## Lecture 1 (ch.1)

Read CR. 1 on your own! we will come across the details of CR. 1, later. For now, the lesson of CR. 1 is that -> Most problems involve some unknown underlying process. Sometimes a theory exists which tells us something about The model/process, e.g. F=GMm/22. These are called physics-based or mechanistic models. Data are used to confirm the model and estimate its params. At other times, data are all we have, and no theory. - In most statistics problems, we are interested in developing statistical (empirical) models of The process generating The data. > Many models/processes look like factors > (model or process) -> response quantitative and/or qualitative In almost everything we do here, in put factors are discribed output (response is continuous. -> Factors can be (Read text) | Data on in put/output come from of interest versus not, a) Observational Studies / Surveys Controllable vs. uncontrable (b) Experimental Studies (Controlled Experiments = 421. known Vs. unknown

Factors which vary, but we are not interested in = misance factors

(hw.lett-1) See labo-hu on The course website. I want to make sure that each of you types all The code (not Comments) into R, and sees the "output". So, type it all in, and turn in a printont of The entire R session. Do not turn in figures. when accessing online data that This code refers to, do it This way: course website / file-name eg. / hist\_dat.txt Don't forget to read Ca. 1

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