

# Construction Science and Management

120 credit hours total

YEAR 1		YEAR 2		YEAR 3		YEAR 4	
FALL	SPRING	FALL	SPRING	FALL	SPRING	FALL	SPRING
<b>*MATH 150 (3)</b> Plane Trigonometry KSC-3	<b>* PHYS 113 (4)</b> General Physics I KSC-4 PR: MATH 150 ≥C	<b>CNS 200 (2)</b> Computer Applications in Engineering and Construction PR: DEN 160, MATH 150, SO standing	<b>CNS 241 (3)</b> Strength of Material and Analysis PR: CNS 231 ≥C	<b>CNS 310 (2)</b> Introduction to Building Information Modeling PR: CNS 200, 321 both ≥C	<b>CNS 542 (1)</b> Ethics and Professional Standards PR/CO: CNS 440 ≥C	<b>CNS 510 (2)</b> Technology for Management of the Construction Process PR: CNS 310, 641, 642, 645 all ≥C	<b>CNS 528 (3)</b> Concrete and Masonry Construction PR: CNS 241 ≥C
<b>*ECON 110 (3)</b> Principles of Macroeconomics KSC-5	<b>CNS 220 (2)</b> Construction Materials PR/CO: ARE 010 or CNS 010 DEN 160	<b>CNS 210 (1)</b> Graphic Communication I PR/CO: DEN 160, CNS 220	<b>CNS 242 (1)</b> Strength of Materials Lab PR/CO: CNS 241	<b>CNS 325 (3)</b> Construction Documents PR: CNS 321 ≥C	<b>CNS 641 (3)</b> Construction Estimating PR: CNS 325, 440 both ≥C CO: CNS 645 ≥C PR/CO: CNS 642	<b>CNS 534 (3)</b> Heating and Air Conditioning PR: CNS 321 ≥C	<b>CNS 660 (3)</b> Construction Operations PR: CNS 542, 641, 642, 645 all ≥C PR/CO: CNS 510, 550, 643, 646
<b>DEN 160 (1)</b> Engineering Orientation	<b>CE 212 (3)</b> Elementary Surveying Engineering PR: MATH 150 ≥C	<b>CNS 231 (3)</b> Statics A PR: MATH 150, PHYS 113 both ≥C	<b>CNS 321 (3)</b> Graphic Communications II PR: CNS 210, 220 both ≥C, PR/CO: ARE 010 and 012 or CNS 010 and 012	<b>CNS 440 (3)</b> Construction Methods and Equipment PR: CNS 321, 330, COMM 106, ACCTG 231 all ≥C PR/CO: CNS 241	<b>CNS 642 (3)</b> Construction Management PR: CNS 440 ≥C	<b>CNS 536 (3)</b> Water Supply and Plumbing PR: CNS 321 ≥C	<b>MANGT 530 (3)</b> Labor Relations and Negotiations PR: MANGT 220 ≥C
<b>* ENGL 100 (3)</b> Expository Writing I KSC-1	<b>* ENGL 200 (3)</b> Expository Writing II KSC-1 PR: ENGL 100 ≥C	<b>ACCTG 231 (3)</b> Introduction to Managerial Accounting	<b>CNS 330 (3)</b> Site Construction PR: CE 212, CNS 200, 210, 220, ENGL 200, PHYS 113 all ≥C	<b>CNS 524 (3)</b> Steel and Timber Construction PR: CNS 241 ≥C	<b>CNS 645 (3)</b> Construction Scheduling and Cost Control PR: CNS 325, 440 ≥C CO: CNS 641 PR/CO: CNS 642	<b>CNS 643 (3)</b> Preconstruction Services/Design Build PR: CNS 641, 642, 645 ≥C	<b>▲ Elective (2)</b> Professional
<b>* Elective (3)</b> Arts and Humanities KSC-6	<b>* COMM 106 (3)</b> Public Speaking KSC-2	<b>MANGT 220 (3)</b> Principles of Management	<b>MANGT 230 (3)</b> Business Law I	<b>CNS 535 (3)</b> Electrical and Lighting PR: CNS 321 ≥C	<b>ENGL 417 (3)</b> Written Communication for the Workplace PR: ENGL 200	<b>CNS 646 (2)</b> Construction Financial Management PR: CNS 641, 642, 645 ≥C	<b>* Elective (3)</b> Institutional KSC-7
<b>CNS 010 (0)</b> New Student First-Year Workshop 1 PR/CO: DEN 160	<b>CNS 012 (0)</b> New Student First-Year Workshop 2 PR/CO: DEN 160	<b>* Elective (3)</b> Social and Behavioral Sciences KSC-5	<b>* Elective (3)</b> Arts and Humanities KSC-6	<b>CNS 550 (2)</b> Construction Safety PR/CO: CNS 535, 440	<b>* Elective (3)</b> Institutional KSC-7	<b>▲ Elective (2)</b> Professional	

(13 credit hours)

(15 credit hours)

(15 credit hours)

(16 credit hours)

(16 credit hours)

(16 credit hours)

(15 credit hours)

(14 credit hours)

## KEY

■ = Prerequisite for another course    PR = Prerequisite requirement    PR/CO = Concurrent or prerequisite requirement  
 \* = K-State Core (KSC) course    ▲ = See department approved electives    ● = Only offered in the semester shown

# Construction Science and Management Curriculum Notes

A letter grade of C or better is required for all prerequisite courses prior to taking subsequent departmental and non-departmental prefix courses. A letter grade of C or better is required for all graded departmental prefix courses applied to the degree program.

MATH 220 Analytical Geometry and Calculus I may substitute for MATH 150.

## Professional Electives

Professional electives are to be selected from current approved departmental lists. More information can be found at [are-cns.k-state.edu/undergrad/cns](http://are-cns.k-state.edu/undergrad/cns).

## K-State Core

The K-State Core (KSC) is the university's version of the systemwide general education framework established by the Kansas Board of Regents.

**KSC requirement 1** – English (6 hours)

**KSC requirement 2** – Communications (3 hours)

**KSC requirement 3** – Math and Statistics (3 hours)

**KSC requirement 4** – Natural and Physical Sciences (4-5 hours)

**KSC requirement 5\*** – Social and Behavioral Sciences (6 hours)

**KSC requirement 6\*** – Arts and Humanities (6 hours)

**KSC requirement 7** – Institutional Electives (6 hours)

To view course lists for each requirement, visit [k-state.edu/provost/kstate-core](http://k-state.edu/provost/kstate-core).

*\*Requires two courses from two subject areas.*