

CS 2800
Computer Organization and Architecture I

Prerequisite : CS 1150
 Corequisite : CS 1720

Instructor : Libero Ficocelli
 Office : C424
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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 A wing computer labs A304 and A307. Labs will begin the week of Sept 11.

Text:

Theory : **Computer Engineering: Hardware Design**
 M. Morris Mano

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

Marking:

Project Assignments	20%
Lab Quizzes / Lab Assignments	13%
Class Quizzes	12%
Midterm	20%
Final Exam	35%

Special Notes :

- 1) 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% out of a possible 80 points, which includes all components except the project assignments.
- 2) No late project assignments will be accepted.