

# COMP 3602

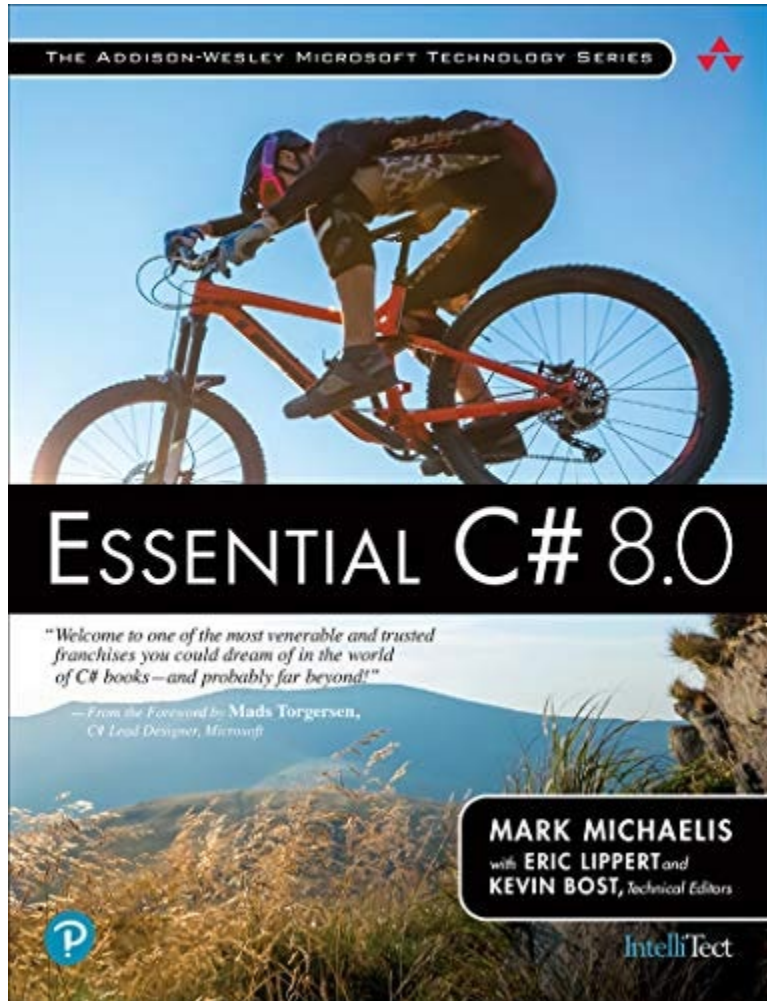
C# Application Development  
Course Introduction



## Credit

- Course materials including presentations, support materials, labs, and assignments are based on those created by Charlie Blattler

# Optional Textbook



- Not required
- Course is not based on this book

# Free Textbook Download



- Free Ebook download
- Not required
- Course is not based on this book
- See download link on the Learning Hub course homepage

# Evaluation

- Quizzes (online) – 5%
- Assignments – 50%
  - Nine Assignments
  - Not all weighted equally
  - All assignments MUST be completed to pass this course
- Labs (in class) – 5%
- Final Exam – 40%
  - In-class coding

## In Class

- Classes will consist of a mix of lectures and labs
  - Lab solutions available once lab is submitted
- Attendance is taken
- 15-minute break (2 x 10 min breaks instead during online sessions)
- Lecture: about 2-2.5 hours
- Lab for the remainder of class
  - *Submit lab to get solution*
  - Lab is due the day before the following class

## Outside of Class

- Quizzes
  - Available after each class – Also due the day before following class
- Assignments
  - Available the day of class – Also due the day before following class

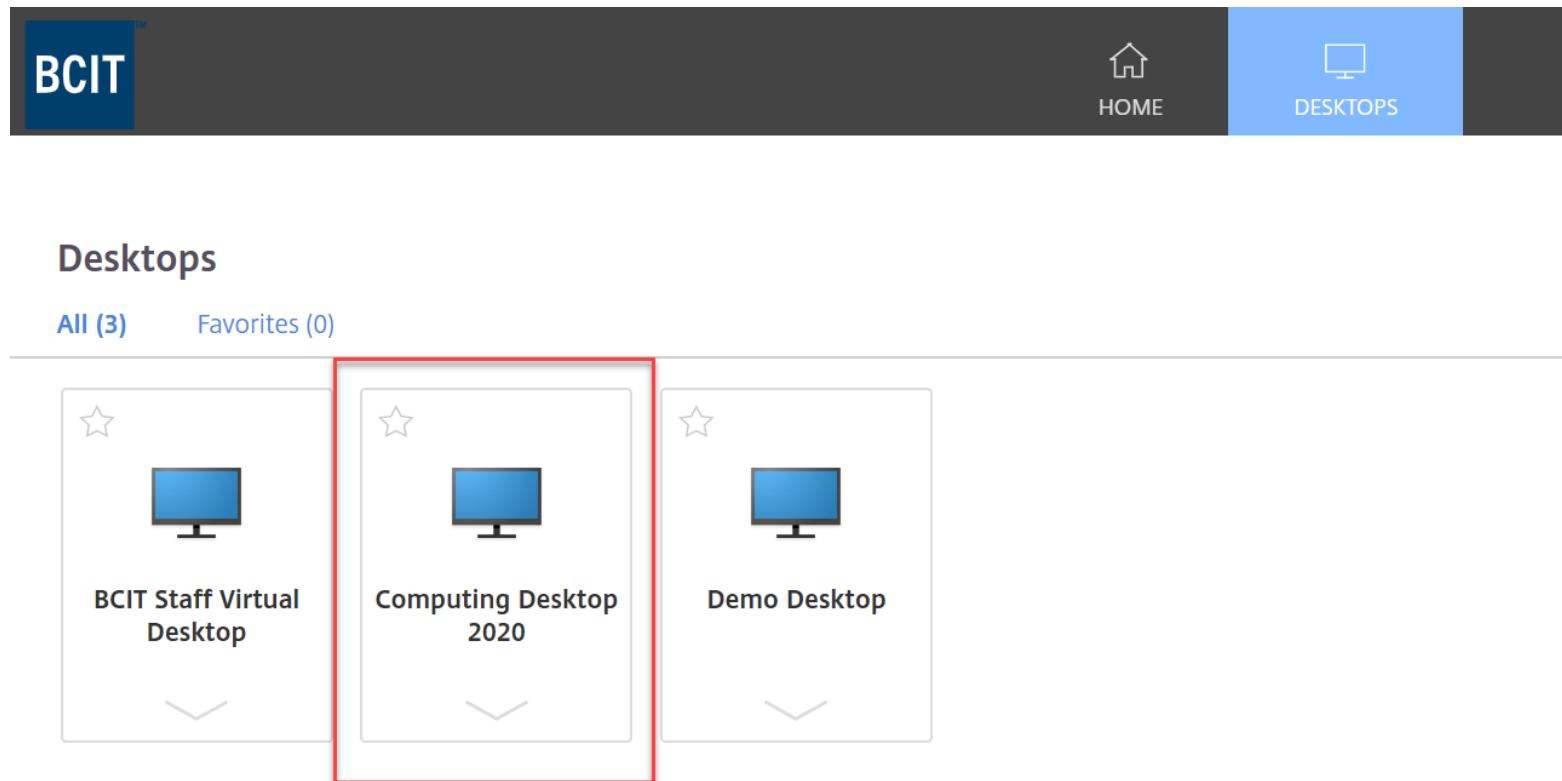
## Online – The Learning Hub

- As everything is Online due to COVID, think of the “Online” portion of this course as “Self-paced study”
- Materials are posted after each class for the online portion of this class for review
- Some online labs
- Two “Online” assignments
- Quizzes and assignments will incorporate materials learned online
- Questions and discussion on the Learning Hub is encouraged



# Workspaces

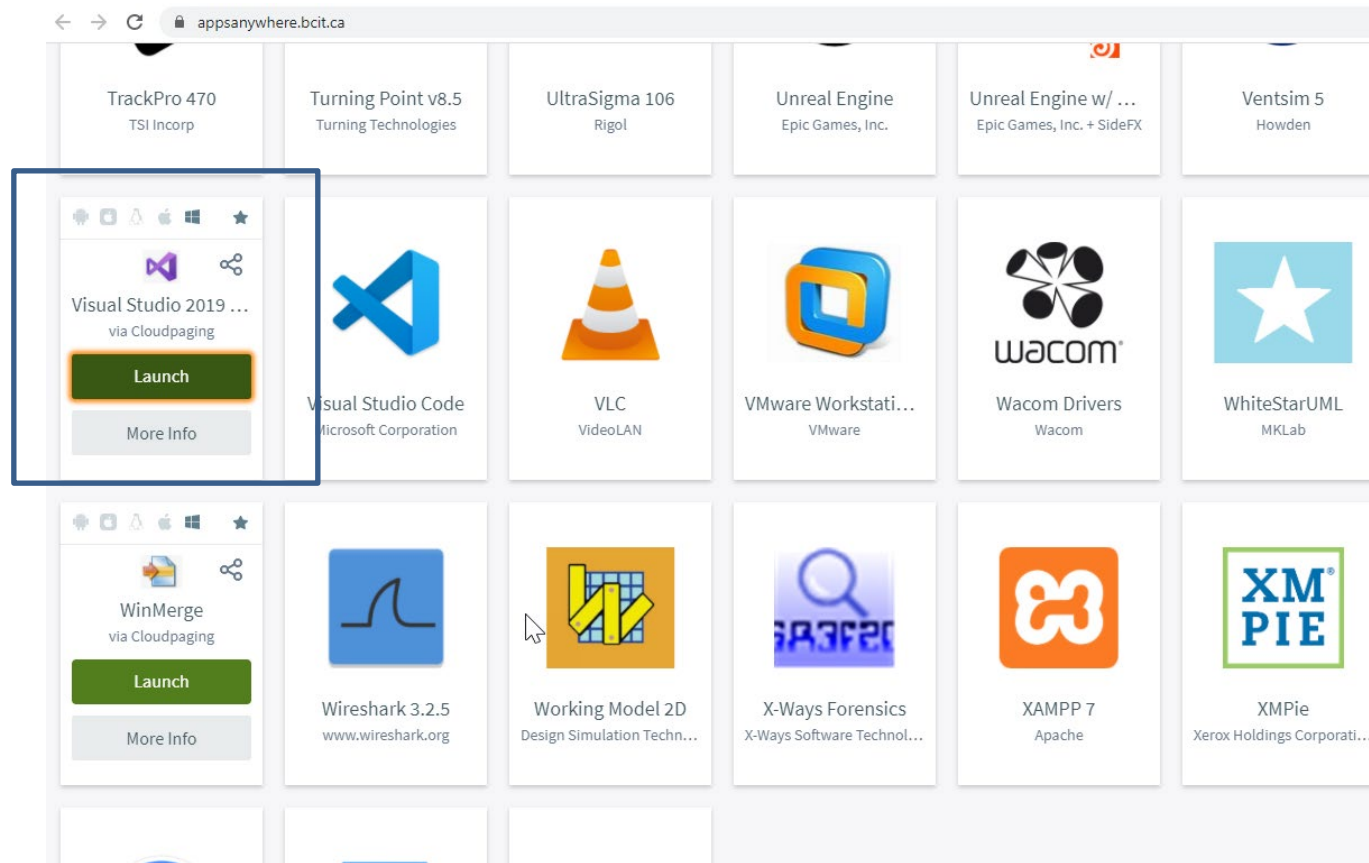
- <https://workspace.bcit.ca/>
- Citrix VM with Visual Studio 2019 installed





# AppsAnywhere

- <https://appsanywhere.bcit.ca/>
- Visual Studio 2019
  - But, runs quite slowly



## Required Software

# Downloads



Version: 16.2  
[Release notes](#)

[Compare editions](#)  
[How to install offline](#)

## Visual Studio 2019

Full-featured integrated development environment (IDE) for Android, iOS, Windows, web, and cloud

### Community

Powerful IDE, free for students, open-source contributors, and individuals

Free download ↓

[Download Preview >](#)

### Professional

Professional IDE best suited to small teams

Free trial ↓

[Download Preview >](#)

### Enterprise

Scalable, end-to-end solution for teams of any size

Free trial ↓

[Download Preview >](#)





- Any version of Visual Studio (2019, 2022)
- Visual Studio for Mac will only work for the first half of the course

# Visual Studio 2019 Installation




Modifying — Visual Studio Community 2019 — 16.2.4

**Workloads** Individual components Language packs Installation locations

Web & Cloud (4)

 <b>ASP.NET and web development</b> Build web applications using ASP.NET, ASP.NET Core, HTML/JavaScript, and Containers including Docker support. <input checked="" type="checkbox"/>	 <b>Azure development</b> Azure SDKs, tools, and projects for developing cloud apps, creating resources, and building Containers including... <input type="checkbox"/>
 <b>Python development</b> Editing, debugging, interactive development and source control for Python. <input type="checkbox"/>	 <b>Node.js development</b> Build scalable network applications using Node.js, an asynchronous event-driven JavaScript runtime. <input type="checkbox"/>

Windows (3)

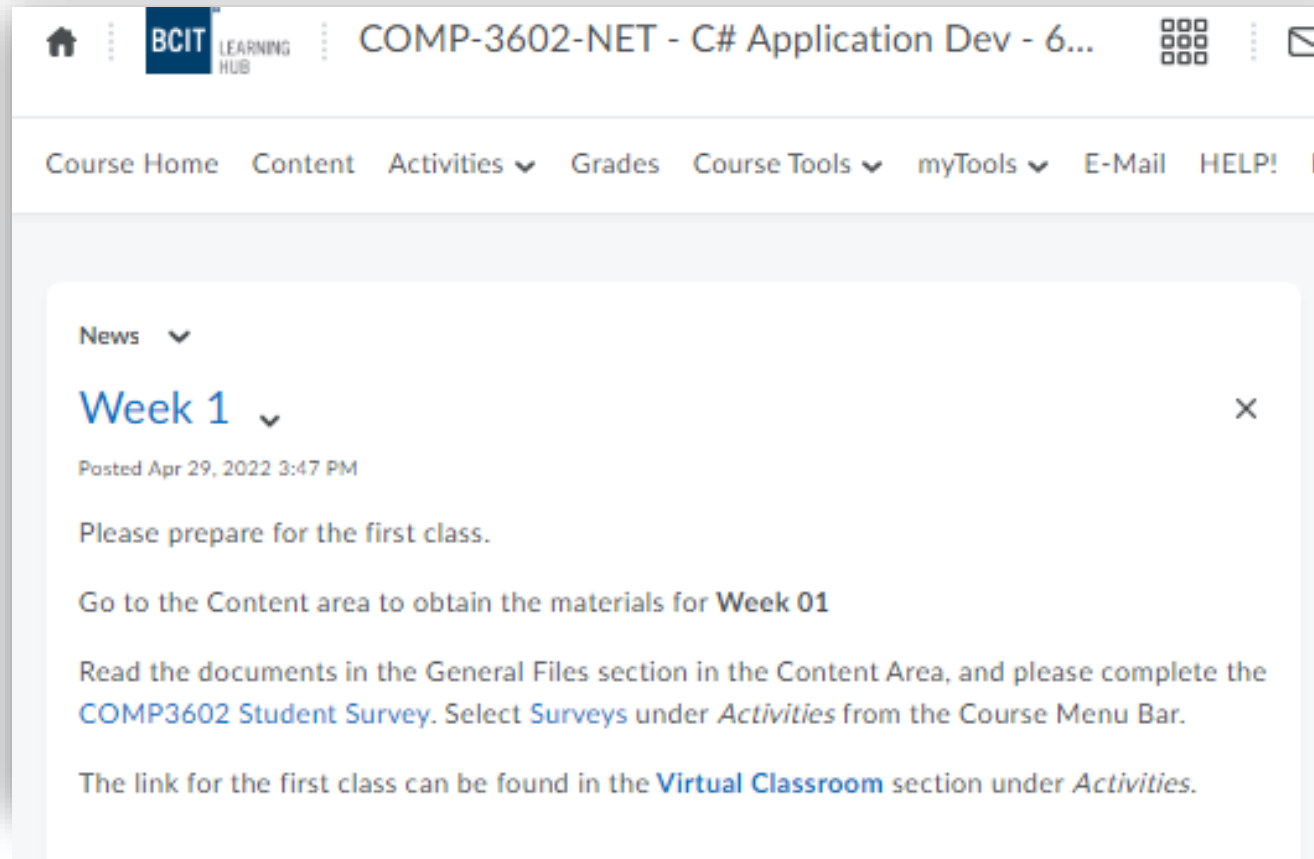
 <b>.NET desktop development</b> Build WPF, Windows Forms, and console applications using C#, Visual Basic, and F#. <input checked="" type="checkbox"/>	 <b>Desktop development with C++</b> Build Windows desktop applications using the Microsoft C++ toolset, ATL, or MFC. <input checked="" type="checkbox"/>
 <b>Universal Windows Platform development</b> Create applications for the Universal Windows Platform with C#, VB, or optionally C++. <input type="checkbox"/>	

Location  
C:\Program Files (x86)\Microsoft Visual Studio\2019\Community

By continuing, you agree to the [license](#) for the Visual Studio edition you selected. We also offer the ability to download other software with Visual Studio. This software is licensed separately, as set out in the [3rd Party Notices](#) or in its accompanying license. By continuing, you also agree to those licenses.

- .NET desktop development is the only Workload required

# Learning Hub Course Portal



<https://learn.bcit.ca>

- 1) **Content** – access to all course materials
- 2) **Activities** – access to Quizzes, Discussion Forums and Assignment submissions
- 3) **News** – check here often for updates
- 4) **Contact** – preferred email (do not use BCIT email)
- 5) **User Links** – links to course resources
- 6) **Calendar** – shows upcoming virtual classes, assignment due dates/times

# Submitting Assignments to the Learning Hub

## Zip File Only

### Submit Assignment

Files to submit \*

(0) file(s) to submit

After uploading, you must c

Add a File

Comments

Paragraph

**B**

*I*

Submit

Cancel

Add a File - COMP-3602-NET - C# Application Dev - 89505 - Internet -x  
British Columbia Institute of Technology

Drop file here, or click below!

Upload

Add

Cancel

- 1) Select Assignments from the Activities Menu
- 2) Select Assignment folder
- 3) Click Add a File
- 4) Upload ZIP file  
ZIP only please  
No RAR  
No TAR  
No JAR  
No ZIPX
- 5) Add comments (optional)
- 6) Click Submit