

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: CS3820

Course Coordination Committee Members: 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, students prepare a report on a new programming language that they learn by themselves. However, the report is presented using a template provided by the instructor. They do not also have the time to present their reports and instead write simple programs in the programming language of their choice. We will therefore recommend that this Student Outcome no longer be assessed in this course.

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

In this course, students are required to learn a new programming language and to produce a report based on a template provided by the instructor. They are also required to write program assignments in their chosen programming language. We then assess how substantial are their reports and the quality of their programming projects. This project necessitates a lot of research over the web and we believe that it allows us to assess the abilities of the students to locate and make effective use of information. We therefore feel that this learning outcome is appropriate and is assessed appropriately.

### **Student Outcome S7: Demonstrate an understanding of programming language concepts.**

A major objective of this course is to introduce the major programming language concepts. A substantial amount of exercises and questions on tests and the final exam are also used to assess students understanding and knowledge of these concepts. We therefore believe that this student outcome is appropriate and is assessed sufficiently well.

### **Student Outcome S8:**

**Demonstrate an understanding of the major programming domains and the knowledge of the most appropriate programming language for each domain.**

A major objective of this course is to introduce the major programming domains and the most appropriate programming language for each domain. A substantial amount of exercises and questions on tests and the final exam are also used to assess students understanding and knowledge of these concepts. We therefore believe that this student outcome is appropriate and is assessed sufficiently well.

### **Student Outcome S9:**

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

Although we do introduce the Java programming language in this class, the time that we spent on it (three to three weeks and half) is not enough to give substantial programming projects in Java that will allow us to have a good assessment of the ability of students to program in this language. We will therefore recommend that this outcome be revised to: **Be able to develop programs on at least two platforms.**