COMP 300 Principles of Digital Hardware
Spring 2008
Lecture Time: TTh 2:30 – 3:50 P.M.
Laboratory Time: W 2:30
Venue: Serra Hall 134
http://home.sandiego.edu/~koo/comp300/

Instructor Information
Dr. Simon Koo
Office: Serra Hall 159F
Research Lab: Serra Hall 137
Tel: 619-260-2932
Email: koo@sandiego.edu
Office Hours: W 10:00 – 12:00 noon, 2:30 – 3:30 P.M.
TTh 10:00 – 10:30 A.M., 2:00 – 2:30 P.M.
and by email appointment

Catalog Description
Combinational and sequential logic, registers, arithmetic units. Introduction to computer architecture. Three-hour lectures and one laboratory per week. Prerequisites: Computer Science 280 and Mathematics 160 or consent of instructor.

Textbook
(Required Textbook)

(Reference)
Syllabus (Tentative)
- Digital Logic
- Data Representation
- Processors
- Memories
- I/O
- Pipelining and Parallelism
- Performance Evaluation

Course Grading
- Laboratory: 20%
- Project: 30%
- Midterm: 25%
- Final exam: 25%  
(Scheduled at 11:00 A.M. on May 15, 2008.)

I don’t grade on a strict scale, but you will do no worse if you make the cutoffs below:

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<thead>
<tr>
<th>Cutoff score</th>
<th>Grade</th>
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<tbody>
<tr>
<td>93%</td>
<td>A</td>
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<tr>
<td>90%</td>
<td>A-</td>
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<tr>
<td>87%</td>
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<td>83%</td>
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<td>80%</td>
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<td>73%</td>
<td>C</td>
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<td>70%</td>
<td>C-</td>
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<td>60%</td>
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Laboratory Exercises and Design Project
As part of the course assessment, you are required to complete laboratory exercises during the laboratory period. These exercises will be related to the topics we have covered or covering in class, and you are advised to study the materials before coming to the lab. They are mainly digital logic design projects of smaller scales, and you should be able to finish them before laboratory session ends.

A hardware design project of larger scale will be assigned as “after-class” homework. It will utilize knowledge from all the lab exercises, as well as your problem-solving skills and analytical reasoning. You may need to purchase your own electronic parts for your project.

Except with the permission of the instructor, no collaboration with another student is allowed, and no late assignments will be graded.
Course Policy

Course Website
All course handouts and announcements will be posted on the course website. It is your responsibility to get the latest updates from the website. Also, I will send emails to your USD account when an urgent announcement needs to be made.

Attendance and Examinations
It is assumed that you will be present for every class period, but, under any circumstances, you are responsible for any information passed out in class. If you are unable to appear for a quiz/lab/exam for any reason, please contact the instructor before the hour of class. In general, no makeup examinations will be given.

Recommended Study Habits
1. Attend all lectures and take written notes.
2. Do all the homework and projects alone.
3. Do not fall behind!

Academic Integrity
(Excerpted from the USD website)
All members of the University community share the responsibility for maintaining an environment of academic integrity since academic dishonesty is a threat to the University. Acts of academic dishonesty include: a) unauthorized assistance on an examination; b) falsification or invention of data; c) unauthorized collaboration on an academic exercise; d) plagiarism; e) misappropriation of resource materials; f) any unauthorized access of an instructor's files or computer account; or g) any other serious violation of academic integrity as established by the instructor.

It is the responsibility of the instructor to determine whether a violation has occurred. An act of academic dishonesty may be either a serious violation or, if unintentional or a non-serious violation of course rules, an infraction. If the instructor determines that an infraction or serious violation has occurred, the instructor can impose penalties that may include: a) reduction in grade; b) withdrawal from the course; c) a requirement that all or part of the course be retaken; and d) a requirement that additional work be undertaken in connection with the course or exercise. A written summary of the investigation and penalties will be prepared by the instructor, and a copy will be given to the affected student or students. If the instructor determines that a serious violation has occurred, or if the student or students affected wish to appeal the determination of infraction, a hearing committee will be activated by the dean of the school and be composed of the associate dean, a faculty member and student of the school involved, and two faculty from other schools.