ECE130-03 Introduction to Logic Design

Spring Quarter 2004

Instructor	J. Brandon Laflen
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Phone number	877-**8157**
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Textbook	Pragmatic Logic: A Non-idealistic, Practical, Opinionated Look at Digital Logic Design. William J. Eccles (available from the bookstore)
Web Page	www.rose-hulman.edu/class/ee/laflen/ece130
Office Hours	The office hours for this course are **MTRF, 3rd and 4th hours**. However, please feel welcome to come and talk to me anytime that I am in my office. I will be on campus all day on MTRF, but I teach during 7th, 9th, and 10th on those days. Although I am free during the 6th and 8th hours, I like to use this time to prepare for class. I will also be available on Wednesdays, but please send me an e-mail to make an appointment. **In general, the easiest way to schedule an appointment or to contact me is by e-mail.**
Simulation software	**ECE130-02, 9th Hour:** LogicWorks-4 for Windows **ECE130-01, 10th Hour:** Cadence ORCAD Simulation Software
Course Objectives	Fundamental concepts, analysis and design techniques of digital systems will be introduced through examples and simulation. Digital system design processes and methodologies will be discussed and practiced with homework problems and a team project. Upon the completion of this course, the student should be able to analyze and design combinational and sequential circuits as well as to complete a digital system design project from conceptual development, sub-module designs, to system integration.

General Policies

Grading Policy

Homework:	10%
In-class exercises & quizzes	10%
Three Tests:	45% (15% each)
Project:	20%
Final Exam:	15%

In addition, I reserve the right to **add or subtract as much as 5%** from the final grade based on participation.

Homework Homework may be assigned daily and will not be accepted late unless there are extenuating circumstances. **Unless otherwise noted, homework is due at the beginning of the 2nd class after the day it is assigned.** (For example, if a homework is assigned on Wednesday, it is due on Friday.)

Quizzes Quizzes can be over anything covered in class, assigned reading, or homework.

Tests Three full-class-period tests and the final exam are closed book and closed notes. The final exam will be scheduled in the exam week. A student who has obtained an average grade above 90% over the first three tests may choose to replace the final exam with the average.

Project A team design project will be assigned during the last two weeks. The project description will be distributed later. Grading for the project will have the following breakdowns:

Block Diagram Memo	5%
Simulation	15%
State Diagram Memo	10%
Final Written Report	35%
Verification Memo	15%
Oral Presentation	20%