# Irrigation Technology Center

Texas A&M University System

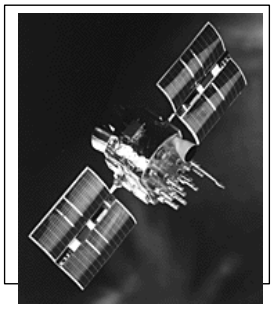
## SHORT COURSE ANNOUNCEMENT

### 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:

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

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The Irrigation Technology Center, a center of the Texas Water Resources Institute, is administrated jointly by Texas Cooperative Extension and Texas Agricultural Experiment Station, Texas A&M University System.
Irrigation Technology Center, TAMU 2117, College Station, TX 77843-2117.

## 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.

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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.

Texas Cooperative Extension - Texas Agricultural Experiment Station
Texas Water Resources Institute - Texas A&M University System

# Irrigation Technology Center

http://itc.tamu.edu

## SHORT COURSE REGISTRATION FORM

GPS (Global Position Systems) I
Dec 10-12, 2002
Weslaco, Texas

***Please indicate your preference for the field training session:***

| Choose One | |
|---|---|
| 12/10: 1 pm – 4:30 pm | |
| 12/11: 8:30 am – 12 pm | |
| 12/11: 1 pm – 4:30 pm | |

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:**
Amy Hardeman

Bio and Ag Engineering
2117 TAMU
College Station, TX 77843

(979) 845-3977 phone
(979) 847-8828 fax

email: amyhardeman@tamu.edu

**Additional class information:**

Eric Leigh or Martin Barroso

Texas Cooperative Extension
Biological and Agricultural Engineering

(956) 969-5615 phone

email: e-leigh@tamu.edu