ARCH 331. Study Guide for Quiz 1

This guide is not providing "answers" for the conceptual questions. It is a list of topical concepts and their application you should be familiar with. It is an *aid* to help prepare for the quiz.

Covers material of Lectures 1, 2, & 3

	Dead, live, wind, snow, seismic, impact		Tip-to-tail method
	load types		Resultant of forces
	Structural system organization schemes and materials		Components of a force
	Structural component names		Direction and type of force in a cable with relation to geometry
	Number of levels in horizontal systems		Cable vs. cable-stay
	Structural system performance requirements (design criteria)		Actions vs. reactions
	Analysis vs. evaluation		Static friction vs. kinetic friction
	Grids and patterns		Moment of a force
	Lateral resistance options		Varignon's Theorem
	Horizontal span to depth relationship		Moment Couple
	One-way vs. Two-way systems		Equivalent Force Systems
			Equilibrium
	Load type with respect to structure type		Newton's Third Law
П	Sin, Cos, Tan, opposite, adjacent & hypotenuse		Free Body Diagram
	Perpendicular		Truss configurations and assumptions for analysis
	Result of acceleration on a mass and Weight		Two-force bodies and relationship to loads
	Law of transmissibility	_	
	Internal vs. external forces		Pin connections
	Tension and compression		Method of Joints
	Collinear, Coplanar, Space, Concurrent		Zero-force member
	& Parallel force systems		Special truss member configurations at joints and conditions
	Vectors and scalars		Negative result for a variable from
	Scale	ш	equilibrium equations from free body
	Force Polygon		diagram
	Parallelogram law		Basis of graphical truss analysis