

CDA 3201 Introduction to Logic Design Fall 2003

Dr. Hari Kalva

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CDA3201:)

Classes: 10 – 11:50 am, Tue. and Thr.

Office Hours: 12:00 – 1:30 pm, Tue. and Thr.
or by appointment.

Objectives:

Understanding of the fundamental structures in logic design, combinatorial, and sequential circuits
Analyze digital systems
Design simple digital systems
Gain hands on experience building simple digital systems through lab experiments
Ability to explain the logic design concepts to peers

Textbook: Introduction to Logic Design, Alan Marcovitz, McGraw-Hill, 2002.

Text website: <http://auth.mhhe.com/engcs/compsci/marcovitz/index.mhtml>

Answers to most exercises: <http://www.mhhe.com/engcs/compsci/marcovitz/instructor/answers.mhtml>
username: marcovitz990, password: instructor

Course Grading:

Laboratory: 20 %

5 tests/homework assignments (5x10): 50% (9/9, 9/26, 10/14, 10/30, 11/13)

Final exam (comprehensive): 30% (scheduled on Sunday, December 7, 4:00 - 6:30 PM)

Topics:

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| 1. Number Systems | 5. Solving Larger Combinational Problems |
| 2. Basics of Combinational Systems | 6. Sequential Systems |
| 3. Switching Algebra | 7. Solving Larger Sequential Problems |
| 4. The Karnaugh Map | 8. Simplification of Sequential Circuits |

Laboratory (S&E 324A): For the laboratory experiments, you need a breadboard (to wire chips for the hardware experiments) which is available at the bookstore and the WinBreadboard software that comes with the textbook. **Read and follow the Lab Rules.** Have the lab instructor record grades on the Student Grading Sheet and turn that in at the Final Exam. Both the Lab Rules and the Student Grading Sheet are available through Blackboard. You need a CSE Unix account; follow instructions at: <http://www.cse.fau.edu/resources/account.html> to get your account. You can gain 24-hour access to the Microprocessor Lab; to do that, you must have an ISO Number ready (you may get that where you get your OWL card) and fill out the online form at: <http://www.cse.fau.edu/account.html>. Do this not later than September 5. **Lab opens Monday, September 8.**

Blackboard (blackboard.fau.edu): We will use Blackboard for course related announcements, handouts, reporting grades etc. You can login to blackboard at: blackboard.fau.edu. I will use e-mail for important announcements; make sure you update your e-mail address in the Blackboard and check your e-mail often. Contact me with any login problems.

Course Policies:

1. Each student is required to do his or her own work. Collaborative work may be undertaken only when specifically requested or approved by the instructor. Any academic irregularity (i.e. cheating) will not be tolerated and will result in a 0 on that assignment (with a minimum reduction of one letter grade in the course) and possibly an F in this course.
2. No 'I' grades or make up tests except in extreme and documented circumstances beyond your control.
3. Late labs or homeworks up to a whole week are graded with 50% off, and after a week you get 0.

Cell phones must be turned off or in silent mode during the class!