

CSC311

Special Topics - CSC 311/611

Computer Architecture

Spring 2009

Instructor: Daniel A. Cañas
Office hours: MWF 1-2 p.m.

Objectives:

This course will introduce the student to parallel and multiprocessor architectures, including MIMD, SIMD, pipeline and vector architectures.

Textbook:

Shen, J.P., Lipasti, M.H., "Modern Processor Design", McGraw Hill, 2005.

Requirements:

CSC 211 Computer Organization

Evaluation:

Projects: 50%
Presentations: 50%

Contents:

- 1- Computer Arithmetic
- 2-Pipeline and Vector Processing
- 3-Input-Output Organization
- 4-Memory Organization
- 6-Case studies