDY Vice President for University Advancement NOEL SLOAN, J.D., CPA Vice President for Administration & Finance, Chief Financial Officer

JOSEPH HEPPERT, Ph.D. Vice President for Research and Innovation; Professor of Chemistry

CAROL SUMNER, Ed.D.

Chief Diversity Officer and Vice President of the Division of Diversity, Equity & Inclusion

JAMIE HANSARD Vice President for Enrollment Management

TEXAS TECH UNIVERSITY SYSTEM CHANCELLOR / BOARD OF REGENTS

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ACADEMIC OFFICERS

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WILLIAM F. BROWN, Ph.D. Dean, College of Agricultural Sciences & Natural Resources; Professor, Animal and Food Sciences

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JESSE PEREZ MENDEZ, 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 TIM DODD, Ph.D. Interim Dean, College of Human Sciences; Professor of Hospitality Management

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

NOEL ZAHLER, D.M.A. Dean, J.T. & Margaret Talkington College of Visual & Performing Arts; Professor of Music

EARNSTEIN DUKES, M.L.S. Interim Dean of Libraries

PATRICK C. HUGHES, Ph.D. Vice Provost, University Programs and Student Success; Professor of Communication Studies

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

Today, Texas Tech continues to thrive, with more than 38,000 students enrolled in its 11 colleges: Agricultural Sciences & Natural Resources, Architecture, Arts & Sciences, Jerry S. Rawls College of Business Administration, Education, Edward E. Whitacre, Jr. College of Engineering, Honors College, Human Sciences, Media & Communication, J.T. & Margaret Talkington College of Visual & 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.







































INCE 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.

Saturday, May 23, 2020 9:00 a.m.

Presiding	Dr. Lawrence Schovanec President, Texas Tech University
National Anthem	Rebecca Wascoe-Hays, Soprano; Alice Ann Light, Mezzo soprano Gregory Brookes, Baritone; Gerald Dolter, Bass Baritone; Hideki Isoda, Producer School of Music
Welcoming Remarks	Dr. Tedd L. Mitchell Chancellor, Texas Tech University System Mr. Christopher M. Huckabee Board of Regents, Texas Tech University System
Introduction of Commencement Speaker	Dr. Lawrence Schovanec
Commencement Address	Mr. Patrick Mahomes Kansas City Chiefs Quarterback, Super Bowl LIV MVP
Student Speakers	Ms. Alicia Goodman Graduating with a Doctorate in Fine Arts Ms. Keira Eynon Graduating with a Bachelor of Science in Human Science
Conferring of Degrees	Dr. Lawrence Schovanec Dr. Michael Galyean Provost and Senior Vice President
Presentation of Degree Candidates	 Dr. Mark Sheridan Vice Provost for Graduate and Postdoctoral Affairs; Dean, Graduate School Dr. William Brown, Dean, College of Agricultural Sciences & Natural Resources Prof. Jim Williamson, Dean, College of Architecture Dr. Brent Lindquist, Dean, College of Arts & Sciences Dr. Margaret Williams, Dean, Jerry S. Rawls College of Business Administration Dr. Jesse Perez Mendez Dean, College of Education Dr. Al Sacco, Jr., Dean, Edward E. Whitacre, Jr. College of Engineering Dr. Michael San Francisco, Dean, Honors College Dr. Tim Dodd Interim Dean, College of Media & Communication Dr. Noel Zahler, Dean, J.T. & Margaret Talkington College of Visual & Performing Arts Dr. Patrick Hughes, Vice Provost for University Programs and Student Success (presenting University Studies and Wind Energy degrees)
Recognition of Outstanding Students Class of 2020	Dr. Michael Galyean
Charge to the Graduates	Dr. Lawrence Schovanec
Alma Mater (Words on Back Cover)	Ms. Anna Lynne Tesh Graduating with a Bachelor of Music
Closing of Ceremony	

Saturday, May 23, 2020 9:00 a.m.

Welcoming Remarks	Dr. Tedd L. Mitchell Chancellor, Texas Tech University System Mr. Christopher M. Huckabee Board of Regents, Texas Tech University System
Commencement Address	Mr. Patrick Mahomes Kansas City Chiefs Quarterback, Super Bowl LIV MVP
Student Speakers	Ms. Alicia Goodman Graduating with a Doctorate in Fine Arts Ms. Keira Eynon Graduating with a Bachelor of Science in Human Science
Dean Message to Graduates	 Dr. William Brown, Dean, College of Agricultural Sciences & Natural Resources Prof. Jim Williamson, Dean, College of Architecture Dr. Brent Lindquist, Dean, College of Arts & Sciences Dr. Margaret Williams, Dean, Jerry S. Rawls College of Business Administration Dr. Jesse Perez Mendez Dean, College of Education Dr. Al Sacco, Jr., Dean, Edward E. Whitacre, Jr. College of Engineering Dr. Mark Sheridan Vice Provost for Graduate and Postdoctoral Affairs; Dean, Graduate School Dr. Michael San Francisco, Dean, Honors College Dr. Tim Dodd Interim Dean, College of Media & Communication Dr. Patrick Hughes, Vice Provost for University Programs and Student Success (presenting University Studies and Wind Energy degrees) Dr. Noel Zahler, Dean, J.T. & Margaret Talkington College of Visual & Performing Arts
Faculty/Staff/Alumni Message to Graduates	College of Agricultural Sciences & Natural Resources College of Architecture College of Arts & Sciences Jerry S. Rawls College of Business Administration College of Education Edward E. Whitacre, Jr. College of Engineering Graduate School Honors College College of Human Sciences College of Human Sciences College of Media & Communication University Programs and Student Success J.T. & Margaret Talkington College of Visual & Performing Arts



 \mathbf{B} y now, the rest of the sports world knows what Texas Tech fans, students, and alumni already knew.

Patrick Mahomes is special.

The record-setting quarterback who came to Texas Tech University as a dual-sport, three-star recruit is now a world champion after leading the Kansas City Chiefs to a Super Bowl championship in February. His name is now everywhere, and in his third year as a pro football player, he graces the cover of the Madden 20 video game.

From his 80-yard throws to his no-look passes, Mahomes has become one of the best players in the world, and his highlights are must-see TV on a nightly basis. Still, through all the attention and rise to stardom, he has remained the same humble, down-to-earth player who arrived in Lubbock in 2014.

It's been quite a ride for a kid from Whitehouse, Texas.

The son of former Major League Baseball pitcher Pat Mahomes, Patrick came to Texas Tech after a standout career at Whitehouse High School in both football and baseball. He did, briefly, play both sports for the Red Raiders, spending the 2015 season on the Texas Tech baseball team before deciding to give up baseball and focus on his football career.

That focus paid off. After playing in seven games as a freshman and throwing for 1,547 yards and

16 touchdowns to just four interceptions, Mahomes took over as the starting quarterback for the Red Raiders for the 2015 season and immediately lit the college football world on fire.

As a sophomore, he led the Big 12 Conference in pass completions (364), pass attempts (573), passing yards (4,653), and passing touchdowns (36). He also rushed for 456 yards and 10 touchdowns to lead the conference in all-purpose yards.

As a junior, he took the next step. He led the entire NCAA in passing yards (5,052) and total yards (5,537) while again leading the Big 12 in completions (388), attempts (591), and touchdowns (41). His playmaking ability made him one of the top selections in the 2016 NFL draft, and the Kansas City Chiefs moved up in the draft just to select him at No. 10 overall.

After sitting for his rookie season, Mahomes took over as the Chiefs' starting quarterback for 2017 and immediately sat the sports world on its ear. He picked up where he left off in college, making the pro game look easy by throwing for 5,097 yards and 50 touchdowns—both Chiefs single-season records—in leading Kansas City to the AFC Championship game. For his season, Mahomes was named the NFL Most Valuable Player.

With expectations rising, Mahomes rose as well to the challenge while also overcoming adversity. He injured his knee in the middle of the season but missed just two weeks, returning to lead the Chiefs to their fourth straight division title and a first-round bye in the playoffs. Kansas City routed Houston then avenged an earlier loss to Tennessee to reach the Super Bowl, where Mahomes led the Chiefs to 21 straight points in the final nine minutes of the game to rally for a 31-20 victory. For the effort, Mahomes was named Super Bowl MVP.

And he's just getting started.

STUDENT SPEAKERS



licia M. Goodman has completed a Ph.D. in Fine Arts - Theatre \mathbf{A} with foci in Arts Administration and History/Theory/Criticism. Her dissertation focuses on transatlantic arts management practices, organizational behavior, and tandem management in the arts. Her research interests include theatre administration/management, arts administration education, arts advocacy, intersectional representation of gender in mass media, popular culture violence, stage combat pedagogy. She has presented her research in Scotland, Sweden, Bermuda, and around the United States. Alicia has published her research and presented peer-reviewed papers at international and national conferences. Her first co-edited anthology will be published by MacFarland & Company later this year. By day, Alicia is an academic, but, by night, she is a fight choreographer for the stage, an Advanced Actor Combatant with the Society of American Fight Directors, and an Actor Combatant with the British Academy of Stage and Screen Combat; she has over 10 years of experience in designing theatrical violence and teaching stage combat. Alicia has taught in Japan and Spain, and will begin her post-graduate career teaching at Indiana State University as a professor of Theatre Management and Administration.



reira Eynon grew up in Longview, Texas, with her loving family. K She is the oldest of four siblings, and from a young age, her parents taught her little sisters, brother, and her that one should never give up and always treat and love others in a way that Jesus loves us all. Keira was in a fatal car wreck on May 31, 2014, that killed her Dad and brother and almost killed her too. She had to learn how to cope with that trauma and also how to live again. It was not easy by any means, but by the grace of God, hard work, determination, and work ethic, she did it! Keira was accepted into Texas Tech University in 2017 and now is graduating in three years and with honors despite the traumatic brain injury she received from the car wreck. Keira wouldn't be the woman she is today if it were not for her amazing family, friends, and of course, Jesus Christ. To everyone who has been a part of her journey, thank you. When asked to leave a word of advice to fellow Red Raiders, Keira said, "No matter what life brings your way, never give up and always know you are capable and strong and can do this." Wreck 'Em Tech!

CONVOCATIONS COMMITTEE

Dr. Courtney D. Gibson, Chair Dr. Marcus Tanner, Co-Chair Mr. Ian Barba Ms. Shellev Barba Mr. Jacob M. Baum Mr. Jordan Bell Dr. Shane Blum Dr. Rhonda Boros Dr. Valerie Borum Dr. Alec Cattell Ms. Luciana C. Cavazos Dr. Julie Chang Dr. Danny Choi Mr. Don Collier Dr. Fanni Coward Dr. John A. Dawson Dr. Audra Day Ms. Esther De Leon Ms. Amiee Dixon Prof. Genevieve Durham Dr. Nadia Flores Ms. Jordan Frierson Dr. Kristi Gaines Dr. Michael Giesselmann Ms. Maggie Gilchrest Ms. Sarah Hatley Mr. Ben Haugland Dr. Vijay Hegde Ms. Laura Heinz Dr. Annette Hernandez Ms. Markicia Horton Mr. Nate Imai Dr. Catherine Jai Mr. Jesse Jou Ms. Jessica Kirschner Dr. Belinda Kleinhans Dr. Erin Marie Legacey Dr. Jonathan Marks Dr. Barent McCool Ms. Sheon Montgomery Dr. Mark Moore Mr. Damian Pantova Dr. Michelle Pearson Ms. Gabi Perez-Hunt Mr. Tom Rohrig Dr. Jhones Sarturi Ms. Courtney Seely Dr. Walter Smith Ms. Stephanie Soto Ms. Carrye Syma Mr. Jake Syma Dr. Leslie Thompson Dr. Susan Tomlinson Mr. Von Venhuizen Dr.Jian Wang Mr. Seth Warren-Crow Dr. Richard Watson Dr. Lynn Whitfield Ms. Feruzan I Williams Ms. Heidi Winkler Dr. Aliza Wong Ms. Kiley Yonavich

COLLEGE READERS

College of Agricultural Sciences & Natural Resources - Dr. Erica Irlbeck College of Architecture – Mr. Darrick Wade College of Arts & Sciences - Dr. Jorge Iber and Dr. David Roach Rawls College of Business Administration -Mr. Derrick Ginter College of Education - Dr. Doug Hamman Whitacre, Jr. College of Engineering -Dr. Ken Rainwater and Dr. Venkatesh Uddameri Graduate School - Dr. Tim Dallas Honors College - Dr. Aliza Wong College of Human Sciences -Dr. Bill Gustafson and Dr. Mitzi Lauderdale College of Media & Communication -Dr. Todd Chambers University Programs and Wind Energy -Dr. Marcus Tanner Talkington College of Visual & Performing Arts - Dr. Bill Gelber

ADMINISTRATIVE

REPRESENTATIVES

College of Agricultural Sciences & Natural Resources - Ms. Macie Williams College of Architecture -Ms. Amy Peterman College of Arts & Sciences -Ms. Kymberli Saldaña Rawls College of Business Administration -Ms. Geleah Sharp College of Education - Ms. Karen Noles Whitacre, Jr. College of Engineering -Ms. Patricia Rodriguez Graduate School - Ms. Vanessa Bara and Ms. Katie Chapman Honors College - Ms. Cheyenne Belew College of Human Sciences -Ms. Ashlee Brown College of Media & Communication -Ms. Julia Heard Witt University Programs - Ms. Kacey Marshall and Ms. Alyssa Wagner Talkington College of Visual & Performing Arts - Ms. Kathy Nordstrom

STUDENT BANNER BEARERS

College of Agricultural Sciences & Natural Resources - Ms. Haleigh Erramouspe College of Architecture – Mr. Jonah Remigio College of Arts & Sciences - Ms. Lilian Pham Rawls College of Business Administration -Ms. Kelsey Olson College of Education – Ms. Sarah Ennis Whitacre, Jr. College of Engineering -Mr. Zachary Hansen Graduate School - Ms. Nancy Dinan College of Human Sciences -Ms. Mari Northcut Honors College Ms. Callie Renee DeWinne Ms. Maryellen Weiser Ms. Reagan Lowrance College of Media & Communication -Ms. Taylor Plate University Programs – Mr. Matthew Goss Talkington College of Visual & Performing Arts – Ms. Gabrielle Walter

AUDIO/VISUAL TEAM

David Hougland, Associate Athletics Director / Broadcast Services Scott Edwards, Lead Communications Engineer Riannon Rowley, Game Day Producer Tanner Fowler, Student Editor

PROGRAM

This program was produced by the Office of the Provost in cooperation with the Convocations Committee and the Office of Official Publications at Texas Tech University, Lindsay Hallowell, Director, and Kaelene Hansen, Senior Editor.

This program is an unofficial list of Spring 2020 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.

CANDIDATES FOR MILITARY COMMISSIONS

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

David Aponik Logan Baldwin Issac Ball Joshua Ball Jordan Bosco Tanner Fleeman Joseph Franco Benjamin Frost Rhiannon Hancock Damian Hoffman Emma Pape Aaron Ramirez Nikolai Voinioff Riley Wilson Wendy Wurmstein The following students are being commissioned as Second Lieutenants in the United States Army:

Angela Contreras Nicholas Davis Robert Dillard James Geesling Neishawn King Caden Love Kristopher MacDowell Ryan Pardo RAngelica Rodriguez Matthew Thaxter Amber Thompson Bailey Walser The following student is being commissioned as a Second Lieutenant in the United States Marine Corps:

Daniel Beasley

GRADUATION HONORS

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

Flora Aleman Alissa Danielle Baldwin Ashley Barriga Brock Garrett Boozer **Barron James Bryant** Hailey Christine Buegeler Mary Katelynn Butler Kylee Marie Dacy Braden Jon David Darrow **Benjamin Charles Donet** Jacey Snapp DuBois Sarah Elizabeth Ennis Haleigh Marie Erramouspe Kristina Maria Flematti Brooke Ann Galvan Victoria Garcia

Matthew Goss Zachary James Hansen Monica Claire Haugen Maeley Jo Herring Joseph Franklin Hinnant Linh Huynh Garrett Robert Jenkins **Trevor Johnson** Amar Nilesh Kalidas Brian Alexander Kueck Patrick James Leland Lars Austin Lindgren Lane G. MacDougall Eslam Mohamed Mahfud El Zuwawi Zachary A. Mason Kimberley Jeanne McGlone

Cylie Michelle Mebane Meg Mary Meliet Adrian Matthew Miller Matthew Richard Monroe Arusha Rehan Herath Mudiyanselage Mi Nguyen Kieu Nguyen Kelsey Camille Olson Thomas H. Petruy Floyd Andrew Pirtle Taylor Shea Plate Jeyson Keith Price **Micah Rainey** Claudia Elizabeth Ramirez Martinez Brenda Lynn Reimer Amy Elizabeth Reed **Clarisa Rios**

Lauren N. Robertson Justin Jerome Rosenthal Rachel Suzanne Saucier Kashley Anna Rozina Seitz Akash Chandra Sharma Abigail E. Sosebee Ella Dane Staskavage Sean Michael Szalczer Brandon W. Trout Chidera Grant Ugwu Gilbert M. Valenzuela Whitney Ann Wheeler Bailey Ann Wilson Elizabeth Ann Zepper 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

EDUCATIONAL LEADERSHIP

Kellv K. Avritt

Dissertation: Military-connected Students: A Multiple Case Study on the Challenges of Mobility and Success in Mathematics Major Professor: Fernando Valle

David L. Finley

Dissertation: Creating Relevance in an Era of School Choice: An Action Research Study of a Change Framework for Public School Districts Major Professor: Joseph G. Claudet

Gabriel H. Gillespie

Dissertation: Building Instructional Capacity in Urban Classrooms: A Design Development Study of Middle School Instruction and Individualized Teacher Coaching

Major Professor: Joseph G. Claudet

Dana Foust-Green

Dissertation: The Impact of Targeted Professional Development for Word Study Lessons to Improve Writing in Grades K-2 Major Professor: Joseph G. Claudet

Stacy Gwenn Johnson

Dissertation: Data-driven Decision Making for Differentiated Instruction Major Professor: Joseph G. Claudet

Heather R. Newman

Dissertation: Dual Language Program Implementation: A Design Study to Leverage Leadership, Professional Development, and Professional Learning Communities when Fostering Change Major Professor: Joseph G. Claudet

Julie A. Sims

Dissertation: Building Teacher Efficacy: Transformative Self Reflection as a Tool for Teacher Growth

Major Professor: Joseph G. Claudet

Dewayne T. Wilkins

Dissertation: Addressing the Impact of Professional Learning Communities on Culturally Relevant Teaching in a Rural K-12 School Major Professor: Joseph G. Claudet

HIGHER EDUCATION ADMINISTRATION

Lindsey A. Douglas

Dissertation: Male Nursing Students' Motivations for Entering, Exiting, or Remaining in a Community College Associate Degree Nursing Program Major Professor: Stephanie J. Jones

Chester Jenke, Jr.

Dissertation: Workforce Training Processes: Perceptions of Community College Workforce Development Administrators of their Community Partnerships

Major Professor: Stephanie J. Jones

Fidelis Ngang

Dissertation: African American Male Students' Perceptions About the Influence of a Minority Male Initiative Program on Persistence and Completion at a Community College Major Professor: Stephanie J. Jones

Tian Oin

Dissertation: Brazilian International Student College Experiences after a Partnership High School Program: A Single Institution Case Study Major Professor: Jon McNaughtan

INSTRUCTIONAL TECHNOLOGY

Cristina Diordieva

Dissertation: Instructional Strategies and Challenges for Language-based Massive Open Online Courses (L-MOOC): An International Investigation

Major Professor: Daniel Kelly

DOCTOR OF MUSICAL ARTS

Jonathon E. Barranco

Dissertation: Rhetoric, Poetics, and Choice in the Cantiones Sacrae of Heinrich Schutz Major Professor: John Hollins

Raquel Faye Bruening

Dissertation: Music Theory Fundamentals: A Workbook for Clarinetists in the Private Lesson Setting Major Professor: David Shea

Nicole E. Cherry

Dissertation: George Augustus Polgreen Bridgetower: Beethoven's "African Prince" and His Contribution to the Nineteenth Century Classical Music Cannon

Major Professor: Annie Chalex-Boyle

Robert O. Devet

Dissertation: MISSA Commemorationis Omnium Fidelium Defunctorum with Analysis and Discussion of Text Setting in Masses for the Dead Major Professor: Peter H. Fischer

Alex Joseph Hyde

Dissertation: Expanding Vision: The Music of Alyssa Morris Major Professor: Amy Anderson

Catalin Patricia lacob

Dissertation: Elements of Romanian Folkloric Music Traditions and Narrativity in George Enescu's "Romanian Rhapsody Op. 11, No. 1" and Bela Bartok's "Romanian Folk Dances SZ. 56" Major Professor: William Westney

Philip Wayne Ledgerwood

Dissertation: Musicianship from Day One: A Sequence for Teaching Music Theory to Suzuki Violin Students of All Levels Major Professor: John Gilbert

Nathanel Donald Moe

Dissertation: The Development of the Brass Band Movement in North America: An Analysis of the Structure, History, and Condition of Active British-style Brass Bands Major Professor: Andrew Stetson

Elisa Montoya Sanchez

Dissertation: A Guideline for Students to be Better Prepared when Pursuing a Career as a Clarinet College Professor, Clarinet Orchestral Player, or Soloist

Major Professor: David Shea

Matthew Shawn Oneill

Dissertation: A Pedagogical Manual of Freeimprovisation Games and Pieces for Teaching Music

Major Professor: Jennifer Jolley

Lingxu Peng

Dissertation: Thoughts on Fear (and Joy) in The Piano Studio, and Implications for Teachers Major Professor: William Westney

Jorge Arnulfo Ramos Fernandez

Dissertation: A Performance Guide to Three Representative Electroacoustic Piano Works by Mario Davidovsky, Dan VanHassel and Peter Van Zandt Lane.

Major Professor: William Westney

Orlando Ruiz, Jr.

Dissertation: Exploring Roberto Sierra's Rapsodia for Solo Trumpet and wind Ensemble: A Musical Analysis and Performers Perspectives *Major Professor:* Andrew Stetson

Neemias Silva Santos

Dissertation: Considerations in Analyzing and Creating an Edition of Two Late Twentiethcentury Pieces for Solo Cello: Claudio Santoro's "Fantasia Sul America (1983)" and Ernst Widmer's "Cosmofonia 2 (1987)". *Major Professor:* Jeffery Lastrapes

Andrew Charles Schoen

Dissertation: Aaron Copland's Piano Variations: Adaptation for Large Saxophone Ensemble and Considerations for Performance Major Professor: David Dees

Shayna Allyson Tayloe

Dissertation: The Revival of the Golden Age: A Psychoacoustic Analysis of the Evolution of Musical Theatre Singing Styles *Major Professor*: Gregory Brookes

Brooke Elizabeth Trapp

Dissertation: Jazz Pedagogy for the Classical Piano Teacher: Introducing Jazz to Beginning and Intermediate-level Students *Major Professor*: Carla Davis Cash

Yue Zhao

Dissertation: Eastern Exoticism in Western Music: An Examination of Uyghur Folk Songs' Influence in Brahms' Zigeunerlieder Op. 103 Major Professor: Gregory Brookes

DOCTOR OF PHILOSOPHY

AGRICULTURAL AND APPLIED ECONOMICS

Yi Chen

Dissertation: Essays on Economic Feasibility of Irrigation Systems in Cotton Production *Major Professor*: Phillip Neil Johnson

Blessing Ngozi Ugwuanyi

Dissertation: Essays on Trade and Domestic Farm Polices

Major Professor: Ryan Williams

AGRICULTURAL COMMUNICATION AND EDUCATION

Cara Raeschelle Lawson

Dissertation: The Media's Influence on Public Perceptions and Attitudes Toward the Rural Opioid Epidemic *Major Professor*: Courtney Meyers

ANIMAL SCIENCE

Tosha L. Opheim

Dissertation: The Effects of a Novel Direct-fed Microbial on Animal Performance and Carcass Characteristics of Feedlot Cattle *Major Professor:* Markus F. Miller

Martha Marin Siegel

Dissertation: Readiness to Implement the "Food Safety Modernization Act" at Packinghouses and Produce Processors *Major Professor*: Leslie Thompson

Philip Michael Urso

Dissertation: Evaluation of Zinc Methionine and Chromium Supplementation on Rumen Parameters, Amino Acid Uptake, Performance, and Carcass Characteristics in Beef Steers *Major Professor:* Bradley Johnson

Kelly Rose Vierck

Dissertation: Post-harvest Influences on Beef Flavor Development and Tenderness Major Professor: Jerrad Legako

Hailey Nicole Wooten

Dissertation: Glucocorticoid Receptor Agonist (GRA): A Potential Alternative to In-feed Antibiotics for Newly Weaned Pigs *Major Professor:* Anoosh Rakhshandeh

BIOLOGY

Moamen Mahmoud Mohammed Elmassry Dissertation: Pathogenesis of Pseudomonas aeruginosa During Bacteremia: Influence of Trauma Major Professor: Michael J. San Francisco

Sarah Elizabeth Fumagalli

Dissertation: The Evolution of Cooperation Between Unrelated Individuals in Small Groups Major Professor: Sean H. Rice

Kholoud Zaki G Ghanem

Dissertation: Bed Design as a Management Tool Affecting Soil Microbial Dynamics, Community Structure, and Soil Sustainability in a Dryland Cotton Production System *Major Professor*: John Charles Zak

Laramie Louise Lindsey

Dissertation: Utilizing Genomic Applications to Examine Patterns of Diversification in Deermice (Rodentia: Cricetidae: Peromyscus) Major Professor: Robert Bradley

Md Rakib Hasan Rashel

Dissertation: Influence of Water Quality and Climate Variables on Growth of the Harmful Alga, Prymnesium parvum Major Professor: Reynaldo Patino

Emma K. Roberts

Dissertation: Molecular Evolution and Phylogenetic Importance of a Gamete Recognition Gene *Zan* Reveals a Unique Contribution to Mammalian Speciation *Major Professor:* Robert Bradley

BUSINESS ADMINISTRATION

Sharier Azim Khan

Dissertation: Two Essays in Corporate Finance *Major Professor:* Brett W. Myers

Kshitij Bhoumik

Dissertation: An Approach to Develop Brand Association Networks Using Parity/Difference Maps: Implications for Brand Management Strategies *Major Professor:* Mayukh Dass

Casey Ann Camors

Dissertation: An Assessment: City Finance Director Characteristics and Monitoring Mechanisms in Relation to Fiscal Performance and Audit Timeliness for Small and Medium-sized Cities *Major Professor*: Andrea Romi

Danielle Gant Booker

Dissertation: Blurred Lines: How Firm-level Messaging Impacts Awareness of Cultural Differences During Review of Component Auditors' Work *Major Professor*: Yi-Jing Wu

Md Tarique Newaz

Dissertation: Implications of the Evolution of Social Network Platforms (SNPs) for Marketing: Two Essays Major Professor: Mayukh Dass

Chunhao Xu

Dissertation: Chief Information Officer Characteristics and Management Forecast Quality *Major Professor:* Derek Oler

CHEMICAL ENGINEERING

Md Shamim Ahmmed

Dissertation: Microfluidic Investigation of the Mechanics of Cancer Cells and Vesicles *Major Professor:* Siva A Vanapalli

Zachary T. Fondren

Dissertation: Thermodynamics and Kinetics of Phase Changes in Energetic Materials *Major Professor:* Brandon L. Weeks

Pouria Nourian

Dissertation: Application of Probe Rheology Simulation Technique in Rheological Characterization of Soft Matter

Major Professor: Rajesh Shrikant Khare

CHEMISTRY

Xue Dong

Dissertation: The Developments and Applications of LC-MS Based Quantitative Methods for Glycomics

Major Professor: Yehia Mechref

Mohammad Nazmul Hasan Khan Dissertation: Understanding the Structural Dynamics of Metallo-β-lactamase, Cystatin Related Epididymal Spermatogenic (CRES) Protein, and Bacterial Inwardly Rectifying Potassium Channel (KirBac1.1) by NMR Major Professor: Benjamin J. Wylie

GRADUATE CANDIDATES

Neill Kim

Dissertation: Tropane Alkaloid Biosynthesis in Erythroxylum coca Involves an Atypical Type III Polyketide Synthase Major Professor: Michael Latham

Ankit Pandey

Dissertation: Crystal: An Algorithm to Find and Plug "Holes" in Potential Energy Surfaces *Major Professor:* William Poirier

Yun Zhou

Dissertation: Studies of Microfluidics for Cell Separation and Analysis Major Professor: Dimitrios S. Pappas

CIVIL ENGINEERING

Saeed Moradi

Dissertation: RecovUS: An Agent-based Model of Post-disaster Household Recovery Major Professor: Ali Nejat

CLINICAL PSYCHOLOGY

Elissa H. Dougherty

Dissertation: An Examination of Adoptive and Fictive Kinship Female Caregivers' Acceptance/ Rejection, Adolescent Early Maladaptive Schemas, and Adolescent Symptoms of Depression *Major Professor*: Catherine C. Epkins

COMPUTER SCIENCE

Akalanka Bandara Mailewa Dissanayaka Mohottalalage

Dissertation: Secure Big Data Analytic Framework with MongoDB and Linux Containers Major Professor: Susan Mengel

Richard Matovu

Dissertation: Power Usage, Motion Sensor and Neural Side-channels on Mobile Devices: Examining Attacks and Countermeasures *Major Professor:* Abdul Serwadda

COUNSELOR EDUCATION

Sarah Ann Dingus

Dissertation: Combat to Community College: Combat Veterans and their Transitional Experiences into Community College Major Professor: Bret Hendricks

Katye R. Galloway-Clark

Dissertation: Perspectives of Protective and Mental Health Service Providers: Exploring the Connection of Child Abuse to Adult Mental Health *Major Professor:* Charles Crews

Shih Han Huang

Dissertation: Intersectional Effects of Racial Colorblindness, Attributions of Poverty, and Multicultural Training on Counselor Trainees' Multicultural Counseling Competencies *Major Professor*: Aretha F. Marbley

Eric Morris Rosen

Dissertation: Clinical Outcomes in Child Welfare Mental Health Major Professor: Bret Hendricks

COUPLE, MARRIAGE, AND FAMILY THERAPY

Tetiana Sukach

Dissertation: Mindfulness-informed Conflict Process in Romantic Relationships: A Grounded Theory of the Female's Perspective *Major Professor*: Stephen Fife

William N. Young

Dissertation: Understanding the Experiences of Endurance Athletes: A Phenomenological Study *Major Professor:* Thomas Kimball

CURRICULUM AND INSTRUCTION

Margaret Rose Colicchio

Dissertation: The Consequences of Using the Impact Cycle as a Coaching Model on Science Teacher Use of Literacy Strategies and Science Teacher Self Efficacy Major Professor: Walter Scott Smith

Julia G. Cuevas-Guerra

Dissertation: The Effects of the Practice-based Coaching Model in Emerging Biliteracy Instruction: A Descriptive Case Study of Early Head Start Mentor Coaches and Caregivers *Major Professor*: Julie Smit

Brett S. Dooley

Dissertation: International Collaborations for Education (I.C.E.) AGE Project and Global Mindedness: How Participation in an International Collaboration Affects Global Mindedness as Compared with Domestic Collaborations *Major Professor:* Walter Scott Smith

Michelle D. Douglass

Dissertation: Examining Teacher Global Citizenship through the Lens of Bandura's Triadic Reciprocity Major Professor: Doug Hamman

Carolanne Russell Grogan

Dissertation: Teaching Evolution in the Deep South: A Mixed Methods Study of the Teachers' Practices for Evolution and the Influence of State Standards, Personal Beliefs, and Challenges to Teaching Evolution Major Professor: Rebecca Hite

Rhonda Elaine Harmond

Dissertation: Gamification in a High School Biology Classroom: A Look at Motivation and Content Knowledge Major Professor: Shirley Matteson

Katherine Street Hoover

Dissertation: Pro-environmental Behaviors in Adolescents: An Exploration of the Influence of Childhood Experiences in Nature on the Environmental Stewardship of High School Students Major Professor: Jian Wang

Lee Kenneth Jones

Dissertation: Students' Perceptions of Scientists in Career Aspirations Major Professor: Rebecca Hite

Tarah Linnette McDonald

Dissertation: The Relevance of Science Education (ROSE): Middle Adolescent Students' Interests, Experiences and Attitudes Towards Science in The Bahamas Major Professor: Rebecca Hite

Jennifer A. Morrison

Dissertation: We are Cultivating the Cherokee Language: Stories of Language Renewal from the Cherokee Nation's Cherokee Master/Apprentice Program

Major Professor: Jeong Hee Kim

Serife Turan

Dissertation: STEM Pre-Service teachers' Experiences of Implementation of the 5E Instructional Model: A Meta-synthesis of Literature *Major Professor*: Shirley Matteson

Richard Carlos Limtuatco Velasco

Dissertation: Voices for STEM Education: Analyzing Advocacy Activities of American K-12 STEM Teachers

Major Professor: Rebecca Hite

ECONOMICS

Anurud Kumara Wijerathne Rankoth Gedara Dissertation: Essays in Routine Employments and Optimal Monetary Policies Major Professor: Xiaohan Ma

EDUCATIONAL LEADERSHIP

Angela Lynn Smetana

Dissertation: Transformative Responsiveness and School Leadership: A Mixed-method Approach Toward Closing Academic Achievement Gaps Major Professor: Fernando Valle

EDUCATIONAL PSYCHOLOGY

Xi Chen

Dissertation: Effects of Scaffolding in Note-taking on Students' Learning Outcomes in an Online Environment

Major Professor: William Lan

Yvette Cortino

Dissertation: School Psychologists Self-efficacy Beliefs: Quality Professional Development, School-based Functional Behavior Assessment (FBA), and Job Satisfaction Major Professor: Tara Stevens

Brian Patrick Kelly

Dissertation: Evaluating a Functional Behavioral Assessment Training Package for School-based Evaluators

Major Professor: Tara Stevens

Esteban Montenegro Montenegro

Dissertation: Improving the Guidelines to Conduct Multigroup Invariance Test in Bayesian SEM *Major Professor:* Todd Little

ELECTRICAL ENGINEERING

Avisek Maity

Dissertation: Development of Highly Sensitive Hexagonal Boron Nitride Thermal Neutron Detectors

Major Professors: Hongxing Jiang and Jingyu Lin

ENGLISH

Nancy Wayson Dinan Dissertation: In the Deep Heart's Core: A Novel Major Professor: Catherine Nicolle Cortese

Jasmine Vashti Bailey Epstein Dissertation: Mysteries Major Professor: John Poch

Kate Osana Simonian

Dissertation: The Cry of the Narcissist: A Novel *Major Professor:* Catherine Nicolle Cortese

Jessica Elizabeth Smith Dissertation: Manhandled Major Professor: Curtis Bauer

William R. Taylor

Dissertation: Underground Wrestling Alliance Major Professor: Leslie Jill Patterson

ENVIRONMENTAL TOXICOLOGY

Olushola Moses Awoyemi

Dissertation: Trophic-level Interactive Effects of Stoichiometric Nutrient Modulation and Heavy Metal Exposure in Algae and Daphnia Major Professor: Gregory Mayer

Fengqian Chen

Dissertation: Enabling in vivo Signaling Analyses via Chemical Genetics and Nanoparticle-mediated Probe Delivery Major Professor: Degeng Wang

FAMILY AND CONSUMER SCIENCE EDUCATION

Jodi Ihnen Gonzalez

Dissertation: College to Career Transition- Social Capital Network Analysis and Comparison of First-generation and Continuing-generation College Students

Major Professor: Karen Alexander

Latoya Nikkole Johnson

Dissertation: Exploring the Self Efficacy of Family and Consumer Sciences Teachers Who Teach Food Science as a Science Credit *Major Professor:* Karen Alexander

FINE ARTS

Alicia Madeline Goodman

Dissertation: Diagnosing Organizational, Financial and Programmatic Dysfunction in a Nonprofit Theatre: A Case Study Major Professor: Mark Charney

John C. Iverson

Dissertation: Performative Counter-memory: A Foucaultian-based Theory of Dramatic Disclosure Analysis for Verbatim Theatre Major Professor: Dorothy Chansky

Rose Winter Phong

Dissertation: Beyond the Audience: Creating Effective Engagement Strategies for Students on the Spectrum in the Theatre Classroom Major Professor: Andrew Gibb

Ashley Danielle Sawatzke

Dissertation: Adaptation, Translation, and Localization: Exploring the Potential of Intralingual Translations *Major Professor:* Dorothy Chansky

GEOSCIENCES

Ethan Lee Backus

Dissertation: Using Trace Element Geochemistry of Carbonate Minerals to Track Metamorphic Processes: Case Studies from the Castner Marble, Texas and the Thermal Aureole of Ballachulish Igneous Complex, Scotland Major Professor: Callum J. Hetherington

HIGHER EDUCATION RESEARCH

Brooke M. Depue

Dissertation: Rational Choice Theory Applied to Higher Education Loans and Post Graduate Employment: A Quantitative Study Major Professor: Jonathan Lyman McNaughtan

HISTORY

Karen L. Milmine Dissertation: Worms, Wounds, and Ecstasy: The Spiritual Disability of Catherine of Siena, Rita of Cascia, and Lucia Brocadelli Major Professor: John Mcdonald Howe

HOSPITALITY ADMINISTRATION

Matthew Bauman Dissertation: Who is the Wine Enthusiast? A Modeling Approach Major Professor: Natalia Velikova

> HUMAN DEVELOPMENT AND FAMILY STUDIES

Jeanne Esther Fyall Cardenas Dissertation: Social Support from Childcare Providers and Maternal Well-being: Finding Relationships that Matter Major Professor: Malinda J. Colwell

Phuong Hoang Le

Dissertation: Computational Thinking: An Exploratory Study Major Professor: Elizabeth Trejos-Castillo

Darla Diane Wittie

Dissertation: Bedtime Strategies Parents Use with their Children and their Effectiveness *Major Professor:* Yvonne Caldera

INDUSTRIAL ENGINEERING

Srikumar Krishnamoorthy

Dissertation: Development of a Biofabrication System for the Fabrication of Viable Cell-laden Tissue Constructs Major Professor: Changxue Xu

Mohammadhossein Saeedi

Dissertation: Developing a Predictive Model of Schedule Estimates for Pre-construction Activities of Transportation Projects *Major Professor:* Milton L. Smith

MATHEMATICS

Lale Asik

Dissertation: Environmental Variations in Stoichiometric Predator-Prey Models *Major Professor*: Angela Peace

MECHANICAL ENGINEERING

Elliot N. Geikowsky Ramirez

Dissertation: A New Generation of Nature Inspired Micro Fibrillar Adhesive Structures with Improved Anisotropic Adhesion Performance *Major Professor:* Burak Aksak

Michael Nkainmbi Bello

Dissertation: Altering Surface Chemistry and Mechanical Properties of Aluminum Nanoparticles to Enhance Reactivity *Major Professor*: Michelle Pantoya

MEDIA AND COMMUNICATION

Vladimir Santiago Arias Sanchez

Dissertation: The Power of Icons: An Eye Tracking Evidence

Major Professor: Zijian Harrison Gong

Duncan Vaughan Prettyman

Dissertation: The Effects of Gender, the Sex of the Avatar, and the Salience of the Sex of the Avatar on Emotional Valence and Arousal *Major Professor:* Paul Bolls

Ann Henry Rodriguez

Dissertation: Selling the University During Halftime: How are University Institutionals Aired During NCAA Telecasts Framed in Order to Appeal to Targeted Fans? *Major Professor:* Shannon Bichard Jonathan Anthony Villarreal

Dissertation: On Jump Scares, Enjoyment, and the Dimensional Theory of Emotion: A Media Psychophysiology Approach to Enjoyment of Horror Video Games

Major Professor: Paul Bolls

Stephanie Nicole Williams Turkowski Dissertation: More than Mouse Ears: Creative Disney Fan Identity and Consumption Major Professor: Robert Peaslee

MUSIC EDUCATION

Hanna Lee

Dissertation: The Effects of Seven Gestural Conditions on Perceptual and Acoustic Measures of Choral Resonance *Major Professor*: Janice Killian

NUTRITIONAL SCIENCES

Kalhara Rashmikumara Menikdiwela Dissertation: Mechanisms Linking Adipocyte Renin Angiotensin System to Obesity, Inflammation, and Endoplasmic Reticulum Stress

Major Professor: Naima Moustaid-Moussa

Shasika Harshani Jayarathne Udahawatte Gedara

Dissertation: Mechanisms of Effects of Tart Cherry in Obesity, Inflammation and Aging *Major Professor*: Naima Moustaid-Moussa

PERSONAL FINANCIAL PLANNING

Preston David Cherry

Dissertation: Personality Traits and Financial Risks Among Older Americans: Living Too Long, Dying Too Early, and Living Too Sick *Major Professor*: Christopher Browning

Christopher E. Crouch

Dissertation: Three Essays on Health Risks of Retirement and Correlates of Retirement Satisfaction *Major Professor:* Charlene Kalenkoski

Reem Hussein

Dissertation: Three Essays on End-of-Life Planning *Major Professor:* Russell James

PETROLEUM ENGINEERING

Saleh A. Ahmed

Dissertation: Investigating Effects of the Ball Configuration on the Gas Throughput Using Partially Curved and Wholly Curved Seat Designs *Major Professor*: Lloyd Heinze

Mahdi Ramezanian

Dissertation: An Experimental Study to Investigate the Effect of Temperature and Pressure on a Modified Design of Gravel Packing with Oil Swelling Rubber Particles and Unconventional Rock Properties

Major Professor: Hossein Emadi

PHYSICS

Kavitha Arur

Dissertation: Black Hole Binaries in our Galaxy: Understanding their Population and Rapid X-ray Variability

Major Professor: Thomas Joseph Maccarone

Paul Nicholas Bennet

Dissertation: Detecting Low Surface Brightness Dwarfs in the Big Data Era *Major Professor:* Thomas Joseph Maccarone

Hira Farooq

Dissertation: Scanning Diffracted-light Microscopy (SDLM) Major Professor: Luis Grave De Peralta

Jigesh Rameshchandra Patel Dissertation: Effects of Anesthesia on Cell Membrane Fluidity and Supersaturation of Sterols Major Professor: Juyang Huang

Ceren Uzun

Dissertation: Optical, Thermal and Crystallization Characteristics of Metallic Glasses *Major Professor:* Ayrton Bernussi

PLANT AND SOIL SCIENCE

Autumn Danielle Acree Dissertation: Contemporary Advancements in Soil Characterization: Geochemical, Morphological, and Spectroscopic Approaches Major Professor: David Christian Weindorf

Joao Paulo Saraiva Morais Dissertation: Effects of Trash and Processing on Cotton Fiber Quality Measurements Major Professor: Eric Hequet

SPANISH

Cheryl R. Maqueda

Dissertation: Heritage and L2 Writing Processes in Individual and Collaborative Digital Storytelling *Major Professor:* Idoia Elola

SYSTEMS AND ENGINEERING MANAGEMENT

Ali Y. Kissai

Dissertation: A Navigation Flight Trajectory Optimization Model for UAVs Operating in the Polar Regions Major Professor: Milton Smith

TECHNICAL COMMUNICATION AND RHETORIC

Nicholas Andrew Carrington Dissertation: Using UX/UCD Methods to Create A Content Strategy Major Professor: Brian Still

WILDLIFE, AQUATIC, AND WILDLANDS SCIENCE AND MANAGEMENT

Kelbi Delaune Trotter

Dissertation: Aquatic Biodiversity in the Pecos River: Investigating Threats, Resources, and New Monitoring Methods *Major Professors:* Allison Pease and Matthew Barnes

MASTER OF ARCHITECTURE

Lean Hatim A. Fathi Cassady Jae Fredriksen Diego Gonzalez Alvidrez Lauren Hunter Peter Joseph Johnson Sawyer Jeanette Desire Kaumeyer Taylor Marlow Lancaster Pedro Jesus Martinez Marisol Martinez Juan Marciano Moya Oscar Olvera Rosalie Perez Margaret Elaine Ragain Andres Rafael Ramos Richard Zamorano

MASTER OF ARTS

ANTHROPOLOGY

Frank Blair Armstrong

Thesis: Conflict in the Nueces Canyon: Archaeological Investigations of the Military Road Site (41RE179)

COMMUNICATION STUDIES

Opeyemi Ajibiike Aladesuyi

Sarah Cathry Majeo Dweik

Thesis: The Rhetorical Failure of Visualizing Palestine's "Uprooted: Olive Harvest" Online Infographic and The Seventieth Anniversary of the Nakba as a Site of Resistance and Remembrance Brenda Elizabeth Fisher

Thesis: Art, Bodies, and Cultural Struggle as Political within "This Is America" and my Experience of "Becoming" as a Mexican Immigrant in America: A Coupling of Rhetorical and Performative Analyses Towards Understanding Marginalized Voices

Chaitra Aniruddha Kulkarni

Mattea Leigh Luckstead

Miranda Lynn McCreary

Thesis: Feminist Explorations of Modern Media: Two Case Studies

Meredith Lyn Moore

Thesis: Rhetorical Constructions of Technology within Film and Television: Savior or Enemy? Matthew Louis Parnell

Thesis: The Rhetoric of the Political Right and White Nationalism

Meghan Marie Parsons

Thesis: PowerPoint as Visual Communication Pedagogy: Relative Differences in Eye Tracking and Aesthetic Pleasure Jack Thomas Seymore

Thesis: Lock the Door and Let Them Carry: A Critical Rhetorical Analysis of Texas Senate Bill 11 and Texas Tech University Policies

ECONOMICS

Shijia Gao Erin Oliver

ENGLISH

Timilehin David Alake Thesis: All the New Things We Learned to Love **Emily Elaine Barrows** Emma Kathryn Brousseau Thesis: Kill the Cowboy Joey Andrew Chavez Claudia Teresa Diaz Mykayla Fontaine Joseph Alexander Hawkins Thesis: Mythology of the Dark Web: Horror Internet Content, The Guise of Validity, and the Danger of Hesitation Katherine Elizabeth Jackson Alfonsina Maria Josefina Lago Mitchell Pearce Milam Thesis: Considering the Forest: Analyzing Defiance and Complacency in Shakespeare's Comedies Shelby Nicole Oubre Thesis: Anti-Nationalism in Shakespeare and Milton: The Unresolved Crisis of Modernity Jamie Darrell Patterson, Jr. Catherine Michelle Ragsdale Marcus Ivan Roberts Steven Tarver Tucker II Thesis: An Intelligent Animal: Humanity and Degeneration in the Works of H.G. Wells Yifan Zhang

EXPERIMENTAL PSYCHOLOGY

Phoenix Rochelle Crane *Thesis:* Empowering the STEM Super Girls: Increasing Female Retention in STEM Fields Through a Comic Book Intervention

HISTORY

Brandon Tyler Collins *Thesis:* Proletarian Spirit, Bourgeois Pocketbook: Thomas A. Hickey and Perceptions of a Socialist Oil Company, 1917-1925

Leah Catherine Frank

Thesis: "There is Such a Happiness in a Secret Well Kept": The Life of a Queer Man in Twentieth Century Massachusetts

Justin Isaiah Salgado

Thesis: Out at the Rodeo: Queer Resistance and Masculinities in the Twentieth-Century American West

INTERDISCIPLINARY STUDIES

Lonzell Gilmore, Jr. Jacob Grace Tara Lynn Peña Trudy Rene Rice

Rosa Adriana Rodriguez Mark T. Stephens

LANGUAGES AND CULTURES

Mourad Abdennebi Yayoi Akita Sarah Alalyani Abdullah Alelyani Jacob Tollak Arstein Yesenia Brambila Lawrence Tafadzwa Chamunorwa Maurice Santos Gonzales, Jr. Blake Zachary Herrera Xinyi Huang Yamato Kitahashi Karina Oliyeira De Paula

MASS COMMUNICATIONS

Jonathan Eric Blackwell Katherine Ann Champagne Savannah Lee Gilbreath Katrina Jo Anna Gonzales William Spencer Hatton Jacob Stanley Howle Kyle William Kopp Veronica Marie Medina Thesis: I Absolutely Love It! Now Here are Some Changes: Critique as a Tool for More Persuasive Graphic Design McKenzi Leigh Morris Nina Alexandria Prince Paloma Alexandria Rappa Gourav Rath Lauren Brooke Stowers Abbey Taylor Whatley

MATHEMATICS

Victoria Allyn Dines-Shorb Seth R. Johnson

PHILOSOPHY

Zachary Michael Crouch Jason Steven Culmone Jordan Matthew Mascari Hossein Mohayeji Nasr Abadi Ali Rezaei Joshua David Steinberg *Thesis:* Black Fire: In Praise of the Bad Chen Wang Siyun Xue

PSYCHOLOGY

Samantha Calhoun *Thesis:* Alcohol Use, Alcohol Expectancies and Evaluations of Expectancies in Intimate Partner Violence in a Hispanic Population

ROMANCE LANGUAGES

Kailey Jade Corpman *Thesis:* Subalternity and Subversion in Senegalese Literature and Film James Paul Haney Anastasia Stephanie Kenessey

Robin Elizabeth Tieperman

Thesis: ¿Cómo Està el Pablo?: Examining Definite Article Use with the Personal Proper Names in Three Regional Varieties of Spanish Yzabel Lyzet Vazquez Philip David Williams

SOCIOLOGY

Md Monir Hossain Thesis: Child Health, Poverty, and Climate Issues in Bangladesh FNU Kamrunnaher Thesis: Does Access to Family Planning Services Vary by the Educational Attainment of Women and Their Partners? Haleigh Megan Larkin Thesis: Religion, Well-Being, and Stigma Paige A. McNeil Brianna Luz Rodriquez Thesis: Runaway Youth: The Complexity of Family

Structure and its Effects on the Decision to Leave

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TECHNICAL COMMUNICATION

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GRADUATE CANDIDATES

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MASTER OF BUSINESS ADMINISTRATION

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Justin Allan Plescha Mathieu Prichonnet Nandini Arunava Ray Collin Joel Rhyne Diego Alberto Rielo Ana Safri Ana Laura Santana Flores Stephan Frank Sayegh Luyao Shi Daniela Sotis Matthew Thomas Streseman Andra Sucilea Jessica Hope Sylvia Julie Anne Telles-Carrizales James Brody Thomas Renu Elizabeth Thomas **Jincy Varughese** Dolph O. Wenzel Jessica Wilkins

MASTER OF EDUCATION

COUNSELOR EDUCATION

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Kelsey Boatwright Elizabeth Rae Botkin Venka Andrene Duncan-Starkey Ann Noelani Hayes Moushon Katie DeLane Negen Ann Sara Rajan Shelby Lea Sharpe Karlee A. Vineyard Educational Leadership Pedro Davila Brittani Michele Juarez Sara Adelaida Martinez Kayla Leigh Ann Northcutt Leah Osborne Joshua Lee Pratt Jesse Carroll Spruiell

EDUCATIONAL PSYCHOLOGY

Joel Christopher Bell Jenny Combest Kristi Lee Cook Tatum Alexis Ezzell Ehsan Ghasemi Ugochi Blessing Iwuji Jesseca Lindse Jackson Ariel Patrice Kirkland Rebekah Elizabeth Miller

HIGHER EDUCATION ADMINISTRATION

Chelsea Nikole Adams Caitlin Flaine Allen Linda Appiah Samuel Baur Thesis: Community College Faculty Perceptions of Professional Development Opportunities to Enhance the Experiences of Online Adult Degree Completing Students Keren Maria Blanco Sandra Castillo Mica Larie Curtis-Wilson Bethany Michele Faulknor Ikran Idris Gudal Tyler Francis Hoenig Alexander David Kissel Ashley Monique Kurtz Alexis Nicole Ortiz Andrew Jean Rowe

INSTRUCTIONAL TECHNOLOGY

Linda Diane Belliveau Kaylee Elizabeth Grandage Taylor Nicole Kohler Paisley Jan Landry Vincent Thomas Matej Sherilyn Lucile Willingham

SPECIAL EDUCATION

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Hannah Elaine Riley Fowler Gloria Gonzalez Jerome Marcus Hale, Jr. Patrick Dennis Healy **Emily Hernandez** Angela Marie Howe Marlee Jackson Stori Lane Johnson Dana Caitlin Kline **Colleen Marie Loutzenhiser** Chelsea Lynn Maloney Patricia Loreen Mcbride Grace McIntosh Erika Lorena Mercado Jamie Renay Metcalf Tracie Lvonne Parnell Christine Lynne Phillips Kathryn Polizzi Daly Elizabeth Rivas Elizabeth Irene Robertson Stephanie Atilano Rojas Lauren Nicole Sammons Ida Schmidt-Bellows Stephanie Ann Smith Monique Stirgus Meghann Laurie Swenson Amy Ellen Tangen Sabrina Arline Thomas Heather Mary Lightfoot Withrow

MASTER OF ENGINEERING

Jose Angel Gutierrez Mae Angeli Ranario Saguil

MASTER OF FINE ARTS

ART

Brianna Nicole Barry Rachel Kahealani Dunn Sahar Fattahi Anthea Maree Patricia Parsons Jami Raelene White

THEATRE ARTS

Ryan David Fay Kelly R. Murphey Lydia Claire McBee Reed Dashanyua S. Robinson Catherine Alexandra Webster Alec Lee Williams

MASTER OF LANDSCAPE ARCHITECTURE Michael L. Hall

MASTER OF MUSIC

Oscar Alpuche-Sanchez Kea Joy Bealsey Levente Koppany Bordas Noah Mackenzie Bruening Briana Lyn Dunn Zhenyu Gao Jacob Allen Garcia Jose Antonio Guzman, Jr. Claire Julia Hagen Howard Casey Keenan Joiner Bruno Lunkes Daria Miskiewicz Paul Michael Vasquez Isreal Adriano Wallauer De Mello Matthew Aaron Wimberly

MASTER OF MUSIC EDUCATION

Laura Ann Flanagan *Thesis:* The History of the Texas Tech University Orchestra, 1925-1964 Jennifer Rios

MASTER OF PUBLIC ADMINISTRATION

Allison Lynn Abel Xiaoou Cheng Bradly Wayne Johnson Nicole Keirsey Sarah Elizabeth Riggs Erik Eduardo Veliz

MASTER OF SCIENCE

AGRICULTURAL AND APPLIED ECONOMICS

Curtis R. Deussen *Thesis:* Optimal Level of Irrigation and Fertilization for Cotton in the Southern High Plains of Texas

AGRICULTURAL COMMUNICATIONS

Jace Callen Fry Cori Jena Hancock

Austin Ray Moore

Thesis: The Influence of Video Production Techniques on Expert Credibility with Rural Land Owners and Managers Jaelyn Y. Peckman

Thesis: Exploring the Influence of the "Gluten-Free" Label Claim on Parents' Food Purchasing Decisions

Maria Yasmin Rey

Thesis: A Case Study on Reauthorizing the Supplemental Nutrition Assistance Program in the 2018 Farm Bill

Clayton Stanford

Larrah LeAnn Welp

Thesis: Influencing Creativity in Agricultural Communications: An Exploration of Influential Factors of Creativity in Agricultural Communications

AGRICULTURAL EDUCATION

Edward A. Cooper Kayla Lorraine Hughes Matthew Thomas Huston *Thesis*: Determining How Livestock SAEs Impact Student Self-Efficacy in Completing Skills Associated with Animal Science

ANIMAL SCIENCE

Eduardo Cordova

Thesis: Effects of Additional Walks and Social Play on Physical Activity and Rest in Shelter Dogs Kendra Rose Dalley

William Thomas Fletcher, Jr.

Thesis: Investigation of Beef Brisket Palatability from Three USDA Quality Grades

Cole Thomas Perkins

Thesis: The Effect of Enhancement with a High-Oleic Sunflower Oil Emulsion on Product Composition, Fatty Acid Profile and Sensory Analysis, in Beef Strip Loins of Varying Quality

Alexsandra Lee Schaubhut

Thesis: Specific Gravity Device Can Predict Bovine Embryo Sex

BIOENGINEERING

Arielle Sike Efotte Indranil Sinha

BIOLOGY

Abbie Leigh Ince

Thesis: Evaluation of Gastric Lavage Methodology on *Alligator Mississippiensis* and Modeling Ontogeny through Differences in Community Structure of the Parasitic Nematodes in the Host's Gut

Erin Rose Kitten

Preston Joseph McDonald

Thesis: Status, Distribution, Morphology and Genetics of *Sigmodon Fulviventer Dalquesti* in the Chihuahuan Desert Ecoregion

Nicole Suzanne Paulat

Thesis: Examining Transposable Elements in Myotis: Distributions and Associated Mutations

Jacob Windsor

Thesis: The Concept of Fitness as Used in Mathematical Models of Evolution

BIOTECHNOLOGY

Emily Kaye Blankenship Srinidhi Devarajan Anthony Xavier Diehl Bruno Federico Ivaldi Yinxue Li Kyle Francis Merry Varsha Ravi Daniela Serrano

CHEMISTRY

Sultan Ahmed

Thesis: GAP Chemistry and its Applications Yuxuan Yao

Thesis: Wigner Sampling, and Simulations of the Unimolecular Dissociation of the Criegee Intermediate and Intramolecular Relaxation of the N-H Bonds in Protonated Trytophan

COMPUTER SCIENCE

Sayima Afra Dheeraj Kumar Cidda Saranya Duggaraju

GRADUATE CANDIDATES

Vinay Jayachandra Reddy Thesis: Assisting Relapse Prevention in Alcohol Addiction Using a Novel Mobile App-Based Intervention: BeSober Chetan Karahalli Srinivasa Jayacharan Kolla Jaturong Kongmanee Hriddhi Kulkarni Anant Vignesh Mahadhevan Reed Macfarland Mauzy Thesis: Parallelizing Neural Networks to Break Physical Unclonable Functions Ashritha Puradamane Balachandra **Rakesh Ramesh** Dewang Bhavesh Shah Krishna Priya Vedala

COUPLE, MARRIAGE, AND FAMILY THERAPY

Katharyn Jayne Ply *Thesis*: Anxiety, Attachment, and Finances: An Actor-Partner Moderation Analysis

DATA SCIENCE

Olabode Ayodeji Abass Oluwasefunmi Evelyn Ajayi Khaza Towfik Akbar Viviana Garrido Andrade Bruce T. Archer Shafia Askari Ewanlen Mark Ativie Modupe Basirat Azeez Gabriela Cadena Paula Agustina Canepa Altagracia Cesaire Christian Bernhard Dreifuerst Alexander Ogehenemega Eghorieta Tomas Daniel Gatica Jarrod Graham John Cody Hale Eric J. Harroun Alan Darrell Harwell Austin Taylor Hummel Brandon Hunter Aqueel Jivan Harsh Jignesh Joshi Srinivas Subramanyam Karnam Aniket Kumar Praveen Kumar Rita Dzeutsop Kwake Nathan Andrew Lara Ashish Kumar Maheshwari **Daniel Martinez** Sean Mcguade **Biram Nicol** Tracy Ifeoma Nwalie Ina Olsanskaja Rilwan Kayode Onimole Valentine Ikem Sinachi Osigboh II Damilola Rukayat Owoade L K Bhagyarekha Paluru Aman Panwar Anusha Papineni Thomas Matthew Patch

Aaron Rode Perkins **Kristan Ramirez** Lindsay Robertson Cindy Sandjo Jeremy Christopher Schneider Timothy Senkungu Corey Shank Anurag Sharma Shalini Singh Neha Singh **Emmanuel Taiwo** Jennifer Lea Taylor Gerald Maurice Thomas **Catherine Torres Leone** Anastasia Trofimenco Ezgi Ulusoy Dogan **Thomas Connor Weiss** Colin Yang

ENVIRONMENTAL TOXICOLOGY

Jessica Louise Herzog *Thesis:* A Parasite Survey of Passerine Birds and Northern Bobwhite Quail (*Colinus Virginianus*) in the Rolling Plains Ecoregion

> FAMILY AND CONSUMER SCIENCE EDUCATION

Juniece Kiker

FINANCE

Alfonso Ailloud Torres Brady Monroe Barham Michael David Clark Braden Cade Daniel **Brent Goodrich** Shelby Dylan Griggs Jacey Guest Azar Hamidi Katherine Rose Harveson Jake Charles Jarvie Benjamin Ernest Kensing Thomas Korankye Payton Rae Lumpkin Michael David Martinec Sean Montgomery Efemena Christina Ogilo Mason R. Perkins Colleen Ryan Ryan Tijerina **Reynaldo Torres Arellano** Sanja Zivkovic

FOOD SCIENCE

Kimberly Layne Cerjan *Thesis*: Evaluating the Effect of Lactic Acid Submersion on Microbiological and Organoleptic Qualities of Lamb Carcasses Vanthana Doraiswamy *Thesis*: Evaluation of Temperature and Time Incubation Methods for the Enumeration of Naturally Occurring Indicator Microorganisms in Ground Pork and Ground Beef

Jorge G. Franco Lopez

Thesis: Efficacy of *Lactobacilus Salivarius* (B28) to Control Foodborne Pathogens in a Variety of Matrices

FORENSIC SCIENCE

Rachel Barnard Connor Harwood Maureen Elizabeth Oliva *Thesis*: Ambient Ionization Mass Spectrometry (AMS): A New Forensic Tool for Adhesive Tape Evidence Discrimination

GEOGRAPHY

Joshua Adam Reinhart Thesis: Using Drone Mounted Multispectral Cameras to Map Fossil Sites

GEOSCIENCES

Cameron Elizabeth Ramsey Thesis: Subsidence Analysis of the Midland Basin and Eastern Shelf of West Texas: Implications for Ancestral Rocky Mountain Timing and Deformation

HORTICULTURE SCIENCE

Elizabeth Louise Allen Iryna Andrenko *Thesis:* Understanding Salinity Tolerance of Select Wildflowers Species in a Hydroponic Setting Emily A. Capule Kurt D. Voigt

HOSPITALITY AND RETAIL MANAGEMENT

Trey Wallace Blankenship Allyson Leigh Jones Noelle Denae Jordan Vivian Anne Nguyen Karli Deanne Scott Lainey Alison Vaughn

HUMAN DEVELOPMENT AND FAMILY STUDIES

Bailey Anderson Jayla Aurielle Head *Thesis*: Relational Religiosity and Communal Coping in African American Romantic Relationships Brooke Leann Loftis Seowon Song *Thesis*: Co-Parenting, Parenting, and Preschool Children's Adjustment

INTERDISCIPLINARY STUDIES

Teresa L. Casper Joseph Daniel Kolpin Ronald Lovell Ross, Jr. Matthew Maguire Temple Monique Yazmene Whaley-Briggs

KINESIOLOGY

Ryan Lanier Andrew Lathrop Shalie Dlayne McAlister Brandon Scott Nunley Siddhi Harish Parab Robert Smith Sydnie Rae White Alandra Williams

MATHEMATICS

Michael Ryan Clines Chathuri Thusharika Sandamali Edirisinghe Arachchige Isanka Upul Udayanga Garli Hevage Gonapeenuwala Vithanage Rohana Kumara Vithanage Justin J. Gonzalez Shadi Lakmini Heenatigala Yuan Hu Rahnuma Islam *Thesis*: Random Walk of Brownian Motion in Non-Linear System

MICROBIOLOGY

Jeanette Nicole Rimbey *Thesis:* Identifying Temperature-Specific Biofilm Adaptations in *Pseudomonas Aeruginosa* Summer Ketron Roark *Thesis:* Expression of CD35 on Human Peripheral CD8 Positive T Lymphocytes

NUTRITION AND DIETETICS

Brett Alan Arredondo Isra N. Bashiti Taylor Nicole Brizzee Tessa Leigh Comstock Valerie Graham Summers Sarah Clark Whitten

NUTRITIONAL SCIENCES

Eduardo Abraham Gonzalez Fernandez Thesis: Prevalence of Eating Disorders and Their Association with a Previously Suffered Concussion Among Student-Athletes at a Power Five Conference University in West Texas

PERSONAL FINANCIAL PLANNING

Ammar Abdulkarim Alsaif Abigail Christian Anderson Amado Arteaga, Jr. Irving Jose Avalos Eleazar Avalos Chance Michael Azbell Jacob Brown Kasey Cantrell Eboni Critton-Wafer Audrey Hannah Cull Aaron Michael De La Cruz Rolynda Dickson Matthew Doyle Michael Ferriso Timothy Foster Tiffany Garman **Collin Thaver Graves** Tyler S. Henderson Nicholas Hernandez Jeremy Herrington Sawyer Horton Elisha Harris Howard V Jacob Patrick Howeth Archibald Robinson Hoxton V Jonathan Ibarra Joseph Alan Johnson Amy Nicole Love Kyle Nicholas Martin Darryl Craig Martin Cynthia Medeiros Nawaz Mehdi Kelsey Melton Christopher L. Mullen Xavier I. Náñez Alexander Nelson Michelle Nguyen Anh Nguyen Marissa Adriana Ochoa Justin W. Odle-Manley Maria Ortiz Giovanni Isaiah Perez Anthony Prinzivalli Aruna Devi Ramasamy Reid Parker Rendon Ashley Geovanny Rodriguez Erick Fernando Rodriguez Giovani Jose Rodriguez Martinez Tim Ryon Jonathan Schlieszus Alexa Fuller Situ Kimberley Ann Siu Jennifer Smith **Crystal Deann Solis Banner Reid Steele** Ashley Stensgard Ryan Tanner William Thompson Kristi Lynn Tomlinson Juan Alfredo Vargas Grant Vlahos **Emerald Ward**

PHYSICS

Arvind Balasubramanian Deven Rajesh Bhakta *Thesis:* Multi-Messenger Study of GRBs and Their Remnants Maik Reddiger Muhammad Bilal Siddique

PLANT AND SOIL SCIENCE

Rohan Orlando Brown *Thesis:* Investigating the Variability of Cotton Production in the USA Taylor Michelle Wright *Thesis:* Interactive Response of Cotton Varieties to Velum[®] Total in Field Infested with *Rotylenchulus Reniformis*

SPORT MANAGEMENT

Jolan Maxime Francois Cailleau Colten Reed Castleberry Jacob Alexander Chastine Cody Coyle Damian Tarik De Santiago Clint James Dye Megan Danielle Escobar Jonathan Ferrant Charles William Gilliard Emily Orras Karen Catherine Penkert Gwenyth Isabel Puente Taylor Layne Sinclair Harrison Hurst Wier Jessica Wilkins

STATISTICS

Dimuth Adeepa Gunarathne Gustinna Wadu Dananjani Madhushika Perera Madiwala Liyanage

WILDLIFE, AQUATIC, AND WILDLANDS SCIENCE AND MANAGEMENT Joshua Bryan Haese Jordan Wagner

MASTER OF SCIENCE IN ACCOUNTING

Karson Lane Bartley Brandi Byrd Alexander John Gumm **Boone Mansfield** Lucille P. Avitia Kali Batchler Brock Garrett Boozer Matthew Charles Brauer Amelia Brewer **Barron James Bryant** Zyler Kade Buchanan James Thomas Caden Janikka Camenforte John Jungmin Cho Brent Cole Evan Zachary Crowe Kenneth Cameron Cunningham Kylee Marie Dacy Adrian De Anda Hayden Dennington Hunter Reed Dennis Keith Michael Depaula Drew Donly Michael Chukwudi Egeonu Samuel Stephen Ernst Fiona Lillian Fahey **Brice Austin Faison** Kristina Maria Flematti **Audrey Francis** Ryan M. Galliger Adam Michael Gaudet Brooke Elizabeth Gayler Kristin Alyse Gentile **Robert John Hallowell**

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Robin Emma Dupre

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MASTER OF SCIENCE IN ELECTRICAL ENGINEERING

Laura Andrea Arce Polanco, Sr. Sarbajit Basu Rabindra Bhatta Thesis: VOLTTRON Based Implementation in Controlling the Battery Energy Storage System of Microgrids Jared Andrew Culpepper Thesis: Fabrication and Packaging of 100 kV Gallium Arsenide Photoconductive Switches Kevin T. Galvan Thesis: The Creation and Simulation of a Risley Prism Assembly Honglin Gong Jon Michael Gresham Austin Tanner Hewitt Thesis: Apparatus for Ignition Testing of Energetic Materials Shadguna Mutyala Faminan Soumaila Tioro Thesis: Crypto Modules for IoT Security Sai Shruthi Voodari

MASTER OF SCIENCE IN ENVIRONMENTAL ENGINEERING

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MASTER OF SCIENCE IN MECHANICAL ENGINEERING

Md Anisul Islam Thesis: Dual Color Bessel Beam Microscopy to Measure Absolute Three Phase Contact Angle of Microparticles Baahir Abiodun Jinadu Rahmatul Mahmoud Thesis: Investigating Biomaterial Fabrication in the Domains of 3D Food Printing and Spinal Implants Alan Williams Irene Jingdong Zhou Carter Houston Brown Hung Kai Ho Thesis: The Effects of Upscaling Fracture Properties in Unconventional Reservoirs Alicia Ju Yiran Liu Thesis: Phase Behavior Studies of Three Major Unconventional Oil Reservoirs for Produced Gas Injection Victor Isioma Monye Farzad Shirani Thesis: Methodology to Estimate Drift Flux Parameters Based on 3D-CFD Two-Phase Flow Simulation Fric Michael Stotts

MASTER OF SCIENCE IN SYSTEMS AND ENGINEERING MANAGEMENT

Ali Bakhshi Thilo Ging Mohamed Mustafa Abdalla Gumaa Derek Ramirez Francisco Torres III

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

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ANTHROPOLOGY Rylie Shea Brooker³ 2nd Major: History Katrina Nicole Contreras Sydney Elizabeth Crowley^{1,4} Madelynn Elizabeth Feagan Ariana Gonzalez Spitaleri³ Maegan Kay Lambright Jesse Eugene Latimer Ana Maria Marrero² 2nd Major: Global Studies Ashlyn Celeste McMillon Ariella Amberly Mendez Melissa Cheyanne Plasencio Estefani Ruiz Catherine Paige Tennison Mykala Denise Ward³ Nicole Kate Wessels³ Madison LyRae Westfall²

BIOCHEMISTRY

Sarah Grace Davis³ Cheyanna Raynea Petty^{1,4}

CHEMISTRY

Robert Michael Barton Sofia Isabela Hamila Salazar Miralles³ *2nd Major: Psychology* Emmy Grace Schniederjan¹ Audrey Ardelia Karen Warner

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Karam Malek Abilmona 2nd Major: Psychology Max Allen Anthony 2nd Major: Political Science Tamiris Lukenia Sebastiao Antonio Jeffrey Daniel Balash Jordan Alfred Bosco **Brandon Douglas Burris** Dalton Kirby Byard Avery Garrison Byerly³ 2nd Major: Political Science Devin Kernan Cook Marcus James Fodor Wade Gavin Gilcrease **Daniel Thomas Harper** Riley Brent Hendricks³ Marcus Joe Cheyenne Hinojosa¹ 2nd Major: English; 3rd Major: Political Science Payton David Juarez Temirlan Kozhakhmetov **Chandler Janes Lee** Zachary Layne Lester Carl Andrew Loop Bryce Austin Matthews 2nd Major: Political Science **Thomas Gregory Martinez** 2nd Major: Sociology Ethan James McQuerry 2nd Major: Languages and Cultures Christian Leonel Mendizabal-Delgado 2nd Major: Political Science Jackson Robert Neill Christian Uche Nwosu 2nd Major: Political Science Sarah Grace Parks Gabriela Celeste Perez-Hunt **Ernest Preston Perry** Hector Ramirez Akhila Madulapalli Reddy^{1,4} Ethan Robert Salisbury² Jackson Christopher Santa Ana Stephen Anselm Satsky Silvestre Saucedo III Adonis Kenneth Solis

Eric Michael Torrez 2nd Major: Languages and Cultures Jacqueline Villalobos Allen Townsend Winmill

ENGLISH

Kaci Leeann Archer Julian David Banuelos Brittany Amber Birch¹ Joshua David Bray Jordon Thomas Butler^{2,5} 2nd Degree: Honors Arts and Letters Sean Dylan Cain 2nd Major: Technical Communication William Gray Chappell² Gaeron Miles Cooley Devin Elizabeth Coronado² Alyssa Grace Dunaway^{1,4} 2nd Major: Psychology Cheyenne Yvonne Ewing² Lydia Danielle Ferris^{1,4} 2nd Major: Spanish Peyton Alexandrea Floyd³ 2nd Major: Technical Communication Holly Michelle Grant³ Elizabeth Anne Groening² Raquel Renee Hubert Sarah Gabriela Huerta^{2,5} Taylor Joann Johnson³ Javonte Dean Jones Joy-Amal Ahmad Kurdi Jacy Jo Mace¹ Forrest Seth Madry Samantha Quinn McCarty³ Sarah Anne Page³ Howard Park A'lyssa-Dawn Gaylene Robbins Adalia Gladys Schenk⁴ Cecilia Rylee Smith^{1,4} 2nd Degree: Chemistry Claire Alanna Smith^{1,4} Bailee Nichole Tanguma¹ 2nd Major: Psychology Elizabeth Paige Thetford³

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Samuel James Benner Robert Garrison Dillard Kevin Alexander James Emma Elizabeth Pape³ Ethan Dale Roberts Brennen Kane Rossi

GLOBAL STUDIES

Hannah Louise Hilliard 2nd Major: Political Science Paulina Cortés Lopez Elizabeth Lopez Caden Marshall Love Adriana Paola Lozano Vizcarra² Ryan Bradford Pardo³ Nishi Patel³ Victoria Ashley Ramirez Shima Shenghi Amber Jordan Thompson² Nikolai Voinoff³ Henry Thomas Whitworth Brenda Gracianie Woolley

HISTORY

Temitayo Ahmed

Colin Micheal Allen Alexis Lane Baird Stephens 2nd Major: Political Science Martha Jocelyne Bejarano-Moreno 2nd Major: Political Science Taylor Shaye Boland Erika R. Couleur Michaela Elise De La Houssaye¹ 2nd Major: Languages and Cultures Walt Samuel Dewbre² Hanna McFarlane Dockter Ernesto Pauda Elizardo, Jr. Jordan Brett Forrest 2nd Major: Political Science Roberto Carlos Gurrola Levi Tanner Hackworth JoHanna Nicole Haiduk¹ **Kendall Taylor Hanner** Michael Joseph Jendrzey¹ Zachary Lee Johnson Colin Kingsley Jones Jenny Quynh Le² 2nd Major: Political Science Swaize Tate Lee³ Isaiah Omar Lopez Diego Gregorio Martinez¹ Morgan Irene McGuire Grey Thomas Parochniak 2nd Major: Political Science Madison Mae Piirto¹ 2nd Major: Political Science Brian Austin Romero Lauren Maenell Ross³ Olivia Rosemarie Rovelli³ Nicholas Ray Russell Jarod Chase Saye Luke Gordon Schlenker Leonard Franklin Sklencar Joshua Rav Slatton³ Morgan Nicole Trout² Emily Rhae Votaw¹ Sally Ann Wood

LANGUAGES AND CULTURES

Sarah Marie Costanza Benjamin Reynaldo Craddock² 2nd Major: Spanish; 2nd Degree: General Studies Maegan Elizabeth Hammill George Anthony Stern, Jr.

MATHEMATICS

Dennis Lane Adams² Alexander Aveia Reginald Oswald Blow, Jr. Lawren Ashley Bokman Reagan Annette Collins^{1,5} Terence Evan Cox **Brandon William Flores** Flynn Wyatt Glover Estefania Ornelas Juarez 2nd Degree: Accounting Shannon Kaylee Keith² Leonel Madrid Claudia Elizabeth Munoz² lyerusalem Negash Femi Emeka Onwuamaegbu Travis Lee Pace⁴ Danae Nicole Race¹ Michael Davis Ratheal **Donald Christopher Russell** Alexandra Maria Sanchez **Dustin LaRue Sheets**

Chancellor Kyle Stephenson Melisa Tejeda Faith Jasmine Vanderburg Alexis Desiree Washington George Loomis Youtt 2nd Major: English

PHILOSOPHY

Connor John Caya¹ Deborah Omolade Gbadebo Victoria Louise Isett Justin Kyle McGallian *2nd Major: Psychology* Tyler Anthony To² Zahriya Iman Zachary

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PSYCHOLOGY

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SOCIOLOGY

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SPANISH

Vanesa Aguilar 2nd Degree: Architecture Briana Isabel Bergerson Cameron A Davis^{1,4} Kaitlin Marie Earley Trevor Wade Evans 2nd Degree: Information Technology Jocelin Suzette Loewen^{3,4} 2nd Degree: Microbiology Adelaida Moreno² Christopher Kyle Owen¹ 2nd Degree: Biology Natalie Reneé Parks^{1,4} 2nd Degree: Microbiology **Emily Nicole Peña** Matthew Josef Penland II Tanya Laney Rosales Nelly Jacquelyn Rubio Rayas 2nd Degree: Biology Angela Christa Russell Kristin Nicole Savidge² 2nd Degree: Family and Consumer Sciences David Nathaniel Strange² Amelia Ann Woolsey^{3,4} Christina Zhu^{1,4} 2nd Degree: Biology

TECHNICAL COMMUNICATION Matthew Alfred Coffern^{3,4} Olivia Nicolette Cruz Emily Elizabeth Newman³ Erica Kay Partida Lauren Ruth Spraggins²

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BACHELOR OF SCIENCE

BIOCHEMISTRY

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BACHELOR OF ARTS

UNIVERSITY STUDIES

Paige Channing Benoit Flora Fujiko Applewhite Aleman¹ Amy Kay Arrington Courtlyn Dawn Barker Lauro Bazan Annalee Victoria Berlin Adam William Bloome Kathryn D Boren Brandon David Bray Courtney Jade Brown Chance Troy Burleson Adrian Muniz Carrasco Fric F Castañeda Kendra Nicole Cathey Brandi Christina Cote Andrew Reid Cox² Landon Todd Dennis Michala Elizabeth Durst² Clayton Osborne Faust Bryan Michael Fisk Andrew Paul Flieg Victoria Alexandria Garcia¹ Colten Jacob Gardner Matthew Scott Goss¹ Nathan David Hampel¹ Breanna Marie Hundley Malik Dupree Jenkins Baylee Elizabeth Jordan Erick Kabuya Kabanangi Artem Kapshuk Erikson Harold Lanning Kelly Marie Lawless Richard Minh Luong **Bianca D Martinez Christoval Martinez** Adrion Jacob Moreno John Moss Blodi Muhametaj Eze Nathaniel Okorie Trevar Ryan Peek Kendal Psutka Carly Nicole Pustejovsky² Zachary L Rheams Jonathan Kemp Rhoads Hunter James Richey Clarisa Rackell Rios¹ **Rayse Wade Robinson** Sarah Ryan John Michael Ryback Guadalupe Salas Taylor Satchell Christian Cole Schkade³ Alexander James Scott¹ Patrick Kyle Smith Rebekah Dawn Steward-Altman **Rey Trevino-Contreras** Gavin Gibbs Walker Michael Carlin Wilson²

BACHELOR OF SCIENCE

UNIVERSITY STUDIES Abigail Amanda Felps Clyde Henry Francis II Nando Enrique Subia Goetz Marin Elise Hansen Matthew Ryan Jadin Sunny Desiree Lazo Kirk Thomas Mason Desmond Desean Moore Tiana Gabrielle Rodgers Nicholas Scott Roy Morgan Love Webb Alexander Thomas Wesling

WIND ENERGY

Gerardo Javier Aguilar³ Jacob Dean Almquist Christian Anthony Alvear Raymond M. Barroso Sara Gabrielle Basinger³ Colton Garrett Totzke **Braxton Taylor Bowers Cristian Estrella Benjamin Trevor Frost** Max Bennett Glover³ Jordin McKall Guzman Lucas Christopher Hastings Alexander Jon Kluge Gregory Fabian Meza Martin Morini Sami I. Moussa Jose Sterson Pena Ndinofina Cody Bryan Neal Jonathan Ornelas Juan Benito Pantoja Brandon Joel Pineda Dalton Lee Shoemaker **Cameron Taylor Steele** Mark Everett Sutton Mason Alexander Walker Michael Wheeler Jacob Mathew Wilson Qiahao Zhong

BACHELOR OF APPLIED ARTS & SCIENCES

Deborah Rachael Gwendolyn Boyd Amy Lynette Rush²

J.T. & Margaret Talkington J.T. & Ollege of Visual & Performing Arts

BACHELOR OF ARTS

ART Marian Grace Herring¹ Katelyn Anne Mays³ Michelle Addisson Thomason

DANCE

Isabella Brooke Gonzales Shawnee Marie Swann Bailey Elizabeth Thames

INTERDISCIPLINARY ART STUDIES Kristen Alexandra Mitchell

MUSIC

Pamela Ruby Urbieta³ Paola Jasmine Urbieta³

THEATRE ARTS

Ethan Will Beam¹ Allaina Charisse Ballesteros Capili³ Kacey Annell Gore Dominic Michael Herring Eric Stephen Maese Makenzie Rhae Patton² Chloe Olivia Pope³ Estevan Raymundo Rivera

BACHELOR OF FINE ARTS

ART

Krishna Buoy³ Estee Raeann Diaz Emily N. Ford¹ Sebastian Gomez Victor Adrian Gutierrez Amy Elaine Herrington Robert Anthony Hilton² Davian-Lvnn X. Hopkins² Ryan Scott Howard² Állison Noelle Ling² Hayley Breanne McCue Carly McMahon Lindsey Kaitlyn Miller Piper Joy Owen Anthony Joseph Peternana Marissa Marie Pozzi Julian Reed Rosas Julianna Rose² Rogelio Saucedo Leslie Marie Schniers Katrina Vail Steed Gabrielle Victoria Walter^{1,4} Olivia McCall Webb

THEATRE ARTS

Cameron Corbet Blackmun Baylee Marie Hale Abraham Millan³ Matthew W. Mosher

BACHELOR OF MUSIC

Madison Leigh Babovec¹ Zachary Tate Barron Andrew Garrett Bernal Jordyn Boyd Jacob Micah Diewald² Anna-Sarah Donnell¹ Hannah Lee Hansard Avery Kathleen Hendrickson^{1,4} Mylon Cecil Johnson² Alexis Leija Patrick William Perry³ Maxim Christopher Phillips William Marshall Pyle² JJ Kawai Quan² David Cedrik Rau Marcela Dominique Reina Ariya Yein Hwa Tai¹ Anna Lynne Tesh Clayton Lee Thomas Rose Ellen Trapp³ Francicso J. Villarroel Huerta Alyssa Lynne Wixson¹

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

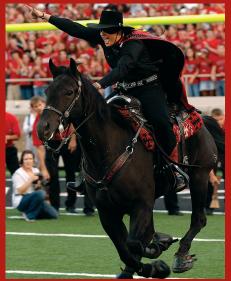
Will Rogers was one of the most famous entertainers in America in the 1920s and '30s, and his longtime friend, Amon Carter, was Texas Tech's first chairman of the Board of Directors. Rogers donated \$200 for the Texas Tech band to play at the football game against TCU in 1926 because he wanted people "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)



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-left quadrant, a book symbolizes religion and academic traditions. A star in the upper-right 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 & Natural Resources was one of the four founding schools of the university in 1924. The college banner was redesigned for use in the May 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 pro-

portions 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, Lead-

ership, 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 Administration 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. The banner symbolizes the impact of globalization in the modern business environment.

The **College of Arts & 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 an adult, 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 & 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. & Margaret Talkington College of Visual & 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 School 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.

earing 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 & Sciences | Royal Blue Business Administration | Royal Blue and Gold Education | Jade Green and Violet Engineering | Orange Honors | Honors Medallion Human Sciences | Maroon Media & Communication | Crimson University Programs | Red Visual & 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 University's May 2020 Virtual Commencement Ceremonies are available at http://www.ttu.edu/livestream/.























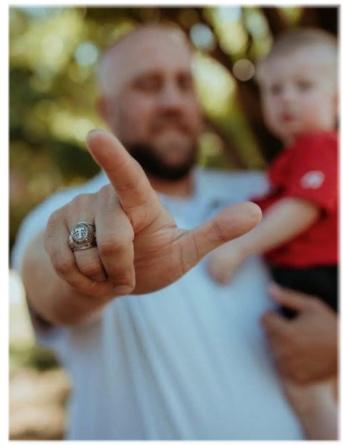


















TEXAS TECH UNIVERSITY°

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 lyrics of the school song, which was penned in 1930. Page from 1936 Student Handbook courtesy of the Southwest Collection.

NORDE ST R C. MARSHALL STUDENT 1930 TIMATADORS HARRY LINARDE BANDMATTER BANDMATTER BANDMATTER TEASE TECH COLLEGE LEASE TECH COLLEGE
β + α g g g g g Fight Mat-a-dors for Tech. Songs of love we'll, β + α g g g 1 g g g g 1 g g g g 1 g g g g 1 g g g g 1 g g g g 1 g g g g 1 g g g g
Sing to thee. Bear our ban-ners far and wide.
Ever to be our pri-de. Fear-less cham-pions ever be.
Stand on heights of vic-tor-y. Strive for hon-or Stand on heights of vic-tor-y. Strive for hon-or Image: Stand on heights of vic-tor-y. Strive for hon-or Image: Stand on heights of vic-tor-y. Strive for hon-or Image: Stand on heights of vic-tor-y. Strive for hon-or Image: Stand on heights of vic-tor-y. Strive for hon-or Image: Stand on heights of vic-tor-y. Strive for hon-or Image: Stand on heights of vic-tor-y. Strive for hon-or Image: Stand on heights of vic-tor-y. Strive for hon-or Image: Stand on heights of vic-tor-y. Strive for hon-or Image: Stand on heights of vic-tor-y. Strive for hon-or Image: Stand on heights of vic-tor-y. Strive for hon-or Image: Stand on heights of vic-tor-y. Strive for hon-or Image: Stand on heights of vic-tor-y. Strive for hon-or Image: Stand on heights of vic-tor-y. Strive for hon-or Image: Stand on heights of vic-tor-y. Strive for hon-or Image: Stand on heights of vic-tor-y. Strive for hon-or Image: Stand on heights of vic-tor-y. Stand on heights of
ev-er more. Long live the Mat-a-dors