

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

College Station and by TTVN to:

Amarillo, Dallas, El Paso, Weslaco

This course will originate in College Station and be broadcasted by the Texas Tele-Video Network to other locations. TTVN allows two-way audio/video communications between sites.

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.

The Irrigation Technology Center is a center of the Texas Water Resources Institute,
administrated through Texas Cooperative Extension and the Texas Agricultural Experiment Station.

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