

**Developed by the
University of Minnesota:**

Southwest Research and Outreach Center

Southern Minnesota Area
Health Education Center

Extension

Partnering with:

Southwest/West Central
Service Cooperatives

Redwood County Public Health Services

Funding by:

University of Minnesota Parker Sanders Fund

Redwood Area Hospital

Sanford Health - Tracy/Westbrook

Wal-Mart

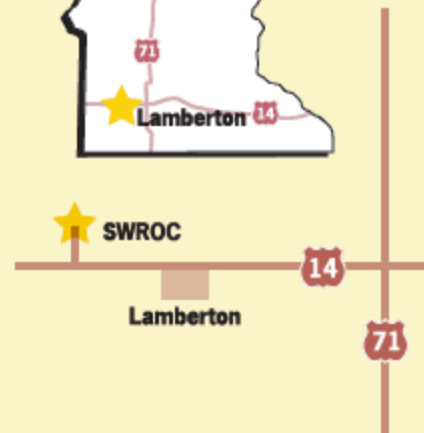
The cost to attend University on the
Prairie is \$50. Payment will be
collected after acceptance into the
program.

Additional Information:

<http://swroc.cfans.umn.edu>
507-752-7372

Daily Sessions
8:30 am - 4:30 pm

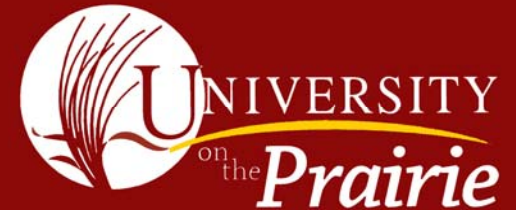
Thursday Evening Picnic
5:30 pm - 8:00 pm
featuring Raptor Center!



**Southwest Research and
Outreach Center (SWROC)**

23669 130th Street
Lamberton, MN 56152
507-752-7372
<http://swroc.cfans.umn.edu>

where can
science
take you?



Tuesday, Aug. 4—Thursday, Aug. 6, 2009

University of Minnesota Southwest Research and Outreach Center

This intensive, hands-on experience is a chance for
students entering grades 8-10 in fall 2009 to explore
career opportunities in four science based areas:

- Food Science
- Environmental Science
- Health Care
- Engineering



Do you ever wonder why you are studying science?

University on the Prairie will show you how to turn science education into an exciting career that fits your unique interests!

- Do you like gadgets, machines and electronic devices? **Engineering!**
- Do you like the outdoors? **Environmental science!**
- Do you like helping people who are sick? **Healthcare!**
- Are you interested in food? **Food science!**

University on the Prairie takes students in grades 8-10 through three days of engaging hands-on experiences that will show you what you can do with your science education. Sixty students will be selected to participate and will explore a variety of career opportunities in science-based areas important to this region through interactive learning in classrooms, labs and the great outdoors at the Southwest Research and Outreach Center at Lamberton, Minnesota. The three days of learning, fun and activities will end with a closing celebration for participating students, their families, teachers, faculty, and media. The University of Minnesota Raptor Center, a display of final projects, a short program and a family picnic will all be part of this celebration.

The following have joined together to bring this opportunity to Southwest Minnesota:

- University of Minnesota faculty who will lead each component
- Eight teachers from area school districts as associate instructors
- University of Minnesota graduate students
- Southwest Research and Outreach Center
- Southern Minnesota Area Health Education Center

Health Science

More than 300 careers in healthcare will be possible for you when you start with a good science education. Think nursing is just for girls? Think again! Explore the high-tech, high-touch, fast-paced profession of nursing with faculty and graduate students from UM School of Nursing. Ever tried to dress yourself with one hand? Can you imagine cooking a meal if you were blind? The career of occupational therapy uses creativity, patience & a thorough understanding of human physiology and psychology to help persons with physical and mental challenges achieve independence in all areas of their lives. Does the need for a caring health professional stop at the end of life? Not at all! One of the most necessary and appreciated businesses in rural communities is the funeral home, but there is a serious shortage of morticians. Learn how caring, compassion and a good science education can lead to a rewarding career as a funeral director.

Food Science

What would happen if you were sick for over a week and unable to eat? What if you were unable to swallow? Why do apples keep the doctor away? How does a food scientist create a new food? In this session, you will explore the exciting world of nutrition and food science. See and taste foods dietitians use with patients to improve their health, learn the how's and why's fruits and vegetables are good for people, and explore how food scientists develop new food products. Food is part of everyone's life. Learn how food and nutrition can become a rewarding career.

Environmental Science

Forces of Nature – Earth, Wind, Water, and Fire

They helped form the **Earth** beneath our feet: **Water – Wind – Fire**. No one can control them. They can bring both blessings and devastation and they can also teach us important lessons. The Environmental Science section will introduce students to the **Forces of Nature**. Have you ever wondered how wind and water causes soil erosion? In these activities, students will gain a better understanding of natural events including wind and water erosion and their impact on land and water. Do you know why fire is important for prairie regeneration? Learn how prairie ecosystems evolved with periodic fire, making prairie vegetation and wildlife species dependent upon the regenerating effects of fire. You'll learn all this and more through observation, building working models, and gathering and comparing data at University on the Prairie.

Engineering

Wind energy prevails in southwest Minnesota right now. What energy options will be available in the next five years? What does energy from biomass look like and will it be a viable option in the future? Maybe our next new source of energy is something we haven't even tapped into. There are many career options in Southwest Minnesota for developing new sources of energy. University on the Prairie will provide three days for exploring the future of renewable energy.

