

EE345M Quiz 1 study guide

Friday February 27, 2009, regular classroom, 10-10:50

Open book, open notes, calculator (no laptops, phones, devices with screens larger than a TI-89 calculator, no devices with a QWERTY keyboard, devices with wireless communication)

Lab Important Topics

Lab 1. Solid state disk, SPI interface, debugging, address translation, layered software, file system , **internal and external fragmentation**

Lab 2. Audio recording and playback, analog circuits, FIFO queues, bandwidth, Nyquist, aliasing, critical sections, **noise**

Chapter Topic

2 Modular, Layered, Device Drivers, Threads, Debugging

4 FIFO, interrupts, priority, latency, output compare periodic interrupts, periodic polling, critical sections

11 rail-to-rail op amps, high pass **Butterworth** and low pass analog filters, DAC, ADC, single supply designs

12 range, resolution, precision, sampling rate, noise, **aliasing**

15 digital filter implementation (lecture 7)

Best exams to study are Quiz1 Fall 2004, Quiz1 Fall 2005, Quiz1 Fall 2006, and Quiz1 Spring 2008