

# EECS 10: Computational Methods in Electrical and Computer Engineering

## Lecture 1

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## Lecture 1: Overview

- Introduction
- 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
  - Use a text editor

## Introduction

- Course Contents
  - Introduction to computers
  - Introduction to structured programming
  - Binary Data Representation
  - Hands-on experience
    - High-level structured programming language
  - Introduction to algorithm efficiency
  - Applications of structured programming
  - Solving engineering problems

## Course Administration

- Course web pages online at **<http://eee.uci.edu/04f/15300/>**
  - Instructor information
  - Course description and contents
  - Course policies and resources
  - Course schedule
  - Homework assignments
  - Course communication
    - Mailing list (announcements)
    - Noteboard (technical discussion)
    - Email (administrative issues)

## Getting Started

- Obtain your UCI netID
  - 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
  - Terminal with SSH protocol (secure shell)
  - Servers
    - `east.eecs.uci.edu`
    - `newport.eecs.uci.edu`
    - `malibu.eecs.uci.edu`
  - User name, password
- Work in the Unix system environment
  - shell, command prompt
  - system commands  
`echo, date, ls, cat, man, more,`  
`pwd, mkdir, cd, cp, mv, rm, rmdir`
  - manual pages

## Getting Started

- Use a text editor
  - **vi** (standard Unix editor)
  - **pico** (easy-to-use editor)
  - **emacs** (powerful editor)
  - others...