

BDPA Introduction to Computer Science/Information Technology Course SITES High School Computer Competition (HSCC)
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Prerequisite(s): None **Lab Hours:** Saturdays, 9AM – 2PM
Location: Sinclair Community College (Building 5, RM 041)
Instructor: Mrs. Danielle Meeks-Harshaw, 654.0563, meeksharsh@yahoo.com

Course Description

This course is designed to teach students information required to answer oral & written questions for all of the subject matters listed in the course objectives section. **Out-of-class Lab Work is required! No Exceptions!**

Course Outcomes:

- Apply techniques that demonstrate a process for decision making and problem solving.
- Exhibit professional behavior and work habits. **I.E.** Submitting homework/projects on time; Attendance; Notifying instructors of absence; and Appearance (clothing, etc.); and Team Work
- Exhibit oral and written communication skills.

Course Objectives:

The student will be able to:

- Know/Apply the history of BDPA, HSCC, and Information Technology
- Know/Apply ASP, ADO, HTML, SQL, & ODBC terminology
- Know/Apply Computer Software and Hardware terminology
- Know/Apply Internet and Communications terminology
- Know/Apply Binary terminology
- Know/Apply Application terminology
- Know/Apply Presentation Skills
- Know/Apply Time Management Skills

Course Outline:

- Computer Structures
- Bus Structure
- Basic Operation of the Computer
- Representing Numbers in a Computer
- Program Planning and Design
- Program Coding and Simple Input and Output
- Control Structures and Program Writing
- Functions and Subroutines
- Arrays and Strings
- Introduction to Data Structures
- Translation Process