System Requirements
Online courses will require a computer and an internet connection. Below is a list of recommended hardware that may be necessary.

Hardware Resources

PC
- Windows XP, Windows Vista, Windows 7 or Windows 8

Macintosh
- MacOS X 10.6 - 10.8

RAM
- 2 GB
  - Intel Core™ Duo 1.83GHz or faster processor

Processor
- Windows - Intel® Pentium® IV 1.4GHz or faster processor (or equivalent)
  - MacOS X - Intel® Core™ 2 Duo 2.16GHz or faster processor (or equivalent)

Hard Drive
- a minimum of 5 GB of free space

Modem
- Cable modem or DSL is highly recommended

Optical Drive
- CD-RW/DVD or DVD-RW

Video and Sound Card

Speakers or headphones

Printer

Headset Microphone (this will reduce feedback)

Web Camera

Internet Browser

Supported Browser Information for Blackboard

- Windows Operating System and Browser
  - Windows 8 (32, 64 bit): Internet Explorer 10, Firefox (ESR and Final Release Channel), or Google Chrome 20+ (Stable Channel)
  - Windows 7 (32, 64 bit): Internet Explorer 8 - 10, Firefox (ESR and Final Release Channel), or Google Chrome 20+ (Stable Channel)
  - Windows Vista (32, 64 bit): Internet Explorer 8 & 9, Firefox (ESR and Final Release Channel), or Google Chrome 20+ (Stable Channel)
  - Windows XP: Internet Explorer 8, Firefox (ESR and Final Release Channel), or Google Chrome 20+ (Stable Channel)

- Macintosh Operating System and Browsers
  - Mac OSX 10.8 Mountain Lion: Safari 6.0, Safari 5.1, Firefox (ESR and Final Release Channel), or Google Chrome 20+ (Stable Channel)
  - Mac OSX 10.7 Lion: Safari 6.0, Safari 5.1, Firefox (ESR and Final Release Channel), or Google Chrome 20+ (Stable Channel)
Mac OSX 10.6 Snow Leopard: Safari 5.1, Safari 5.0, Safari 4.0, Firefox (ESR and Final Release Channel), or Google Chrome 20+ (Stable Channel)

Mac OSX 10.5 is not supported in SP11

**Browser Plugins**
- Blackboard Learn requires the latest version of Sun JRE 7. JRE 6 may work, but could result in unexpected behavior. The JRE can be downloaded from [http://www.oracle.com/technetwork/java/javase/downloads/index.html](http://www.oracle.com/technetwork/java/javase/downloads/index.html)
- JRE (Java Runtime Environment) is not required for users to access and interact with the Learn platform with the exception of the following features and tools:
  - Learn collaboration tools virtual classroom and chat
  - Multiple-file uploads
  - Math equation editor
  - Default text editor shipped with Learn 9.1 SP9 and earlier

**Browser Check**
- It is highly recommended that you perform a browser before you login in to check and see if your computer is properly configured to use the Blackboard Learning System. Click here to perform a browser check.

**Supported Browsers for Adobe Connect**

- Windows XP Home or Professional with Service Pack 2; Windows Vista Home Premium, Business, Ultimate, or Enterprise; or Windows 7 Home Premium, Professional, or Ultimate (32-bit edition, or 64-bit edition with 32-bit browser)
  - Microsoft Internet Explorer 6, 7, 8, 9
  - Mozilla Firefox 3.x or later
  - Google Chrome
  - Adobe Flash® Player 10.1 or later
- Mac OS X v10.5–10.7.2 (Intel)
  - Safari 4, 5
  - Mozilla Firefox 3.x or later
  - Google Chrome
  - Adobe Flash Player 10.1 or later

**Browser Check**
- It is highly recommended that you perform a browser before you login in to check and see if your computer is properly configured to use the Adobe Connect System. Click here to perform a browser check.

**Supported Browsers for Echo 360**

- Windows Vista; or Windows 7(32-bit edition, or 64-bit edition with 32-bit browser)
  - Microsoft Internet Explorer 9 and 10
  - Chrome 21 and 22
- Mac OS X v10.6 and above (Intel)
  - Chrome 21 and 22
  - Safari 5.1 and 6.0