

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

Fall 2018 – Spring 2019 Assessment Cycle
Analysis of the Course Coverage and Assessment Report Data

Course Number: CS3420

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

Date: May 28, 2019

A. Course Prerequisites/Co-requisites

a) Problems/Issues Identified:

No problem identified.

b) Suggestions for Improvement:

N/A

B. Course Objectives

a) Problems/Issues Identified:

No problem identified.

b) Suggestions for Improvement:

N/A

C. Course Student Outcomes

a) Problems/Issues Identified:

No problem identified.

b) Suggestions for Improvement:

N/A

D. Course Content

a) Problems/Issues Identified:

No problem identified.

b) Suggestions for Improvement:

N/A

E. Support for the Attainment of the CS Program Student Outcomes

Student Outcome S2:

Demonstrate abilities to apply knowledge of mathematics to the discipline of computer science.

In this course, the following fundamental concepts of discrete mathematics are applied in the context of analysis of algorithms: arithmetic and geometric summations; Logarithms and exponents, polynomial functions, recurrence relations, and asymptotic notations. This course therefore supports the attainment of this student outcome.

Student Outcome S3:

Apply computer science theory and software development fundamentals to produce computing-based solutions.

In this course, procedural abstraction, structured programming and object oriented programming paradigms are applied in the developments of lab assignments. This course therefore supports the attainment of this student outcome.

Student Outcome S6:

Design, implement, and evaluate a computing-based solution to meet a given set of computing requirements in the context of the program's discipline.

One major objective of this course is to introduce students to the different data structures that are often used to solve computer problems and the algorithms used to manipulate those data structures. Questions on tests and the final exam are used to assess students' knowledge of these data structures and their ability to understand and use the algorithms. Students most also write programs that demonstrate their understanding of the data structures and the algorithms that are used to manipulate them. This course is therefore consistent with this program student outcome.

F. Analysis of the Results of the Evaluations of the Course Student Outcomes Assessment Data and Suggestions for Improvement

Not enough data.

G. Course Coverage and Assessment Report Data

Data not provided.