SYLLABUS
COSC3410: Digital Logic Design
Spring 2005

In this course the students will be introduced to the analysis and design of basic digital
circuits used in constructing modern digital computers. Topics to be covered include:

- Introduction to Logic Design
- Boolean Algebra and Combinational Networks
- Simplification of Boolean Expressions
- Number Systems, Arithmetic, and Codes
- Logic Design with MSI Components and Programmable Logic Devices
- Flip-Flops and Simple Flip-Flop Applications
- Synchronous Sequential Networks

In addition to lectures, this course includes a 3-hour lab (the lab is in Room 547/533-
PGH). The lab can accommodate up to 19 students at a time. Approximately 8
experiments in logic design are planned for this semester. Because the students need to be
introduced to certain concepts in logic design first, the lab sessions will not meet until the
week of February 6, 2005. The lab manual will be available from the lab instructor. Much
of the information you need for the lab work can be found in Appendix B in the textbook,
and at the website http://www.mhhe.com/givone. You should become familiar with the
materials presented therein before the first lab meeting.

Instructor:  Dr. J. C. Huang  (Office: 514-PGH)

Lab Instructors/Teaching Assistants:  Soumya Ghosh  (Office: 531-PGH)

Course home page URL:  http://www.cs.uh.edu/~jhuang/JCH/LD/3410.html

Remarks:
1. There will be a final exam and two (2) tests. Each test will cover only the material
discussed up to that point, whereas the final will be comprehensive.

2. No make-up test is allowed unless the student is excused by the instructor in
advance. In case of emergency, contact the instructor or the teaching assistant as
soon as possible. Unless otherwise instructed, the student must contact the
instructor to take the make-up test before the subsequent class meeting.

3. The final grade will be assigned based on the grades of:
   - Test No. 1: 25%  (Monday, February 28, 2005)
   - Test No. 2: 25%  (Wednesday, April 13, 2005)
   - Final exam: 25%  (2:00-3:40 p.m., Friday, May 6, 2005)
   - Lab: 25%

4. Lab experiments must be completed by each individual. Late lab reports will not
be accepted.