

FACM 01

Mathematics for the Cadastralist

This course will instruct the student on area calculations, computation of curves, bearings and distance relationships, computation of area using coordinates, formula manipulation, basic principles of right triangles, oblique triangles and the practical application of both. The class will consist of lecture, examples, case problems and a comprehensive exam. **Required Course Materials:** Notebook paper, pencils, pens, calculator (with DMS and trig functions), triangles (large and small, 45 & 60 degrees), erasers, protractor, compass, engineering scale, high lighter (various colors), template for circles, graph paper.

*Please make an effort to understand how to work your calculator prior to class. Your instructor is familiar with and can show you how to use the Texas Instruments TI-30XA or TI-36X calculators.

FACM 02

The Public Land Survey System

This course is an in-depth study of the history and development of the Public Land Survey System in Florida. The student will be instructed on all aspects of the system including; township layout, section breakdown, fractional sections, Government lots, land grant exceptions, etc. Also covered will be navigable waters, map projections, coordinate systems & calculations, as well as discussion on Florida Statutes and Florida Administrative Code that are important to the cadastral mapper. The class will consist of lecture, examples, case problems and a comprehensive exam. It is recommended that course 01 be taken prior to course 02. **Required Course Materials:** Notebook paper, pencils, pens, calculator (with DMS and trig functions), triangles (large and small, 45 & 60 degrees), erasers, protractor, compass, engineering scale, high lighter (various colors), template for circles, graph paper.

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FACM 03

Interpretation of Real Property Descriptions

This course is designed to give the student some practical, hands-on experience in the interpretation and plotting of land descriptions, while providing the insight necessary to understand how they are derived and how to resolve problems. Types of descriptions, definitions, in-depth discussion of metes and bounds, plats, curves, and stationing will be covered. Lecture and case problems along with text material and handouts make up the body of this course. It is recommended that course 02 be taken prior to course 03. **Required Course Materials:** Notebook paper, pencils, pens, calculator (with DMS and trig functions), triangles (large and small, 45 & 60 degrees), erasers, protractor, compass, engineering scale, high lighter (various colors), template for circles, graph paper.

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FACM 04

Basic Map Compilation

This course is designed to enable the student to compile a cadastral map using state plane coordinate information, platted subdivisions, road right-of-way maps, deeds, and aerial photography. Time is spent reviewing the compilation process including where and how to research for needed information. Additional class time is given to the state plane coordinate system and aerial photography interpretation. The course is mostly practical work with some lecture and case problems. Text material handouts make up the bulk of the course. The test is based on knowledge of the entire compilation process. It is recommended that courses 01-03 be taken prior to course 04. **Required Course Materials:** Notebook paper, pencils, pens, calculator (with DMS and trig functions), triangles (large and small, 45 & 60 degrees), erasers, protractor, compass, engineering scale, high lighter (various colors), template for circles, graph paper, a foam board, an erasing shield, colored pencils (red, green, black), mapping paper will be provided by FACM, any miscellaneous tools the student feels they need to map.