

# **SURVEYING SPECIALIZATION**

## **SIUC CIVIL & ENVIRONMENTAL ENGINEERING DEPARTMENT**

### **JOLIET PROGRAM**

#### **CERTIFICATE OF COMPLETION ISSUED TO THOSE STUDENTS COMPLETING 24 SEMESTER HOURS OF SURVEYING COURSES BY THE CEE DEPARTMENT, COLLEGE OF ENGINEERING, SIUC**

Beginning January 1, 1998 an applicant for examination to become a Land Surveyor-in-Training must have one of the following:

- (1) a bachelor of science degree in Land Surveying from an accredited college or university.
- (2) a bachelor of science degree in a related science including at least 24 semester hours of land surveying courses from a curriculum approved by the Illinois Department of Finance and Professional Regulation (IDFPR).

#### Definition of a Related Science Degree

A bachelor of science degree in a Related Science is a four-year curriculum that includes core courses in at least the following subjects for the minimum semester hours or their equivalent:

- (1) Mathematics (College Algebra and above) - 15 hours
- (2) Basic Sciences (Physics, Chemistry) - 8 hours
- (3) Additional Sciences - 20 hours (SEE REQUIRED LIST)

#### **CLASS MEETING DATES**

Current sequence offerings are: SPRING, 08 – CE 462: [Jan. 19&20; Feb. 16&17; March 15&16; April 26 & 27]. ( Contact Roy Frank during the month prior to the start of a session to learn the meeting dates for that semester.);

#### **NEW SEQUENCE:**

**New students must enroll in the 200 & 300 level classes. Summer 08 – CE 263; Fall, 08 – CE 361; Spring, 09 –CE 362; Summer 09 – CE 463; Fall, 09 – CE 363; Spring, 10 – CE 462; Summer, 10- CE 474; Fall, 10 – CE 461.**

#### A. SIUC Offcampus Weekend Program

This offering was developed to assist individuals who are already employed in the surveying field or who already hold a Related Science Degree and can not leave their positions to attend SIUC on a fulltime basis. This program will continue to be offered as long as the minimum number of students (30) are attending. Currently, 24 semester hours of land surveying courses are being offered on a weekend basis at Joliet Junior College and taught by a professor of SIUC. One course is offered per semester and meets four weekends per semester. The Spring Semester meetings occur in January, February, March and April. The Summer Semester meets in June and July. The Fall Semester courses are held in August, September, October, and December. These months are subject to change. The Basic Surveying course is not offered because local Community Colleges offer it, however a proficiency exam in this course is offered during each sequence. Classes usually will meet in Room D 2002, Joliet Junior College and meet from 8:00am –4:30pm Sat and 9:00 am – 2:30pm Sun.

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All registration is done at the first class meeting of each semester and is done by the instructor. Cost is \$190/ credit hour or \$570 per course plus a \$30 facility rental fee each semester beginning June, 2008.. Also a SIUC application and admission fee in the amount of \$30 will be charged at the time the program is entered.

### The course offerings are:

Basic Surveying (CE 263 – 3sh): This is an introductory course that is designed to provide the student with a basic understanding of surveying methods, computations and equipment.

Engineering Surveying (CE 361 – 3sh): This course concentrates on the survey methods and processes utilized in conjunction with Civil Engineering projects. All aspects of topographic surveying are covered in great detail. Includes computational projects, use of computer systems and a paper.

Land Surveying (CE 362 – 3sh): This course covers the history and development of the metes and bounds and U.S. Public Land Survey System. All aspects of the land survey process, retracement, legal search and legal descriptions are covered. Includes extensive computational projects, use of computer systems and a paper.

Control Surveying (CE 363 – 3sh): This course is split into two segments. The first covers Control Surveys including Geodetic Surveying and State Plane Coordinates and Global Positioning Systems. The second segment covers Construction Surveying processes. Includes extensive computational projects, use of computer systems and a paper.

Legal Aspects of Land Surveying (CE 461 – 3sh): This course covers State Surveying Standards, statute law relating to Land Surveying, ethics and guidelines. Includes an extensive research paper.

Land Development and Design (CE 462 – 3sh): This course covers all aspects of land development from the Surveyor's standpoint. Residential, industrial and recreational developments are included within the scope of this course. Includes land development design project.

Field Survey Projects (CE 463 – 3sh): This course consists of actual field projects and is designed to provide extensive field work experience in surveying. (This is a work based plus research paper course.)

Field Survey Projects Planning and Computations (CE 464 – 3sh): This course consists of planning, computation, analysis and mapping of projects undertaken in the CE 463 course. (This is a work based plus survey project specification design course.)

Information on these courses can be obtained by contacting: Roy R. Frank, Jr., IPLSA, Assistant Professor, Civil Engineering, SIUC, Carbondale, IL 62901-6603. Phone: 618/453-7830, E-mail: [frank@ce.siu.edu](mailto:frank@ce.siu.edu). The cost of this course is \$570.00 per semester. The cost is subject to change.

SIUC also offers the Industrial Engineering Technology, Bachelor of Science degree in a weekend program at Joliet Junior College which allow the student to obtain the required related science degree. Another option to receive the related science degree is the on-line University Studies Bachelor of Science degree offered by SIUC.