CS489/698 "Computer Sound". Jan 3, 2016

All Notes, including these handwritten ones, will be available on Piazza.

https://piazza.com/class/ij7fp4kuvngix

Please note: Messages you post to Piazza remain public. Your name is removed but messages remain.

Also, previous courses are archived, so my course from last year (W16) is available at,

Grade: 50%. Project (*) 50% homework (measure/program)
Project based: your own duice, or topics developed during term Communicate all Via Piazzn Survey dass · Outside CS Engineering, Physics?

• Play instrument/sing

- · Record er process audio
- · DJ * some of you are interested, looking for topic

Grading: 50% Coursework, 50% Final project. No exam.
(** CS689 will be 60% project **)
Course Objective:
Individual or group project involving sound/ music/ audio.
Present projects to the class and provide a final report.
Lectures cover practical and theoretical aspects of audio.
Coursework is a series "bemowerk eversions
Coursework is a series "homework exercises. Simple experiments and measurements (on your own sound system) and a small amount of programming.
System) and a small amount of programming.

Project Ideas:
Students' own ideas, recording your signing voice
- model a guitar effect pedal
2. System measurementelectronics, speakers, room acoustics, etc.
3. Open source HW/Software * Friture open source analyzer
 plug ins Linux Ardour media station internet audio over IP on Raspberry Pi
- audio effects processing (Teesny Arduino ARM)

Course Schedule (see Piazza)
Note: PO: Project proposal
P1: Project progress report
Pfinal @ EOT

PUT UP Razza Schedule		
		Homework (Assignments)
	AD.	System Setup
10%.	As	Measure your own sound system (ADG/DAC, testsional)
	2	
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10%	5	
		Build a Vocader
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L	ast i	deas conscrue as project topics.

AUDID SYSTEM	AUDID	SYSTEM
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	Sound Interface (ADC/DAC/Preamp): ART USB DUAL PRE 365@Long- MiQuado
	Journa Interface (NDC/DAC/Preamp):
	ART USB DUALPRE 365@ Long
	M. Quade
1.	PC(x86) Linux Ubuntu 16.04LIS LOAN
•	PC(x86) Linux Ubuntu 16.04LTS LOAN from CSCF
2	Rasyberry Pi (ARM) Linux "Raspian"

PART	
	DEMO1: Speaker and tones
	DEMOZ.
	Recording
	PEMO2" Recording "Avdacity" available under Linux/Win/Mac
	Linux/Win/Mge
-	Demo 3
•	Ardour Linux DAW
	Promis (1
	Promo 4 Friture Realtime analyzen
	friance reariting for













