

LETICIA H. ANAYA, Ph.D
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EDUCATION:

Ph.D in MANAGEMENT SCIENCE, UNT COLLEGE OF BUSINESS, Denton, Texas.
(Note: Degree highly related to Industrial Engineering.) GPA: 3.81/4.0. Research Area: Data Mining. Dissertation Topic: “Comparing Latent Dirichlet Allocation and Latent Semantic Analysis as Classifiers,” Fall 2011

MASTER OF SCIENCE MANAGEMENT AND ADMINISTRATIVE SCIENCES, UNIVERSITY OF TEXAS AT DALLAS, Richardson, Texas. (Large concentration of Ph.D. Level Coursework in Operations Research.)

MASTER OF SCIENCE, DEGREE IN INDUSTRIAL ENGINEERING. TEXAS A&M UNIVERSITY, College Station, Texas.

BACHELOR OF SCIENCE IN CHEMICAL ENGINEERING, UNIVERSITY OF ARIZONA, Tucson, Arizona.

WORK EXPERIENCE:

1/24 - Present ANGELO STATE UNIVERSITY, DAVID L. HIRSCHFIELD DEPARTMENT OF ENGINEERING, SAN ANGELO, TEXAS, Adjunct Faculty. Teach mechanical engineering courses on a part-time basis.

9/97 – 9/23 UNIVERSITY OF NORTH TEXAS, COLLEGE OF ENGINEERING, MECHANICAL ENGINEERING DEPARTMENT, DENTON, TEXAS.
Clinical Associate Professor and Undergraduate Advisor: Advanced from Lecturer to Clinical Associate Professor while handling other positions at UNT. Teach undergraduate manufacturing and mechanical engineering courses as well as graduate level engineering management courses, develop labs, recruit new students, and conduct seminars. Serve as faculty advisor for senior design projects and advise primarily Mechanical Engineering Technology (MEET) students as well as Engineering Management graduate students. Handle an average semester load is 4 classes and 3 laboratories.

9/15-5/17 University of Texas at Arlington, Industrial, Manufacturing and Systems Engineering (IMSE) Department, Adjunct Faculty. Teach graduate level industrial engineering courses to Master and PhD students on a part-time basis. Taught Operations Research, Product Design, Development, Producibility and Reliability Design, and Linear Optimization. Capable of teaching all graduate level courses in the IMSE Department.

9/13 – 10/15 Interim Latina/o and Mexican American Studies (LMAS) Program Director, UNT. Upon the request of the UNT administration, developed and established the first LMAS program at the University from scratch.. This included leading a committee from six different fields: Anthropology, History, English, Political Science and Dance/Theater; developing a website <http://lmas.unt.edu>, recruiting students/faculty to the program, and establishing the LMAS Kickoff event, and the first ever LMAS Student Conference to showcase career opportunities for LMAS students. Since then, the program has been fully recognized by the University and now offers a

Bachelors degree in Latino Culture, Economics and Policy. The program serves as a recruitment and retention tool for UNT.

- 1/11- 5/13** ***Department Graduate Program Coordinator:*** Manage the Department of Engineering Technology graduate program which consisted of more than 100+ students studying a Master of Science Degrees in four concentrations: Mechanical Systems, Electrical Systems, Construction Management, and Engineering Management. This includes performing recruiting and orientation activities, making admission decisions, and reviewing thesis/projects. Assist students with publications of scholastic work. Under my guidance, the program grew rapidly.
- 9/02-12/2010** **Collin County Community College, Plano, Texas.** Adjunct Faculty. Taught Developmental Mathematics to college students on a part-time basis while working full time for the UNT College of Engineering
- 11/96 –12/99** **DEVRY INSTITUTE OF TECHNOLOGY, IRVING , TEXAS.** Weekend Division Manager. Managed the Accelerated Weekend College which consists of hiring and evaluating faculty, overseeing the budget, evaluating programs, scheduling and developing classes, training instructors, solving academic related issues and coordinating all events related to the Weekend College. Was instrumental in helping the college grow from about 40 students to more than 450 students in less than 2.0 years.
- 9/93 – 12/96** **UNIVERSITY OF TEXAS AT DALLAS, RICHARDSON, TEXAS.** Teacher's Assistant. While attending graduate school, taught upper level college courses in production management and master level operations research courses. Topics covered were: Inventory Control, Quality Control, Linear Programming, and Queuing Theory.
- 6/89 – 1/92** **UNITED STATES ARMY MATERIEL COMMAND, ALEXANDRIA, VA.**
- TACOM, AMSTA-QRA, RAM & Assessment Branch, Warren, MI.** Reliability Engineer. Supported project managers through technical presentations, reports, and reliability/failure analyses of assigned tracked and wheeled military vehicles. Lead engineer in the development of the branch's major RAM-D Summary Report which involved the coordination and supervision of the work output of twelve other engineers.
- 6/89 – 1/92** **School of Engineering and Logistics, Red River Army Depot, Texarkana, TX.** General Engineer. Completed graduate level coursework in software quality assurance, statistics, and reliability. Received training in military regulations and contract law used by the Army to purchase complex military hardware prior to being transferred to TACOM.

PROFESSIONAL ORGANIZATIONS:

Society of Hispanic Professional Engineers DFW Professional Chapter and UNT Chapter
Regional Hispanic Contractor's Association (RHCA)
Society of Women Engineers
UNT Women Faculty Network Leadership Team
American Society for Engineering Management (Faculty Advisor)

AWARDS:

- Eight undergraduate academic scholarships at the University of Arizona.
- Southwestern Bell Fellowship at University of Texas at Dallas.
- American Defense Preparedness Association Outstanding Leadership Award.
- President and organizer of the Society of Hispanic Professional Engineers Student Chapter at the University of Arizona.
- U.S. TACOM Employee, Desert Storm Certificate of Recognition.

- UNT Engineering Week Coordinator Award, 2005.
- UNT Management Science PhD Scholar Award, 2010.
- Professor of the Year Award, UNT Council of Engineering Organizations, February 23, 2012.
- Lifetime Achievement Luna Award sponsored by LUNA AWARDS AND RHCA WOMEN'S BUSINESS CONFERENCE For Women in Engineering, Construction and Architecture, Friday October 28, 2016, Sheraton Dallas Hotel, Dallas, Texas
- Distinguished Decision Making and Problem Solving (MS/OR/Statistic) Paper, 2012 Decision Science Institute, November 20, 2012. (International Recognition out of 91 Technical Papers).
- Featured in national magazine, Latina Style, in article entitled "Latinas Making Their Mark in STEM Fields" by Christina Bolanos. Volume 21, No. 5, page 14. Latinastyle.com/magazine/Latinas-making-their-mark-in-stem-fields
- UNT Women Faculty Network Leadership Team, Non-Tenure Track, Fall 2016 to Present.
- UNT Office for Faculty Success, Academic Affairs Fellowship 2020-2021

ADDITIONAL QUALIFICATIONS:

- Computer literate: MS Office and nine programming languages: (Fortran, SimscriptII, SLAM, GPSSH, Ada, Cobol, Labview, Matlab, Visual Basic, and C++). Familiarity with the CIS program at DeVry.
- High knowledge of simulation methods and techniques.
- Spanish Fluency, Italian Comprehension.
- Technical Writing.
- Trained in military contract laws, standards, and specifications.
- Knowledge of state and federal environmental laws for the RCRA program, and CERCLA (Superfund) program.
- Established the Society of Women Engineers Student Chapter at the University of North Texas.
- Faculty Advisor for the Society of Hispanic Professional Engineers, UNT Student Chapter.
- Established the Society of Automotive Engineers Collegiate Section at the University of North Texas and served as Faculty Advisor
- Established the American Society for Engineering Management at the University of North Texas.
- And has been serving as Faculty Advisor.
- Extensive experience in mechanical engineering prototype development and in acquiring industry sponsorship of senior design projects.
- Re-established the Denton County Boosting, Engineering, Science, and Technology organization to benefit the local high/middle school students through a robotics competition. I have extensive experience in high school robotics and engaging with the local high/middle schools.
- Decision Sciences Institute Membership.
- American Society for Engineering Management Membership.

COURSES TAUGHT AT UNT

1. Dynamics
2. Statics
3. Mechanics of Materials
4. Engineering Materials
5. Thermodynamics
6. Heat Transfer
7. Thermal Sciences
8. Fluid Power
9. Fluid Mechanics
10. Quality Assurance and graduate level course: Product Reliability and Quality
11. Plastics

12. Design of Mechanical Components
13. Design of Machinery
14. Design of Experiments
15. Analytical Methods
16. Product Reliability and Quality
17. Geometric Dimensioning and Tolerance
18. Quality Assurance

ENGINEER IN TRAINING SEMINAR TOPICS TAUGHT

1. Chemistry
2. Dynamics
3. Fluids—Fluid Dynamics and Fluid Statics
4. Mathematics--- Analytical Geometry, Trigonometry, Algebra and Linear Algebra, Calculus
5. Mechanics of Materials

COURSES TAUGHT AT DEVRY

1. Logistics
2. Mathematics
2. Algebra
3. Statistics
4. Economics
5. Computer Applications
6. Quantitative Methods

GRADUATE LEVEL COURSES AT UTA AND UNT

1. Operations Research
2. Probability and Statistics
3. Analytical Methods
4. Linear Programming
5. Design of Experiments
6. Product, Producibility, and Reliability Design