

2017  
AGRICULTURAL MEDICINE  
Keeping Rural America  
Healthy and Safe  
Occupational & Environmental Medicine for  
Rural Health Providers



Photo: Brooke Tolar Photography



**Workshops**

March 2,3 & April 6,7, 2017

**Webinars**

March 10,17,24,31 & April 4,11,18,21, 2017

**Jointly provided by**

Greensboro AHEC and the North Carolina Agromedicine Institute and in partnership with Great Plains Center for Agricultural Health and North Carolina Tobacco Trust Fund Commission

# Statement of Purpose

This course is designed to help healthcare providers in all disciplines and settings better understand the culture of agriculture and the health risks and illnesses associated with living and working in rural communities. Associated learning activities provide participants with invaluable information and skills to recognize and work together to address &/or prevent occupational illness and injury in the farm environment. The course also prepares healthcare providers to become nationally recognized as AgriSafe® providers.

## Instructors

All the faculty and presenters for the core course are specialists in rural and agricultural medicine.

## Course Description

The course is a blended learning experience whereby participants meet in a face-to-face environment for hands-on learning, demonstrations, simulations, and networking, as well as engage in 8 webinars via the internet. Completion of the course and a passing grade of 70% on evaluative tests will result in the designation of "AgriSafe® Provider".

## Target Audience

ALL Healthcare providers and paraprofessionals who practice in rural areas, including physicians, nurses, physical therapists, occupational therapists, speech and language pathologists, emergency first responders, safety and environmental personnel, risk managers, community health workers, farmworker outreach staff, Cooperative Extension Agents, and any interested others.

## Educational Objectives

At the conclusion of Parts 1 and 2, the participant should be able to develop strategies to improve practice and patient outcomes by increasing their ability to:

- Differentiate the objectives and philosophies of rural health and agricultural medicine.
- Predict the main respiratory diseases commonly found in agricultural workers, the symptoms, diagnosis, treatment and prevention.
- Define the major types of pesticides and risk factors for exposure, as well as symptoms, diagnosis and treatment of pesticide poisoning and related illness.
- Discuss and assess hazards and human health consequences, including but not limited to emissions, working environment, and pathogenic microorganisms, associated with concentrated production of livestock and poultry.
- Recognize the effects of noise, heat, and other physical factors on worker health.
- Assess types of injuries caused by various hazardous situations and extrication problems associated with farm injury incidents.
- Review the causes of agriculture related stress and how stress is associated with behavioral health issues among farming and fishing populations.

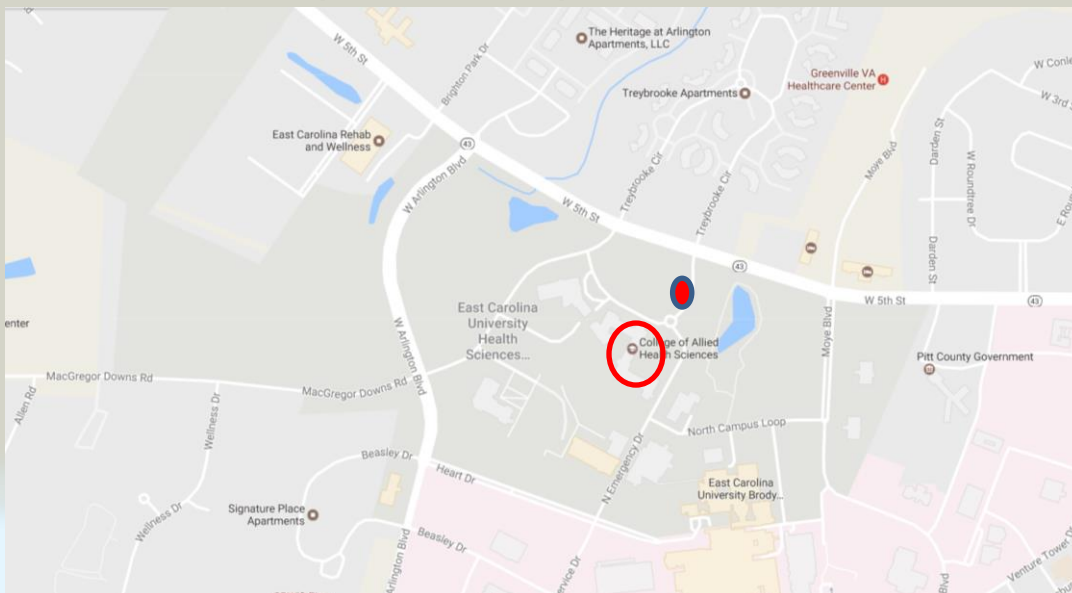
- Evaluate the signs, symptoms, causes and prevention strategies of skin problems in rural residents and those in occupations in agriculture and commercial fishing.
- Determine the difference between muscular, disc, and joint patterns of low back pain.

At the conclusion of Part 3, the participant should be able to develop strategies to improve practice and patient outcomes by increasing their ability to:

- Compare and contrast cancer risks and their possible causes in the farm population with the general population.
- Detect signs, symptoms and treatment options of common zoonotic diseases in humans.
- Identify the uses and hazards of biological, pharmaceuticals, and antibiotics used in livestock production; devise strategies for the prevention of their misuse; and treatment of health conditions they may affect.
- Describe the NC AgrAbility Partnership as a resource for individuals farming with a disability and their families.
- Recommend the appropriate use and selection of personal protective equipment for respiratory, noise, and chemical hazards.
- Summarize the components of a comprehensive agricultural health service such as AgriSafe®.
- Assess and document on-farm safety hazards.
- Review safety assessment data with the farmer and propose options for improvement.
- Identify key community partners for outreach and education to the agricultural community.

## Face-to-Face Session Location

**East Carolina University, Health Sciences Building  
Room HSB1345  
West 5<sup>th</sup> Street, Greenville, North Carolina**



# PART 1 – Face to Face Workshop

## **Thursday, March 2, 2017**

- 8:00 am - 8:30 am      **Registration & Continental Breakfast**
- 8:30 am - 8:45 am      **Welcome & Orientation to Facilities**  
*Robin Tutor-Marcom, EdD, MPH, OTR /L*
- 8:45 am – 10:15 am    **Introduction and Overview of Agricultural Health**  
*Robin Tutor-Marcom, EdD, MPH, OTR /L*
- Diversity of Agriculture in NC Including Fishing, Farming, & Forestry**  
*Robin Tutor-Marcom, EdD, MPH, OTR /L*
- Overview of Migrant/Seasonal Farmworkers**  
*Zoe Cummings, MSW, MPH, CHES*
- 10:15 am – 10:30 am    **Break**
- 10:30 am – 12:30 pm    **Agricultural Respiratory Diseases**  
*Ricky Langley, MD*
- 12:30 pm – 1:30 pm     **Lunch (provided)**
- 1:30 pm – 2:30 pm      **Behavioral Health Issues in the Agricultural Community**  
*Michael Rosmann, PhD*
- 2:30 pm – 2:45 pm      **Break**
- 2:45 pm – 3:45 pm      **Migrant Health Issues and Outreach**  
*Steve Davis, BS*
- 3:45 pm – 5:00 pm      **OSHA and the Worker Protection Standard**  
*Regina Cullen, MS, CPM & Patrick Jones, BS*

## **Friday, March 3, 2017**

- 8:00 am – 8:30 am      Continental Breakfast
- 8:30 am – 9:30 am      **Physical Factors (Vibration & Thermal Energy)**  
*LaMar Grafft, MS*
- 9:30 am – 10:30 am    **Agricultural Trauma**  
*LaMar Grafft, MS*
- 10:30 am – 10:45 am    Break
- 10:45 am – 11:45 pm    **Agricultural Trauma (continued)**  
*LaMar Grafft, MS*
- 11:45 pm – 12:45 pm    **Lunch (provided)**

- 12:45 pm – 2:15 pm **Cancer in Agricultural Populations**  
*Gayle Thomas, MD*
- 2:15 pm – 2:30 pm Break
- 2:30 pm – 3:30 pm **Integration of Agricultural Occupational Health Care**  
*Robin Tutor-Marcom, EdD, MPH, OTR /L*
- 3:30 pm – 4:00 pm **Case Presentations & Problem Solving**  
*Several Faculty*

## **PART 2 – Webinars**

Webinars will include self-study of posted presentations followed by one hour live chat session with instructors.

Instructions for distance education sessions will be provided at conclusion of Session 1. Time allotted is for live chat sessions only. Additional time (2.5 hours) will be required for self-study of posted presentations. Participants are strongly encouraged to have a headset and high speed internet connection for participation in the webinars.

### **ALL WEBINARS are 11:30 AM – 12:30 PM EST**

- March 10, 2017* **Agricultural Trauma, Part 2**  
*LaMar Grafft, MS*
- March 17, 2017* **Confined Animal Feeding Operations (CAFO)**  
*LaMar Grafft, MS*
- March 24, 2017* **Physical Factors Affecting Health in Agriculture – Noise and Hearing Conservation**  
*Jessica Wilburn, RN*
- March 31, 2017* **Musculoskeletal Disease and Ergonomics in Agriculture**  
*Sue Leach, PhD*
- April 4, 2017* **Agricultural Toxicology**  
*Sheila Higgins, RN, MPH, COHN-S*
- April 11, 2017* **Skin Diseases in Agriculture**  
*Gayle Thomas, MD*
- April 18, 2017* **Normal and Chronic Disease in the Aging Farmer: Impacts on Health and Safety (part 1)**  
*Annette Greer, PhD, MSN, RN and Jessica Wilburn, RN*
- April 21, 2017* **Normal and Chronic Disease in the Aging Farmer: Impacts on Health and Safety (part 2)**  
*Annette Greer, PhD, MSN, RN and Jessica Wilburn, RN*

# PART 3 – Face to Face Workshop

## **Thursday, April 6, 2017**

- 8:00 am – 8:30 am **Registration & Continental Breakfast**
- 8:30 am – 9:30 am **Safety Risk Assessment Workshop**  
*LaMar Grafft, MS*
- 9:30 am – 10:30 am **Certified Safe Farm**  
*Scarlett Joyner*
- 10:30 am – 2:30 pm **Farm Tour (includes travel time and lunch)**  
*Several Faculty*
- 2:30 pm – 3:30 pm **Zoonotic Diseases**  
*Dorcas O'Rourke, DVM*
- 3:30 pm – 3:45 pm **Break**
- 3:45 pm – 4:45 pm **Zoonotic Diseases (continued)**  
*Dorcas O'Rourke, DVM*
- 4:45 pm – 5:15 pm **Case Presentations and Problem Solving**  
*Several Faculty*
- 5:15 pm – 7:15 pm **Dinner and Discussion with Farmer**

## **Friday, April 7, 2017**

- 8:00 am – 8:30 am **Continental Breakfast**
- 8:30 am – 10:00 am **Veterinary Biologicals & Therapeutic Occupational Hazards**  
*Karen Oppelt, DVM*
- 10:00 am – 10:15 am **Break**
- 10:15 am - 11:30 am **Farming with Disabilities: Resources for Farmers & Families**  
*Robin Tutor-Marcom, EdD, MPH, OTR /L*
- 11:30 am – 12:30 pm **Lunch**
- 12:30 pm – 1:30 pm **Introduction to Injury Prevention in Agriculture—What Does and Does Not Work**  
*LaMar Grafft, MS*
- 1:30 pm - 2:30 pm **Practical Applications & Use of PPE in Agriculture**  
*LaMar Grafft, MS & Jessica Wilburn, RN*
- 2:30 am – 2:45 am **Break**
- 2:45 pm – 3:45 pm **Practical Applications & Use of PPE in Agriculture (continued)**  
*LaMar Grafft, MS & Jessica Wilburn, RN*
- 3:45 pm – 4:45 pm **Overview of the AgriSafe® Network: Resources for Providers**  
*Robin Tutor-Marcom, EdD, MPH, OTR /L*
- 4:45 pm – 5:15 pm **Case Presentations & Problem Solving**  
*Several Faculty*
- 5:15 pm – 5:30 pm **Questions and Review of Session**

## Credit Available to Participants

CNE Credit will be offered for this activity through Greensboro AHEC. Greensboro AHEC is an approved provider of continuing nursing education by the North Carolina Nurses Association, an accredited approver by the American Nurses Credentialing Center's Commission on Accreditation. Course attendance and completion of pre and post exams and an evaluation of each workshop/webinar is required to receive continuing education credits. No partial credit will be provided.

Participants are responsible for checking with their state licensing board or accrediting/certifying organization to determine if this activity meets their continuing education requirements.

All health professionals intending to be part of the AgriSafe® Network must participate in all sessions of the training and complete and pass all examinations. A score of 70% or higher must be obtained for a passing grade.

## Text Book

Students are encouraged to purchase a copy of *Agricultural Medicine: Rural Occupational and Environmental Health, Safety & Prevention, 2<sup>nd</sup> Edition* by Kelley J. Donham and Anders Thelin, published by Blackwell Publishing.

## Registration

The registration fee includes program materials, credit, meals and refreshments.

**NOTE:** If you register, do not attend, and do not cancel before February 23, 2017 at 5:00 PM, no refund of your registration fee will be made, but a substitute may attend at no additional charge.

For more information, or to inquire about a limited number of scholarships that are available, contact LaMar Grafft NC Agromedicine Institute at 252-744-9542 or [grafftl@ecu.edu](mailto:grafftl@ecu.edu) (course content information) or Tina Clift at 252-744-1008 or [cliftt@ecu.edu](mailto:cliftt@ecu.edu) (registration and scholarship information).

# Keeping Rural America Healthy & Safe

Register online at [https://epay-banner.ecu.edu/C20694\\_ustores/web/store\\_cat.jsp?STOREID=98&CATID=73](https://epay-banner.ecu.edu/C20694_ustores/web/store_cat.jsp?STOREID=98&CATID=73)  
 Online store available starting February 9, 2017.

If not registering online, please send this registration form, along with payment to:  
 NC Agromedicine Institute, 1157 VOA Site C Road, Greenville NC 27834,  
 (call 252-744-1008 to confirm receipt)

Programs to Register for	Title & Date	Fee
<b>PART 1</b>	Keeping Rural America Healthy & Safe March 2 & 3, 2017 (face to face)	\$400
<b>PART 2</b>  <i>(Parts 1 and 2 are separated for continuing education, NOT for registration)</i>	<b>Webinars</b> Agricultural Trauma (Part 3) Confined Animal Feeding Operations Physical Factors Affecting Health In Agriculture: Noise Musculoskeletal Diseases & Ergonomics in Agriculture Skin Diseases in Agriculture Normal & Chronic Disease in the Aging Farmer: Impacts on Health & Safety (2 sessions)	
<b>PART 3</b>	Keeping Rural America Healthy & Safe April 6 & 7, 2017 (face to face)	\$300
<b>PARTS 1, 2 &amp; 3</b>	This includes all sessions	\$650
<b>Total Enclosed</b>		

Last Name \_\_\_\_\_

First Name \_\_\_\_\_ Middle Initial \_\_\_\_\_

Discipline (check one)  Allied Health  Dentistry  Health Careers  Medicine  
 Mental Health  Nursing  Pharmacy  Public Health  Other

Specialties \_\_\_\_\_

Degrees/Certifications/License \_\_\_\_\_

Best way to contact me:  Home  Office  E-mail  Phone

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Department \_\_\_\_\_ Position \_\_\_\_\_

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City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Phone \_\_\_\_\_ E-mail \_\_\_\_\_

Workplace

Street/PO Box \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Phone \_\_\_\_\_ E-mail \_\_\_\_\_

Home

<b>For Institute Use Only</b> Amount Enclosed _____ Date _____
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Check/Cash enclosed for \$ \_\_\_\_\_