

**CONSTRUCTION MANAGEMENT  
LAND SURVEYING SPECIALIZATION**

130-133 Semester Hours

<b>FALL</b>		<b>SPRING</b>	
*FST 101 – Succeeding & Engaging at SIUE	1	Health Experience <sup>3</sup> (EH)	0/3
CNST 120 – Introduction to Construction	2	ENG 102 – English Composition II <sup>4</sup>	3
ENG 101 – English Composition I <sup>1</sup>	3	MATH 152 – Calculus II (BPS)	5
MATH 150 – Calculus I <sup>2</sup> (BPS) (QR)	5	ECON 112 – Microeconomics (BSS)	3
ECON 111 – Macroeconomics (BSS)	3	ACS 103 – Interpersonal Communication Skills <sup>5</sup> (EUSC)	3
CHEM 120a – Gen Org and Biological Chem. (BPS)	3		
CHEM 124a - Gen Org and Biological Chem. Lab (EL)	1		
<b>TOTAL</b>	<b>18</b>	<b>TOTAL</b>	<b>14/17</b>

<b>FALL</b>		<b>SPRING</b>	
CNST 211 – Civil Construction Materials	3	CNST 210 – Building Const. Materials and Methods	3
ACCT 200 – Fundamentals of Financial Accounting	3	CNST 241 – Statics and Mechanics of Solids <sup>6</sup>	4
STAT 244 – Statistics (BICS)	4	CNST 264 – Construction Surveying <sup>a</sup>	4
PHYS 141 – Physics I for Engineering <sup>+</sup> (BPS)	3	ACCT 210 – Managerial Accounting	3
PHYS 151L – University Physics Lab I (EL)	1	RA 101 – Reasoning and Argumentative <sup>7</sup> (See note on PHIL 323 on reverse side)	3
Breadth-Fine & Performing Arts (BFPA)	3		
<b>TOTAL</b>	<b>17</b>	<b>TOTAL</b>	<b>17</b>

<b>FALL</b>		<b>SPRING</b>	
CNST 310 – Legal Aspects of Surveying <sup>a</sup>	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 <sup>a</sup>	3
<b>TOTAL</b>	<b>15</b>	<b>TOTAL</b>	<b>15</b>

		<b>SUMMER</b>	
		SURV 470 – Internship	3
		MGMT 330 – Understanding the Bus. Environment	3
		<b>TOTAL</b>	<b>6</b>

<b>FALL</b>		<b>SPRING</b>	
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	CNST 484 – Survey Appls & Comps <sup>a</sup>	4
CNST 482 – Advanced Survey Systems <sup>a</sup>	4	IS 401 – Business and Society <sup>8</sup> /Global Cultures <sup>8</sup> (EGC)	3
ACCT 340 – Business Law for Accountants	3		
Surveying Elective <sup>b</sup> (choose from list)	3		
<b>TOTAL</b>	<b>17</b>	<b>TOTAL</b>	<b>14</b>

**Declaration of Major:** Students interested in any of the majors offered by the School of Engineering should seek advisement from the School of Engineering when they initially enroll in the University and should declare a major as soon as possible. Students admitted to programs offered by the School of Engineering shall have met University admission requirements, successfully completed any required academic development and high school deficiency courses, eligibility to enroll in MATH 125 – Pre-Calculus, and have a cumulative GPA of 2.0 or better in any completed University course work.

**SEE REVERSE SIDE FOR ADDITIONAL INFORMATION.  
FOR MORE INFORMATION CONTACT:  
THE DEPARTMENT OF CONSTRUCTION MANAGEMENT AT (618) 650-2088**

\*FST 101 – for first time freshmen only. Must be taken in the first semester.

<sup>†</sup>Physics I for Engineering - co-requisites: MATH 152 and PHYS 151L. prerequisites: ACT Math subscore of 28 or higher *or* high school physics grade of B or higher *or* Physics Readiness Exam Score 09 *or* PHYS 140.

<sup>1</sup>ENG 101 must be successfully completed within the First 30 Hours.

<sup>2</sup>Quantitative Reasoning (QR) 101 must be successfully completed within the First 60 Hours. MATH 150 successfully completed (with a grade of 'C' or better) will fulfill this requirement.

<sup>3</sup>Students may be able to complete the Health Experience (EH) as an approved project or activity; if so, an additional course is not needed. (See academic advisor for approved project or activity). In addition, \*BIOL 203 or \*BIOL 205 will fulfill a BLS and EH requirement. \*Prerequisite/s required courses.

**Completion of 10-hour Occupational Safety and Health (OSHA) Training course will also fulfill the Health Experience (EH) requirement.**

<sup>4</sup>ENG 102 must be successfully completed within the First 45 Hours.

<sup>5</sup>ACS 103 must be successfully completed within the First 30 Hours. ACS 103 can be used as a Foundations course, and will also fulfill the EUSC requirement. If ACS 101 is taken instead of ACS 103, the EUSC requirement will have to be met by another appropriate course.

<sup>6</sup>Student has option of taking CE 240 (3) and CE 242 (3) in lieu of CNST 241.

<sup>7</sup>PHIL 323 will also satisfy the RA 101 requirement.

<sup>8</sup>Interdisciplinary Studies (IS) Courses must be taken at the junior/senior level class standing. This requirement is not waived with completion of transfer associate degree or IAI-GECC. It is recommended that students choose a course to meet this general education requirement and Global Cultures (EGC). The degree in Construction Management requires IS 401, which also satisfies the Interdisciplinary Studies (IS) and the GLOBAL CULTURES (EGC) requirement.

### **Land Surveying Specialization**

The SIUE Department of Construction offers a specialization in land surveying that meets Illinois requirements for licensure. The curriculum was approved by the Illinois Department of Financial and Professional Regulation (IDFPR) in June, 2007.

The surveying coursework includes topics in construction surveying, legal aspects of land surveying, boundary surveys, survey computations and applications, and advanced survey systems. In addition, two elective courses are selected from a list of four, including remote sensing, computer mapping, and geographic information systems available from the Department of Geography, and land development offered by the Department of Construction. Courses are listed below:

#### <sup>a</sup>**Land Surveying Specialization Courses:**

*CNST 264 Construction Surveying*

*CNST 310 Legal Aspects of Land Surveying*

*CNST 364 Boundary Surveys*

*CNST 482 Advanced Survey Systems*

*CNST 484 Survey Computations and Applications*

#### <sup>b</sup>**Choose one elective from the list:**

*CNST 415 Land Development*

*GEOG 418 Introduction to GIS*

*GEOG 422 Remote Sensing and Digital Image Processing*

*GEOG 423 Computer Mapping*

### **University Requirements (Non-General Education)**

- Bachelor of Science Degree Requires completion of 8 lecture courses in life (BLS\* or LS\*), physical (BPS\* or PS\*) or social science (BSS\* or SS\*) including 2 with labs (EL\*)
- Minimum of 120 semester hours must be completed.
- Minimum GPA of 2.0 must be achieved.

\*Approved courses are identified in the catalog with this designation. Lists of approved classes may also be obtained at [siue.edu/registrar/genedguides.shtml](http://siue.edu/registrar/genedguides.shtml).