

CCEDC 4-H “Exploring Veterinary Science” Program 1

Supported by the Dorr Foundation

Program Outline

The objectives of the 4-H “Exploring Veterinary Science” program are to:

- Educate youth in the principles of scientific research;
- Equip youth with science knowledge and techniques they can apply to real-world activities;
- Help youth understand the impact that animals, their management, and treatments have on the environment and on human health and welfare; and
- Motivate youth to develop an enduring interest in science, and the confidence to apply scientific principles to daily life, and to pursue more advanced science studies.

Program Structure

This is the first of two programs. Participants in Program 1 will have the chance to enroll in a second program later in 2019. Program 2 will build on the knowledge and skills developed in Program 1.

How the Program Will Be Taught

Learning by doing and observing is the primary teaching method. Under the direction of industry professionals (see schedule below), participants will put principles into practice by conducting their own research and see a wide variety of modern medical techniques in a range of settings. The program will wrap up with an overnight trip to Cornell to attend their [Veterinary Science Open House](#) on April 6th.

Who the Program Is For

Applicants for this program will be 13-19 years of age with a keen interest in veterinary science and/or human medical science. They must be currently enrolled as a 4-H member or be prepared to enroll by the start of the program. Should the program be over-subscribed long-time 4-H members will get priority.

Time Commitment

This program offers a total of 30 hours of education. As the program is project-based, participants who miss sessions will find it hard to keep up. Therefore, potential participants should look carefully at the schedule (see below) and be sure it works for them.

Cost

The course fee is \$90.00 payable by January 25, 2019

An additional fee of \$25 is payable by non-4-H members

This will cover all program costs, materials, safety clothing and supplies. Participants will be responsible for their own travel costs.

This program is made possible in part by a generous grant from the Dorr Foundation.

Schedule

Please note: weather or other events may result in this schedule being adapted.

Sessions run from 2-5pm unless stated otherwise – note that sessions will start promptly

February

- 02/03/19 Sunday: Rhinebeck Equine – Dr. Nina Deibel. Principles of safety. Diagnostic technology including radiography and ultrasound procedures.
- 02/10/19 Sunday: Bentley Vet. Practice, Pine Plains – Dr. Isabelle Louge. Establishing normal parameters. Methods of restraint for examining and treating animals.
- 02/17/19 Sunday: Dutchess BOCES – Rebecca Cossa, M.Ed. Exploring systems of the body. Anatomy and physiology.
- 02/18/19 Monday: Dutchess Community College – Dr. Mark Condon. Histology and pathology. Using microscopes for diagnosis.
- 02/24/19 Dr. Jane Rodd. Introduction to the Principles of Scientific Research. Project identification and development.

March

- 03/03/19 Sunday: All Animal Veterinary Services, Modena - Dr. Eleanor Acworth. Parasitology. Diagnosis, effects, treatments, prevention.
- 03/17/19 Sunday, 3-5pm, CCEDC - Jane/Meghan. Project development session.
- 03/31/19 Sunday, 3-5pm, CCEDC - Jane/Meghan. Project development session.

April

To attend the Cornell Trip detailed below, attendance is required at 6 of the 8 sessions listed above, and the research project must be complete and ready for presentation.

- 04/05/19 depart CCEDC and drive part way to Cornell University, Ithaca before staying overnight (venue to be decided). Participants will spend the evening presenting their research projects and reviewing the program.
- 04/06/19 arrive Cornell Veterinary School by 10am to attend a variety of lectures, workshops and demonstrations at their Open House. 4pm – program ends.