

## **Scholarships and Awards**

The Office of Student Work and Financial Aid administers federal, state and institutional financial aid programs, including scholarships, grants, and loans. Special financial assistance is available for students majoring in Construction Management. Industry organizations such as the Illinois Professional Land Surveyors' Association offer scholarships for students pursuing the land surveying specialization. Information on eligibility and application deadlines and forms can be found at:

www.siue.edu/engineering/scholarships.shtml www.siue.edu/ENGINEER/CONSTRUCT www.iplsa.org Office of Student Financial Aid (618) 650-3880 Department of Construction (618) 650-2088 Coordinator Email dsherri@siue.edu

### **Faculty**

#### David J. Sherrill, P.L.S (Surveying Coordinator)

CNST 264 Construction Surveying

CNST 310 Legal Aspects of Land Surveying

CNST 364 Boundary Surveying

CNST 415 Land Development

#### James P. Peterson III, P.E., P.L.S.

CNST 482 Advanced Survey Systems

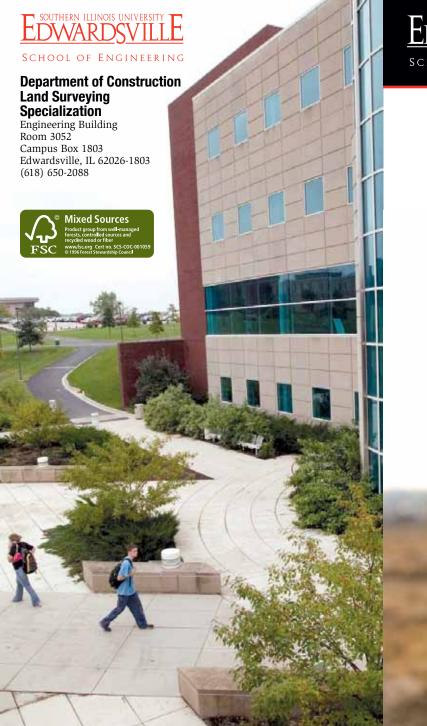
CNST 484 Survey Computations & Applications

#### Randall Pearson, Ph.D. and Shunfu Hu, Ph.D.

GEOG 418 Geographic Information Systems

GEOG 422 Remote Sensing & Digital Image Processing

GEOG 423 Computer Mapping



Department of Construction

# Land Surveying Specialization





# **Land Surveying Specialization**

The SIUE Department of Construction offers a Bachelor of Science degree in Construction Management with a minor in Business Administration and with an optional specialization in land surveying. The 139 credit-hour curriculum contains the 24 semester hours of land surveying coursework required for eligibility for the Land Surveyor in Training (LSIT) examination in Illinois. The LSIT must complete four years of qualifying work experience to be eligible to sit for the examination to become a professional land surveyor (PLS).

The Department of Construction is offering three courses in land surveying each semester and one each summer. Elective courses may also be selected from the Department of Geography. State of the art equipment, modern facilities in the Engineering Building, real-life projects on the 2,660 acre SIUE campus, and dedicated, highly qualified faculty create an ideal learning environment.



# Suggested 4-Year Plan B.S. in Construction Management Land Surveying Specialization

#### FRESHMAN YEAR

#### FALL

CNST 120 Intro to Construction MATH 150 Calculus I ENG 101 English Composition CHEM 120a Genl, Org, & Biol Chem CHEM 124a Genl, Org, & Biol Chem Lab ECON 111 Macroeconomics

**TOTAL HOURS 15** 

#### **SPRING**

MATH 152 Calculus II ENG 102 English Composition PHYS 150 University Physics PHYS 151 University Physics Lab ECON 112 Microeconomics

**TOTAL HOURS 16** 

#### **SOPHOMORE YEAR**

#### FALL

ACCT 200 Fund of Financial Acct CNST 210 Construction Methods & Materials

CNST 241 Statics & Mechanics of Solids STAT 244 Statistics Intro Fine Arts/Humanities or

Social Science

**TOTAL HOURS 17** 

#### **SPRING**

SPC 103 Interpersonal Communication CNST 264 Construction Surveying PHIL 106 Critical Thinking ACCT 210 Managerial Acct Intro Fine Arts/Humanities

**TOTAL HOURS 16** 

#### **JUNIOR YEAR**

#### FALL

FIN 320 Financial Management & Decision Making CNST 332 Mechanical Systems/HVAC CNST 351 Structural Systems Distribution Fine Arts/Humanities CNST 310 Legal Aspects of Land Surveying CNST 341 Plans & Specs

**TOTAL HOURS 16** 

#### SUMMER

IS 401 Business & Society

#### **SPRING**

CNST 301 Soils CNST 321 Electrical Systems CNST 353 Computer Applications in Construction CNST 364 Boundary Surveying

#### **TOTAL HOURS 16**

CNST 470 Internship

**TOTAL HOURS 6** 

#### **SENIOR YEAR**

#### FALL

ECON 331 Labor Economics CNST 403 Planning & Scheduling CNST 451 Estimating & Bidding CNST 482 Advanced Survey Systems Surveying Elective I

#### **SPRING**

CNST 452 Construction Management CNST 411 Construction Contracts MGMT 340 Principles of Management CNST 484 Survey Computations & Applications Surveying Elective II

**TOTAL HOURS 17** 

**TOTAL HOURS 18** 

TOTAL HOURS B.S. in Construction Management

TOTAL HOURS B.S. degree + Surveying Specialization

#### Surveying Electives (Select two from this list)

CNST 415 Land Development

GEOG 418 Geographic Information Systems

GEOG 422 Remote Sensing & Digital Information Processing

GEOG 423 Computer Mapping

### **Educational Preparation**

Students pursuing the B.S. in Construction Management can come directly from high school, from related academic fields, from the military, or from careers in the construction industry. Students pursuing the Land Surveying Specialization should have:

- Math including college algebra, and trigonometry, and be prepared to start Calculus I
- 1 year high school chemistry or physics
- 4 years high school English

Job experience in surveying is a good complement to the academic experience. Annual summer employment in land surveying is encouraged, and a formal internship with some level of managerial responsibility is required after the junior year. In addition, successful land surveying students should have:

- The ability to work as part of a team of design and construction professionals
- Aptitude for learning and effectively using computer software and hardware
- Good problem-solving ability
- Discipline to think and reason logically
- Ability to read and comprehend legal documents
- Strong written communication skills
- Strong sense of ethics, and a high level of personal integrity and professionalism

