



SOUTHERN ILLINOIS UNIVERSITY
EDWARDSVILLE

SCHOOL OF ENGINEERING

**Department of Construction
Land Surveying
Specialization**

Engineering Building
Room 3052
Campus Box 1803
Edwardsville, IL 62026-1803
(618) 650-2088



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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.siu.edu/engineering/scholarships.shtml

www.siu.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

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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

TOTAL HOURS 16

SPRING

CNST 301 Soils
CNST 321 Electrical Systems
CNST 353 Computer Applications
in Construction
CNST 364 Boundary Surveying
CNST 341 Plans & Specs

TOTAL HOURS 16

SUMMER

IS 401 Business & Society

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

TOTAL HOURS 18

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 B.S. in Construction Management 128
TOTAL HOURS B.S. degree + Surveying Specialization 139

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

