

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.

What can I do with a specialization in land surveying?

Land surveyors are uniquely qualified to provide fundamental professional services to the engineering, construction, geographic information systems (GIS) 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. The median annual salary for surveyors in 2020 was \$65,590 according to the U.S. Bureau of Labor Statistics.

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 GPA of at least 2.0 (on a 4.0 scale)

Graduation Requirements

Construction students must meet all University requirements for graduation and the following construction management program requirements:

- Earn a cumulative GPA above 2.0 in all construction courses
- Earn a cumulative GPA above 2.25 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
John Cabage, PhD, PE
2014, University of Tennessee

Stephen Duda, MS, PE
1988, University of Dayton

Chris Gordon, PhD
2006, Carnegie Mellon University

Ralph Tayeh, PhD
2021, University of Florida

Anne Werner, PhD, PE
2004, University of Illinois at
Urbana-Champaign

Chenxi Yuan, PhD
2018, Purdue University



SOUTHERN ILLINOIS UNIVERSITY
EDWARDSVILLE
SCHOOL OF ENGINEERING

Sample Curriculum for the Bachelor of Science in Construction Management, Specialization in Land Surveying

Fall Semester

Spring Semester

Year	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 (FQR) 5	MATH 152 Calculus II (BPS) 5
	ECON 111 Macroeconomics (BSS) 3	ECON 112 Microeconomics (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
	FST 101 Succeeding & Engaging at SIUE 1 Total Credits 18	
Year 2	CNST 211 Civil Construction Materials & Methods 3	CNST 210 Building 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) 4	Breadth Fine & Performing Arts (BFPA) 3
	Total Credits 14	Total Credits 17
Year 3	SURV 310 Legal Aspects of Surveying 3	CNST 301/CNST 301L 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

CNST 470 Internship	3
MGMT 330 Understanding the Bus. Environment	3
Total Credits	6

Year	Fall Semester	Spring Semester
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 (FRA, BHUM) 3	GBA 383 Business and Society (IS, EGC) 3
	Surveying Elective (choose from list) 3	Total Credits 17
	Total Credits 17	
	Total Hours	136-139

Surveying Electives

CNST 415 Land Development	3
SURV 470 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. Visit siue.edu/transfer to find course equivalency guides.

Contact Information

Department of Construction
School of Engineering
Phone: 618-650-2088