

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: CS2800

Course Coordination Committee Members: Gilbert Ndjatou, Bogong Su (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 S2:

Demonstrate competence in mathematical skills (discrete structures, differential and integral calculus, and Probability and statistics).

In addition to discussing number systems (binary, hexadecimal, and octal number systems), the conversions among those number systems and the basic arithmetic operations on those number systems, we also discuss signed decimal arithmetic and two's complement arithmetic. Hands-on exercises are used to help students understand these concepts and many quizzes are used to test their understanding of these concepts.

Student Outcome S10:

Demonstrate competence in computer organization and architecture.

In this course we introduce the basic computer organization and architecture of the Intel 8086 processor at the machine and assembly levels. We also discuss the instruction set of the Intel 8086 processor and perform many hands-on exercises on using these instructions set to solve computer problems. Students are evaluated on how well they understand the Intel 8086 processor architecture and also use its instruction set to solve computer problems.