Irrigation Technology Center/Texas A&M University System  
TEXAS A&M SCHOOL OF IRRIGATION  
2004 Summer Short Course Schedule

**SCHEDULE** (check website for possible additions and changes)

**Introduction to Irrigation Design Software**
- **College Station** May 17 10 am - 6:30pm

**Landscape Irrigation Auditing and Management**
- **San Marcos** June 22-23
  - Tuesday 8:30 am - 5:00 pm
  - Wednesday 8:30 am - 5:00 pm

**LIA Certification Exam**
- **San Marcos** June 23 ~ 5 pm

**Electrical Wiring and Safety for Landscape Irrigation**
- July 29 - all locations 8:30 am - 5 pm

**Irrigation CAD Workshop**
- **College Station** August 19-20
  - Thursday 10:00 am - 6:30 pm
  - Friday 8:15 am - 4:45 pm

**CONTINUING EDUCATION CREDIT**

- TCEQ (Texas Commission on Environmental Quality)  
  **continuing education credits** for Licensed Irrigators:
  - Electrical Wiring and Safety for Landscape Irrigation - 8 hours
  - Introduction to Irrigation Design Software - 8 hours
  - Irrigation CAD - 16 hours
  - Landscape Irrigation Auditing and Management

**COURSE LOCATIONS**

**Amarillo**  
Texas A&M Research and Extension Center  
6500 Amarillo Blvd West, 806-677-5600

**College Station**  
Texas A&M University  
Scoates Hall - various classrooms  
contact Jacque Hand for info, 979-845-7692

**Dallas**  
Texas A&M Research and Extension Center  
17250 Coit Rd. (next to UTD), 972-231-5362

**El Paso**  
County Extension Office  
1030 N. Zaragosa, 915-859-7725

**San Marcos**  
San Marcos Activity Center  
501 East Hopkins

**Weslaco**  
Texas A&M Research and Extension Center  
2401 E. Hwy 83, 956-969-5639

*Detailed course location information will be sent with registration confirmation and will be posted at: http://irrigation.tamu.edu.*

**TEXAS A&M SCHOOL OF IRRIGATION**

The School of Irrigation is a program of the Irrigation Technology Center, Texas A&M University System, under the direction of Dr. Guy Fipps. Courses are administrated through the Texas Cooperative Extension and the Biological and Agricultural Engineering Department at Texas A&M University in College Station.

Instructors are Greg Stark for the electricity class, Brock Faulkner for the design software and Dr. Guy Fipps for the others.

We welcome comments and suggestions on classes and scheduling. Customized training programs and research services are also available. All proceeds from our short courses go to support education and research programs in landscape irrigation.
COURSE DESCRIPTIONS

Introduction to Landscape Design Software

This course provides an overview of the use of personal computers and software for irrigation system design. Students will receive hands-on experience using common irrigation design software to solve landscape irrigation design problems.

The purpose of the course is to acquaint students on the capabilities of common computer aided design software packages.

Instruction will take place in a computer lab at Texas A&M University. Enrollment is limited. Students should be familiar with personal computers using the Windows operating system. No experience in computer-aided design is required.

Irrigation CAD Workshop

This two-day course provides complete instruction on the use of CAD based design software for system design. Students will gain a functional knowledge of the most commonly used software, and leave the class able to use one for design and specifications purposes.

Topics include the menu system of the software, use of the sprinkler database for selection and locating heads, completing and importing site drawings, assigning zones, manual and automatic pipe sizing, hydraulic calculations, and producing material and cost estimates.

Instruction will take place in a computer lab at Texas A&M University. Enrollment is limited. Students should be familiar with personal computers using the Windows operating system. No experience in computer-aided design is required.

Electrical Wiring and Safety for Landscape Irrigation

This course covers the basic science of electricity and how to safely wire and troubleshoot the electrical system supplying an irrigation system. Students are introduced to the principles describing how electricity and electrical circuits "work" and learn how to use these principles to safely troubleshoot electrical system problems.

Students also learn how to size wires and install systems for different environments according to the National Electric Code requirements. Other topics include electrical safety of installers and users, human response to electricity, personal protective equipment and their use, and OSHA requirements.

Landscape Irrigation Auditing and Management

This two-day course provides instruction on irrigation system auditing and how to develop irrigation schedules that conserve water while promoting quality landscapes.

Students gain “hands-on” experience by performing three audits, and learn auditing procedures for identifying problems and system troubleshooting, conducting catch can tests, determining soil type and root depth, and producing auditing reports. Students learn how to use ET (evapotranspiration) to produce irrigation schedules.

Software and Manual

Registration includes copies of the Irrigation Auditing Manual (Version 4) and the Texas Landscape Irrigation Auditor Software (version 4.0). The software is available only to students who complete the LIA course and is designed for computers with Windows operating systems.

LIA Certification

Persons who complete the auditing course are eligible to take the Texas Irrigation Auditor Certification Exam to become Texas Certified Landscape Irrigation Auditors. Upon passing the exam, you will receive a certificate acknowledging this achievement and be listed in our directory of certified auditors. Note: there are currently no clear regulations governing auditing in Texas, and certification is voluntary.

What to Bring....

A calculator, pen and pad for taking notes. Students in the Auditing class should wear appropriate clothes and shoes for field activities.

FOR MORE INFORMATION:
Contact Amy Hardeman (979) 845-5614
amyhardeman@tamu.edu

Visit Us on the Web....

Irrigation Technology Center
Main website - http://itc.tamu.edu

TexasET Network and Web Site
http://texaset.tamu.edu
Provides daily weather and ET data for over 20 locations in Texas and contains interactive calculators for determining irrigation needs and runtimes for turf, landscapes and agricultural crops. The site contains historic rainfall and ET rates for 25 cities in Texas and other resources related to water and irrigation.

Texas A&M School of Irrigation Web Site