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Fall 2012

CEG 3310/5310-01: Computer Organization

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Raymer, M. L. (2012). CEG 3310/5310-01: Computer Organization. .

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CEG 3310/5310 – COMPUTER ORGANIZATION
FALL 2012

Instructor: Dr. Michael Raymer
Office: 391 Joshi Phone: 775-5110
Email: michael.raymer@wright.edu

Time/Place: Mon/Wed/Fri, 1:25 – 2:20 pm, 152C Russ Ctr.

Office Hours: Mon/Wed/Fri, 2:30 – 3:30 pm, *or by appointment.*

Textbook: Patt, Yale and Patel, Sanjay (2004). "Introduction to Computing Systems, 2nd ed.", McGraw Hill, ISBN 978-0072467505. *Required.*

Tentative Lecture Schedule:

Week	Topics	Reading
1	Introduction, representing data	Chs. 1 & 2
2	Digital logic, the Von Neumann model	Chs. 3 & 4
3	The LC-3 machine & simulator	Ch. 5
4	LC-3 Assembly Language	Chs. 6 & 7
5	LC-3 Datapath & control signals	Chs. 5 & 6
6	Low level I/O	Ch. 8
–	Midterm Exam (<i>Tentatively: Monday 10/8</i>)	–
7	Traps and Subroutines	Ch. 9
8	Introduction to C programming	Chs. 11 - 13
9	The stack, interrupts, and the C language	Chs. 10 & 11
10	Functions and recursion	Chs. 14 & 17
11	Memory and cache	Notes
12	Intel x86 assembly language	Notes
13	Assembly and C interaction	Notes
14	Advanced topics, final exam review	–
–	Final Exam: Mon. Dec 10, 12:30 – 2:30 pm	–

Grading: Midterm Exam = 30% 90 – 100 = A; 80 – 89.9 = B; 70 – 79.9 = C;
Final Exam = 35% 60 – 69.9 = D; < 60 = F
Lab Assignments = 35% I *may* curve the final letter grades based on the overall distribution of scores.

Web Page: <http://pilot.wright.edu> – Login using your CATS username and password. *Check this page often for announcements, assignments, and other important information.*

CEG 3310/5310 – COMPUTER ORGANIZATION
POLICIES AND NOTES

I. Late Assignments

PROGRAMMING ASSIGNMENTS (LABS) are due by 11:59 pm on the due date. Late programming assignments will be accepted, but 10% of the total available points will be deducted for each day late. Labs are considered one day late after 11:59 pm on the due date. At 11:59 pm of each successive day (including weekends) the lab is considered an additional day late until turned in. *No points will be awarded for labs turned in more than one week (7 days) late.*

II. Academic Integrity

Discussion of course contents with other students is an important part of the academic process and is encouraged. However, it is expected that course programming assignments, homework assignments, and other course assignments will be completed **on an individual basis**. Students may discuss general concepts with one another, but may not, under any circumstances, work together on the actual implementation of any course assignment. If you work with other students on “general concepts” be certain to **acknowledge the collaboration** and its extent in the assignment. Unacknowledged collaboration will be considered dishonest. “Code sharing” (including code from previous quarters) is strictly disallowed. “Copying” or significant collaboration on any graded assignments will be considered a violation of the university guidelines for academic honesty. If the same work is turned in by two or more students, **all parties involved will be held equally accountable for violation of academic integrity**. You are responsible for ensuring that other students do not have access to your work: do not give another student access to your account, do not leave printouts in the recycling bin, pick up your printouts promptly, do not leave your workstation unattended, etc. If you suspect that your work has been compromised notify me immediately. NOTE: Failure to attend the first day of class, during which time I will explain these academic honesty policies in detail, does not excuse you from following these policies. If you have any questions about collaboration or any other issues related to academic integrity, please see me immediately for clarification.

III. Other notes

Students with disabilities or any additional needs are encouraged to set up an appointment at their convenience to discuss any classroom accommodations that may be necessary.