

YORK TECHNICAL COLLEGE

TECHNICAL STANDARDS FOR **COMPUTER TECHNOLOGY** AND RELATED PROGRAMS

ESSENTIAL FUNCTIONS OF A STUDENT IN THE **COMPUTER TECHNOLOGY** PROGRAM:

Identify and explain the basic parts and operating principles of an electronic computer.
Demonstrate the ability to use the capabilities of a computer operating system, and explain its principles of operation.
Given a set of requirements, design, code, and test a software application in a modern programming language.
Demonstrate the ability to use popular application software, including word processing and spreadsheet programs.
Describe the steps involved in performing a systems analysis, and demonstrate the ability to perform these within the context of a business data-processing problem.
Give a professional-quality presentation on a topic related to computer information system concepts or project work.
Given a problem statement for a database system, select an appropriate database software tool and design and implement the solution.
Explain the principles of data communications, and discuss its most common current applications.

MINIMUM QUALIFICATIONS NECESSARY TO PERFORM THE ESSENTIAL FUNCTIONS OF A STUDENT IN THE COMPUTER TECHNOLOGY PROGRAM:

DATA COLLECTION: Requires the ability to gather, collate and classify information about certain topics, people, or things. Organizing and communicating that information in some format.

MANUAL DEXTERITY/MOTOR COORDINATION: Requires the ability to use body parts to manipulate, handle, move, lift, devices, materials, and equipment. Must have good hand-eye coordination, muscle control, balance, and body part coordination.

INTERPERSONAL COMMUNICATION: Requires the ability to communicate effectively in written, verbal, and nonverbal forms.

PHYSICAL COMMUNICATION: Requires the ability to speak and/or hear (express self by spoken words and perceive sounds by ear).

CREATIVE REASONING: Requires the ability to apply theory and principles to practical situations. To use creativity to apply a variety of techniques or methods to practical situations.

LANGUAGE DEVELOPMENT: Requires the ability to visually read and comprehend information from textbooks, journals, resource books, and other documents. Requires the ability to use expressive communication through proper/standard speech and writing forms. Must be able to read, write, speak and comprehend English with sufficient skill to interact with others in verbal and written form.

INTERPERSONAL TEMPERAMENT: Requires the ability to deal effectively with stress in a variety of situations. Mature judgment, patience, and discretion are required, especially in highly stressful or emergency situations.

Any student who feels s/he may need an accommodation based on the impact of a disability should contact the Special Resources Office (SRO) at 803-327-8007, located in the Student Services Building within the Counseling and Support Services Area. The SRO coordinates reasonable accommodations for students who self-identify their documented disability.