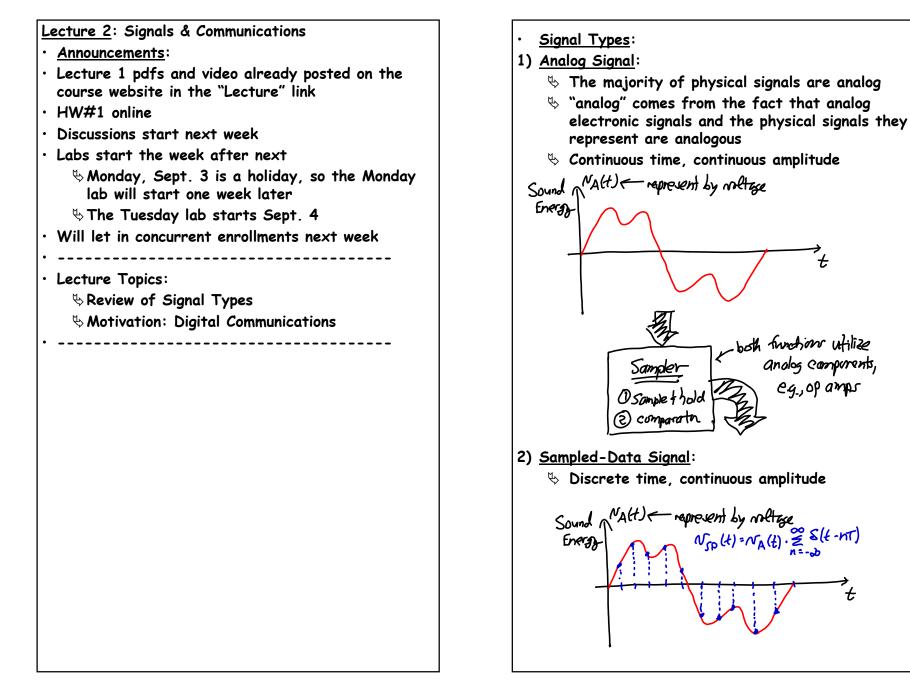
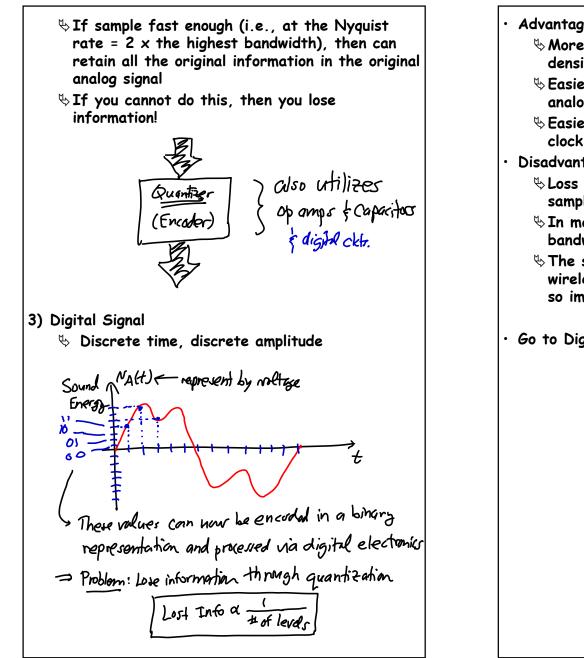
## <u>EE 105</u>: Microelectronic Devices & Circuits <u>Lecture 2w</u>: Signals & Communications



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 Advantages of Digital: Shore complex processing possible due to higher density of electronics (i.e., VLSI) & Easier to store, e.g., mp3's more reliable than analog records Seasier to interpret, e.g., digital vs. analog clock (with hands) Disadvantages of Digital: & Loss of information through quantization and sampling ♥In many cases, not as fast as analog (smaller) bandwidth) ♦ The speed disadvantage is easy to see in wireless communications, which is why analog is so important for wireless · Go to Digital Communications Example