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: CS3500

Course Coordination Committee Members: Erh-Wen Hu , Cyril Ku (chair), John Najarian

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.

This course requires having a team project which the teams need to produce documentations covering the software development life cycle. The instructor usually splits the documentation according to the different stages of requirements, specification, design, and implementation. The students need to present their software design to the class. The presentation is graded and many questions on tests and final exam are also used to assess students' knowledge of the project. This student outcome is appropriate and is assessed well.

Student Outcome S4: Work effectively as part of a team in a software or hardware project.

A major objective of this course is to produce a group project. The instructor usually divides the class into several 3- to 4-person teams (dependent on enrollment). Each team needs to produce documentations which require substantial coordination among team members. Students need to meet outside class time to work on the project. Tests and final exam include questions of team organization and management. This student outcome is appropriate for this course and is assessed sufficiently well.

Student Outcome S11:
Demonstrate an ability to use software engineering principles to analyze and design large software projects.

One of the major objectives of this course is for the students to produce a team project. The students need to use software engineering principles to analyze and design large software projects. The results of the analysis and the design are documented and assessed. Substantial amount of class exercises, tests and final exam questions are used to assess students' knowledge of these software engineering principles. This student outcome is appropriate for this software engineering course and the evaluation of the outcome is well assessed.