Professional Elective List

Department of Architectural Engineering and Construction Science and Management
Kansas State University

Construction Science and Management

Professional electives are upper level courses selected to develop and enhance a student’s knowledge of a specific specialty area in the science of construction.

Students may take any of the courses on the approved list below to meet the remainder of their professional elective requirements. Students are responsible for checking current semester offerings and prerequisites and meeting any such requirements prior to enrolling in any of the following courses.

- ARE 311 CAD in Engineering and Construction (2) (S, Int) (1 hr Comp Elective, 1 hr substitute for ARE 310)
- ARE 540 Building Mechanical Systems (3) (F, S)
- ARE 712 Energy Modeling Lab (1) (S)
- ARE 725 Cold-Formed Steel Design (V) (Int)
- ARE 726 Masonry Structural Design (3) (S)
- ARE 731 Advanced Lighting Design (3) (S)
- ARE 734 Advanced Mechanical Systems Design (3) (F, S)
- ARE 735 Electrical Systems Design (3) (F, S)
- ARE 736 Advanced Plumbing Design (3) (F)
- ARE 741 Building Communications Systems (3) (F)
- CNS 499 Honors Research in Construction Science (Var)
- CNS 544 Problems in Construction Science (Var)
- CNS 545 Heavy Construction Methods (3) (F)
- CNS 629 Tilt-up Concrete Structures in Construction Management (2) (Int)
- CNS 634 Building Systems Commissioning (2) (Int)
- CNS 644 Topics in Construction Management (Var)
- CNS 655 Current Trends in Construction (2) (F, S)
- CNS 738 Mechanical and Electrical Estimating (2) (F, S)
- DEN 300 Intro to Total Quality Management (1) (S, Int)
- IMSE 530 Engineering Economics Analysis (2 or 3) (F, S)
- PLAN 315 Intro to City Planning (3) (F)
- PLAN 655 Land Development Planning (3) (S) (Preq: PLAN 315)
- PLAN 753 Planning Law (3) (F)
- GEOG 360 Sustainability Science (3)

Course offerings: F = Fall, S = Spring, U = Summer, Int = Intersession