Course Title
GPS (Global Position Systems) I: Introduction to Real Time Kinematic Surveying

Description
This is a beginner’s class on how to use GPS equipment for mapping and surveying. Students will receive "hands-on" training on a Trimble 5700 GPS Total Station. The class will consist of 2 classroom sessions: Tuesday morning and Thursday morning; and a field training session. The class will be divided into 3 groups for field training to allow hands-on experience with use of GPS equipment.

What is GPS?
GPS stands for “Global Position System.” GPS equipment communicates with satellites to determine locations with great precision. Thus, locations can be quickly and accurately mapped. GPS data then can be used by mapping software such as CAD and GIS.

Who should attend this class?
Anyone interested in learning more about GPS equipment and mapping. Prior experience with GPS or surveying equipment is not necessary.

Course Syllabus:

C Understanding basic GPS principles and fundamentals
C Understanding the RTK system and requirements for real-time kinematic surveying (survey grade – centimeter precision)
C General equipment guidelines
C Setup, configuring, and operating the Trimble 5700 total station for RTK surveying
C Field data collection procedures and office data processing
Instructors

The course will be taught by the:

District Management System (DMS) Team  
Extension Agricultural Engineering  
Texas A&M University System  
(956-969-5615)

Eric Leigh  Extension Associate  
Martin Barroso  Agricultural Technician  
Dave Flahive  System Analyst/Programmer  
Guy Fipps  Professor and Extension Agricultural Engineer

Dates and Location

December 10-12, 2002  
Texas A&M Agricultural Research and Extension Center  
Weslaco, Texas  
Room 157

Course Schedule

Classroom Sessions  
*(students are expected to attend both sessions)*

Tuesday, Dec 10  8:30 am - 12 pm  
Thursday, Dec 12  8:30 am - 12 pm

Field Training  
*(students should select one of the following group sessions)*

Group 1 - Tuesday, Dec 10  1 pm - 4 pm  
Group 2 - Wednesday, Dec 11  8:30 am – 12 pm  
Group 3 - Wednesday, Dec 11  1 pm - 4 pm

Registration:

The registration fee is only $15 due to financial support through the Irrigation Conservation in the Rio Grande Basin Initiative.

Enrollment will be limited to ensure small class size.

A portion of the costs of this class is funded by Texas Cooperative Extension through the Rio Grande Basin Initiative administered by the Texas Water Resources Institute of the Texas A&M University System with funds provided through a grant from Cooperative State Research, Education, and Extension Service, U.S. Department of Agriculture, under Agreement No. 2001-001-45049-01149.

Educational programs conducted by Texas Cooperative Extension serve people of all ages regardless of socioeconomic level, race, color, sex, religion, handicap or national origin. The Texas A&M University System, U.S. Department of Agriculture and the County Commissioners Courts Texas Cooperating.
Please indicate your preference for the field training session:

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Name ___________________________________
Company _______________________________
Address _________________________________
City _____________________________________    State _____ Zip ___________ 
Day Phone ___________________________

Number of Persons ______@ $15 each = _____________
List of Additional Persons
______________________________________________________________________

Total Enclosed ($) _____________

Make Checks and Money Orders payable to: Irrigation Short Course

Mail to:                      Additional class information:
Amy Hardeman                  Eric Leigh or Martin Barroso
Bio and Ag Engineering        Texas Cooperative Extension
2117 TAMU                     Biological and Agricultural Engineering
College Station, TX 77843    (956) 969-5615 phone
(979) 845-3977 phone          email: e-leigh@tamu.edu
(979) 847-8828 fax
email: amyhardeman@tamu.edu