All Notes, including these handwritten ones, will be available on Piazza.
https://piazza.com/class/ij7fp4kuvgix

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,
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 "homework exercises. Simple experiments and measurements (on your own sound system) and a small amount of programming."
Project Ideas:

1. Students' own ideas,
   - recording your signing voice
   - model a guitar effect pedal

2. System measurement
   - electronics, 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 lecture schedule

"Homework" (Assignment)

10% A1 Measure your own sound system (ADC/DAC testing) 2
10% 2
2 3
2 4
10% 5
?
Build a vocoder

Last ideas can serve as project topics.
Audio System

Sound Interface (ADC/DAC/Preamp):
ART USB DUAL PRE $65 @ Long McQuade

1. PC (x86) Linux Ubuntu 16.04 LTS loan from CSC

2. Raspberry Pi (ARM) Linux "Raspbian"
Part 2

Demo 1: Speaker and tones

Demo 2:
  Recording
  "Audacity" available under Linux/Win/Mac

Demo 3
  Ardour Linux
  DAW

Demo 4
  Fruity RealTime Analyzer