

KSU Construction Science and Management Course / Outcomes Matrix Link

9/10/2015  
11:35 AM

		PROGRAM OUTCOMES*																											
KSU CNSM PROGRAM OUTCOMES		1	2a	2b	2c	2d	2e	2f	2g	2h	2i	2j	2k	2l	3a	3b	3c	4	5a	5b	6a	7							
ACCE Program Learning Outcome #			8, 18	12, 13	4, 13	13, 14	15,16,17	5	19, 20	3	17	16	7	12	2	1	7, 10	9	10	11		6							
		Apply engineering, science, and math fundamentals to solve construction problems	Understand and analyze the construction process, materials, system assemblies, equipment	Read, understand, and analyze contracts and contractual relationships	Develop and prepare quantity take-offs and construct cost estimates	Understand and analyze cost control systems	Understand and evaluate administrative, operational, and legal aspects of the construction process	Compose and revise a project plan and schedule	Understand and interpret structural, mechanical, electrical, and plumbing systems	Understand and analyze construction safety standards and programs and create a project safety plan	Evaluate and interpret construction laws, codes, and regulations	Understand material procurement and management	Understand and analyze contract documents	Understand and select appropriate project delivery systems	Create appropriate oral presentations	Create appropriate written documents	Use appropriate graphic depiction	Apply Construction Management skills by effectively working with cross-disciplinary teams	Apply technology (computers) for analysis and communication	Apply technology and instrumentation in field layout	Use Self-directed inquiry as a basis for Life-Long Learning.	Analyze and evaluate ethical and professional behavior in preparation for an effective industry career	Program Educational Objective						
REQUIRED COURSES																													
ENGL 100	Expos. Writing I																												
SPCH 105	Pub. Speaking																												
CNS 110	Hist. of Bldg. & Const.																												
CNS 100	CNS Orientation	s																											
CNS 220	Const. Materials	s	s		s																								
CNS 231	Statics A	s							s																				
CNS 200	Comp Appl In Engg & Construc. Sci.	s																											
ENGL 200	Expos. Writing II																												
CE 331	Strength of Materials																												
CE 332	Strength of Materials Lab																												
ARE 310	Introduction to AutoCAD																												
CNS 321	Const. Tech. & Det.		D																										
CNS 330	Site Construction	D	D		s										D														
CNS 522	Theory of Structures																												
CNS 325	Const. Drawing		D																										
CNS 536	Water Supply & Plumb.		s																										
CNS 534	Heating and Air Cond.	D																											
ARE 537	Acoustic Systems	s	s																										
CNS 524	Steel Construction	D	s																										
CNS 540	Const. Methods/Equip.	s	D																										
CNS 535	Elect. Service/ Install.	D																											
CNS 542	Ethics & Professional Standards																												
CNS 650	Construction Safety		s																										
ENGL 417	Writt Comm for Workplace																												
CNS 523	Timber Construction	D	s																										
CNS 645	Const. Sched./Cost Cont.	D				D																							
CNS 641	Const. Estimating		s		D																								
CNS 642	Const. Management			D				D																					
CNS 528	Concrete & Masonry Const.	D	s																										
CNS 660	Construction Operations		s	D	D	D	D	D	s	D	D	D	D	D	D														
<b>University Outcomes</b>																													
Knowledge – U1		X	X	X	X	X	X	X	X	X	X	X	X						X	X									
Critical Thinking – U2		X	X	X				X	X											X	X	X	X						
Communication – U3			X												X	X	X	X	X	X									
Diversity – U4																	X	X											
Academic and Professional Integrity – U5																	X	X											
<b>Assessment Documentation Methods</b>																													
AP Exam -- not currently used																													
Course Outcome Map/ Course Learning Outcome Report		D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	
Senior Exit Survey		I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	
2-year Alumni Survey		I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	
5-year Alumni Survey		I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	
Employer Survey		I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	
University Advisor Survey		I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	

LEGEND \*The program outcomes will be measured in the following manners.  
**S** = Supportive Role  
**I** = Indirect Measure  
**D** = Direct Measure