

## PROFESSIONAL ELECTIVE LIST

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

Construction Science and Management

Fall 2007

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 MUST take at least 2 credit hours from the following list of Construction topics:

ARE	630	Introduction to LEED (2) (Int)
CNS	545	Heavy Construction Methods (1 of 3) (F)
CNS	634	Building Systems Commissioning (2) (F)
CNS	610	Pre-Engineered Metal Buildings (1 of 2) (Int)
CNS	738	Mechanical and Electrical Estimating (2) (F, S)
DEN	300	Intro to Total Quality Management (1) (S, Int)
PLAN	753	Planning Law (2 of 3) (F, Pr.: PLAN 315)

Students may take any of the courses on the approved list above or on the approved list below to meet the remainder of their professional elective requirements. Students are responsible for checking 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)	CNS	499	Honors Research in Construction Science (Var)
ARE	540	Building Mechanical Systems (3) (F, S)	CNS	544	Problems in Construction Science (Var)
ARE	630	Introduction to LEED (V) (Int)	CNS	545	Heavy Construction Methods (3) (F)
ARE	710	Building Energy Analysis (2) (F)	CNS	629	Tilt-up Concrete Structures in Construction Management (2) (Int)
ARE	724	Advanced Sanitation Systems (3) (F)	CNS	610	Pre-Engineered Metal Buildings (2) (Int)
ARE	725	Cold-Formed Steel Design (V) (Int)	CNS	634	Building Systems Commissioning (2) (F)
ARE	731	Advanced Lighting Design (3) (S)	CNS	738	Mechanical and Electrical Estimating (2) (F, S)
ARE	734	Advanced Mechanical Systems Design (3) (F, S)	DEN	300	Intro to Total Quality Management (1) (S, Int)
ARE	735	Electrical Systems Design (3) (F, S)	IMSE	530	Engineering Economics Analysis (2 or 3) (F, S)
ARE	740	Environmental Control Systems in Buildings (3) (S)	PLAN	655	Land Development Planning (2) (S)
ARE	741	Building Communications Systems (3) (F)	PLAN	315	Planning Principles (3) (F)
ARE	760	Masonry Structural Design (3) (S)	GEOG	360	Sustainability Science (3)

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