

University of Mount Olive
School of Agriculture and Biological Sciences
2022 Summer Workshop Series



University of MOUNT OLIVE

UMMO

SCHOOL OF AGRICULTURE
& BIOLOGICAL SCIENCES

2022 University of Mount Olive, School of Agriculture and Biological Sciences Summer Workshop Series

Dear Potential Participants:

Thank you for your interest in our 2022 Summer Workshop Series. We are excited to offer you a wide variety of virtual workshops for CEU Credit. At this time, we are offering 32 different online or seated workshops that will award credit to teachers. For our online workshops, we are excited to offer you these opportunities at no cost to the participants as an outreach service of the University of Mount Olive and the School of Agriculture and Biological Sciences.

The online workshops do not have a limit on the number of participants. If we reach our capacity (300 participants) to host on Zoom for any of the workshops, we will be in touch with all participants to make alternate arrangements prior to the scheduled date of the workshop.

We would like to ask for all workshop participants to register **at least one week prior** to the workshop. We will send the link and any workshop materials prior to the workshop. If you register within one week of the workshop, there is no guarantee that you will receive the initial email contact, the materials or the certificate for CEUs for your licensure.

The link to sign up for the online workshops is:

https://docs.google.com/forms/d/e/1FAIpQLSfXMPZtN-bzlwEeXhH3ez05zHoo8_cX_qQ3vW24oc6sTFw9wQ/viewform?usp=sf_link

You may return to this link and register for more workshops at anytime.

The seated workshops are listed in this guide, too, but if you are interested, please follow the directions with each entry.

All times listed are Eastern Daylight Time, so if you live in another time zone, please be sure to make adjustments to your calendar.

At the end of the workshop series in August, we will send all participants a certificate with showing credit for all of the online workshops that they attended. Certificates will be presented in person for the seated workshops.

If you have any additional questions about the workshop series, you may email me at sedwards@umo.edu

We look forward to working with you this summer,

Stephen Edwards, Ph. D.
Associate Professor of Agriculture Education
Department Chair of Agricultural Education and Agribusiness
University of Mount Olive

Online Workshops (All workshops are listed in chronological order)

Workshop Name: **SAE Foundational-Awareness Workshop**

Presenter(s): Stephen Edwards

Date and Time: Thursday, June 9, 4:00 PM – 5:00 PM

CEUs: 0.1

Description: This workshop is the first of nine workshops offered based on the SAE for All Model. This interactive workshop is designed to assist teachers with instructing students on how to use the Foundational SAE Model for 6th – 9th grades (Awareness).

Workshop Name: **Quick Tools to Assess Student Learning Workshop**

Presenter(s): Beth Cauley

Date and Time: Monday, June 13, 10:00 AM – 11:00 AM

CEUs: 0.1

Description: This workshop will highlight a few teaching tools that are quick, free, and easy-to-use assessment techniques for classrooms of any level. We'll explore, use, and put several tools to practice from polling applications to easy grading solutions.

Workshop Name: **Aquaponics Workshop**

Presenter(s): Mickael Cariveau

Date and Time: Monday, June 13, 1:00 PM – 3:00 PM

CEUs: 0.2

Description: This workshop is designed to give attendees an overview of aquaponics and how they can incorporate aquaponics into their classroom. We will discuss principles, practices as well as the needs and maintenance that is required for a successful aquaponics system.

Workshop Name: **Thinking Off the Paper – 3D Landscape Design**

Presenter(s): Michele Spence

Date and Time: Thursday, June 16, 9:00 AM – 11:00 AM

CEUs: 0.2

Description: Are you tired of students drawing random circles when you are teaching landscape design or even worse, they place an *Ilex x attenuata* 'Savannah' in front of the *Nandina domestica* 'Fire Power'? This workshop will provide you with practical information on how to create and use common items to assist in teaching creative landscape design. Items to cover will include scale, plant selection and using models to help students develop a final landscape design. The best thing, this can help students of all abilities learn the basics of landscape design and feel successful in the classroom.

Workshop Name: **Active Learning in the Sciences**

Presenter(s): Sharon Jackson

Date and Time: Thursday, June 16, 1:30 PM – 2:30 PM

CEUs: 0.1

Description: This workshop will focus on methods used to convey basic principles in the sciences. Topics will include a comparison of learning styles and methods to promote learning to each, practical study habits, and tools and activities for lectures to increase information retention.

Workshop Name: **SAE Foundational-Intermediate and Advanced Workshop**

Presenter(s): Stephen Edwards

Date and Time: Thursday, June 16, 4:00 PM – 5:00 PM

CEUs: 0.1

Description: This workshop is the second of nine workshops offered based on the SAE for All Model. This interactive workshop is designed to assist teachers with instructing students on how to use the Foundational SAE Model for 9th – 11th grades (Intermediate) and 11th – 12th Grades (Advanced)

Workshop Name: **SAE Placement/Internship Workshop**

Presenter(s): Stephen Edwards

Date and Time: Thursday, June 23, 4:00 PM – 5:00 PM

CEUs: 0.1

Description: This workshop is the third of nine workshops offered based on the SAE for All Model. This interactive workshop is designed to assist teachers with the immersion guide that is designed with instructing students on how to operate a Placement/Internship SAE.

Workshop Name: **Floral Design in the Classroom**

Presenter(s): Jennifer Bradley

Date and Time: Thursday, June 30, 2:00 PM – 4:00 PM

CEUs: 0.2

Description: This workshop is designed as a hands-on lesson in floral design. Participants will learn various techniques for designing floral arrangements. Tools, supplies, and plants will be discussed for incorporating a design lesson in the classroom.

Workshop Name: **SAE Ownership/Entrepreneurship Workshop**

Presenter(s): Stephen Edwards

Date and Time: Thursday, June 30, 4:00 PM – 5:00 PM

CEUs: 0.1

Description: This workshop is the fourth of nine workshops offered based on the SAE for All Model. This interactive workshop is designed to assist teachers with the immersion guide that is designed with instructing students on how to operate an Ownership/Entrepreneurship SAE.

Workshop Name: **Heart Physiology**

Presenter(s): Sharon Jackson

Date and Time: Wednesday, July 6, 10:30 AM – 11:30 AM

CEUs: 0.1

Description: This workshop will demonstrate dissection techniques and examine the basic anatomy and physiology functions of the mammalian heart. Concepts that will be covered include basic heart anatomy, the electrical conduction system of the heart, the cardiac cycle, and pulmonary and systematic blood flow.

Workshop Name: **Kidney Physiology**

Presenter(s): Sharon Jackson

Date and Time: Wednesday, July 6, 1:30 PM – 2:30 PM

CEUs: 0.1

Description: This workshop will demonstrate dissection techniques and examine the basic anatomy and physiology of the mammalian kidney. Concepts that will be covered in the workshop include basic kidney anatomy, blood and urine flow through the kidney, filtration and urine formation.

Workshop Name: **Preparing for the 2023 Farm Bill in a Chaotic Policy Environment**

Presenter(s): Ted Feitshans

Date and Time: Wednesday, July 6, 3:00 PM – 5:00 PM

CEUs: 0.2

Description: Changes in trade policy across the last two presidential administrations, COVID related disruptions, and disruptions caused by war in Eastern Europe have created the most unpredictable and chaotic policy environment that American agriculture has seen since the farm crisis of the early 1980s. This has been compounded by inflation rates not seen in 40 years. This workshop will cover the likely policy issues going into the 2023 Farm Bill and how agricultural teachers should address the questions and the concerns of their students.

Workshop Name: **Brain Physiology**

Presenter(s): Sharon Jackson

Date and Time: Thursday, July 7, 10:30 AM – 11:30 AM

CEUs: 0.1

Description: This workshop will demonstrate dissection techniques and examine the basic anatomy of the mammalian brain. Concepts that will be covered include basic brain anatomy, the location of the 12 cranial nerves their individual function, communication between brain centers, and the protective mechanisms of the central nervous system, including the role of cerebral spinal fluid.

Workshop Name: Pig Physiology

Presenter(s): Sharon Jackson

Date and Time: Thursday, July 7, 1:30 PM – 3:30 PM

CEUs: 0.2

Description: This workshop will demonstrate dissection techniques when dissecting a pig in the classroom. Pigs are often used as a model for human anatomy due to the anatomical similarities. Concepts that will be covered include discussion of the organ systems of the body and how they interact to maintain homeostasis, tissue groups, and the location and function of major organs.

Workshop Name: SAE Research Workshop

Presenter(s): Stephen Edwards

Date and Time: Thursday, July 7, 4:00 PM – 5:00 PM

CEUs: 0.1

Description: This workshop is the fifth of nine workshops offered based on the SAE for All Model. This interactive workshop is designed to assist teachers with the immersion guide that is designed with instructing students on how to operate the three types of Research SAEs including Experimental Research, Invention Research, and Analytical Research.

Workshop Name: Greenhouse Management Workshop

Presenter(s): R. Jason Davis

Date and Time: Friday, July 8, 10:00 AM – 12:00 PM

CEUs: 0.2

Description: You have a school greenhouse, so now what do you do with it? This online session will focus on ideas and practices to make your greenhouse a manageable and profitable program asset. Production practices, tricks, and tips will be shared that will add value to your students' experience in your class.

Workshop Name: SAE Service Learning Workshop

Presenter(s): Stephen Edwards

Date and Time: Thursday, July 14, 4:00 PM – 5:00 PM

CEUs: 0.1

Description: This workshop is the sixth of nine workshops offered based on the SAE for All Model. This interactive workshop is designed to assist teachers with the immersion guide that is designed with instructing students on how to operate a Service Learning SAE.

Workshop Name: Using Microscopes in the Field

Presenter(s): Sara Lahman

Date and Time: Wednesday, July 27, 1:00 PM – 2:00 PM

CEUs: 0.1

Description: Have you ever wanted to use a microscope outside of a lab? This online session will focus on the use of Foldscope portable microscopes. Instruction will be given on how to incorporate the Foldscoptes by taking the microscope to the sample instead of bringing a sample to the microscope.

Workshop Name: SAE A Guide to the Auction Industry

Presenter(s): Stephen Edwards

Date and Time: Thursday, July 28, 4:00 PM – 5:00 PM

CEUs: 0.1

Description: This workshop is the seventh of nine workshops offered based on the SAE for All Model. This interactive workshop is designed to assist teachers with the resource titled *A Guide to the Auction Industry* that is prepared by the National Auctioneers Association. The guide is designed with instructing students with an interest in entering the auctioneering industry.

Workshop Name: How to Manage Animals On-Campus for New Teachers Workshop

Presenter(s): William Farmer and Heather Glennon

Date and Time: Monday, August 1, 10:00 AM – 12:00 PM

CEUs: 0.2

Description: Introducing animals to your program is an excellent way to engage students. Workshop discussion will include the considerations for housing, feeding and caring for animals, pasture management, waste management, parasites, diseases, and biosecurity. Also, laboratory teaching methods will be demonstrated.

Workshop Name: Marketing Plan CDE Workshop

Presenter(s): Stephen Edwards

Date and Time: Monday, August 1, 3:00 PM – 5:00 PM

CEUs: 0.2

Description: This workshop will focus on how to train and work with students in the Marketing Plan CDE. Successful teaching and training strategies along with the long-term impacts of previous participants will be shared with this event.

Workshop Name: SAE A Guide to International Agricultural Development

Presenter(s): Stephen Edwards

Date and Time: Thursday, August 4, 4:00 PM – 5:00 PM

CEUs: 0.1

Description: This workshop is the eighth of nine workshops offered based on the SAE for All Model. This interactive workshop is designed to assist teachers with the resource titled *A Guide to International Agricultural Development* that is prepared by Growing Hope Globally. The guide is designed with instructing students with an interest in working with global agricultural outreach.

Workshop Name: **Living to Serve: A discussion about Servant Leadership and how you can apply it in your FFA chapter and classroom**

Presenter(s): Edward Olive

Date and Time: August 11, 2022, 2:00 – 3:00 PM

CEUs: 0.1

Description: We talk about serving others often in our student organizations and classrooms. This workshop will focus on the foundation of servant leadership, its relationship to agricultural education, and ways to integrate servant leadership to better prepare students to live to serve and lead effectively.

Workshop Name: **SAE School-Based Enterprise Workshop**

Presenter(s): Stephen Edwards

Date and Time: Thursday, August 11, 4:00 PM – 5:00 PM

CEUs: 0.1

Description: This workshop is the ninth of nine workshops offered based on the SAE for All Model. This interactive workshop is designed to assist teachers with the immersion guide that is designed with instructing students on how to operate a School-Based Enterprise SAE.

Workshop Name: **Free and Easy-To-Use Bioinformatics Tools Workshop**

Presenter(s): Andrew Pais

Date and Time: Friday, August 12, 1:00 PM – 2:00

CEUs: 0.1

Description: Bioinformatics is an important field of study that requires a familiarity with computer technology to better understand important questions in biology. In this workshop, participants will have the chance to learn several free and easy-to-use bioinformatics web tools that can be easily integrated into the science classroom as part of an introductory lesson.

Seated Workshops (All workshops are listed in chronological order. Please follow the directions for applying for and paying for these workshops)

Up to May 31, North Carolina teachers need to register for these workshops at https://docs.google.com/forms/d/e/1FAIpQLSdi3EQ_eqTdYUh67QkqgwLtlj1Q81ttmnYTZgmlhi0nrrhgA/viewform

After June 1, please feel free to contact us directly at sedwards@umo.edu with any inquiries about the individual seated workshops

Title: Poultry Primer

Date: June 13 and June 14, 2022; 9:00am – 4:00pm

Location: University of Mount Olive's Kornegay Student Farm, 408 Garner Chapel Rd., Mount Olive, NC 28365

Instructor: Dr. Heather Glennon, Associate Professor of Animal Science

Contact: Allison Jennings, Eastern Region Agricultural Education Coordinator

Description: Don't stay cooped up this summer. Flock to the University of Mount Olive's farm to learn about the principles of poultry production and the numerous career opportunities in the field. This 2-day workshop will offer a tract for agricultural educators and a tract for high school students. University faculty, extension specialists, and poultry integrators will discuss nutrition, reproduction, disease prevention, best management practices, and meat processing through hands-on activities and field trips.

CEU: 1.4

Class Size: Minimum 10 - Maximum 20 participants

Fee: Free

Title: Tour of Ag Operations

Date: June 28, 2022; 8:00am – 4:00pm

Location: University of Mount Olive, Raper Hall, Agribusiness Center; 634 Henderson St., Mount Olive, NC 28365

Instructor: Edward Olive, Director, UMO Agribusiness Center

Contact: Allison Jennings, Eastern Region Agricultural Education Coordinator

Description: This workshop is designed as a tour for attendees to learn more about the diverse agriculture production and processing industry in eastern North Carolina. Various production and processing facilities will be visited and information about each will be provided. Teachers will take away the most current industry examples to use in their discussions and lessons in the classroom.

CEU: 0.8

Class Size: Minimum 10 - Maximum 14 participants

Fee: No cost; lunch provided

2022 University of Mount Olive, School of Agriculture and Biological Sciences Summer Workshop Series

Title: **Floral Design in the Classroom** (same workshop offered each time)

Date: June 29, 2022; 10:00am - 12:00pm

June 29, 2022; 2:00pm - 4:00pm

June 30, 2022; 10:00am - 12:00pm

June 30, 2022; 2:00pm - 4:00pm

Location: University of Mount Olive, Raper Hall, Agribusiness Center; 634 Henderson St., Mount Olive, NC 28365

Instructor: Dr. Jennifer Bradley, Assistant Professor - Plant Science

Contact: Allison Jennings, Eastern Region Agricultural Education Coordinator

Description: This workshop is designed as a hands-on lesson in floral design. Participants will learn various techniques for designing floral arrangements. Tools, supplies, and plants will be discussed for incorporating a design lesson in the classroom. Participants will create their own design in this two-hour workshop.

CEU: 0.2

Class Size: Minimum 10 - Maximum 14 participants

Fee: \$18; Mail checks to UMO Agribusiness Center, Attention: Aleza Jones, 634 Henderson Street, Mount Olive, NC 28365

Title: **Nursery Tour**

Date: July 6, 2022; 8:00am – 4:00pm

Location: University of Mount Olive, Raper Hall, Agribusiness Center; 634 Henderson St., Mount Olive, NC 28365

Instructors: Dr. Jason Davis, Assistant Dean, School of Agriculture & Biological Sciences and Tim Warren, Director of Agricultural Facilities, UMO

Contact: Allison Jennings, Eastern Region Agricultural Education Coordinator

Description: This workshop will provide participants with a greater knowledge of commercial ornamental plant production, focusing on media choices, potting techniques, propagation, and various field production techniques. Participants will see the latest production practices and speak to industry experts.

CEU: 0.8

Class Size: Minimum 8 - Maximum 14 participants

Fee: \$15 with lunch provided; Mail checks to UMO Agribusiness Center, Attention: Aleza Jones, 634 Henderson Street, Mount Olive, NC 28365

Title: Beekeeping for Beginners

Date: July 7, 2022; 8:00am – 4:00pm

Location: University of Mount Olive, Kornegay Student Farm; 408 Garner Chapel Rd, Mount Olive, NC 28365

Instructor: Dr. Jason Davis, Assistant Dean, School of Agriculture & Biological Sciences and Tim Warren, Director of Agricultural Facilities, UMO

Contact: Allison Jennings, Eastern Region Agricultural Education Coordinator

Description: This workshop is designed for instructors interested in gaining entry level experience in apiculture. No prior experience is necessary. Participants will learn fundamentals of hive and colony management, equipment use, diseases, insects and other information necessary to start their own colony.

CEU: 0.8

Class Size: Minimum 8 - Maximum 15 participants

Fee: \$50 with lunch and textbook provided; Mail checks to UMO Agribusiness Center,

Attention: Aleza Jones, 634 Henderson Street, Mount Olive, NC 28365

Title: Teaching Plant Identification

Date: July 25 - July 26, 2022; 9:00am – 4:00pm each day

Location: University of Mount Olive, Raper Hall, Agribusiness Center; 634 Henderson St., Mount Olive, NC 28365

Instructors: Dr. Stephen Edwards, Associate Professor of Agriculture Education, Dr. Jason Davis, Assistant Dean, School of Agriculture and Biological Sciences, and Dr. Jennifer Bradley, Assistant Professor of Plant Science

Contact: Allison Jennings, Eastern Region Agricultural Education Coordinator

Description: Teaching plant identification is one of the main challenges for secondary agricultural teachers. This two-day workshop will focus on how to teach students plant identification, primarily using plants found in the Horticulture I and Horticulture II classes in the official North Carolina curriculum.

CEU: 1.4

Class Size: Minimum 5 - Maximum 20 participants

Fee: \$30; lunch provided both days; Mail checks to UMO Agribusiness Center, Attention: Aleza Jones, 634 Henderson Street, Mount Olive, NC 28365

Title: Beginning Welding

Date: August 3 and August 4, 2022; 8:00am – 4:00pm

Location: Goodson and Wells Shop, UMO, 205 Bert Martin Rd., Mount Olive, NC 28365

Instructor: Tim Warren, Ag Mechanics Professor

Contact: Allison Jennings, Eastern Region Agricultural Education Coordinator

Description: This is a basic welding workshop to include safety, SMAW (stick), GMAW (MIG), GTAW (TIG) and Oxy-fuel welding and braze welding. It will be hands-on for the most part and focus on improving welding skills and how to teach students proper technique. Snacks and lunch will be provided, along with welding helmets and gloves for use. Dress to weld.

CEU: 1.6

Class Size: Minimum 5 - Maximum 12 participants

Fee: \$50; Snacks and lunch provided; Mail checks to UMO Agribusiness Center, Attention: Aleza Jones, 634 Henderson Street, Mount Olive, NC 28365