



## SUMMER EXPERIENCE in AGRICULTURAL RESEARCH

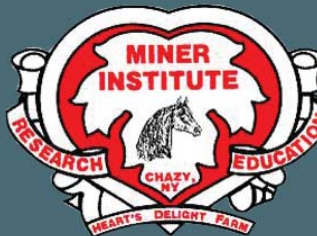
Students will learn research techniques and processes in a variety of areas including: nutrient management, dairy cattle nutrition, agronomy, reproductive physiology of dairy cattle and horses, and dairy cattle behavior.

Forage quality assessment procedures will be taught in Miner Institute's Forage Laboratory. Students may also gain work experience in the dairy research facility: feeding cows for individual feed intakes, measuring in situ digestibilities in ruminally cannulated cows, milk sampling, urine/fecal sampling, blood sampling, and assessing dairy cattle behavior.



Send application and two letters of recommendation by Feb. 15, 2011 to:

Katie Ballard  
Director of Research  
Miner Institute  
PO Box 90  
Chazy, NY 12921  
518-846-7121, ext. 112  
518-846-8445 (fax)  
ballard@whminer.com



**The William H. Miner  
Agricultural  
Research Institute**  
May 23 - Aug. 12, 2011  
[www.whminer.org](http://www.whminer.org)



# Miner Institute Dairy Research Facility

## ABOUT MINER

The William H. Miner Agricultural Research Institute is located in Chazy, New York, about 40 miles south of Montreal in the Champlain Valley. For more than a quarter century, Miner Institute has conducted programs in education and research, foremost of which are in-residence undergraduate programs in agriculture and environmental science. The Summer Experience in Agricultural Research offers credits through a combination of work experiences and independent study.

The William H. Miner Agricultural Research Institute consists of 8,600 acres of land, including many miles of hiking and biking trails available to students. The dairy facility houses approximately 300 registered Holstein cows in an automated free stall barn and a 16-stall tie stall barn is used for conducting research trials. The dairy and crop operations serve as a learning environment for students enrolled in the Summer Experience in Farm Management program. Miner Institute also breeds, trains and shows a herd of approximately 25 Morgan horses, utilized by students enrolled in the Summer Experience in Equine Management program.

Students interested in careers in veterinary medicine and graduate school will find the Summer Experience in Agricultural Research useful in preparing for academic and career opportunities in the agricultural research field.

## ABOUT THE PROGRAM

Weekly meetings update the students about research and farm activities including dairy, crops and equine. Extended sessions on relevant topics such as nutrition, reproduction, mastitis management, animal health and field crops will be held throughout the summer. Students will also participate in a weekly seminar series. Instructors include Miner Institute faculty members Katie Ballard, Kurt Cotanch, Heather Dann, Wanda Emerich, Rick Grant, Steve Kramer, Karen Lassell, Eric Young and graduate students. The small class size makes it possible to at least partially tailor the program to meet the needs of each student.

Each student will become involved in an independent study project in one of the areas which is the focus of Miner Institute's research program: dairy nutrition, dairy behavior, equine behavior, dairy reproduction, equine reproduction, crops, nutrient management, and calf management. Each student will work with a faculty member to plan, conduct, and summarize the

project. At the end of the summer, oral and written reports will be presented.

All students will be asked to work long hours on occasion, but no more so than would normally be expected in an agricultural research facility as a graduate student or technician. Students work approximately every other weekend.

This program is available to agriculture and life science students in their junior or senior years of study. Students are encouraged to register for college credit at their home institution. Students are responsible for making arrangements for credits. This program is designed as a 4-credit course, although other arrangements may be made through the student's home institution.

Each student's stipend for the 13-week semester which begins Monday, May 23 and ends Friday, Aug. 12, 2011 is \$3,000. The students live at Miner Institute, where dormitory housing and breakfast and lunch each weekday are provided at a total cost of \$300 for the summer session.

Download an application and learn more about this opportunity at [www.whminer.org](http://www.whminer.org), click on the EDUCATION link.