

CS-333:

Introduction to

Operating Systems

Harry H. Porter III, Ph.D.
Spring 2009

Class Webpage:

[**www.cs.pdx.edu/~harry/os**](http://www.cs.pdx.edu/~harry/os)

Course Organization

Office Hours: After class, 3PM-4PM

Textbook:

“Modern Operating Systems (3rd ed.),” Andrew Tanenbaum
About 80 pages / week

Assignment: Chapter 1 “Intro”
Chapter 2 “Processes and Threads”

Will cover chapters 1-6, plus...?

Class Web Page = Syllabus

www.cs.pdx.edu/~harry/os

Bookmark it, read it

Grader / TA...

Email mailing list: Mailman “PorterClassList”

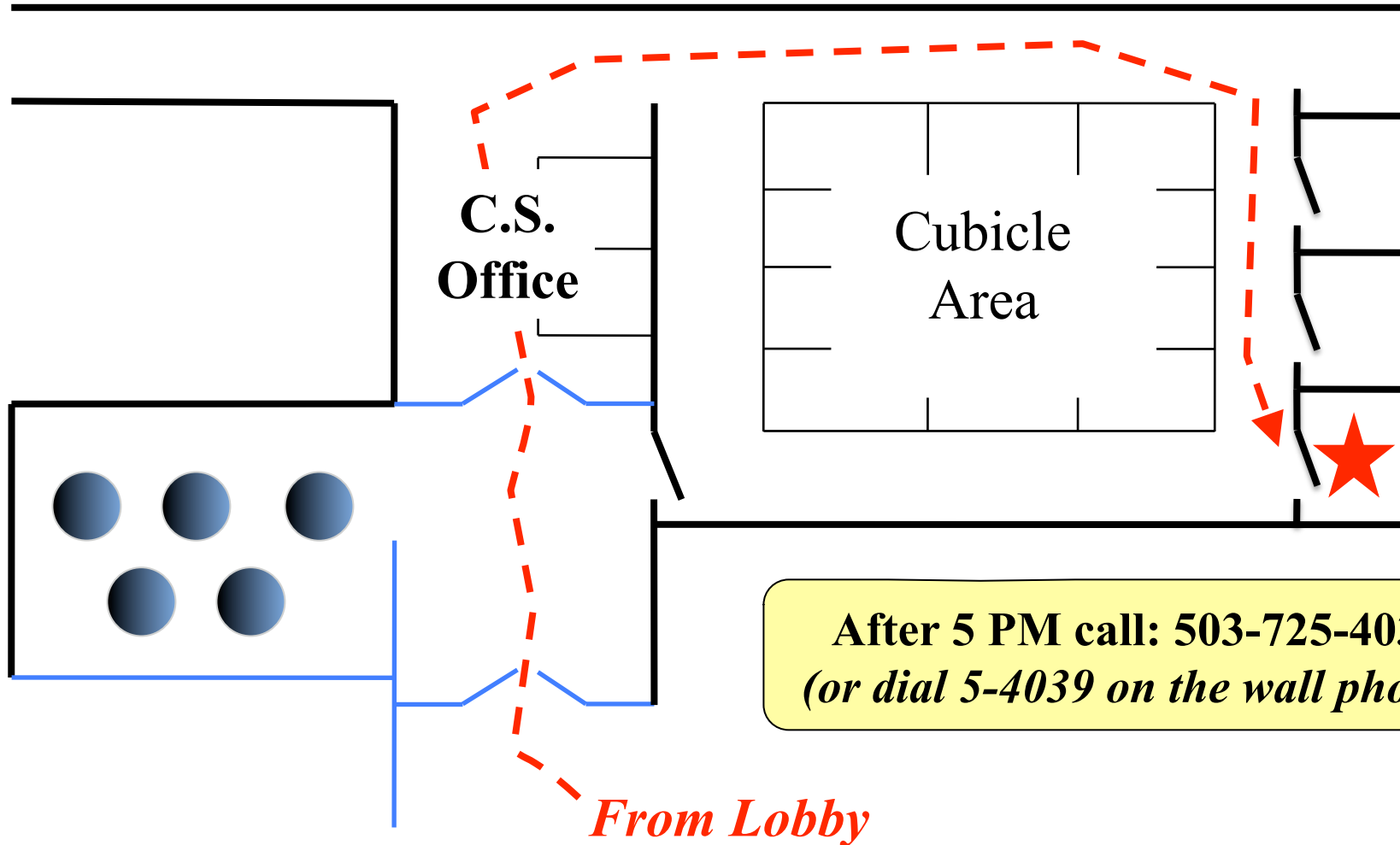
You must subscribe.

Attendance: Required

Questions? **ASK!!!**

Location of Prof. Harry Porter's Office

Fourth Avenue Building, Room 115-06



Course Organization

Grading:

10%	Homeworks
25%	Programming Projects
15%	Mid-Term Exam #1
15%	Mid-Term Exam #2
30%	Final Exam
5%	Attendance

Homeworks:

Every 2 weeks

Exams:

Closed book, closed notes
Will cover reading and/or lectures

Programming Project

The Blitz System

Lots of documentation
Steep learning curve

Lots of Existing Code

... You'll modify and add functionality

Will implement an O.S. kernel

- **Threads**
- **Processes, System Calls**
- **Virtual Memory, Paging**
- **File System**

Our Goal: To execute a “shell” program!

Programming Project

May work together, cooperate, discuss

You must write your own code!

Do not copy code!

Discussion encouraged

Mailing list

Projects will be approx. weekly

Each project will build on previous work

Must not fall behind!

BLITZ Documentation Package

~ 241 Pages

- *Purchase from Clean Copy*

\$25

On Broadway (between Mill and Montgomery)

- *Or print it yourself*

Download the PDF files

More info on the webpage

The BLITZ System

Project 1: Get familiarity with BLITZ tools

Due in 1 week

BLITZ Components:

- Computer architecture (similar to SPARC, ARM)
- Virtual Machine Emulator
- Debugger
- Assembler and Linker
- Compiler

Unix Tools

KPL: A Kernel Programming Language

The “host” computer:

Option 1: PSU’s System (Sun Solaris OS)

Option 2: Macintosh OS X

Option 3: Any Linux / Unix

Option 4: Windows using “Cygwin”