SCHEDULE

GIS (Geographic Information Systems) I

<table>
<thead>
<tr>
<th>Location</th>
<th>Dates</th>
<th>Time</th>
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</thead>
<tbody>
<tr>
<td>El Paso</td>
<td>November 9-10</td>
<td>8:30am - 4:30pm</td>
</tr>
<tr>
<td>Weslaco</td>
<td>November 16-17</td>
<td>8:30am - 4:30pm</td>
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</tbody>
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GPS (Global Positioning Systems) I

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<thead>
<tr>
<th>Location</th>
<th>Dates</th>
<th>Time</th>
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<tbody>
<tr>
<td>El Paso</td>
<td>November 11</td>
<td>8:30am - 4:30pm</td>
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<tr>
<td>Weslaco</td>
<td>November 18</td>
<td>8:30am - 4:30pm</td>
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COURSE LOCATIONS

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

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://idea.tamu.edu.

COURSE DESCRIPTIONS

GIS (Geographic Information Systems) I:
This is a beginning course on how to use GIS for producing maps of water distribution network service areas (fields) and related structures/facilities. Students will learn basic mapping skills including use of areal photographs to quickly map areas/facilities.

Who should attend this class?
People involved in management, planning, and maintenance of facilities (such as irrigation districts, cities, utilities) or anyone interested in learning more about GIS equipment and mapping. Prior experience with GIS or surveying equipment is not necessary. Familiarity with personal computers and common software is required.

Course Syllabus:
- Understanding basic GIS principles and fundamentals
- Difference in terminology between ArcView 3.1 and ArcGIS 8.1
- Creating and building “shp” files (shape files, a GIS file format)
- GIS data linking
- Labeling features
- Importing/exporting files and images
- Working with the attribute table
- Adding/deleting fields

GPS (Global Positioning Systems) I: Introduction to Real Time Kinematic Surveying
This is a beginner’s class on how to use GPS equipment for mapping and surveying. Students will receive “hands-on” training on survey grade and consumer GPS equipment.

Who should attend this class?
People involved in management, planning, and maintenance of facilities (such as irrigation districts, cities, utilities) or anyone interested in learning more about GPS equipment and mapping.

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