EECS 10: Computational Methods in Electrical and Computer Engineering

Lecture 1

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Lecture 1: Overview

- Introduction
  - Course overview
- Course administration
  - Course web pages
- Getting started
  - Obtain your UCInetID
  - Obtain an account on the EECS servers
  - Log into the server
  - Work in the Unix system environment

Introduction

- Course Contents
  - Introduction to computers
  - Introduction to structured programming
    - C, a high-level structured programming language
  - Binary data representation
  - Introduction to algorithm efficiency
  - Solving engineering problems
    - Applications of structured programming
  - Hands-on experience
    - Laboratory and discussion sessions

Course Administration

- Course web pages online at **`http://eee.uci.edu/08f/18010/`**
  - Instructor information
  - Course description and contents
  - Course policies and resources
  - Course schedule
  - Homework assignments
  - Course communication
    - Noteboard (announcements and technical discussion)
    - Email (administrative issues)

Getting Started

- Obtain your UCInetID
  - Your unique ID at UCI
  - Activation online at NACS web pages:

    `http://activate.uci.edu/activate/menu.html`

- Obtain an account on the EECS servers
  - Your working account in EECS
  - Activation online at EECS web pages:

    `https://newport.eecs.uci.edu/account.py`

Getting Started

- Log into the server
  - Use a terminal with SSH protocol (secure shell)
  - Connect to an EECS server
    - **`malibu.eecs.uci.edu`**
    - **`vivian.eecs.uci.edu`**
    - **`newport.eecs.uci.edu`**
  - Authorize yourself with user name and password
- Work in the Unix system environment
  - Unix shell prints command prompt, awaiting input
  - Type in system commands
    `echo`, **`date`**, **`ls`**, **`cat`**, **`man`**, **`more`**,
    `pwd`, **`mkdir`**, **`cd`**, **`cp`**, **`mv`**, **`rm`**, **`rmdir`**
  - Refer to manual pages for help on commands