



Get Real About Science

Bring Your Students to **Get Real About Science**

November 17, 2006 and April 25, 2007
The Ohio State University - Columbus

Bring your college-bound sophomores and juniors to Ohio State for a day packed with hands-on experiences and real-life applications of science!
(Maximum Group Size - 25)

COST - You supply the transportation. Bring a packed lunch.
Beverages and dessert are provided.
ALL SESSIONS ARE FREE!

Register Early!

Sessions assigned on a first-come, first-served basis.
Register as early as possible to get your priority selections!
Registration Deadline for November - September 15, 2006
Registration Deadline for April - January 15, 2006



Registration Form

Teacher Name: _____

Date(s) you would like to visit:

- November 7, 2006
- April 26, 2007

School Name: _____

School Address: _____ City: _____ Zip: _____

School Phone: _____ Teacher e-mail: _____

Time you will be arriving on campus: _____ a.m. (We ask that you arrive by 8:45 a.m.)

Time you will need to leave campus to return to your school: _____ p.m.

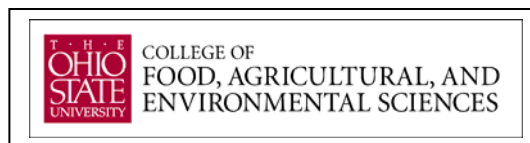
Class Name	# Freshmen	#Sophomores	#Juniors	#Seniors

Choose from a Variety of One-hour Sessions.

Prioritize your session preferences on the back.

Mail your completed registration form to:

Dr. Marilyn Trefz
Assistant Dean, Organizational Development
College of Food, Agricultural, and Environmental Sciences
2120 Fyffe Road, Columbus, OH 43210-1066
or Fax it to: 614/292-1218
Questions? Call 614/292-2868



Design Your Day

RANK ALL SESSIONS from 1-16 in order of preference.

Sessions are scheduled on a first-come, first served basis.

Every effort will be made to accommodate your preferences.



_____ **Assisted Reproductive Technologies** – Recent advancements have been made to assist, enhance, and manage reproductive processes, leading to use of these practices in human clinical medicine, food animal production systems,

and preservation of wild or endangered species. The focus of this workshop will be the study and manipulation of gametes and reproductive systems.

_____ **Biosecurity** – Learn about the threat of bioterrorism and its effects on humans, animals, and plants; conduct an experiment to diagnose plant pathogens.

_____ **Conjugation of Plasmids** – Conduct a natural gene transfer process used in the fermentation of food.

_____ **Ecological Engineering** – Study the design of natural systems that provide societal services and benefit the natural environment. Learn about this new area of science and tour a “living machine” that establishes a biologically diverse ecosystem modeled after natural systems of wetlands, pond, and rivers.

_____ **Food Engineering** – Discover the engineering and scientific principles that go into making some of your favorite foods!

_____ **Microbial Fuel Cells** – Learn how electricity is generated by digesting cellulose. Experiment with this fuel cell that is powered using bacteria and fungi from the stomachs of cows.

_____ **Monitoring Wildlife Movements in Urban Areas**

– A fundamental aspect of wildlife ecology is determining animals’ travel habits and the types of habitats they use. Use radiotelemetry to track animals in an urban setting, and see how this information is used for conservation and management.



***Your bus driver will need to provide transportation during the day for these sessions.**

_____ **Genetics in Animals** – Explore the science of genetic markers in animals – how they make a difference in the foods you eat and how the research done on large, domestic animals impacts human health research.

_____ **Physics in Engineering** – Conduct experiments dealing with circuits, temperature measurement, power, voltage, and currents and learn ways that these principles apply to career-based situations.

_____ **Science Beneath the Sports*** (2 hour session) – Tour the Ohio Stadium and learn the science and technology that goes into making the football turf of “national champions”. Travel to our Turfgrass Center and conduct physics and motion experiments on a golf course putting green.

_____ **Stream Fish and Macroinvertebrates as Environmental Indicators*** – November only) Learn how stream organisms can be used to assess point and non-point sources of pollution. Emphasis will be on habitat requirements and basic ecology of the organisms as they relate to land use practices in watersheds.



_____ **Understanding Equine Behavior*** – November only) Explore equine behavior, the physiology of conditioning of the horse, and the use of that knowledge to produce humane training methods.

_____ **Tasting Science** – Learn the difference between taste and smell, how the senses interact, and the role perception and illusion play in eating and food selection.

_____ **Wetlands as Teachers of Science*** – Explore a wetland and study the role of wetlands and water quality.

_____ **What Makes Animals “Tick”?** – Study the cardiovascular systems of various animals and learn how they differ and function to sustain the animal in its environment.

_____ **You Are What You Eat: Developing Your Body with Food** – Hands-on learning about the importance of nutrition and how your body uses fat, protein, and carbohydrates to support growth and development.

