

Lynda Folts, Ph.D.
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Education

Education Doctoral Candidate, Texas A & M Commerce, Commerce,
Texas Scheduled Graduation December 2016

Second Master of Science, Biological Sciences, Microbial Ecology,
Wildlife Habitat Texas A & M Commerce, Commerce, Texas May, 2015

Post Doctoral Certificate, Environmental Science, GIS Applications,
Environmental Field Studies in Habitat & Wind Energy solutions.

University of North Dakota, Grand Forks, ND June 2011

Doctorate of Philosophy, Sustainable Forest Science, Biology, Forestry,
Forest Environment, Human Dimensions, Ecology, Natural Resource
Policy, Hydrology

Stephen F. Austin State University, Nacogdoches, TX December, 2008

Master of Science, Forest Science Resource Interpretation

Stephen F. Austin State University, Nacogdoches, TX August, 2006

Certificate, Strategic Corporate Environmental Research

Cornell University, Ithaca, NY June, 2002

Bachelor of Arts, Education

National Labor College, Silver Spring, MD June, 2001

Bachelor of Arts, Leadership & Administration

National Labor College, Silver Spring, MD June, 2001

Teaching Experience

Colorado Technical University- Online

Adjunct Professor, General Education, Sustainability & Environmental Science, Global Challenges, Energy Materials and Technology

September 2015-Present

University of North Texas- Dallas

Associate Professor, Biological Science, Earth Science, Geography

January, 2012-Present

Biology for Educators, Earth Science, Environmental Science

Dallas County Community College-Richland College

(Online) Associate Professor, Science, Geography

August, 2010-Present

Introduction to Physical Science, World Geography, Physical Geography, Cultural Geography

Tarrant County College District, Fort Worth, Texas

(Online) Associate Professor, Science, Geography

January, 2011-Present

Introduction to Physical Science, World Geography, Physical Geography, Cultural Geography, Introduction to GIS, Cartography and Visualization

Northwood University, Cedar Hill, Texas

Professor, Department Chair, Sustainability & Natural Sciences

August, 2010-Present

Introduction to Environmental Science, Ecology, Special Topics, Sustainable Studies, Geographic Information Systems.

Stephen F. Austin State University, PhD Candidate- Instructor- 2004-2008

Science, Biology, Zoology, Intro to Environments & Habitat, Human Dimensions of Forest Recreation Outreach, Green Building LEEDS

Certification, Wetland Reuse Systems, Epidemiology for Health Sciences, Environmental Law, WEB CT administration, Data Analysis, SPSS, Forested Wetland Delineation, Natural Resource Policy, Resource Interpretation

Society of American Foresters (SAF), Forester August 2007-present

Society of Wetland Scientists (SWS), Women in Wetlands Mentor & Trainer

May 2008-present

National Association for Interpretation, Certified Interpretive Trainer

April 2004-present

Professional Experience

Folts and Associates, Forest Environment Consultant 2000-present

Wildlife Habitat/ Forest and Urban Land Assessment, GIS Analysis,

Human Dimension Surveys Salary: Varies By Contract

Texas Parks and Wildlife Department, Aquatic Education Area Chief

Responsible for delivering aquatic education to employees, school groups, volunteers, and partners groups (USACE, Texas Cooperative Extension) in a 37 county area of North Texas. Salary: 17.18 Hr.

May 1998-2004

TW Recreational Services, Seasonal Employee

Responsible for greeting visitors, conducting interpretive reservoir tours and science classes & customer services at Yellowstone Nat'l Park.

Salary: \$18.50hr/+room

May 1995-2003

Textbook Reviews & Editing

Earth Science Text: Geosystems, 11th Edition, Author: Christopherson, Pearson, Prentice Hall Publishers, August-September 2014 Chapter Review and Editing

Physical Geography: McKnight's Physical Geography 10th Edition,
Pearson, Prentice Hall Publishers, December 2013. Chapter Editor

Ecology: Ecology, 7th Edition, Manuel Molles, University of New Mexico,
December 2012. Chapter Editor.

Publications

Folts, L. (2014, Spring) GIS Applications for Public Services. , *Arc User*,
March 1, 2014, Redlands CA: ESRI Press

Folts,L. (2012, Fall) GIS Applications for Wind Energy. , *Arc User*,
October 1, 2012, Redlands CA: ESRI Press

Folts, L. (2010) Land, People, Water: Connecting future resources with
growing populations. *Proceedings National Meeting; poster and
presentation, National Association for Interpretation, November 17, 2010,
Las Vegas NV.*

Folts,L. (2010) Land People and Water Interpreting Attitudes and
Opinions in the Trinity and Mud Creek Watersheds. *Proceedings;
poster, Society of American Foresters, October 31, 2010, Albuquerque,
New Mexico.*

Folts,L., (2009) Stakeholder attitudes and opinions in the Lake Columbia
valley. *Journal of Forestry, April/May 2009.*

Folts,L. (2009) Stakeholder Attitudes and Opinions. *Proceedings; poster
and presentation, Society of American Foresters, October 1, 2009,
Orlando Florida*

Folts, L., Legg, M., & Kulhavy, D., (2009, August). The Tragedy at
Aldridge. *East Texas Historical Journal, August, 2009.*

Folts, L., Legg, M., Darville, R., Elliott-Howard, F., Kulhavy, D., (2009)
Characteristics of Lake Columbia Landowners. PhD Dissertation Project

Folts, L., Legg, M., Darville, R., & Kulhavy, D., (2006). *Characteristics of
NIPF Landowners in the Middle Trinity River valley.* Nacogdoches, TX:
Master of Science Thesis.

<http://proquest.umi.com/pqdlink?did=1246556861&sid=3&>

Folts, L. & Folts, T. (2004) Mammals of the East Texas Arboretum,

Athens, TX: Fulton Press

Folts, L. & Folts, T. (2004) *City Critters, An urban wildlife program for grades 4-7.* College Station, TX: Texas A & M Press

Folts, L. & Folts, T. (2003) *Birds of the East Texas Arboretum,* Athens, TX: Fulton Press

Folts, L. & Folts T. (2002) *Texas Water for Life, A water conservation curriculum for grades 4-7.* Dallas, TX: Be Gone Press

Certifications

Wildlife Society, Certified Wildlife Biologist

Society of American Foresters, CCF

National Association for Environmental Professionals

EPA Watershed Steward Program Instructor

Society of Wetland Scientists, Professional Wetland Scientist

National Association for Interpretation, CIT, CIG, CIH

Trinity River Basin Conservation Foundation

Coastal Navigation Certificate Canoe and Kayak (U.S. Coast Guard)

Project Wild, Aquatic Wild, Macro invertebrate Program (TPWD),

Project Wet, Project Learning Tree (TFS),

Leopold Education Project, Wild About Wetlands.

Specialized Training & Publications

Certified Blackboard Educator

Environmental Training Program Development- Authored, Texas, Water for Life book & Pod Casts, City of San Antonio, Texas

Instructional System Design for Environmental programs

City Critters, City of San Antonio, Texas

Experience with Dispute Resolution Procedures

ArcGIS Analyst Training

Certified Forester (SAF)

OSHA Certified Aerial Lift Training

OSHA Certified Scissor lifts Training

Use of Windows, Excel, Front page, PowerPoint, SPSS, Adobe Design
Extensive education in producing and delivery of informal programs
Developing Legislative Contract Language
Use of Microsoft Data systems
Leadership Dynamics-Jack Dougherty Seminar
The Dale Carnegie Course
Contract interpretation and administration
Problem Solving for Progressive Solution
Grievance Evaluation Skills (win or no win)

Presentations & Institutional Service

Tree Campus USA & Firewise USA Programs- Northwood University, Texas Campus, August 2012- Present – Instrumental in maintaining Tax Free Status for Texas Campus Acreage.

Advisor: EOS Environmental Science Organization- University of North Texas at Dallas, August 2014

Advisor: Sustainability Organization- Northwood University, Texas Campus, September, 2012-May 2014

Sierra Club National Conference, October 2014, Convention Presentation: Earth, Wind and Fire, the Future of Texas. Kay Bailey Hutchinson Convention Center, Dallas, Texas.

Society of American Foresters, October 2014, Convention Presentation, Charleston, South Carolina. Trinity River NIPF Landowner Preferences- Trinity River Basin Conservation

National Association for Interpretation, November 2010, Land, People, and Water: Connecting future resources with growing populations. Proceedings National Meeting; poster and presentation, Las Vegas NV.

Society of American Foresters, October 2009, April 2009, Feb.2009 Convention Presentation, Orlando, Florida. Trinity River NIPF Landowner Preferences- Trinity River Basin Conservation Foundation Annual Meeting & Quarterly Meetings

Entomology for East Texas Birders- E. Texas Audubon Society, Feb, 2009

Texas Parks and Wildlife Department; Instructor: Project Wild, Aquatic Wild - 37 Counties Across Texas 2000-Present

Texas Forest Service; Instructor: Project Wet, Project Learning Tree 2000-Present

Aldo Leopold Foundation: Instructor: Leopold Education Project- 2004-Present

United States Environmental Protection Agency, Instructor:
Wild About Wetlands. 2000-Present

Butterflies of Texas, Presentation for East Texas Audubon Society, Twice Yearly 2008-Present.

Awards and Honors

Cambridge University- Who's Who of American Scholar's

2010 Distinguished Women

Summa cum Laude, Graduate, Stephen F. Austin State, Master's Degree

Magna cum Laude, Graduate, Stephen F. Austin State, PhD

Member Gold Key Honor Society

Member- Xi Sigma Pi Forestry Honor Society

Boards & Community Leadership

Trinity River Basin Foundation Member

State of Texas-Trinity River Environmental Flows Scientific Committee

Research Experience

Stephen F. Austin State University, Masters Thesis and PhD Dissertation research involved landowner attitudes, behaviors and education as well as reservoir construction in the States of Texas and Florida. Focus on the Trinity & Neches River Watersheds and Approved Reservoir Construction Legislation and establishment of Lake Columbia in Smith & Cherokees Counties Texas scheduled for completion in 2012. Working with landowner wetland, bottomland & grazing opinions, water supply issues and eminent domain subjects regarding property rights and transactions related to the construction of a water supply reservoir supervised by the Angelina Neches River Authority and the United States Army Corps of Engineers.

Additional research includes fifteen years of Colonial bird observation and data collection on Cedar Creek Lake Islands WMA with volunteers and Dr. Ray Telfair (retired TPWD biologist). Extensive study of nesting habits and tagging of Heron, Cattle Egret, Wood Duck, Merganser, Black Bellied Whistling Ducks, on the lake. Extensive data collection assistance is given to Texas Parks and Wildlife Department and private landowners in the Trinity River Basin area.

Professional Association Memberships

The Wildlife Society, Certified Wildlife Biologist

SAF-Society of American Foresters (CCF)

SETAC-Society of Environmental Toxicology and Chemistry

SWS-Society of Wetland Scientists (Wetland Delineation, Women in Wetlands)

NAI-National Association for Interpretation (CIG, CIT, CIH)

Gold Key Honor Member (Summa cum Laude)

Xi Sigma Pi Forestry Honor Society (Summa cum Laude)

Stephen F. Austin State Alumni Association

Teaching Statement

I have designed an ambitious number of classes, all of which are united in encouraging students to understand and appreciate the role of different disciplinary and analytical lenses in shedding light on important problems and challenges faced by those wishing to influence forestry, environmental and natural resource management.

A common theme for my classes is teaching students the distinction between observation and explaining versus prescribing. I urge students to first become “scientists” by seeing, doing, describing and explaining the processes in which they are involved. Such an approach often paves the way for thought invoking action for development of innovative policy prescriptions – discoveries crucial to the future of forestry, conservation and environmental management. I would also devote considerable attention as a thesis advisor on topics including the development of community inclusive policy networks for undertaking issues of legality, climate change science and policy, private influence in forestry and fisheries sectors, corporate environmental information reporting responsibilities, and research on improvement of fragmented global natural resource and environmental governance.

COURSES TAUGHT/EXPECT TO TEACH

Graduate Courses

Human Dimensions in Natural Resources and the Environment (HDNRE)

1. Integrated Perspectives in Human Dimensions of Natural Resources and the Environment. 3 credits: 3 hours lecture Introduction to the integration and application of interdisciplinary concepts to contemporary natural resource and environmental issues and management.

2. Human Dimensions in Natural Resources and the Environment Colloquium 3 credits: 3 hours lecture Professional socialization and training, development, and assessment of meta-theoretical frameworks and cohort building.

3. Microbial Ecology, 3 credits: Concepts of ecology applied to microorganisms; methods in microbial ecology; interactions of microbes with their living and non-living environment; microbial habitats and functions. Roles and regulation of microbes in natural and man-made environments, from cellular to community level. Prerequisite: Ecology or instructor's consent (based on proven background in both microbiology and ecology).

Undergraduate Courses

Learning Communities

Biology 1132 & English 1403: 3 Credits

Interdisciplinary approach to understanding basic concepts in environmental science and community laboratory including critical scientific thought, biodiversity, resource management, pollution, global climate change, resource consumption and population growth. Emphasis on environmental concepts affect and are affected by human society in all aspects. Includes laboratory and learning community joint classes with English 1403 and extensive writing.

Study Abroad: Environmental Study in Belize & Humanities 3 credits: Field Course

A broad presentation of environmental science, integrating technical and social concepts and issues as they relate to the Belizean environment. The ecological, economic, social, and ethical aspects of current issues are scrutinized from a scientific base.

Prerequisite: Introduction to Environmental Science

Study Abroad: Environmental Study in Asia & Humanities 3 credits: Field Course

A broad presentation of environmental science, integrating technical and social concepts and issues as they relate to the Asian environment. The ecological, economic, social, and ethical aspects of current issues are scrutinized from a scientific base.

Prerequisite: Introduction to Environmental Science

Global Environmental Governance Across Countries & Biogeography

3 credits: 3 hours lecture This course surveys the major theories of the policy process and assesses them against empirical case studies drawn from both developed and developing countries. The focus of this class is to assess the proliferation of policy innovations aimed at promoting and encouraging corporate social responsibility. The class definition includes the broad and diverse range of self and civil regulation, voluntary instruments, private authority and non-state market driven initiatives that have emerged in the last 15 years to engage firms directly, rather than working through traditional governmental process. Firm level initiatives, industry codes, product codes, third party certification, ethical brands and labels and "clean" investment funds are discussed. A review of the growing literature on these phenomena that now exists within recreation, management, economics, sociology, environmental policy, and law. The intent is to reflect on the broader state of knowledge and emergence questions that have arisen from research and how, these initiatives might address enduring policy problems where traditional governmental approaches have been ineffective

Undergraduate Courses

1. Biology for Educators 3 credits: 3 lecture hours, 2 lab hours

Develop a meaningful and functional command of key biological concepts; an understanding of the interrelationships among all living things; and a correlation between what pre-service teachers are required to learn and what they will be required to teach. Includes laboratory. BIOL 5082 is a general biology course with laboratory designated for elementary and middle school education majors for seeking teacher certification.

2. Earth Science 3 credits: 3 hours lecture Students study and become familiar with the earth's processes, geology, indigenous plants, animals, and various ecosystems representative across the World, and identify the relationships involved between the living and nonliving factors in their environment.

3. Introduction to Environmental Science 3 credits: 3 hours lecture

This course focuses on an economic approach to problems of evaluating the private and social benefits and costs of altering the environment. Emphasis will be placed on the problems associated with determining and maintaining acceptable levels of environmental quality. These problems will deal with the interactions between individuals, institutions, technology and the environment.

Students study and become familiar with the geology, indigenous plants, animals, and various ecosystems representative of the region, and identify the relationships involved between the living and nonliving factors in their environment.

4. Physical Geography 3 credits: 3 hours lecture This course is designed for college level introductory Earth science students and is intended for geography majors and non-major students who have not had previous science courses. The instructor uses lecture, discussion, demonstration, multi-media (including computers), and world-wide-web to familiarize students with the nature and properties of earth materials, geological processes and the development of landscapes.

5. World Geography 3 credits: 3 hours lecture Course will introduce students to the history, concepts, principles, and management of World continents activities and global development which promote awareness and local economic benefits with an emphasis on non-western cultures.

6. Cultural Geography 3 credits: 3 hours lecture A broad presentation of World cultures, integrating technical and social concepts and issues as they relate to the global environments. The ecological, economic, social, and ethical aspects of current issues are scrutinized from a cultural base.

7. Ecotourism 3 credits: 3 hours lecture Course will introduce students to the history, concepts, principles, marketing, planning and management of ecotourism activities and development which promote cultural and environmental awareness and local economic benefits with an emphasis on non-western cultures.

8. Ecology 3 Credits: 3 hours lecture Students study and become familiar with the geology, indigenous plants, animals, and various ecosystems representative of the region, and identify the relationships involved between the living and nonliving factors in their environment.

Prerequisite: Introduction to Environmental Science

9. Climate Change 3 credits: 3 hours lecture

Examines the current scientific knowledge of climate change and its implications for society as a whole. Specific topics will include: energy balance, components of climate, measuring climate and modeling climate. The consequences of climate change, from biological, social and economic perspectives will also be examined, as well as political, corporate and individual responses to this issue.

10. Biodiversity 3 credits: 3 hours lecture

Examines the three components of biodiversity: species diversity, genetic diversity, and ecosystem diversity, including the implications and impacts that human activities are having on each of them. Specific concepts of evolution, speciation, adaptive radiation, biogeography, and ecology will also be addressed. The value of biological diversity will be examined from both an economic as well as an ecological perspective.

11. Tropical Natural History 3 credits: 3 hours lecture

Examine the various tropical ecosystems of the world with a primary focus on the neotropical rainforests. Examines the climate, geology, geography, ecology, biodiversity, economic potential, and environmental concerns of these ecosystems. Their values, including ecological, economic, and cultural, will be examined in order to establish a framework to understand the urgent need for their conservation for future generations and the health of the planet in general.

12. Natural Resources Policy Analysis and Administration. 3 credits: 3

hours lecture This course provides a investigation of public policy theory and practice, related to development and implementation of environmental and natural resources. The course examines the history of environmental policy; broad theories of policy structure and applied techniques in policy analysis and evaluation. The course is intended to provide a theoretical and practical introduction to environmental public policy. Use of GIS and SPSS analytical software allows students completing this course to understand the political environment within which public policy is formulated, the role of innovative ideas, science and learning as well as demonstration of basic technical competence in development and implementation of such policy.

13. Forest Policy. 3 credits: 3 hours lecture This course explores forest policy, government and private governance systems and their influence on forest resources from local as well as global perspective. The course accentuates the influence of the increasingly globalized nature of forest resource policy in North America. Students assess the source and scope of steadily growing private forest land management, and emerging non-governmental organizations in North

America, Europe, and internationally. The course includes attention to trade conflicts including the US-Canada softwood lumber trade dispute.

14. Forest Certification 3 credits: 3 hours lecture This class is designed to address and assess the role that forest certification has played in advancing sustainable forestry. The class begins with the institutional and policy aspects of forest certification, and finishes with an on the ground tour of a certified forest and a presentation for auditors about the challenges and opportunities in assessing sustainable forestry operations.

15. Cartography and Visualization, 2Credits: This course examines the art, science and technology of cartography. It familiarizes students with basic cartography principles and GIS, both of which are applicable to a wide range of professional fields as well as academic disciplines. Students learn map design and effective use of spatial relationships as well as proper thematic mapping techniques.

16. Cartography and Visualization LAB, 1Credit: Students apply concepts learned in class to produce accurate, well designed maps using GIS software.

17. Introduction to GIS, 2 Credits: This course examines the nature of raster and vector data models and analytical capabilities and products which they bring to bear on the solution of geographic problems. It familiarizes students with basic principles and GIS use, which are applicable to a wide range of professional fields and academic disciplines.

18. Introduction to GIS LAB, 1Credit: Students apply concepts learned in class to produce accurate, well designed maps using GIS software.

19. Advanced Techniques in GIS, 3 Credits: An advanced course designed to extend GIS knowledge and prepare students to become effective GIS analysts. The course follows a hands-on problem solving approach that combines student interests with analytical needs.

20. Directed Study in Geographical Problems, 3 Credits: A capstone course in which students demonstrate GIS skills and knowledge acquired through the completion of a project.

FUTURE TEACHING PLANS

In addition to refining and updating the above classes, I also wish to develop Online & Hybrid Sustainability, Biology, and Epidemiology programs geared toward a multi-disciplinary Sustainable Biology perspective. These classes would complement the teacher, medical and natural resource professional's skills and further their insights and contribution to environmental solutions, directly or indirectly as related to varied professions.

Graduate Programming

Sustainable Conservation Biology & Chemical Ecology, 3 Credits:

Interdisciplinary approach to understanding basic concepts in Conservation Biology and Chemical Ecology including critical scientific thought, biodiversity, resource management, pollution, global climate change, resource consumption and population growth. Emphasis on how these concepts affect and are affected by human society.

Principles of Epidemiology, 3 Credits:

Introduction to epidemiology for students majoring in any aspect of public health; covers the principles and methods of epidemiologic investigation including describing the patterns of illness in populations and research designs for investigating the etiology of disease. Introduces quantitative measures to determine risk, association and procedures for standardization of rates.

Studies in Epidemiology, 3 Credits: Application of basic principles and methods in the design and conduct of epidemiologic studies. Topics include the development of research questions; overview of epidemiologic study designs; sampling, sample size, and selection bias; techniques for data collection, sources of secondary data and the evaluation of measurement and information bias; confounding and effect modification; techniques for simple and stratified analyses; and an introduction to mathematical modeling in epidemiology. Prerequisites: Principles of Epidemiology

Health Care Analytics, 3credits: This course introduces the students to the basic principles of public health and their application to the development of activities that benefit the health status of populations using data. The skills of epidemiology, biostatistics, health care planning and policy development, health care administration and community organization are applied to the assessment of public health needs, data and the development of prevention and control initiatives.

Prerequisites: None

Other Courses in Development

Sustainable Tourism for Hotel Managers, Invertebrate Zoology, Vertebrate Zoology, Virology, Ornithology, Stem Cell Biology, Biogeography, Human Physiology, Medical Microbiology, Reproductive Physiology.