



REVIEW FOR FINAL

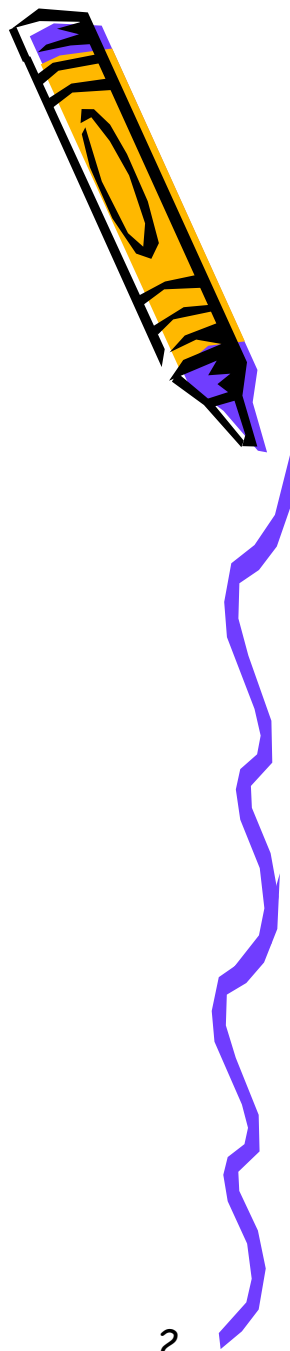
CMPT 110
Fall, 2018



Duration: 2 HOURS

Tuesday, December 5th, 2018
in SWH 10041 at 15:30 hrs.

Comprehensive


















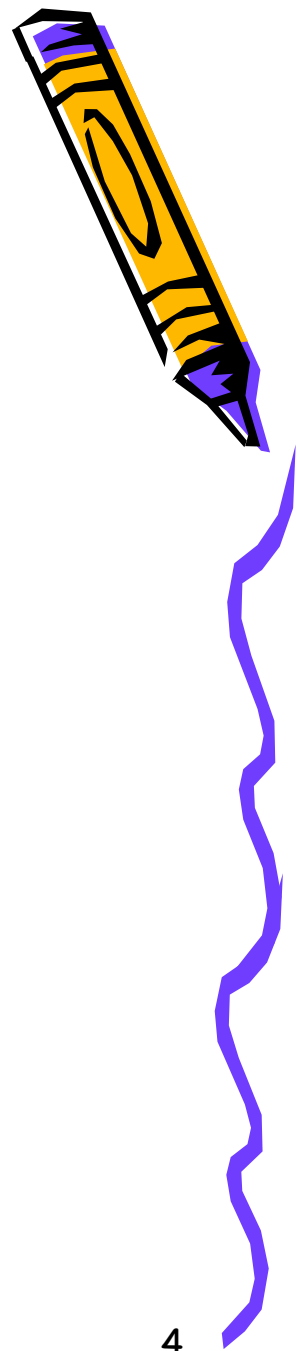
Hierarchical Study Guide

- PowerPoints (most important)
- Study Guide (to assist in PPTs)
- Textbook (chapters 2 & 3)



PPTs

-  0 - Admin-110
-  1 - Introduction
-  2 - Algorithms
-  3R - The High-Speed Electronic Digital C
-  4 - Object Oriented Introduction
-  5 - Programming in Visual Basic
-  6 - VB
-  7 - Events
-  8 - Data Types and Operators
-  10.2 - Representation of Numbers
-  12.1 - Control Structures
-  12.2 - Decision Structures in VB
-  12.3 - Loop Structures in VB
-  14 - Lists, Tables and Arrays in VB.Net
-  REVIEW FOR MIDTERM




PPTS

 0 - Admin-110

 1 - Introduction

 2 - Algorithms

 3R - The High-Speed Electronic Digital C

 4 - Object Oriented Introduction

 5 - Programming in Visual Basic

 6 - VB

 7 - Events

 8 - Data Types and Operators

 10.2 - Representation of Numbers

 12.1 - Control Structures

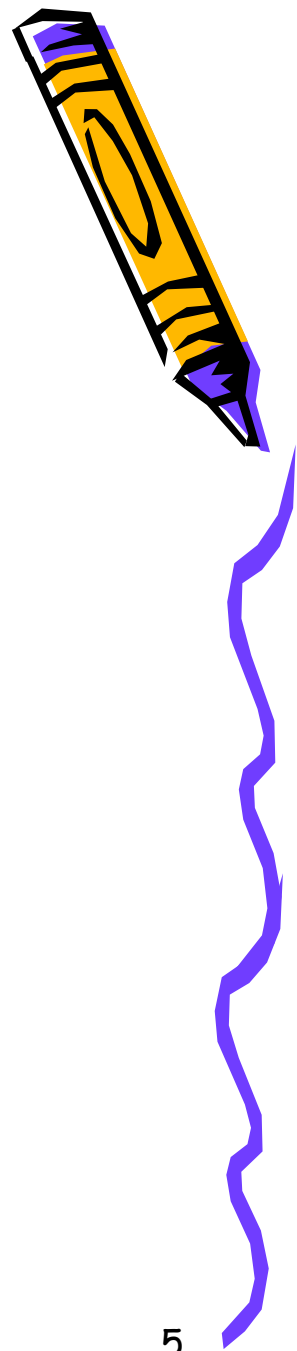
 12.2 - Decision Structures in VB

 12.3 - Loop Structures in VB

 14 - Lists, Tables and Arrays in VB.Net




 REVIEW FOR MIDTERM

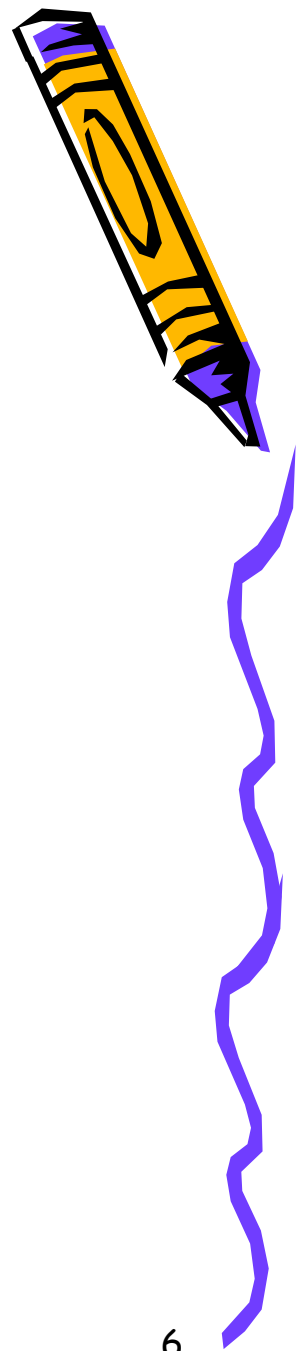
**Some material is not
in the study guide**



PPTs

And there were a few
PDFs...

-  Chapter 2
-  Chapter 3
-  Visual Basic Events



Study Guide

 CMPT 110 Study Guide

 Unit 1

 Unit 2

 Unit 3

 Unit 4

 Unit 5

 Unit 6

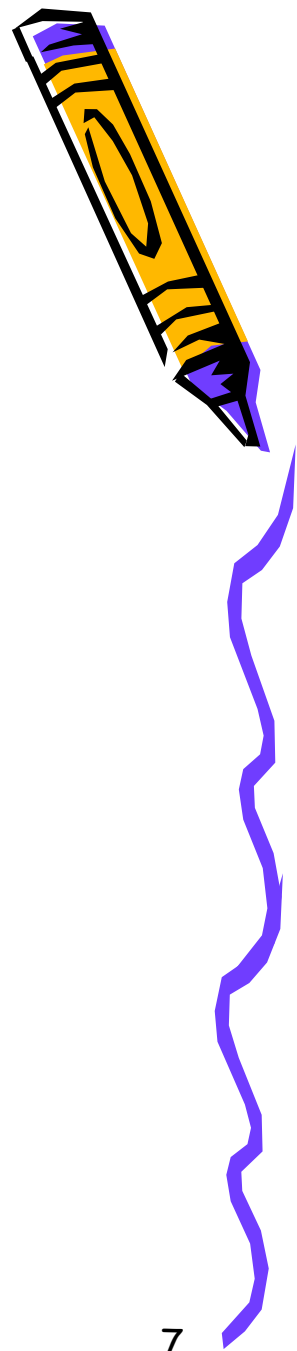
 Unit 7

 Unit 8

 Unit 9

 Unit 10

 Unit 11



cmpt-110 Archive By Thread

60 messages: Starting Mon Sep 18 2017 - 13:10:12 PDT, Ending Fri Nov 24 2017 - 10:21:48 PST
sort by: [[author](#)] [[date](#)] [[subject](#)] [[attachment](#)]

Make sure to look at the email archive.

Here is the contents of the archive from last year

- [Human Perception PPT](#) Steven Pearce (Fri Nov 24 2017 - 10:21:06 PST)
- [ASP.NET PPT](#) Steven Pearce (Wed Nov 22 2017 - 11:44:35 PST)
- [FYI](#) Steven Pearce (Wed Nov 22 2017 - 10:58:00 PST)
- [Files and Graphic PPTs](#) Steven Pearce (Wed Nov 22 2017 - 10:44:28 PST)
- [HW4](#) Steven Pearce (Thu Nov 16 2017 - 10:00:23 PST)
- [Final Homework](#) Steven Pearce (Fri Nov 10 2017 - 13:05:44 PST)
- [HW3 submission instructions](#) Attyeh Hoseini (Fri Nov 10 2017 - 12:30:42 PST)
- [File Access Video](#) Steven Pearce (Fri Nov 10 2017 - 06:56:51 PST)
- [Array PPT](#) Steven Pearce (Wed Nov 08 2017 - 09:01:48 PST)
- [MT Answer Key](#) Steven Pearce (Fri Nov 03 2017 - 10:29:55 PDT)
- [TA OFFICE HOURS](#) Steven Pearce (Thu Nov 02 2017 - 08:05:10 PDT)
- [Decision and Loop PPTs](#) Steven Pearce (Fri Oct 27 2017 - 15:11:50 PDT)
- [HW3](#) Steven Pearce (Fri Oct 27 2017 - 09:01:52 PDT)
- [Midterm grading](#) Attyeh Hoseini (Sun Oct 22 2017 - 19:47:16 PDT)
- [Revised OOP PPT](#) Steven Pearce (Fri Oct 20 2017 - 12:08:21 PDT)
- [Object Oriented Dot Notation](#) Steven Pearce (Thu Oct 19 2017 - 12:21:48 PDT)
- [VB Tutorial](#) Steven Pearce (Wed Oct 18 2017 - 18:07:28 PDT)
- [PPTs 8 9 10 and 11](#) Steven Pearce (Wed Oct 18 2017 - 12:28:52 PDT)
- [Midterm office hour](#) Attyeh Hoseini (Wed Oct 18 2017 - 02:47:51 PDT)
- [About the Updated Assignment](#) Steven Pearce (Mon Oct 16 2017 - 12:35:25 PDT)
- [CHANGES TO ASSIGNMENT #2](#) Steven Pearce (Mon Oct 16 2017 - 11:50:53 PDT)
- [HW1 re-checked](#) Attyeh Hoseini (Sat Oct 14 2017 - 22:07:53 PDT)
- [HW1 Grades](#) Steven Pearce (Sat Oct 14 2017 - 13:58:59 PDT)
- [About assignment 1](#) Attyeh Hoseini (Sat Oct 14 2017 - 12:08:35 PDT)
- [HW1 grades](#) Attyeh Hoseini (Fri Oct 13 2017 - 23:17:55 PDT)
- [Assignment #2 Addendum](#) Steven Pearce (Fri Oct 13 2017 - 10:35:13 PDT)
- [MIDTERM REVIEW PPT](#) Steven Pearce (Wed Oct 11 2017 - 10:40:54 PDT)
- [Big Picture PPT and Mock Test with Answers](#) Steven Pearce (Wed Oct 11 2017 - 10:39:10 PDT)
- [Assignment #2](#) Steven Pearce (Tue Oct 10 2017 - 10:03:41 PDT)
- [The Focus Event in VB](#) Steven Pearce (Fri Oct 06 2017 - 08:06:17 PDT)
- [Fwd: Note taker Announcement for CMPT 110 Student with a Disability - 1177](#) Steven Pearce (Thu Oct 05 2017 - 15:18:51 PDT)
- [Final Revision of PPT 7](#) Steven Pearce (Thu Oct 05 2017 - 09:59:14 PDT)
- [Some instructions regarding the assignments](#) Attyeh Hoseini (Sat Sep 30 2017 - 09:11:45 PDT)
- [Assignment Due Time/Date](#) Steven Pearce (Fri Sep 29 2017 - 17:06:10 PDT)
- [GREAT NEWS FROM THE PUBLISHER](#) Steven Pearce (Thu Sep 28 2017 - 14:15:07 PDT)
- [REVISED PPT 7 \(Data Types and Operators\) and VB Cheat Sheet \(again\)](#) Steven Pearce (Thu Sep 28 2017 - 13:19:34 PDT)
- [HW1](#) Steven Pearce (Thu Sep 28 2017 - 12:02:22 PDT)
- [Visual Studio](#) Steven Pearce (Thu Sep 28 2017 - 06:48:15 PDT)
 - [Re: Visual Studio](#) Steven Pearce (Thu Sep 28 2017 - 07:09:23 PDT)
- [IMPORTANT ANNOUNCEMENT](#) Steven Pearce (Wed Sep 27 2017 - 16:21:06 PDT)
- [Events and Data Types PPTs](#) Steven Pearce (Wed Sep 27 2017 - 14:25:06 PDT)
- [TA E-Office Hours](#) Steven Pearce (Wed Sep 27 2017 - 12:16:14 PDT)
- [VB Syntax PDF](#) Steven Pearce (Wed Sep 27 2017 - 09:14:44 PDT)
- [MIDTERM DATE](#) Steven Pearce (Mon Sep 25 2017 - 16:07:47 PDT)
- [Submission Instructions for HW1](#) Steven Pearce (Mon Sep 25 2017 - 10:40:20 PDT)
- [Example of a VB.NET Program](#) Steven Pearce (Mon Sep 25 2017 - 08:43:45 PDT)



INSTRUCTIONS



1. Calculators are **not** permitted.
2. This exam is **closed book**.
3. Clearly print your name and student ID number on this examination (above).
4. This exam contains **multiple choice** questions.

NOTES REGARDING MULTIPLE CHOICE QUESTIONS:

- There are **five** possible choices per question.
 - There is one **best** choice for full credit (+1).
 - The remaining four choices are **worthless**.
5. The values of all non-multiple choice questions are stated explicitly in **bold**.
 6. There are **90 points** in total.
 7. There are **8 pages** including this cover sheet.
 8. You have **two hours**.
 9. Dictionaries are NOT allowed.



Cheat-Sheets

Variable Declaration

```
Const trialDays As Integer = 30 'Constant
Dim isInvoice As Boolean = True 'Boolean
Dim keystroke As Char '16 bit Unicode character
Dim count As Integer = 0 'Signed 32-bit integer
Dim invoiceId As Long = 0 'Signed 64-bit integer
Dim total As Double = 0 'Double precision float
Dim tax As Single = 0 'Single precision float
Dim firstName As String = String.Empty 'String

Dim today As DateTime = DateTime.Now 'Current Date
Dim saleDate As DateTime = New _
    DateTime(2004, 1, 23, 13, 48, 39)
    '(year, month, day, hours, minutes, seconds)

Dim items(100) As Integer 'Array (See ArrayList)

Enum OrderStatus As Integer
    NewOrder = 1
    Picked
    Shipped
End Enum
```

Procedures/Properties

```
//Access Modifiers: public, friend,
//private, protected, protected friend

Private Function Markup(ByVal total _
    As Double) As Double
    Return total * _markupPercent
End Function

Friend Property InvoiceId() As Integer
    Get
        Return _invoiceId
    End Get
    Set(ByVal Value As Integer)
        _invoiceId = Value
    End Set
End Property
```

Loops

```
'While Loop
While i < 10
    i += 1
End While

'For Loop
For i As Integer = 0 To 9
    If (isFound) Then _
        Exit For 'Exit loop
Next

'For each loop
Dim dt As DataTable
For Each _
    dr As DataRow In dt.Rows

    Console.WriteLine( _
        dr(0).ToString())
Next

'Do Loop
Do
    i += 1
Loop Until i > 9
```

Parameter Definitions

```
'Value, Reference, Dynamic
Private Sub Calc( _
    ByVal i As Integer, _
    ByRef j As Integer, _
    ByVal ar() As Integer)
End Sub
```

Branching

```
'If/Else statement
If (i > 0 AndAlso j <> 5) OrElse k = 1 Then
Else If (i < 0) Then
End If

Select Case i 'Case statement
    Case Is < 2
        Return "Less than two"
    Case 3, 5
        Return "Three or five"
    Case Else 'Default
        Return "Other"
End Select

j = CInt(If(i > 0, 1, 0)) 'Immediate If
```

Error Handling

```
Try
    i = 10 / 0
    ' "Catch" the error
Catch ex As Exception
    Dim s As String = "Error:" + vbCrLf _
        + "Target: " + ex.TargetSite.ToString _
        + vbCrLf + "Error: " _
        + ex.Message.ToString + vbCrLf _
        + "Trace: " + ex.StackTrace.ToString
    MsgBox(s, MsgBoxStyle.Critical, _
        "Error")
Finally 'Always do this
    inputFile.Close()
End Try
```

Operators

Computational

```
- Negate/Subtract
* Multiplication
/ Division Float
\ Division Integer
mod Modulus
+ Addition
```

Logical

```
not Logical NOT
< Less than
> Greater than
<= Less than or equal
>= Greater than or equal
= Equality
<> Inequality
And Logical AND
Or Logical OR
AndAlso Short Circuit
OrElse Short Circuit
```

Assignment

```
= Assignment
```

Compound assignment operators

```
+= Addition
-= Subtraction
*= Multiplication
/= Division
```

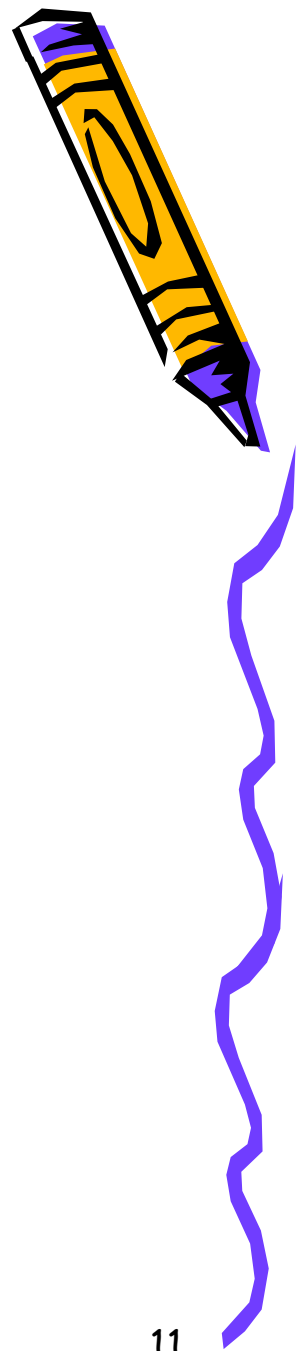
GAC Location

```
C:\WINDOWS\assembly\GAC
```

KNOW VISUAL BASIC BASICS!



Microsoft
Visual Basic 6.0



Good Luck

