CSE 587
Operating Systems
Winter 1999
MW 6:30 – 7:50

Instructor: Hank Levy, 412 Sieg Hall, 543-9204, levy@cs.washington.edu

Office Hours: to be determined

TA: none

Required Texts: 551 collected papers, available from the copy center at the engineering library.

Useful Texts: The following are not required, but you might find them useful if you want to read about general operating systems information: Stallings, *Operating Systems: Internals and Design Principles*; Silberschatz and Galvin, *Operating Systems Concepts*; Tanenbaum, *Modern Operating Systems*; Bach, *The Design of the Unix Operating System*; Leffler, McKusick, Karels, and Quarterman, *The Design and Implementation of the 4.2BSD Unix Operating System*; Custer (maybe there's a newer version), *Inside Windows NT*; Strunk and White, *The Elements of Style*; Brooks, *The Mythical Man Month.*

Prerequisites: I assume that everyone has had an undergraduate O.S. course or "the equivalent", as well as CSE 548 (computer architecture) or "the equivalent."

Objectives: The objective of this course is for everyone (including me) to become knowledgeable about a broad range of central operating systems topics. The course is structured around a reading list of historical and contemporary research papers that I believe a "well-read" operating systems person should have seen. This is basically a discussion class; we will read all of these papers, and will discuss them during class.

Assignments: Reading, reading, and more reading. I expect you to read *all* of the assigned papers. In general there will be two or three for each class period. I expect you to read them *before* the class in which they're discussed. If you fall behind in the readings you will never catch up. Reading these papers is difficult and time consuming, even for me. But, it's a skill you will have to learn, i.e., reading papers, understanding them, and deciding what's important and what's not important, is crucial for anyone who is going to do research.

Paper Reviews: You will write a brief review of each paper that you read and will put it on the web so that everybody can read all the reviews, and so that I can read them before class.

Project In addition to the reading, you will have a significant programming project that will run throughout the term. The project will be done in small groups.

Exams: Two one-hour term tests. No final.

Grading: The two tests will be worth about 60%. The project and assignments and the whim of the instructor constitute the remaining 40%. Participation in class is required. Percentages are subject to change without notice.

Computing: We'll worry about this later, depending on what you need for your projects.