What Did You Learn This Semester?	What Did You Learn This Semester? (cont.)
From class syllabus: The goal of this course is to provide an introduction to the internal operation of modern computer systems. In particular, the course will cover low-level hardware details (combinational and sequential circuits), data representation (number systems, character encoding, and integer and floating point representation), basic computer system organization (CPU, I/O, memory, and disk), several instruction set architectures and assembly languages (emphasizing RISC architectures), and the internal operation of the CPU. At the end of the course, if time permits, we may briefly examine parallel systems, operating systems, etc.	 Main goal was to understand the basic organization of a computer system Low-level hardware Gates Boolean algebra Truth tables Karnaugh maps Data path components Adders, ALU (combinational circuits) Registers (sequential circuits) Multiplexors, buses Data representation Character encoding Error checking (parity) Integer & floating point representation
1 Fall 1998, Lecture 35	2 Fall 1998, Lecture 35
What Did You Learn This Semester? (cont.)	What Did You Learn This Semester? (cont.)
Computer system organization	
Memory systems	
Memory bierarchy cache	
 Disk systems 	 Microcoded vs. bardwired controller
• 1/O	Speedup techniques
 Assembly language programming In general, plus RISC LOAD/STORE Operands 	 Pipelining Superpipeling, superscalar Parallel systems
 Flow of control 	Operating systems
 Bit manipulation 	You're now readv for:
 Addressing Modes 	CS 43201 Computer Architecture
 Subroutines 	CS 43201 Operating Systems
 Assembler directives, program translation 	CS 43111 Structure of Compilers
 SPARC (RISC), VAX (CISC) 	

Fall 1998, Lecture 35

4

3

Final Exam

- The final exam will be held:
 - Wednesday, December 16 from 10:15am – 12:30pm in the usual classroom
- The final exam is comprehensive
 - It will be approximately twice the length of the regular in-class exams
 - It comprises 25% of your course grade
- Course grades are determined as:

A = 90 - 100 D = 60 - 69.99

B = 80 - 89.99 F = <60

C = 70 - 79.99

5

• I do not "curve" final course grades

Fall 1998, Lecture 35

6

Course Evaluations

- Use a #2 pencil to fill out the form
 - Write "11616" (the course call number) in the <u>top left corner</u> of the form
 - Fill out all the questions on the front <u>and</u> back of the form
 - Student monitor will return the forms to the MCS office; I won't see the results until <u>after</u> I hand in the course grades
- In the comment area:
 - Tell me what you *like* about the course (so that I'll keep doing it)
 - Tell me what you *do not like* about the course (so that I can consider changing it)
- Take these these evaluations very seriously — we (the faculty) certainly do!