



ATENEOS DE DAVAO UNIVERSITY  
HIGH SCHOOL

SCOPE AND SEQUENCE  
SY 2014-2015  
1<sup>st</sup> Quarter

**Information Technology 4**

**Unit 1: Building Computer Programs**

**Content Standard:**

The learner demonstrates sound understanding of the procedural approach to computer programming, the programming ethics and the use of the C Programming Language for automating processes and solving real world problems.

**Performance Standards:**

The learner practices good programming habits.

The learner performs analysis and design and builds computer programs using the C programming language to demonstrate integrated curriculum concepts, automate systems, and solve real world problems.

**Performance Task:**

Develop a C Program

**Topics:**

Computer Ethics  
Introduction to Programming

- The Program Development Process

Introduction to C Programming

- History, IDE & Program Structure
- Reserved/Key Words & Good Programming Styles

Basic Elements of C

- Identifiers, Data Types, Constants and Variable

Data Output

- Printf ( ), Escape Sequence, Format Specifiers

Data Input

- Scanf ( ), format specifiers

Assignment Statement  
Expression

- Numerical & Boolean Expression

Selection/Branching Control Structure

- IF, SWITCH

Iteration Control Structure

- WHILE, DO-WHILE, FOR

C Functions and Procedures (*for Honors Program only*)

**References/Resources:**

Hutchinson, S. *Computers, Communications and Information*, McGraw-Hill, 2006  
Kerningham, Brian, et. al. *The C Programming Language*, Perfect Bound Publishing House, Inc. 1989.  
Schildt, Herbert. *Turbo C/C++*, Osborne, McGraw-Hill, 1992  
Peñaflorida, Arlene R. et. al. *Understanding Structured Programming*, Vibal Publishing House, Inc. 2004  
Dela Cruz, Nimfa, *Computing for Life, C & HTML Programming*, FNB Educational, Inc. 2002  
<http://berchmans.addu.edu.ph>