

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

Fall 2018 – Spring 2019 Assessment Cycle
Review and Revision of the CS Program's Educational Objectives

Curriculum Committee Members: Erh-Wen Hu, Cyril Ku, John Najarian, Gilbert Ndjatou (chair),
Bogong Su

Prepared by: Gilbert Ndjatou Date: June 3, 2019

Approved by the Department Curriculum Committee on:

Report

Objective 01:

To create an environment conducive to learning through teaching, research and creative activities.

Revision: None.

Objective 02:

To promote student success, academic excellence, and community outreach with opportunities for lifelong learning.

Revision: None.

Objective 03:

To actively challenge students to high levels of intellectual and professional accomplishment and personal growth in preparation for careers and advanced studies in computing, and productive citizenship.

Revision: None.

Objective 04:

To provide students with a sound foundation in mathematics, science, computer science, and the application of this knowledge, which will equip them either to enter careers or pursue advanced studies in computing.

Revision: None.

Objective 05:

To develop students' ability to communicate well, both orally and in writing.

Revision: None.

Objective 06:

To develop students' understanding of the ethical and moral issues for computing professionals and the impact of computing technology in society.

Revision: None.

Objective 07:

To develop a curriculum with core materials that provide our graduates with the fundamental knowledge of algorithms, data structures, software design, concepts of programming languages, computer organization, and computer networks and security, and advanced course work that provides them with breadth of knowledge, and also builds on the core materials to provide them with some depth of knowledge.

Revision: None.

Objective 08:

To emphasize theoretical foundations, problem analysis and solution design throughout the program.

Revision: None.

Table of Revised CS Program Educational Objectives

Starting with the Fall 2019 semester, the following will be the new CS program educational objectives:

Program Educational Objectives
01. To create an environment conducive to learning through teaching, research and creative activities.
02. To promote student success, academic excellence, and community outreach with opportunities for lifelong learning.
03. To actively challenge students to high levels of intellectual and professional accomplishment and personal growth in preparation for careers and advanced studies in computing, and productive citizenship.
04. To provide students with a sound foundation in mathematics, science, computer science, and the application of this knowledge, which will equip them either to enter careers or pursue advanced studies in computing
05. To develop students' ability to communicate well, both orally and in writing.
06. To develop students' understanding of the ethical and moral issues for computing professionals and the impact of computing technology in society.
07. To develop a curriculum with core materials that provide our graduates with the fundamental knowledge of algorithms, data structures, software design, concepts of programming languages, computer organization, and computer networks and security, and advanced course work that provides them with breadth of knowledge, and also builds on the core materials to provide them with some depth of knowledge.
08. To emphasize problem analysis and solution design throughout the program.