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CSTP 2104: Windows Interactive Application Programming

EFFECTIVE DATE

September 2019

DEPARTMENT

Computer Systems Tech Diploma

DESCRIPTION

In this hands-on course students will build upon their previous generic programming courses to build graphical user interfaces and design Windows application software. The Windows platform is the predominant OS (Operating System) and it has a complex ecosystem for developing advanced GUI (Graphical User Interface)-based applications. Students will program with C# using .NET framework, XAML (eXtensible Application Markup Language), and Windows Forms to build industry standard GUI-rich applications with interesting and sophisticated back-ends. It is important that student use modern programming constructs and well-known patterns such as classes and objects, interfaces, observers, abstract factories in their projects in this course.

CREDITS

3.0

YEAR OF STUDY

2nd Year Post-secondary

PREREQUISITES

CSTP 1205 Programming in C++

COREQUISITES

None

COURSE LEARNING OUTCOMES

Upon successful completion of this course, students will be able to:

- Use the C# language to build Console and Windows Form applications
- Use common Windows controls including Form, TextBox, Button, and Label
- Write executable and Class Library Assemblies, using the C# language
- Use multiple projects, in a Visual Studio Solution
- Implement exception handling to build robust applications
- Use various Input/Output (I/O) system

- Implement the latest .NET features including LINQ, Lambdas, and Extension Methods

PRIOR LEARNING ASSESSMENT & RECOGNITION (PLAR)

None

HOURS

Lecture: 30

Lab: 30

INSTRUCTIONAL STRATEGIES

Instructional strategies include classroom lectures, demonstrations, group discussions, computer lab and hands-on practical work.

GRADING SYSTEM

Letter Grade (A-F)

PASSING GRADE

C

EVALUATION PLAN

Type	Percentage	Assessment activity
Project	70	
Final Exam	30	

COURSE TOPICS

- C# Programming
- Microsoft .NET framework
- Windows Forms and Dialogs
- Visual Studio and MSDN Library
- Exception Handling
- Class Assembly and EXE in C#
- .NET collection classes

LEARNING RESOURCES

None

Notes:

- Course contents and descriptions, offerings and schedules are subject to change without notice.
- Students are required to follow all College policies including ones that govern their educational experience at VCC. Policies are available on the VCC website at:
<https://www.vcc.ca/about/governance--policies/policies/>.
- To find out how this course transfers, visit the BC Transfer Guide at <https://www.bctransferguide.ca>.

Broadway campus

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Downtown campus

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