

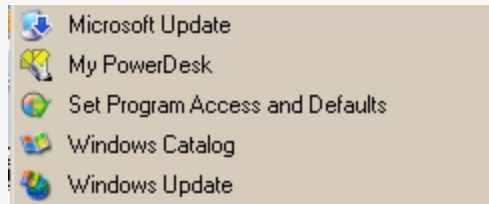
CS 1044 IDE

The only supported compiler/IDE (Intergrated Development Environment) for this course is Microsoft Visual Studio 2008 Express C++. A student may choose to use another existing ANSI standard C++ compiler/IDE if they wish. However, it is the student's responsibility to ensure that their programs compile and run under the Microsoft Visual Studio 2008 Express C++ environment. TAs will only be supporting the Microsoft Visual Studio 2008 Express C++ IDE. This means that students who choose to use other compilers cannot expect the TAs to help them with specific compiler problems, (e.g., interface questions, compiler messages, warnings or errors). Instructors and TAs will be prepared to help students that use the required compiler. Students that use another compiler do so at their own risk.

The following discussion is based on an actual install session for the Microsoft Visual Studio 2008 Express C++. The menu selections and options illustrated here do not conform to earlier versions of Visual C++. Please note the disclaimer above regarding compiler selection.



Run Windows Update or Microsoft Update and bring your installation of Windows up to date. Go to Start/All Programs:



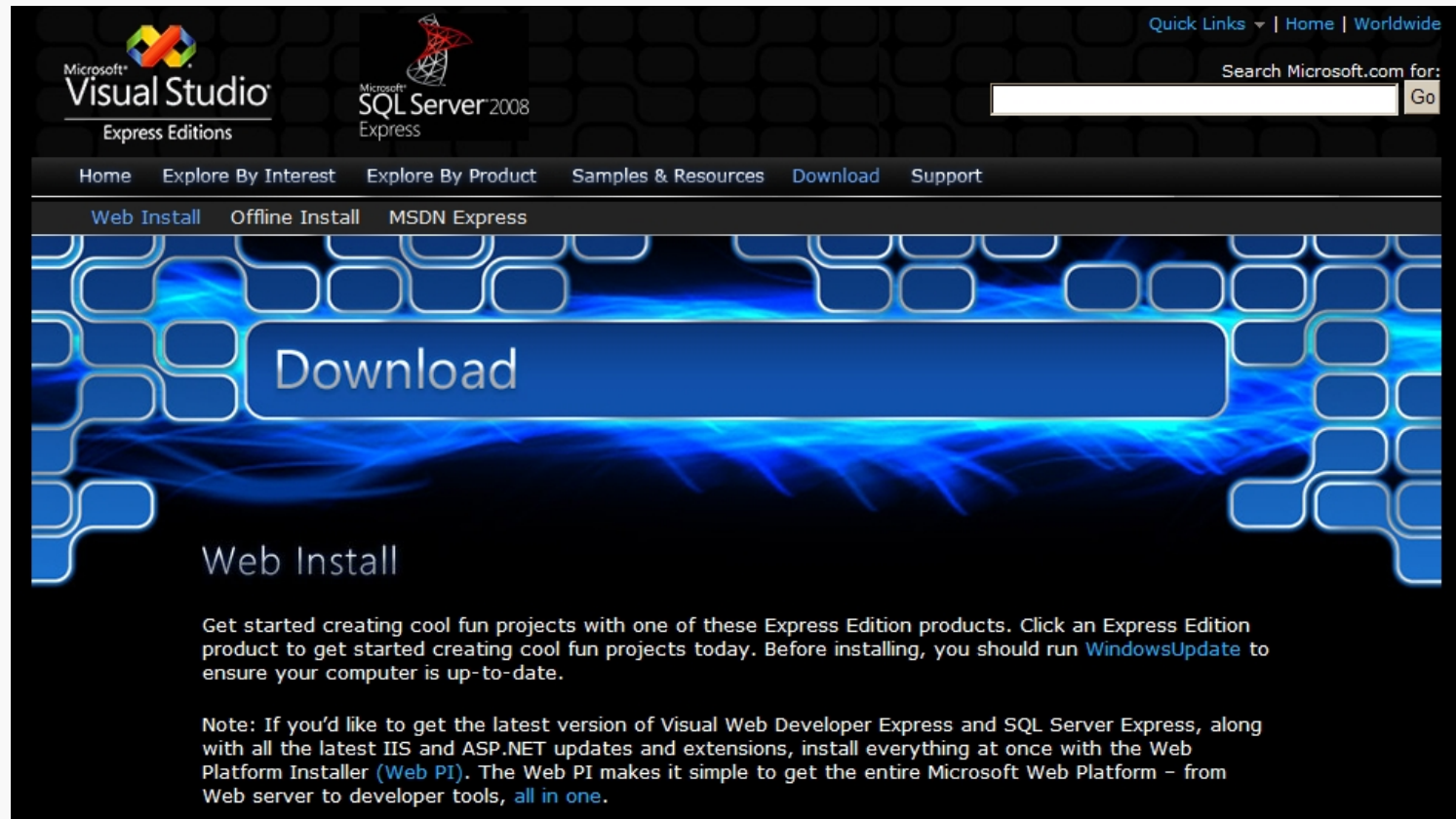
As a general rule, you should install all the critical updates that are reported.

You will probably have to restart your computer after the updates have been installed.

It's also a good idea to update your anti-virus software and run a scan for malware.

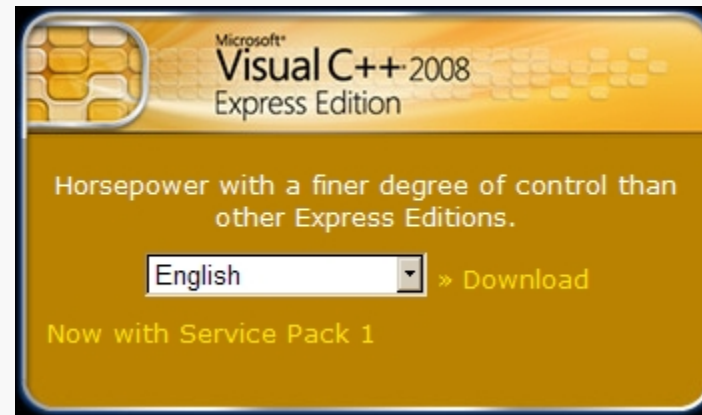
Web surf to the [MS Visual Studio Express web site](http://www.microsoft.com/express/download/default.aspx):

`http://www.microsoft.com/express/download/default.aspx`



Your first option is to do a web-based install; do not choose this option unless you have a stable, high-speed internet connection.

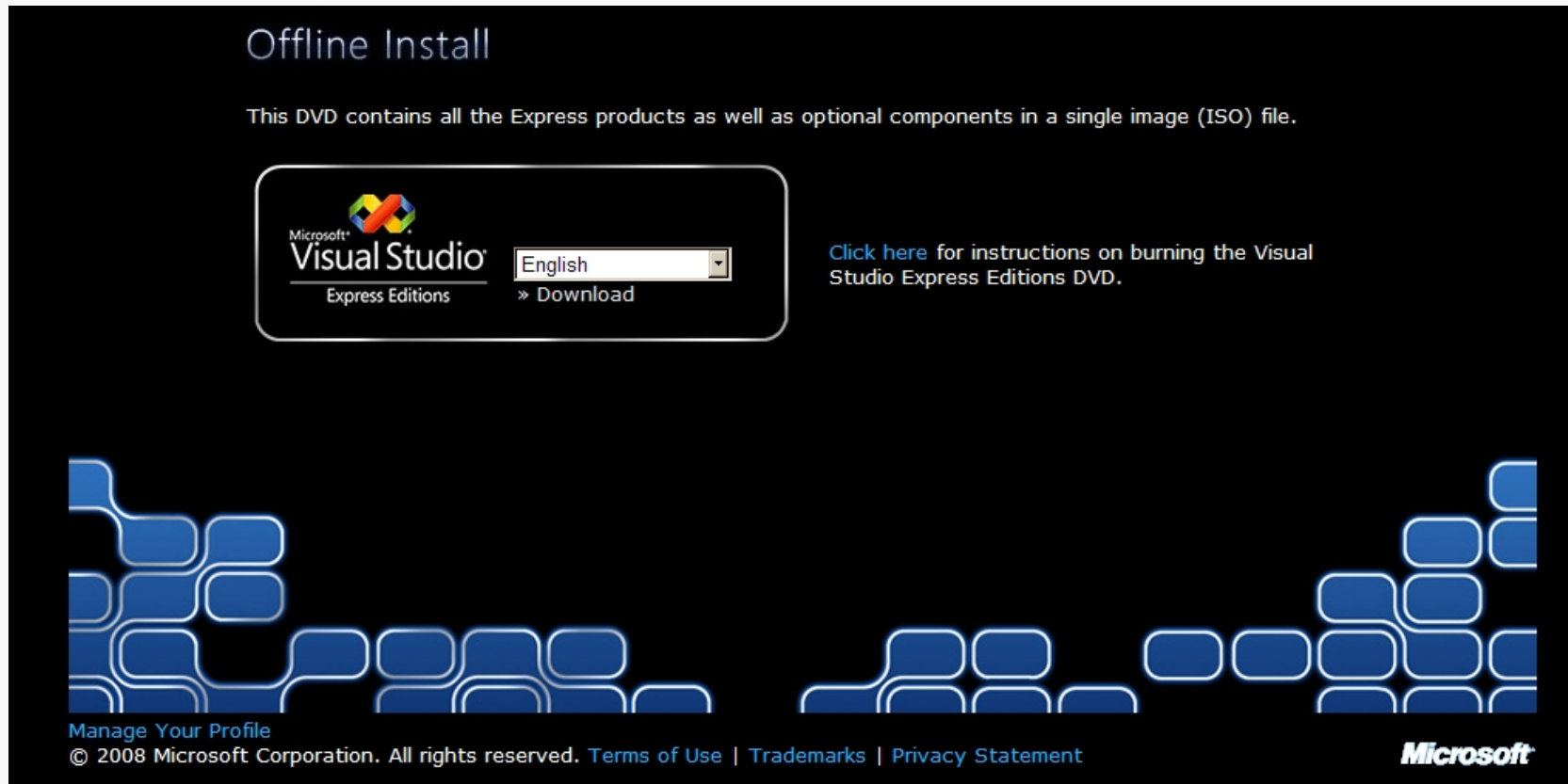
Scroll down and click Download in the appropriate box:



You should see a dialog box asking what to do with the file; choose Run.

The remainder of the process should be very similar to what is shown beginning on slide 10.

Scroll down and select the Offline Install download link:



This will download an ISO file to your computer, named something like:

`VS2008ExpressWithSP1ENUX1504728.iso`

Be sure you notice where the file is saved!

Once the ISO file has been downloaded you have two options:

1. Use an image mounting tool to make the ISO file appear to be a hard drive to the operating system.

Download Slysoft Virtual CloneDrive from:

<http://www.slysoft.com/en/virtual-clonedrive.html>



The image shows a screenshot of a web page for Virtual CloneDrive. On the left, there is a section titled "VIRTUAL CLONEDRIVE" with a logo of a smiling sheep. Below the logo is a "DOWNLOAD" button. To the right of the logo is a paragraph of text: "Virtual CloneDrive works and behaves just like a physical CD/DVD drive, however it exists only virtually. Image files generated w CloneDVD or CloneCD can be mounted onto a virtual drive fro your hard-disk or from a network drive and used in the same manner as inserting them into a normal CD/DVD drive." Below this text is another paragraph: "Probably the best virtual drive software, Virtual CloneDrive alli you to enjoy the freedom of a virtual drive and is completely f". To the right of the text is an icon of a computer monitor and a CD/DVD drive. Further right is a Windows Explorer window showing a file named "VS2008ExpressENUX1397868... Virtual CloneDrive" with a size of "916,122 KB". A context menu is open over the file, with "Mount Files with Virtual CloneDrive" selected. Other options in the menu include "Mediahub", "Choose Program...", "Open", "Scan for Viruses...", "Open With", "E-mail with Yahoo!", "Send To", "Cut", "Copy", "Create Shortcut", "Delete", "Rename", and "Properties".

Once Virtual Clone Drive is installed, right-click on the ISO file and select "Open With > Mount Files with Virtual CloneDrive"

- 2 Use DVD burning software to create a DVD from the ISO file.

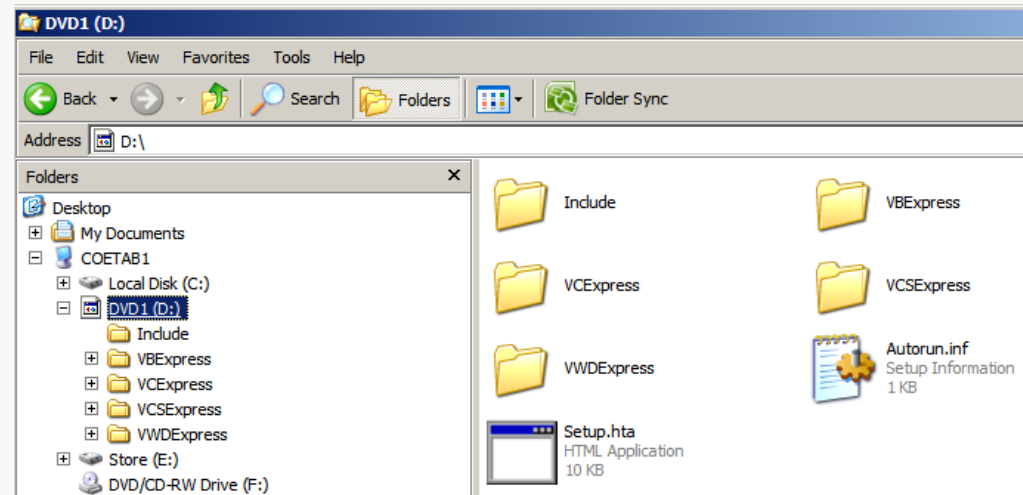
To do this, you need to use DVD-burning software to create a physical DVD; the exact procedure depends on the specific software you have...

Once you've created the DVD, load it in your DVD drive and the installation should start automatically; if not, double-click on autorun.exe in the DVD's root directory.

Execute the VS Express C++ installer

The VS Express installer should run automatically after mounting is complete.

If it does not, open the mounted drive in Windows and double click on the Auto.inf/Setup.hta file as shown below:



Install only C++

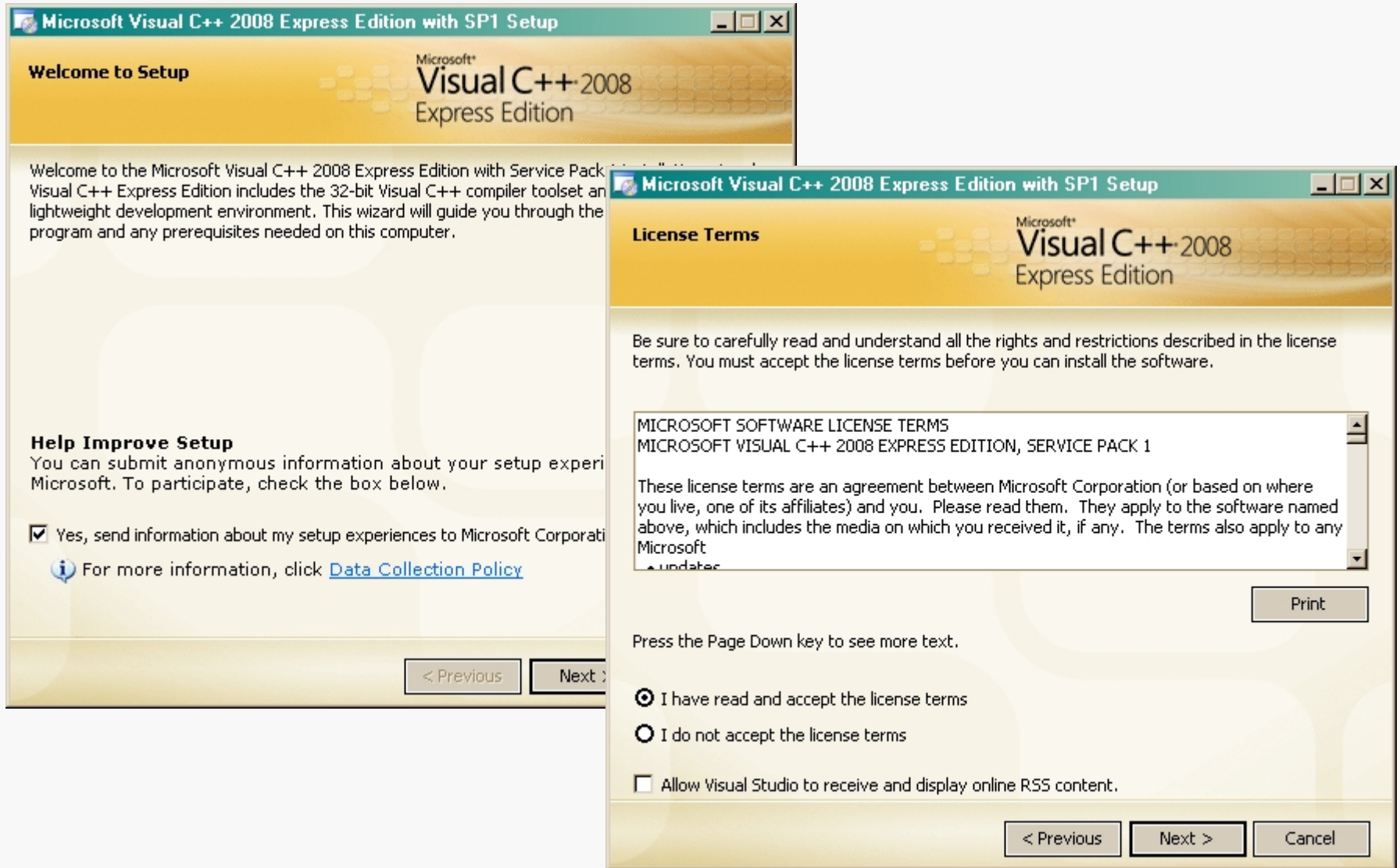
The VS Express installer contains several programming language packages. You need only install the C++ compiler for your work in CS 1044. Installing the other Visual Studio tools will consume large amounts of drive space. The C++ only install requires approximately 1 GB of free disk space.



Installation Setup

Visual Studio Express 2008 Install 10

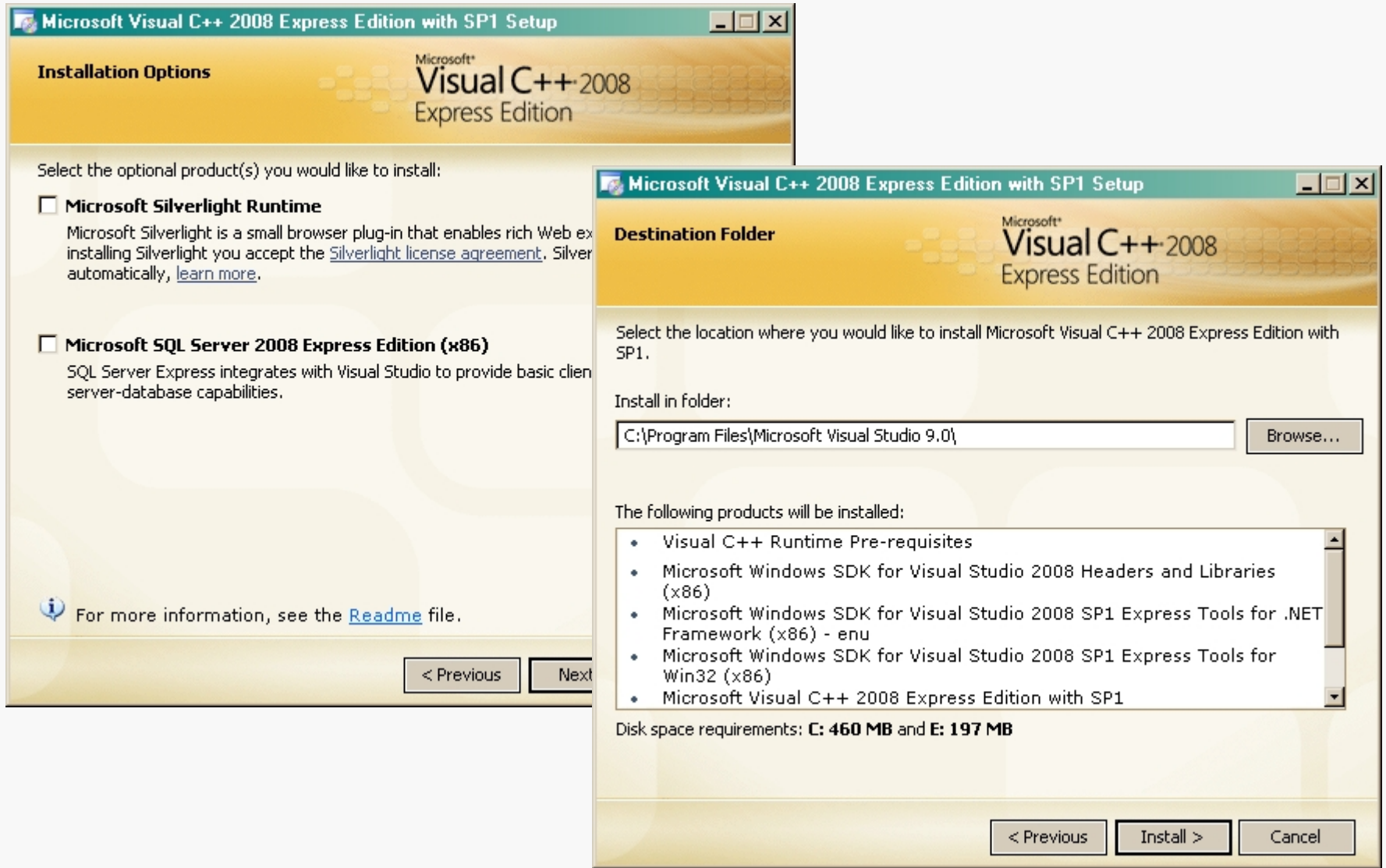
The first two screens are simply help and license information.



Install Options, Location

Visual Studio Express 2008 Install 11

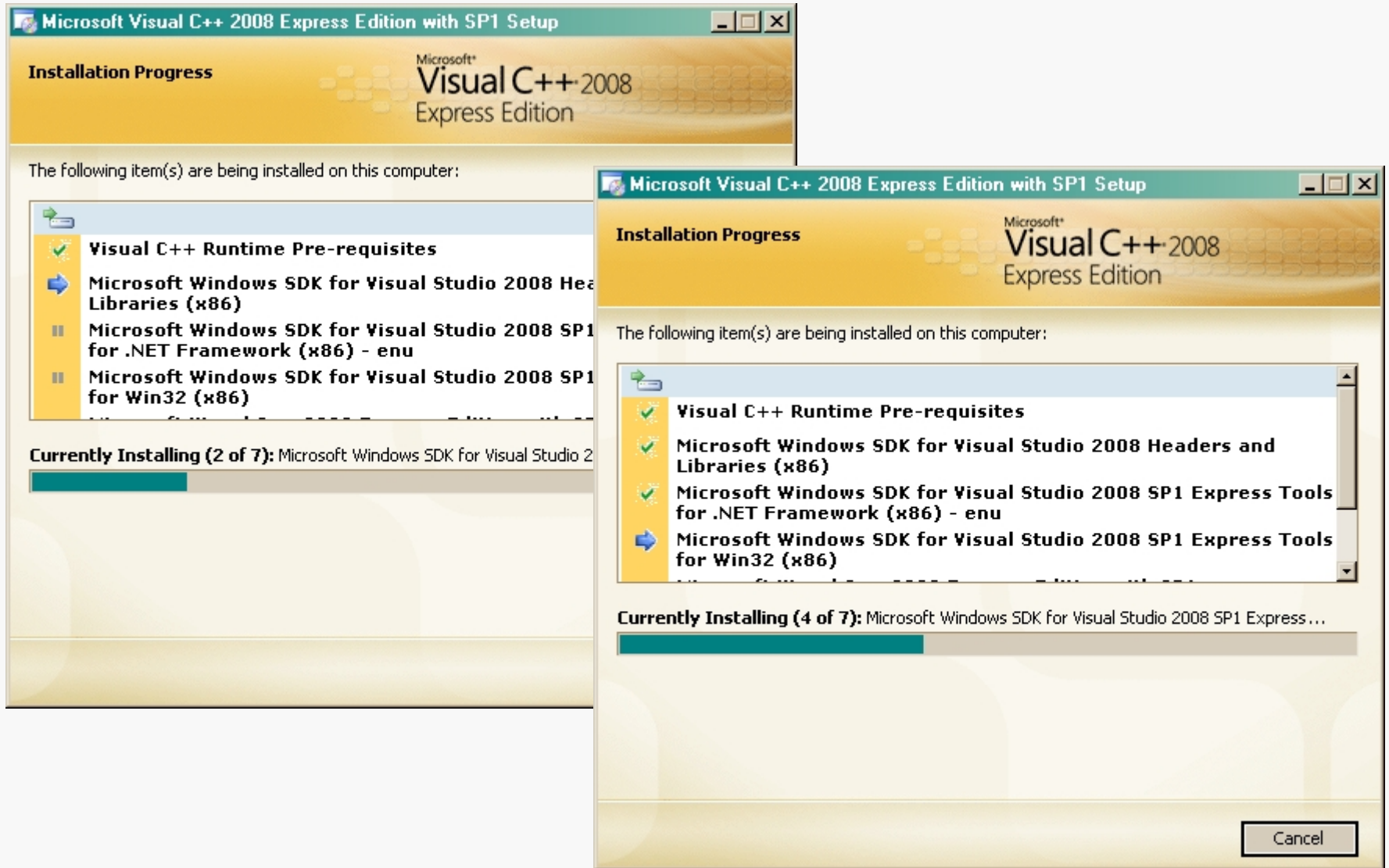
Deselect all of the installation options. Accept the default folder location for compiler.



Install Progress

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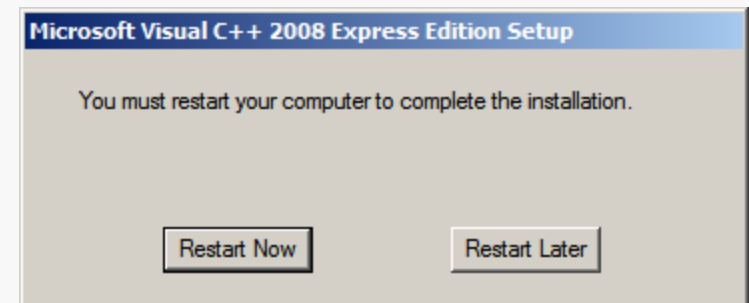
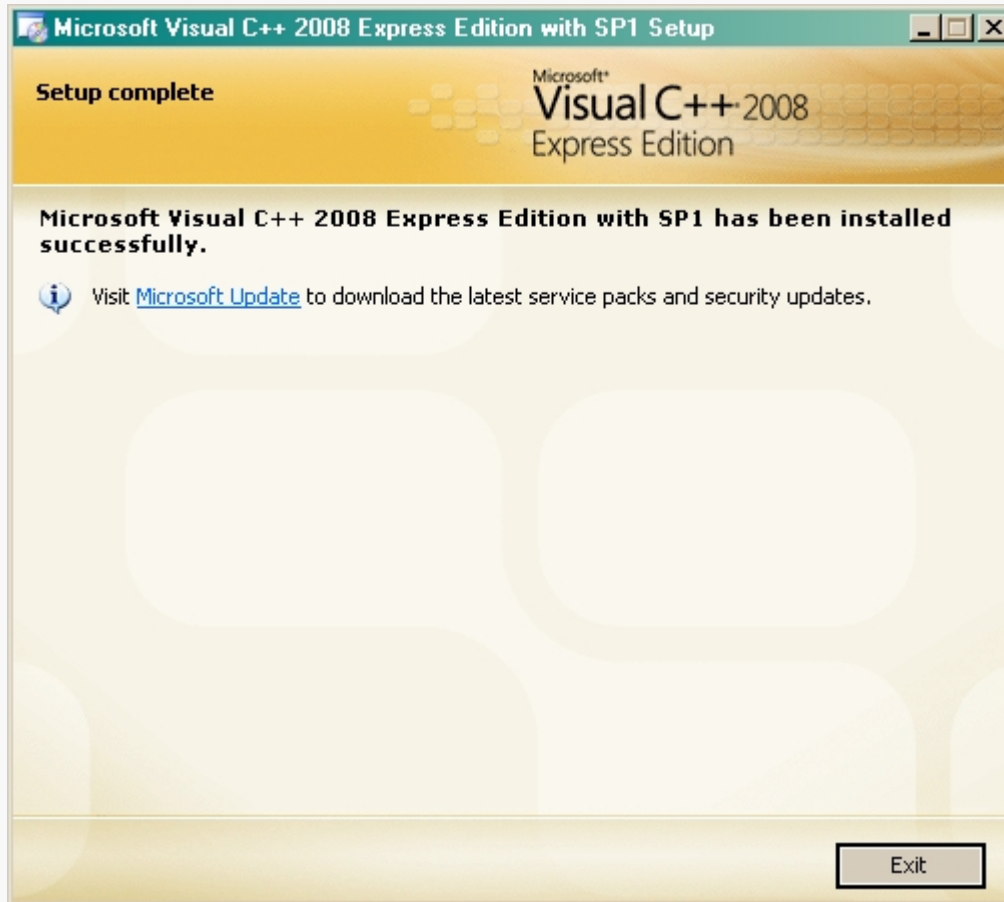
Wait for the installation to complete



Installation Completion

Visual Studio Express 2008 Install 13

Exit the completed installer and restart your machine when prompted.



Problems Installing or Executing MS Visual Studio Express

If your installation of MS Visual Studio Express was not successful then you will need to uninstall it & re-install it. Unfortunately in most cases that will result in an identical corrupted installation. (Corrupted installs of MS VS Express don't happen that often - MS VS Express is widely used around the world.)

The problem is usually a result of a corrupted MS Windows registry, (in short the registry is a database in Windows keeping track of a lot of system information). There are a couple of possible solutions:

Use registry cleaner software to attempt to 'fix' the registry. (You would do this before reinstalling MS VS.NET.) There are a lot of registry cleaner programs available - some are definitely better than others. This approach is not without risk. A poor registry cleaner program might just make things worse. Here are some registry cleaners. (I don't recommend them. I just list them here for your possible use. They seem to get the better ratings of registry cleaner software.)

[Registry Repair \(free\)](#)

[Tweak Now \(free\)](#)

[CCleaner \(free\)](#)

[Registry Mechanic \(\\$30\)](#)

[Advanced System Optimizer \(\\$30\)](#)

Errors Installing or Executing MS Visual Studio Express

Re-install MS Windows. Sometimes the only real way to fix a registry is to reinstall the Operating System (OS). This is not a simple process. Seek help if you have never done it before. It involves first backing up all of your data and also re-installing all of your software after the OS has been re-installed.

Unfortunately correcting registry problems is difficult and time-consuming. It is not part of this course and thus the CS 1044 TAs & instructor(s) do **NOT** offer registry support.