

# Statistical Mechanics Ii Problem Set 1 Phase Transitions

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Master of Engineering Civil Engineering

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CVG 5161 Mechanics of Unsaturated Soils (3 units) Introduction to unsaturated soils, phases of an unsaturated soil, phase properties and relations, stress state variables for saturated and unsaturated soils. Measurement of soil suction: theory of soil suction, capillarity, measurements of total suction and matric suction.

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The objective here is to understand solids at the level of quantum mechanics or molecular mechanics. As a by-product, we give a rigorous derivation of the macroscopic continuum models of solids. A key ingredient in this analysis is to understand the various levels of stability conditions (quantum, classical but at the atomic level and classical but at the macro level).

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