

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