

**EE 2531-002 Logic Laboratory  
Fall 2009**

University of Colorado at Denver  
College of Engineering and Applied Science

**Course dates/times:** W 1:00 – 3:50 pm

**Course location:** NC2207

**Instructor:** Kelly Campbell

**Email:** [kelly.campbell@ucdenver.edu](mailto:kelly.campbell@ucdenver.edu)

**Website:** <http://blackboard.cuonline.edu/>

**Phone:** 303-981-2803

**Office:** NC 2404C

**Office Hours:** M-F 5:00-5:30 pm

**Course Catalogue Description:**

*Experiments in digital logic utilizing both computer simulation and actual analysis using integrated circuits. Initially, combinational logic circuits are studied, including circuits such as binary adders and multipliers, followed by sequential circuits, including counters. Meters and oscilloscopes are introduced. Use of computer-aided design tools facilitating design, simulation, and implementation of digital systems using field-programmable logic devices are an integral part of the entire course.*

**Prereq./Coreq.:** EE/CSC 1510 Logic Design.

**Requirements:** Laboratory manual and hardware will be provided.

**Assessment:** Grades will be based on experiment reports and laboratory participation. Each group will submit a report, meaning every group member will receive the grade on the report. Late reports will be accepted no later than one week past due, after which reports will not be accepted.

50% **Experiment Reports:** Each report should conform to the format outlined in the laboratory manual and should contain all preliminary calculations, simulation plots and schematics, and raw data collected during the experiment.

50% **Laboratory Participation:** Each member of the group must actively participate in experiment design, hardware implementation, test equipment operation, and data collection. **Every experiment must be demonstrated in order to be completed.**

**Attendance:**

Attendance will taken every lab session. Prior notification of an absence must be given. In an emergency, notification is made by email or phone no later than the day of the experiment.

## Course Schedule

Aug 19,	Experiment 1, Xilinx tutorial, no report due for experiment 1
Aug 26,	Experiment 2
Sep 2,	Experiment 3, report 2 due
Sep 9,	Experiment 3
Sep 16,	Experiment 4, report 3 due
Sep 23,	Experiment 4
Sep 30,	Experiment 5, report 4 due
Oct 7,	Experiment 5
Oct 14,	Experiment 6, report 5 due
Oct 21,	Experiment 6
Oct 28,	Experiment 7, report 6 due
Oct 4,	Experiment 7
Oct 11,	Experiment 8, report 7 due
Oct 18,	Experiment 8
Oct 25	Experiment 9, report 8 due
Nov 4	Experiment 9
Nov 11	Experiment 10, report 9 due
Nov 18	Experiment 10
Nov 25	Fall break, no lab
Dec 2	Experiment 10
Dec 9	Finals week, report 10 due

## Students called for military duty

- “If you are a student in the military with the potential of being called to military service and /or training during the course of the semester, you are encouraged to contact Paul Rakowski in the Dean’s office.