

# 4-H X-Camp (Exploration Camp) at University of Minnesota Crookston

## June 3 – 5, 2014

Explore your interests and explore campus life!

Work alongside University of Minnesota faculty in a variety of topics, using university resources!

Engage in hands-on activities in agricultural science, natural resources, fine arts, science and mathematics, aviation and more! See what it's like to be college student – stay on campus for 3 days and 2 nights! Meet students and faculty at the University of Minnesota Crookston! Make new 4-H friends from northwest Minnesota and eastern North Dakota!

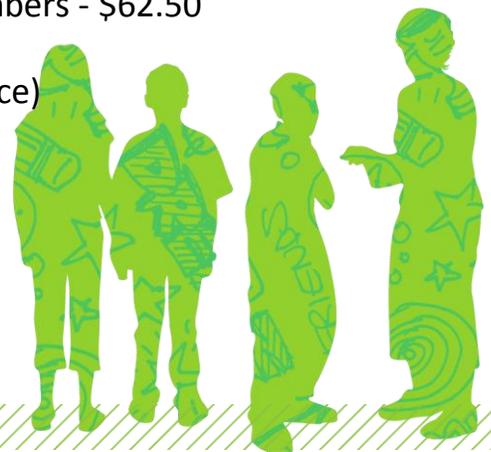
**Intended Audience:** For youth in grades 6 – 8. Priority given to registered 4-H members.

**Program Assistants/Camp Counselors:** Opportunities for responsible 4-H teens to gain valuable leadership skills.

**Cost:** \$125 (includes meals and lodging) The Mahnomen County 4-H Federation will cover ½ of the registration fee for Mahnomen County 4-H members - \$62.50

**REGISTRATION DUE:** May 21, 2014 (due at Regional Office)

Mahnomen County Extension Office  
115 East Madison Avenue  
PO Box 477  
Mahnomen, MN 56557  
218-935-2226  
swier023@umn.edu



# 4-H X-Camp Offerings

Rank (1, 2, 3, 4, ...) in sessions in order of your interest (1 = most interested in, 10 = least interested in)

## \_\_\_\_\_ Agriculture Systems Management - Welding

Participants will learn the safe operation and application of arc welding skills to build or repair metal projects. Participants will observe proper safe techniques and practice using "stick" and wire welding machines. Students will complete four welding skills using stick and wire welders. Participants will need to dress properly with long pants and closed toed shoes. Safety glasses, gloves and helmets will be provided.

## \_\_\_\_\_ Animal Science

Participants will be able to experience animal science lab techniques involving but not limited to: semen observation under the microscope and observing livestock reproductive tracts and identifying parts. Students will also have a better understanding of livestock health, proper nutrition, and critical management of a typical livestock operation. Hands-on techniques with sheep will be provided.

## \_\_\_\_\_ How Can I Be an Astronomer? Explore Astronomy in a Planetarium and Find Out!

Participants will explore careers in astronomy and how they have changed through the ages. We explore the sky and universe through 3-D visualization inside a portable planetarium. Inside the planetarium we will learn about the great navigators and the constellations that guided them. How does the sun move across the sky? Do the Moon and planets move the same? Can they block or hit each other? As modern astronomers we will investigate light and the information coming from it.

## \_\_\_\_\_ Aviation

Pilots fly big airplanes to get people from place to place, but they also fly smaller ones to enhance crop production, count animals, enforce the law, and spot fires. Participants will learn about the wide variety of jobs that pilots do and learn what it takes to become a pilot. Do you have the "right stuff?" Try your hand at a flight simulator and build and fly your own airplane in a real wind tunnel!

## \_\_\_\_\_ Basic Bookbinding: Create Your Own Book

Participants will learn the basic history of bookbinding and book arts. Today, more and more book artists and bookbinders are using recycled and re-purposed materials to create journals, sketchbooks, and other art books. Participants will learn and practice some basic bookbinding techniques and will make their own unique books using re-purposed materials.



# 4-H X-Camp Offerings

## Equine Science

Participants will get a chance to get their hands dirty and experience what it's like to ride a well broke, gentle lesson horse. Also, a tour of the University stables will be provided and participants will learn how to lead horses, groom, saddle, bridle and ride a horse! More advanced riders will get a mini-lesson from a faculty instructor. Participants will need to wear long jeans and boots to participate in this adventure. If you have a helmet, please bring it along, otherwise we can provide one.

## Horticulture Happenings

Horticulture is more than "smelling the flowers" and making the world a pretty place. In this session students will tour a working greenhouse and learn the basics of plant propagation including hands-on work with different methods for taking cuttings. Cuttings will be sent home with the participants. Fruit and vegetable classification will also be covered including an edible lab. No sandals or flip-flops are allowed in the Greenhouses.

## Minecraft Home Landscapes

Minecraft can be used for much more than spending hours in a dark cave avoiding creatures of the dark while searching for rare elements or exploring unknown lands. You can use it to help you be a better landscape designer. This session will help you learn how to optimize the arrangement of spatial element of home landscapes. You will use the computer game Minecraft and with a partner you will landscape a home within the game that will enhance positive elements and minimize negative elements of the landscape.

## Fun with Musical Keyboards

Participants will learn some basic musical keyboard skills using the University of Minnesota Piano Lab. Those with experience playing piano will be able to explore new musical selections and styles.

## Get Creative with Marketing

Participants will learn the fundamentals of marketing through interactive and hands-on activities. Concepts that will be covered include: 1) the 4 P's of Marketing (product, price, place, promotion); 2) how to effectively use advertising, sales promotions and sales to sell a product; and 3) the importance of brands to consumers.

## Notable Nature

Participants will learn basic concepts in the field of natural resources and will receive hands-on experience. Activities may include amphibian surveys, bird mist-netting, track and scat identification, tree and flower identification, and monarch butterfly monitoring, depending upon weather. Participants must wear close-toed shoes and long pants to participate.



***Don't miss the last two sessions on the next page!***



# 4-H X-Camp Offerings

## Getting Down and Dirty to Study Soils

Soils are crucial to life on earth. Soils supply us with nearly all of our food. The fiber we use for lumber, paper, and clothing has its roots in soil. Soil produces renewable materials for fuel and manufacturing purposes. This session will feature an introductory field experience in evaluating soils. Participants will examine soil color, texture, consistence, structure, and drainage to determine what horizons are present and at what depths their boundaries occur.

## Be a Water Investigator

Participants will be sampling water from a farm pond on the University of Minnesota Crookston campus. Water samples would be brought into the laboratory and biological indicators of good and poor water quality will be identified, and discussed. In the end, students will draw conclusions about the quality of the water in the pond. Waders will be provided, but participants are welcome to bring their own.

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Registration priority will be given to registered 4-H members. Non 4-H members are invited to participate but will have to enroll in 4-H as a short term member.

Registration is limited, so register early.

No refunds after May 21 but participants may find a same gender replacement.

Please note that some sessions require special dress and/or footwear to participate.

All 4-H members must identify a chaperone (chaperones can chaperone more than one youth). **Chaperones must meet Minnesota 4-H supervision guidelines (including being 21 years of age, screened, and 10 youth: 1 adult ratio).**

Chaperones and camp counselors must also register and will attend sessions with groups.

For questions contact your local 4-H office:

Gerri Swiers, Mahnomon County 4-H Program Coordinator, [swier023@umn.edu](mailto:swier023@umn.edu), 218-935-2226

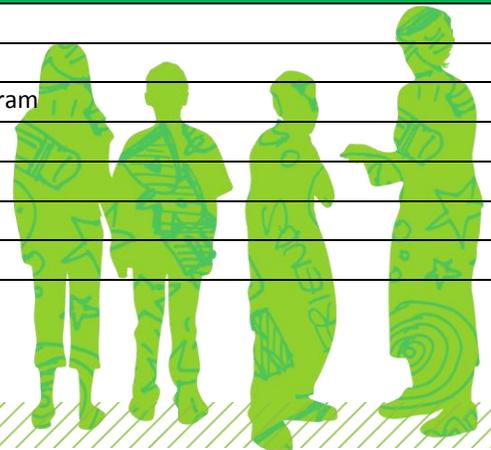
Or Margo Bowerman, Extension Educator, Crookston Regional Office, [mbowerma@umn.edu](mailto:mbowerma@umn.edu), 218-281-8695



# 4-H X-Camp Schedule

## Tentative Schedule:

Tuesday, June 3, 2014	
Time	Activity
12:00pm – 1:30pm	Registration, get settled in room
1:30pm – 2:15 pm	Welcome, ice breakers
2:15pm – 3:15pm	Campus orientation and tour
3:15pm – 4:45pm	Leadership activities
4:45pm – 6:00pm	Dinner and free time
6:00pm – 8:30pm	Special event
8:30pm – 10:00pm	Free time/activities
Wednesday, June 4, 2014	
Time	Activity
6:30am – 8:00am	Breakfast
8:20am	Gather to walk to program
8:30am – 10:00am	First program
10:10am – 11:40am	Second program
11:40am – 12:30pm	Lunch
12:40pm – 1:05pm	Third program
1:15pm – 3:15pm	Fourth program
3:25pm – 4:55pm	Fifth program
5:00pm – 6:30pm	Dinner
6:30pm – 10:00pm	Free time/activities
Thursday, June 5, 2014	
Time	Activity
6:30am – 8:00am	Breakfast
8:20am	Gather to walk to program
8:30am – 10:00am	Sixth program
10:10am – 11:40am	Seventh program
11:40am – 12:30pm	Lunch
12:35pm – 1:00pm	Closing Ceremony



# 4-H X-Camp Registration

REGISTRATION: DUE TO THE REGIONAL OFFICE BY MAY 21, 2014.

Individuals will not be considered registered until payment is received (total cost \$125). Youth that are not currently 4-H members will need to complete a short term member enrollment

NAME OF PARTICIPANT:

E-MAIL:

ADDRESS:

MEMBER/CHAPERONE/CAMP COUNSELOR FROM \_\_\_\_\_ COUNTY 4-H  
*circle one*

GRADE:

MALE/FEMALE:

NAME OF CHAPERONE:

T-SHIRT SIZE:

Youth Small

Youth Medium

*circle one*

Adult Small

Adult Medium

Adult Large

Adult XLarge

Return this form with payment to:  
 Mahnomon County Extension Office  
 115 East Madison Avenue  
 PO Box 477  
 Mahnomon, MN 56557

4-H Federation/Council will sponsor: \$62.50

Make checks payable to University of Minnesota

Please rank your interest in the programs, with 1 being the program you are most interested in and 10 being the program you are least interested in:

RANK	PROGRAM NAME
	Agriculture Systems Management - Welding
	Animal Science
	How Can I Be an Astronomer? Explore Astronomy in a Planetarium and Find Out!
	Aviation
	Basic Bookbinding: Create Your Own Book
	Equine Science
	Horticulture Happenings
	Minecraft Home Landscapes
	Fun with Musical Keyboards
	Get Creative with Marketing
	Notable Nature
	Getting Down and Dirty to Study Soils
	Be a Water Investigator

