**CS-1400 Exam #1 Review Notes**

**Introduction to Programming**

* Rules for;
  + Naming Variables
  + Naming Constants
  + Writing a file prologue
  + Commenting
* Data Types
  + How and where is data stored in the computer
* The process for how a computer executes a program
* Basic Elements of a C# Program
* Steps for;
  + Creating a C# program
  + Compiling a C# program
  + Loading a C# Program in to memory
  + Executing the program
* Programming Style
* Storing Data
  + Data Segment
  + Stack
  + Heap
* ‘Desk Check’ code- definition

**Programs and Data**

* C# Identifiers
* Differences between Objects and Primitive Data
* Primitive Data Types
  + How each one is used and when it is used
* Difference between a Constant and a Variable
  + How to declare each properly in C#
* Console.ReadLine method
* Console.WriteLine method
* Formatting data for Output
* String Class (Proper use for storing text data)

**Graphical User Interfaces (GUI)**

* Basic GUI Components
  + Form, Message Box, TextBox, Menustrip
* Difference between a Procedural Program and an Event Driven Program

**Expressions**

* Operators
* Operator Precedence
* Integer Division
* Data Type Conversions
* String Class