



GEAR-Tech-21 Camp 2009

Dates	Locations	Tuition
Camp.1.0: GEAR Explorers		
June 15-19	Holdrege	\$110
June 15-19	Lexington	\$110
July 5-10	Grenta*	\$182**
July 19-24	Aurora*	\$155
Camp.2.0: In-High GEAR		
June 1-5	Omaha-Marrs	\$110
June 15-19	Lexington	\$110
June 21-26	Monmouth, IL*	\$155
July 19-24	Aurora*	\$155

IMPORTANT: Space is limited, and camps will fill on a first-come, first-served basis. Also, the Aurora Camp is a Year 1 and Year 2 Camp.

*The Grenta, Aurora and Monmouth Camps are the only overnight camps. You may make special arrangements to drop off your child on Sunday. All other camps are day-camps and youth will need to be picked up at the end of camp each day.

** Early –bird cost is \$182, after April 1st cost is \$200. No refunds after May 1, 2009. Limited scholarships are available. For details visit: <http://4hset.unl.edu/itest/camp.php>

We're looking forward to seeing you in camp this summer!

The funding for the GEAR-Tech-21 project was received as a grant from the National Science Foundation (NSF) as part of the Information Technology Experience for Students and Teachers (ITEST). The goal of the program is to provide an immersive hands-on, minds-on experience in information technology for youth ages 11-15. Award Number ESI-0624591



Project Partners:

- Nebraska 4-H
- UNL Biological Systems Engineering Department
- National Science Foundation
- Nebraska Center for Research on Children, Youth, and Families
- University of Nebraska-Omaha
- UNL Computer and Electronic Engineering Department
- National 4-H Council
- National Afterschool Association

Extension is a Division of the Institute of Agriculture and Natural Resources at the University of Nebraska–Lincoln cooperating with the Counties and the United States Department of Agriculture.

The 4-H Youth Development program abides with the nondiscrimination policies of the University of Nebraska–Lincoln and the United States Department of Agriculture.



Summer Camps 2009



GEAR-Tech-21 Summer Camp

*GEospatial And Robotics Technologies
for the 21st Century*

Nebraska 4-H Summer Camps opportunities

Nebraska 4-H is offering a series of 5-day GEAR-Tech-21 summer camps for middle-school students covering the basics in robotics, GPS, GIS technologies. Two types of camp setting are available – day and overnight, see our listing to find the camp that fits your summer schedule.

Camp Levels:

- **Camp.1.0: GEAR Explorers** – A week-long day or overnight summer camp program for participants new to the program. Camps are coordinated by Nebraska 4-H and by local volunteers.
- **Camp.2.0: In-High GEAR** – The second week-long day or overnight summer program for middle-school students. It is for participants who have complete the Year 1 curriculum by attending regular meetings throughout the school year. The camp experience will explore higher level use and integration of robotics and GPS.

Nebraska 4-H is sponsoring these camps and encourages the creation of new Robotic Club in schools and communities throughout Nebraska and the United States. Camp participants have the opportunity to help organize Robotic Clubs affiliated with 4-H.

How do I sign up?

Go to our Nebraska 4-H GEAR-Tech-21 website:
<http://4hset.unl.edu/itest/camp.php>
Check out the program information and participation requirements. Fill out the application form, select the camp closest to you, and send your registration to our office at the University of Nebraska-Lincoln (address listed at right).



What are the educational benefits of participating in the GEAR-Tech-21 program and curriculum?

The curriculum and activities have been aligned to national educational standards for science, technology, engineering, and math (STEM). Initial studies from 2007 and 2008 summer camps show a consistent increase in STEM skills in youth from the beginning to the end of the camps. In addition to academics, the curriculum teaches teamwork, problem solving, and confidence.



For more information contact:

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GEAR-Tech-21: Year-Round Program Summary

This is a two-year program. Students will start by attending a camp, then complete the school-year curriculum, return for a year 2 camp, and complete a second school-year of curriculum.

- The purpose of the Robotics Clubs is to continue the learning, exploration and excitement of camp throughout the coming school year. And, in the Summer 2010, club participants come together for another camp experience with the opportunity to explore even more about robotics, GPS, and GIS.
- Clubs will complete about 80 hours of activities during the school year. Many groups meet for two hours after school once a week.



Adult Volunteers/Leaders/Teachers:

- Adult volunteers, leaders and teachers make this program a success for the students who participate by leading club activities during the school year and assisting with summer camps. Each adult needs to dedicate time to prepare and try out the activities before each lesson for about one hour per-weekly meeting. Depending on your previous experience, you may take more or less time.
- One-hour online trainings are offered monthly for all club leaders. These sessions provide insightful training to the curriculum and activities planned for the month.
- Your primary opportunity for training is during the camp programs. At least one leader per club is encouraged to attend camp with their group. This will provide direct instruction for you as well as hands-on practice teaching the activities to youth.
- Professional development opportunities for adult volunteers, club leaders and educators are offered separately from the camps. Contact the project staff for more information about in-person training sessions.