

Undergraduate Land Surveying

Degrees Available at SIUE

- Bachelor of Science in Construction Management, Land Surveying Specialization

Land Surveying Specialization at SIUE

The land surveying specialization provides the knowledge and skills necessary for entering the surveying profession. Graduates are eligible to sit for Surveyor-in-Training examinations administered by state boards of professional certification. Coursework includes significant hands-on laboratory work with conventional and advanced survey systems. The program of study consists of 24 hours of surveying courses, including 18 hours of core courses and six hours of electives.

Career Opportunities

Land surveyors are uniquely qualified to provide fundamental professional services to the engineering, construction, geographic information systems, and real estate industries. Land surveyors are employed by utility companies, government agencies, engineering firms, and construction companies. They often operate as the owners and principals of professional service firms offering cadastral, engineering, forensic, and construction services.

Admission Requirements

To be admitted to the Bachelor of Science program, students must:

- Complete all Academic Development courses required by the University.
- Complete any courses required to address high school deficiencies.
- Complete MATH 120, College Algebra (or high school equivalents) with a grade of C or better.
- Attain a cumulative grade point average (GPA) of at least 2.0 on a 4.0 scale.

Graduation Requirements

Land survey specialization students must meet all University requirements for graduation and the following construction management program requirements:

- Earn a cumulative grade point average (GPA) above 2.0 on a 4.0 scale in all construction courses.
- Earn a cumulative GPA above 2.25 on a 4.0 scale in all business courses to qualify for a minor in business administration.
- Complete the construction management senior assignment.



SIUE

School of Engineering
Department of Construction



Land Surveying Specialization Faculty

David Sherrill, BS, PLS

1979, Morrison Institute of Technology

Jeffrey Pauk, BS, PLS

1987, Illinois State University

Construction Management Program Faculty

Ahmed Abdelaty, PhD

2017, Iowa State University

Byungjoo Choi, PhD

2018, University of Michigan

Chris Gordon, PhD

2006, Carnegie Mellon University

Anne Werner, PhD, PE

2004, University of Illinois at Urbana-Champaign

Chenxi Yuan, PhD

2018, Purdue University

Emeritus Faculty

Mark Grinter, MS, PLS

2008, Southern Illinois University Edwardsville

SOUTHERN ILLINOIS UNIVERSITY
EDWARDSVILLE

SCHOOL OF ENGINEERING

Sample Four-Year Curriculum

Fall Semester

Spring Semester

| | Fall Semester | Spring Semester |
|--------|---|---|
| Year 1 | CNST 120 Introduction to Construction 2 | Experience Health (EH) 0-3 |
| | ENG 101 English Composition I 3 | ENG 102 English Composition II 3 |
| | MATH 150 Calculus I (QR) 5 | MATH 152 Calculus II (BPS) 5 |
| | ECON 111 Macroeconomics (BSS) 3 | ECON 112 Macroeconomics (BSS) 3 |
| | CHEM 120a Gen, Org, and Biological Chemistry (BPS) 3 | ACS 103 Interpersonal Communication Skills (EUSC) 3 |
| | CHEM 124a Gen, Org, and Biol Chemistry Lab (EL) 1 | Total Credits 14-17 |
| | Total Credits 17 | |
| Year 2 | CNST 210 Building Construction Materials & Methods 4 | CNST 211 Civil Construction Materials & Methods 3 |
| | ACCT 200 Fundamentals of Financial Accounting 3 | CNST 241 Statics and Mechanics of Solids 4 |
| | PHYS 141 Engineering Physics I (BPS) 3 | SURV 264 Surveying Fundamentals 4 |
| | PHYS 151L University Physics Lab (EL) 1 | ACCT 210 Managerial Accounting 3 |
| | STAT 244 Statistics (BICS) 3 | Breadth Fine & Performing Arts (BFPA) 3 |
| | Total Credits 14 | Total Credits 17 |
| Year 3 | SURV 310 Legal Aspects of Surveying 3 | CNST 301/L Soils 3 |
| | CNST 332 Mechanical Systems / HVAC 3 | CNST 321 Electrical Systems 3 |
| | CNST 351 Structural Systems 3 | CNST 341 Plans and Specifications 3 |
| | FIN 320 Financial Management and Decision Making 3 | CNST 353 Computer Applications in Construction 3 |
| | Breadth Life Science (BLS) 3 | CNST 364 Boundary Surveying 3 |
| | ACCT 340 Business Law for Accountants 3 | Total Credits 15 |
| | Total Credits 18 | |

Summer Session

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|---|---|
| SURV 470 Internship | 3 |
| MGMT 330 Understanding the Bus. Environment | 3 |
| Total Credits | 6 |

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|--------|---|---|
| Year 4 | CNST 403 Planning and Scheduling 3 | CNST 411 Construction Contracts 3 |
| | CNST 451 Estimating and Bidding 3 | CNST 452 Construction Management 4 |
| | CNST 451L Estimating and Bidding Lab 1 | SURV 484 Survey Computations & Applications 4 |
| | SURV 482 Advanced Survey Systems 4 | Surveying Elective (choose from list) 3 |
| | PHIL 323 Engineering Ethics and Professionalism 3 | IS 401 Business and Society (EGC) 3 |
| | Surveying Elective (choose from list) 3 | Total Credits 17 |
| | Total Credits 17 | |

Surveying Electives

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|----------------------------------|---|
| CNST 415 Land Development | 3 |
| SURV 470 Construction Internship | 3 |
| GEOG 418 GIS | 3 |
| GEOG 422 Remote Sensing | 3 |
| GEOG 423 Computer Mapping | 3 |

Transfer Students To maximize your transfer experience, complete the **bolded** courses/requirements pre-transfer **AND** satisfy either the Illinois Articulation Initiative (IAI) General Ed Core or receive an AA, AS, or AAT (early childhood, special ed or math) degree from an IAI community college. If 'Minor' requirements are shown, discuss careful course selection with the academic advising contact listed. Transfer Credit Equivalency Guides are located at siue.edu/transfer.

Contact Information

Department of Construction
School of Engineering
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