

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

Fall 2015 – Spring 2017 Assessment Cycle  
Analysis of the Program's Student Outcome Assessment Data

**Program Student Outcome:** S9: Demonstrate an understanding of computer systems and their networking.

**ABET's Related Student Outcomes:** (c), (i).

**Curriculum Committee Subgroup:** Computer Organization, Systems, and Networks

**Members:** John Najarian (Chair), Gilbert Ndjatou, Bogong Su

**Date:** November 21, 2017

**Updated On:** January 30, 2018

**A. Analysis of the Assessment Data**

For this assessment period, this student outcome was assessed in CS 3380 and CS 3450.

In these two courses, data were collected and evaluated in Spring 2016, Fall 2016 and Spring 2017.

In CS 3380, 24 students took the class in each of these semesters and only 7 out of a total of 72 did not perform at least at the level of adequate ability. In CS 3450, 24, 14, and 22 students respectively took the course and all of them perform at least at the level of adequate ability.

**B. Suggestions for Improvement**

N/A

**C. Improvement Implemented**

N/A

**D. List all the “performance level/frequency/percentage” tables and their sources..**

a. Faculty Course Assessment Report: CS3380, Spring 2016

**Data Collected:** Each student’s level of performance on questions on two tests.

**Method of Collection:** questions on computer networks on two tests.

Performance Levels	Frequency	Percentage
No Ability	0	0%
Some Ability	2	8.3 %
Adequate Ability	5	20.8 %
More than Adequate Ability	9	37.5 %
High Ability	8	33.3 %

**Observations:** As can be observed with the test scores, students do very well on those questions.

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b. Faculty Course Assessment Report: CS3380, Fall 2016

**Data Collected:** Each student’s level of performance on questions on two tests.

**Method of Collection:** questions on computer networks on two tests.

Performance Levels	Frequency	Percentage
No Ability	0	0.0%
Some Ability	3	12.5 %
Adequate Ability	6	25.0 %
More than Adequate Ability	8	33.3 %
High Ability	7	29.2 %

**Observations:** As can be observed with the test scores, students do very well on those questions.

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c. Faculty Course Assessment Report: CS3380, Spring 2017

**Data Collected:** Each student’s level of performance on questions on two tests.

**Method of Collection:** questions on computer networks on two tests.

Performance Levels	Frequency	Percentage
No Ability	0	0%
Some Ability	2	8.3 %
Adequate Ability	6	25.0 %
More than Adequate Ability	9	37.5 %
High Ability	7	29.2 %

**Observations:** As can be observed with the test scores, students do very well on those questions.

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d. Faculty Course Assessment Report: CS3450, Spring 2016

**Data Collected:** Number and complexity of projects developed in the UNIX environment.

**Method of Collection:** Each student is expected to program in the UNIX environment.

Performance Levels	Frequency	Percentage
No Ability	0	0.0%
Some Ability	0	0.0 %
Adequate Ability	5	20.8 %
More than Adequate Ability	9	37.5 %
High Ability	10	41.7 %

**Observations:** Most students have at least an adequate understanding of programming in the UNIX environment.

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e. Faculty Course Assessment Report : CS3450, Fall 2016

**Data Collected:** Number and complexity of projects developed in the UNIX environment.

**Method of Collection:** Each student is expected to program in the UNIX environment.

Performance Levels	Frequency	Percentage
No Ability	0	
Some Ability	0	
Adequate Ability	6	42.9%
More than Adequate Ability	7	50.0%
High Ability	1	7.1%

**Observations:** Most students have at least an adequate understanding of programming in the UNIX environment.

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f. Faculty Course Assessment Report : CS3450, Spring 2017

**Data Collected:** Number and complexity of projects developed in the UNIX environment.

**Method of Collection:** Each student is expected to program in the UNIX environment.

Performance Levels	Frequency	Percentage
No Ability	0	0%
Some Ability	0	0 %
Adequate Ability	9	40.9 %
More than Adequate Ability	9	40.9 %
High Ability	4	18.2 %

**Observations:** Most students have at least an adequate understanding of programming in the UNIX environment.

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