

William Paterson University  
College of Science and Health - Department of Computer Science

Fall 2013 – Spring 2015 Assessment Cycle  
Analysis of the Course Coverage and Assessment Report Data

Course Number: CS3450

Course Coordination Committee Members: Erh-Wen Hu, John Najarian, Gilbert Ndjatou (chair)

Date: June 26, 2015

**A. Course Prerequisites/Co-requisites**

a) Problems/Issues Identified: None

b) Suggestions for Improvement: N/A

**B. Course Objectives**

a) Problems/Issues Identified: None

b) Suggestions for Improvement: N/A

**C. Course Student Learning Outcomes**

a) Problems/Issues Identified: None

b) Suggestions for Improvement: N/A

**D. Course Content**

a) Problems/Issues Identified: None

b) Suggestions for Improvement: N/A

## **E. Assessment of the CS Program's Student Outcomes**

### **Student Outcome S1: Effectively communicate in written and oral forms.**

In this course, each student is required to produce a report on one or more of the following topics: virtualization and the cloud, security, multiple processor systems, LINUX, Android, Window 8, and operating system design. They are encouraged to work in groups of two or three. But some students choose to work by themselves. Although we do not always have the time for the presentations at the end of the semester, we feel that this student outcome is appropriate for this course because of the reports produced by the students. These reports are graded by the instructor of the course.

### **Student Outcome S5: Demonstrate abilities to locate and make effective use of information.**

In this course, each student is required to produce a report on one or more of the following topics: virtualization and the cloud, security, multiple processor systems, LINUX, Android, Window 8, and operating system design. Students are encouraged to work in groups of two or three. But some students choose to work by themselves.

### **Student Outcome S9:**

**Be able to develop programs in two or more major programming languages on at least two platforms.**

Students develop extensive experience with UNIX / Linux in this course with C / C++, to counterbalance the Windows OS prevalence. Student get to work with UNIX system calls, I/O, libraries, internals, file-systems, and basic system programming. They are asked to write programs in C for UNIX in class-assignments (often in a recitation-session walk-through or in a collective programming effort (either the whole class led by teacher or in student teams)), homework, projects, and exams. This second platform is more easily studied than Windows and provides a true learning experience and in-depth knowledge, not just a slick superficial GUI used to dumb-down the public with pretty colors and cuteness. This student outcome is appropriate for true Computer Scientific understanding and professional growth.

The evaluation tools \ metrics and procedures for measuring attainment of this outcome are well defined, well-executed, significant, and properly / accurately assessing the outcome.

Perhaps add a Student Outcome (in :

Demonstrate an Understanding of Computer Systems and their Networking

Since the domain of OS is hardly represented in S1, S5, and S9, we could complete the

Proceedings for CS 3380 which would be well assessed by the above proposed outcome.