Online

Wednesday, June 28th – Monday, August 7th

Instructor – Dr. William J. (Bill) Reid III  
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Required Materials –

- Lecture Slides and Homework found on Clemson’s Canvas: https://www.clemson.edu(canvas/)
- Laptop Computer – All or part of your tests and final exam will be taken on your laptop computer. Therefore, your laptop battery should be capable of lasting several hours.
- Respondus Lockdown Browser – The first week of class you must install the and test this browser on your laptop: https://www.clemson.edu/online/tools/responduslockdown.html

Topics Covered –

- Number Systems
- Octal & Hex Codes
- Signed Number Systems
- Binary Codes
- Boolean Algebra
- Boolean Functions
- Canonical Forms
- Operations, Gates, & ICs
- Tri-State Gates & More
- Karnaugh Maps

- Don’t Care Conditions
- Quine McCluskey Algorithm
- Special Forms
- XOR Operator
- Multi-Level Optimization
- Adders & Subtractors
- Multipliers & Encoders
- Decoders & Encoders

- Multiplexers
- Sequential Circuits
- Latches & Flip-Flops
- Sequential Analysis
- State Reduction
- Sequential Design
- Registers & Counters
- Memory & PLDs

Grading Policy – Your final grade for this course will be determined by the following:

- Tests (3) ≈ 50%
- Homework ≈ 15%
- Final Examination ≈ 35%

A = 90 – 100, B = 80 – 89, C = 70 – 79, D = 60 – 69, F = 0 – 59

Prerequisites – MTHSC 1080, PHYS 1220 or equivalents. Co Requisites – None

Tests – Tests will be taken online, and a test password will be e-mailed to your proctor the day before the scheduled test. Please refer to the ProctorInfo.pdf file in the course information on Canvas. All work on tests is to be entirely the student’s with no aid from any other source unless specifically stated.

Homework – You will receive one point per each homework problem found on Canvas unless otherwise stated. All work on homework is to be entirely the student’s with no aid from any other source unless specifically stated. All homework is due by the final exam unless otherwise stated.
Accessibility Statement – Clemson University values the diversity of our student body as a strength and a critical component of our dynamic community. Students with disabilities or temporary injuries/conditions may require accommodations due to barriers in the structure of facilities, course design, technology used for curricular purposes, or other campus resources. Students who experience a barrier to full access to a class should let the instructor know and make an appointment to meet with a staff member in Student Accessibility Services as soon as possible. You can make an appointment by calling 864-656-6848 or by emailing studentaccess@lists.clemson.edu. Students who receive Academic Access Letters are strongly encouraged to request, obtain, and present these to their instructors as early in the semester as possible so that accommodations can be made in a timely manner. It is the student’s responsibility to follow this process each semester. You can access further information here: http://www.clemson.edu/campus-life/campus-services/sds/.

Title IX Statement – Clemson University is committed to a policy of equal opportunity for all persons and does not discriminate on the basis of race, color, religion, sex, sexual orientation, gender, pregnancy, national origin, age, disability, veteran’s status, genetic information or protected activity in employment, educational programs and activities, admissions and financial aid. This includes a prohibition against sexual harassment and sexual violence as mandated by Title IX of the Education Amendments of 1972.

Academic Integrity Statement – As members of the Clemson University community, we have inherited Thomas Green Clemson’s vision of this institution as a ‘high seminary of learning.’ Fundamental to this vision is a mutual commitment to truthfulness, honor, and responsibility, without which we cannot earn the trust and respect of others. Furthermore, we recognize that academic dishonesty detracts from the value of a Clemson degree. Therefore, we shall not tolerate lying, cheating, or stealing in any form. In instances where academic standards may have been compromised, Clemson University has a responsibility to respond appropriately to charges of violations of academic integrity. Further information on Academic Integrity can be found in the Undergraduate Announcements and in the Graduate School Policy Handbook.

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Modification Statement – Any portion of this syllabus may be changed during the semester when necessary. Notice will be given in class and by e-mail.