

2019 Explore UMass June 23 – June 25, 2019

Explore UMass is an overnight program for youth ages 12 to 16 held on the UMass Amherst Campus (*Youth participants must be 12 years old by June 23rd 2019 or attending grades 7-11 for the 2019-2020 school year*). Program is open to those outside of 4-H so feel free to share with your friends.



To register or for more information contact:
 Kim Pond, SET Liaison
 Massachusetts 4-H Program
 120 Stafford St. Suite201, Worcester, MA 01603
 Phone: 508.831.1223 x114 kima@umext.umass.edu
Deadline May 13, 2019 and space limited

Name: _____

Age: _____ Gender: _____

Adult Tee Shirt Size (Please Circle): S – M – L – XL -2XL -3XL Roommate Preference: _____

Name of Parent/Guardian: _____ Parent/Guardian Cell: _____

Address: _____ County: _____

Email address: _____ Home Telephone: _____

Tracks: Please rank your preference using 1-4. Note: Vet Science Track is offered twice to allow more participants. Please only sign up for either a Monday or Tuesday. (See full descriptions on back.)

Monday – June 24th		Tuesday- June 25th	
	Veterinary Science		Veterinary Science- repeated
	Water Pathways		AI and You!
	E-textiles & Arduinos		Biology
	Farming in a Modern World		Food Science

Cost is \$200.00 but only **\$100.00** for all active MA 4-H members thanks to the Massachusetts 4-H Foundation and Tractor Supply Company through the Fall Paper Clover campaign.



If you are anticipating scholarship money from your County Advisory, please indicate below. (Many local county scholarships are due 4/1.)

I am approved for a scholarship in the amount of \$_____ from the _____ Advisory Council

Please mail this registration form with check made check payable to: **The Massachusetts 4-H Foundation, Inc.** _____ I would like to donate \$20, \$50, other _____ to the SOS Scholarship Fund that provides additional scholarship to those in need of further aid and include the amount in your check.



UMass Extension is a unit of the Center for Agriculture, Food & the Environment in the College of Natural Sciences. UMass Extension is an equal opportunity provider & employer, United States Department of Agriculture cooperating. Contact your local UMass Extension office for information on disability accommodations or the UMass Director if you have concerns related to discrimination, 413-545-4800 or refer to www.extension.umass.edu/civilrights.

Veterinary Science: What it Takes to Be a Veterinarian: A veterinarian is a trained medical profession that oversees the healthcare needs of animals. This track will explore how you can prepare for undergrad studies in the Animal Science Pre-Vet major. Hands-on workshops focusing on restraint of animals; taking vitals, parasitology and anatomy are just a few of the topics that will be covered. If you love animals and want to explore the veterinarian field than this track is for you.

Water Pathways: Water is all around us, moving through the natural landscape, through engineered systems, even through our bodies. Too often, we take water for granted! In this program, we will explore some little known paths that water takes through the UMass Campus, and meet some people whose job it is to understand and work with the water systems. You will finish the day with more questions than when you started, and you will be prepared to start exploring the flow of water where you live.

AI and You! We actually have a lot in common with computers. Participants will explore computational thinking, hack some code, check out the National Youth Science Day Experiment and visit the Lab to see what UMass Computer Science Graduate Students are working on today.

E-textiles & Arduinos are just a few ways you can use your electrical and coding skills to work in a variety of projects. Explore simple products, learn about Maker Spaces and design a project of your own. Be one of the first to use our new Conductivity kits and Arduinos.

Biology 101: Microscopy: More than meets the eye.

Join 4-H Alumni and current UMass student Angela Essa and Smith College Alumni Lizmarie Lopez in the research laboratory! Have you ever wondered what is crawling in your nearby pond, puddle, or even water fountain (though we hope not!)? Have you ever wondered what your body looks like on the inside? Join a pair of biologists as they answer these questions. You will learn how to use a microscope, prepare slides, and even extract DNA. So if you are into exploration, experimentation, and exhilaration, then join us in this introduction to microscopy.

Farming in a Modern World: Join Agricultural Learning Center Staff and students to learn about Carbon Farming, Food Insecurity and Alternative Energy used on the farm.

Food Science is a fun and exciting field of STEM that connects the interdisciplinary science of biology, chemistry and processing. Join this track and learn the world of food science that will include eating your experiments! Through this hands-on learning, we will walk through the science of food from farm to fork.