

CS 2800  
**Computer Organization and Architecture I**

OCT 05 1998

**Prerequisite:** CS 1150

**Instructor:** Libero Ficocelli

**Office:** C424

**Phone:** 539 - 2825

**Course Content:**

To introduce students to the fundamentals of logic design and computer architecture. Important topics include: logic gates, circuit minimization, combinational and sequential logics, ALU design, control unit design, CPU design, I/O operations, interrupts and memory organization. The lectures stress the theoretical aspects of the material while the labs address the physical and practical applications.

**Laboratories:**

Scheduled Lab facilities for this course are in the J wing computer labs J101 and J131. Labs will begin the week of Sept 7.

**Text:**

**Theory:**       **Logic and Computer Design Fundamentals**  
M. Morris Mano and Charles R. Kime

**Lab:**         **LogicWorks for Windows: Interactive Circuit Design Software**  
Capilano Computing Systems

**Grading:**

Homework Assignments /	
Lab Assignments/	
Lab Reports	28%
Class Quizzes	12%
Midterm	25%
Final Exam	35%

**Special Notes:**

The Student must pass the **theory/concepts** portion of the course in order to obtain a passing grade for the term. Student must obtain 50% of a possible 72 points, which includes all components except lab and project assignments.