Your 2012 UCSD Summer Information

Internet Connections for UCSD Summer Research Program Students and non-UCSD Students

Wired high-speed Internet connections are available in every bedroom. You must register your connection first, by going to http://resnet.ucsd.edu. Wireless is also available in many areas around the campus.

Non-UCSD students – once you are enrolled, you should receive a PID which will allow you to create a network account by going here: http://sdacs.ucsd.edu/~icc/acsreg.php Please come to our Help Desk if you run into any problems.

Minimum Macintosh Requirements 2011-2012

Below are the minimum required specifications for any Macintosh computer to be used on the network. It is not recommended to use a computer on campus under these specifications.

NOTE: Computers that do not meet the minimum requirements will receive limited support.

- PowerPC Processor
- 512 MB RAM (1 GB Recommended)
- 40 GB hard drive with at least 15% free space
- 17” monitor for desktop computers
- OS 10.5 or higher with the latest software updates
- Ethernet adapter
- Current firewall program
- Current anti-virus software package
- Current Internet Web browser
- Devices using wireless standard 802.11b are incompatible with the wireless network.

Recommended Macintosh Computers 2011-2012

For students who intend to keep a computer for four years without a major upgrade:

<table>
<thead>
<tr>
<th>Computer</th>
<th>Desktop Computer</th>
<th>Laptop Computer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating System</td>
<td>OS X Lion (10.7), fully updated with firewall enabled</td>
<td>OS X Lion (10.7), fully updated with firewall enabled</td>
</tr>
<tr>
<td>RAM</td>
<td>4 GB RAM</td>
<td>4 GB RAM</td>
</tr>
<tr>
<td>Hard Drive</td>
<td>500 GB</td>
<td>500 GB</td>
</tr>
<tr>
<td>Networking Hardware</td>
<td>10/100/1000 Ethernet adapter</td>
<td>10/100/1000, 802.11 G/N</td>
</tr>
<tr>
<td>Software</td>
<td>Current Microsoft Office Suite and anti-virus software package</td>
<td>Current Microsoft Office Suite and anti-virus software package</td>
</tr>
</tbody>
</table>
Minimum Windows Computer Requirements 2011-2012

Below are the minimum required specifications for any Windows computer to be used on the network. It is not recommended to use a computer on campus under these specifications.

NOTE: Computers that do not meet the minimum requirements will receive limited support.

- Pentium 4 or comparable processor
- 1 GB RAM (2 GB recommended)
- Windows XP with Service Pack 3 or newer, fully updated
- 10/100 Ethernet adapter
- 40 GB hard drive with at least 15% free space
- Current firewall program
- Current anti-virus software package
- Current Internet web browser
  * Devices using wireless standard 802.11b are incompatible with the wireless network.

Recommended Computer Specifications 2011-2012

Recommendations for students who intend to keep a computer for four years without a major upgrade:

<table>
<thead>
<tr>
<th></th>
<th>Desktop Computer</th>
<th>Laptop Computer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Monitor</td>
<td>22 inch LCD</td>
<td>Personal Preference</td>
</tr>
<tr>
<td>Operating System</td>
<td>Windows 7, 64-bit, Home Premium or higher, fully updated with firewall enabled</td>
<td>Windows 7, 64-bit, Home Premium or higher, fully updated with firewall enabled</td>
</tr>
<tr>
<td>Processor/CPU</td>
<td>Intel Core i5 (2.66 Ghz, Quad Core) or comparable</td>
<td>Intel Core i3 (2.13 Ghz, Dual Core) or comparable</td>
</tr>
<tr>
<td>RAM</td>
<td>8 GB DDR3 RAM</td>
<td>6 GB RAM</td>
</tr>
<tr>
<td>Hard Drive</td>
<td>1 TB</td>
<td>500 GB</td>
</tr>
<tr>
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Netbooks

A netbook is a small portable laptop computer (10 inch screen or smaller) designed for portability, wireless communication and access to the Internet. Please keep in mind that netbooks may have trouble with streaming videos, high-definition videos, and any process that requires a high amount of processing power. Because of these hardware limitations, netbooks are not recommended as primary use computers.
If you choose to install a Linux/Unix based operating systems, you should be aware of the risks and benefits.

**Important Considerations**
- Beyond the information on this page, ResNet only offers limited support for these systems.
- Hacking into multi-user operating systems is common and may result in your computer violating our [Acceptable Use Policy](#). You will be held responsible if this occurs, even if you had no knowledge of the hack.
- Because it will not be accessible from off-campus locations, hosting a web page or other service on your computer will not be possible.
- You are responsible for not violating the [Acceptable Use Policy](#) if you provide services on your computer.

**Minimum Hardware Requirements**
There are no minimum hardware requirements for running Linux / Unix. If you can get it to run, congratulations!

**Minimum Software Requirements**
You must ensure that the operating system and all software is kept up to date. Security updates come out for most Linux distributions daily. It is your responsibility to stay on top of these updates to ensure conformance with the [Acceptable Use Policy](#) and, more importantly, to keep your machine from getting broken into.

Some of the most common pitfalls of Linux machines are configurations that have been overlooked. A few things to watch out for are:
- SMTP server running on port 25 (ex. Postfix, Exim, Sendmail)
- SSH allowing version 1 connections (only version 2 should be allowed)
- FTP (port 21) or Telnet (port 23) services running

Additionally, you must run a firewall (such as iptables) to prevent unwanted connections.

**Linux Recommendations**
Linux is available in many different "flavors" known as "distributions". A few of the most popular ones are:

- **Ubuntu Linux**
  Ubuntu has been hailed by [Desktop Linux](#) and [eWeek](#) as the most popular Linux distribution today. It is the easiest to install and use for first-time Linux users, but versatile enough for pro-users as well. Recommended for beginner to advanced Linux users.

- **Gentoo Linux**
  The most hardcore Linux distribution around. Gentoo throws you head first into Linux knowledge by having you build your system from the ground up. Recommended for intermediate to advanced Linux users that want to learn a lot and run a very customized operating system.

- **Debian Linux**
  One of the longest running distributions. Debian is still under active development, but the install process remains difficult. It tends to be used for servers, rather than desktops.

- **SUSE Enterprise Linux**
  The commercial version of Linux from [Novell](#). You have to pay for it, but unlike many others it comes with support.

- **openSUSE**
  The open source (and free) version of SUSE from Novell.

- **Mandriva Linux**
  Another commercial Linux distribution that comes with support. Recommended for Linux beginners.

- **Red Hat Enterprise Linux**
  The commercial version of Linux from [Red Hat](#). You have to pay for it, but it comes with support.

- **Fedora Project**
  A Red Hat-Sponsored Community Project.

**Unix Recommendations**
The most common Unix variant (aside from Linux) is BSD, developed at UC Berkeley. The most popular open source distributions of BSD are:

- **FreeBSD**
- **OpenBSD**
ResNet users are required to abide by the Resnet Acceptable Use Policy (AUP):

http://resnet.ucsd.edu/policies.shtml

In keeping with the AUP, the following security steps must be taken BEFORE connecting your computer to ResNet:

1. Update your computers operating system and software (including anti-virus software). Windows users need to get all of the critical updates from the Windows Update website: http://windowsupdate.microsoft.com

An update CD is available at the Help Desk.


Assistance is available!
Walk Up Support/Help Desk Hours at AP&M 1313: 11am to 4:30pm M-F
Phone Support Hours: 11am to 7pm M-F, 4pm to 7pm Sat-Sun
(Any changes to hours will be listed on our website)

resnet@ucsd.edu http://resnet.ucsd.edu/ 858.822.2800

We hope you enjoy your stay with us!