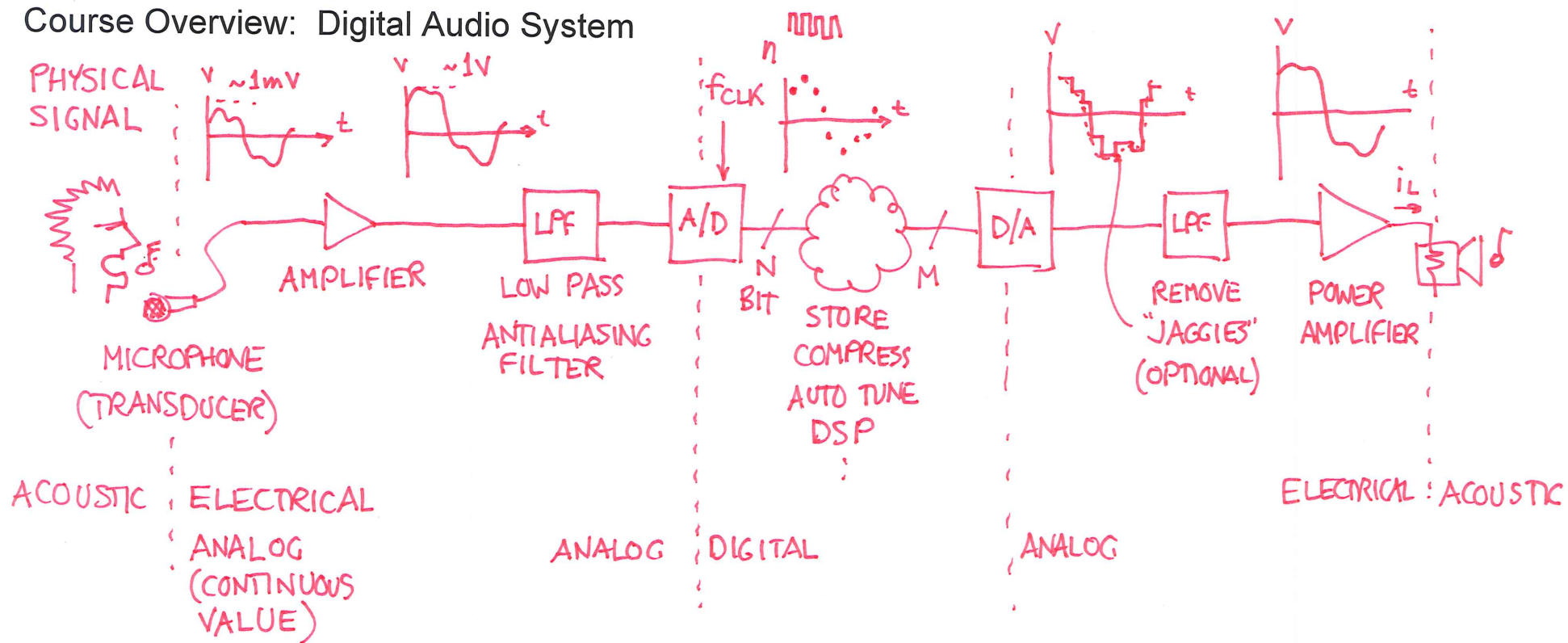


ECE3204 Lecture 1

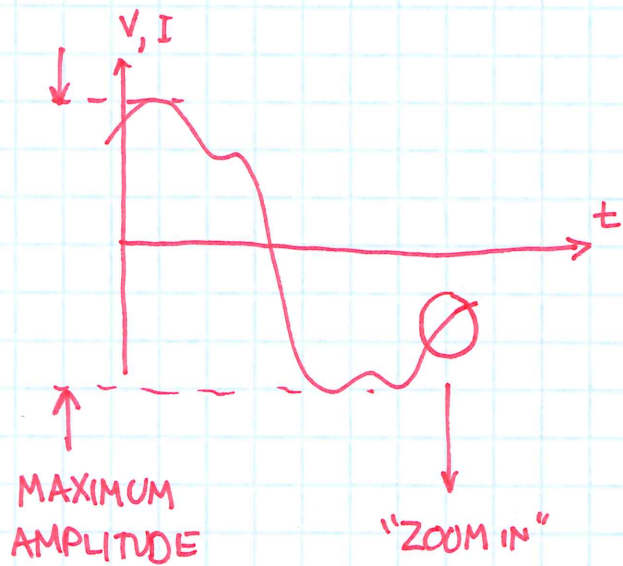
Administrative Info

Course Overview: Digital Audio System

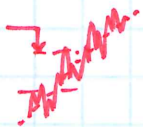


2 BIG SYSTEM QUESTIONS

HOW BIG?



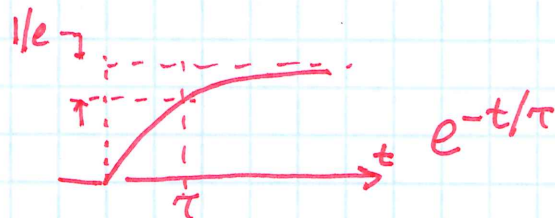
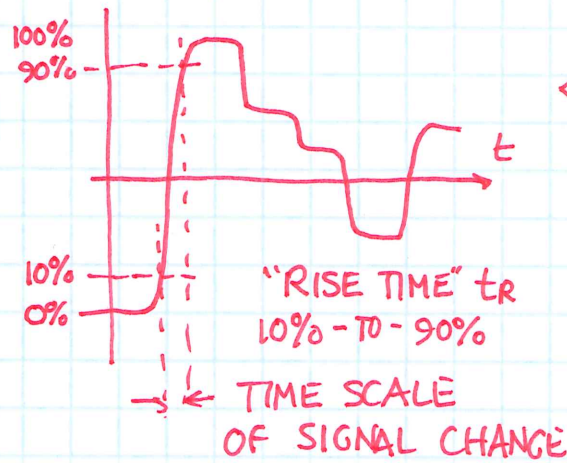
MINIMUM CHANGE



"DYNAMIC RANGE"

HOW FAST?

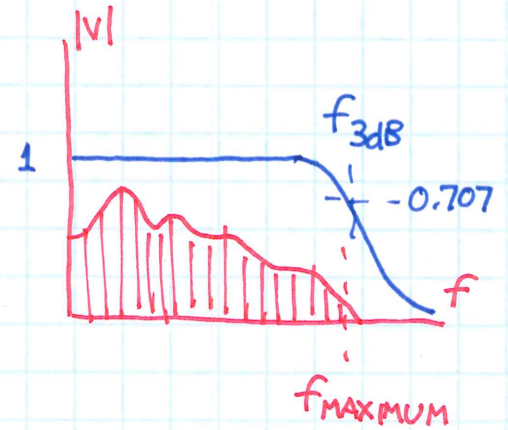
TIME DOMAIN



TIME CONSTANT τ
EXPONENTIAL RESPONSE
TO IDEAL STEP



FREQUENCY DOMAIN



BANDWIDTH

$f_{MIN} \rightarrow f_{MAX}$

TRANSFER FUNCTION

f_{3dB} "3dB FREQUENCY"

BANDWIDTH