

**NORCO COLLEGE
SLO to PLO MATRIX**

PLOs

PLO 1 Identify and describe the materials and methods currently being employed in today's construction industry.

PLO 2 Interpret the major construction codes currently adopted by the state, county, and city which regulate construction installations.

PLO 3 Evaluate the basic concepts of engineering and soil design as they relate to structures.

CERTIFICATE/PROGRAM:		Construction Technology				
COURSE: CON-60						
SLO 1	Identify the essential steps that are associated with the preliminary planning and designing of a construction project.		X			
SLO 2	Explain the methods of construction, and outline the overall construction process.		X			
SLO 3	Demonstrate a working knowledge of the technical terminology.		X			
SLO 4	Ascertain the various career options available within this industry and identify the prerequisites for each.		X			
COURSE: CON-61						
SLO 1	Identify a variety of construction materials.		X			
SLO 2	Ascertain the properties and proper application of various construction materials.		X			
SLO 3	Determine whether a particular material will comply with the Building Code regulations for a particular usage.		X			
COURSE: CON-62						
SLO 1	Identify the essential elements of blueprints and specifications as they apply to a construction project.		X			
SLO 2	Analyze and Interpret the information on a set of construction blueprints.		X			
SLO 3	Analyze the various construction materials and their proper usage.		X			
SLO 4	Explain the construction process, including building permits and construction contracts.		X			
SLO 5	Identify the basic parts of electrical, mechanical, and plumbing		X			

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	systems.					
COURSE:	CON-63A					
SLO 1	Define the basic regulations of the Uniform Building Code and how they relate to buildings and structures.		X			
SLO 2	Analyze and interpret the basic principles showing the intent of the regulations of the Code.		X			
SLO 3	Ascertain and assess the critical issues regarding plan checking and inspection practices relative to the enforcement of the Uniform Building Code.		X			
COURSE:	CON-63B					
SLO 1	The student is to analyze uniform building requirements		X			
SLO 2	The student is to differentiate and appraise the intent of the code revisions		X			
SLO 3	The student is to develop the related correlation to the code and intent of the revisions		X			
SLO 4	The student is to compare the organization of the revised code to previous codes		X			
COURSE:	CON-63C					
SLO 1	The student is to analyze uniform building requirements		X			
SLO 2	The student is to differentiate and appraise the intent of the code revisions		X			
SLO 3	The student is to develop the related correlation to the code and intent of the revisions		X			
SLO 4	The student is to compare the organization of the revised code to previous codes		X			
COURSE:	CON-63D					

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SLO 1	The student is to analyze uniform building requirements			X	
SLO 2	The student is to differentiate and appraise the intent of the code revisions			X	
SLO 3	The student is to develop the related correlation to the code and intent of the revisions			X	
SLO 4	The student is to compare the organization of the revised code to previous codes			X	
COURSE:	CON-64				
SLO 1	Ascertain the relative significance of the construction documents which are on file at building departments.		X		
SLO 2	Interpret the working drawings as they relate to field inspections.		X		
SLO 3	Identify the basic fundamental inspections in the construction process.			X	
SLO 4	Diagnose the life-safety features of residential dwellings.			X	
SLO 5	Analyze the impact which each of the trades has on each other and how they must function together as a unit.		X		
COURSE:	CON-65				
SLO 1	Discover and apply the relevant code sections from the contents of the UPC to information on construction drawings and actual field conditions.			X	
SLO 2	Diagnose the requirements for the safe installation of plumbing systems.			X	
SLO 3	Determine the health and life-safety provisions of the UPC.			X	
SLO 4	Identify the basic components of plumbing systems.			X	
SLO 5	Prepare and compute the necessary calculations for sizing of DWV systems, water supply systems, private sewage systems, storm drainage systems, and fuel piping systems.			X	

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COURSE:	CON-66					
SLO 1	Interpret the information from the contents of the NEC as they apply to construction drawings and field installations.		X			
SLO 2	Determine the proper applications of the general and special-use code sections.		X			
SLO 3	Diagnose the life safety provisions for residential construction.		X			
SLO 4	Identify the basic theories of electricity.		X			
SLO 5	Prepare the necessary calculations for sizing of electrical services.		X			
COURSE:	CON-67					
SLO 1	Interpret and apply the information and terminology from the contents of the UMC to information on construction drawings and actual installations.		X			
SLO 2	Explain the requirements for the safe installation of heating, ventilating, cooling and refrigeration systems.		X			
SLO 3	Determine the life-safety provisions of the UMC.		X			
SLO 4	Identify the basic components of a mechanical system.		X			
SLO 5	Prepare the necessary calculations for sizing of gas systems.		X			
COURSE:	CON-68					
SLO 1	Apply the basic principles of mechanics as they relate to forces, stresses, bending, and deformation of materials.			X		
SLO 2	Solve for the reaction of forces upon beams and structures.			X		
SLO 3	Describe how wood spanning elements and wood columns are designed.			X		

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SLO 4	Identify the critical components of a structural system.				X	
COURSE: CON-70						
SLO 1	Identify and define specific characteristics of the different types of soils found on construction sites.				X	
SLO 2	Interpret Soils Reports.				X	
SLO 3	Interpret the principles and regulations in Chapter 33 of the UBC on grading.		X			
SLO 4	Show the Relationship of Foundation Design and Soils Properties			X		
SLO 5	Dissect the information and the terminology of the ASTM test methods.		X			
COURSE: CON-71						
SLO 1	Define the basics principles of energy and relate these to energy conservation methods.		X			
SLO 2	Analyze and interpret Title 24 Energy Conservation Standards and related codes as they relate to residential construction.		X			
SLO 3	Integrate the concepts and requirements of Title 24 Standards into the UBC provisions.		X			
COURSE: CON-72						
SLO 1	Explain the basic principles and standards of accessibility for disabled individuals.		X			
SLO 2	Analyze and interpret Title 24 requirements and related codes as they relate to new construction.		X			

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SLO 3	Integrate the concepts and requirements of Title 24 Standards into the UBC provisions.			X			
COURSE: CON-73							
SLO 1	Apply the basic organization skills necessary for the planning for site improvements.		X				
SLO 2	Identify the various zoning code, building code, and environmental issues which shape the development of a building site.			X			
SLO 3	Explain the complexity and the multiplicity of tasks and requirements necessary in the planning of site construction.		X				