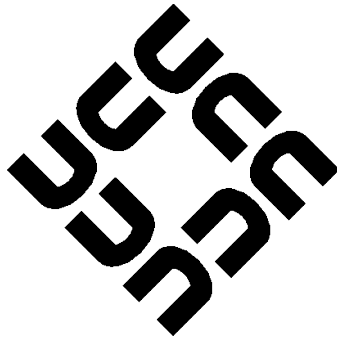


# UCC::FresherGuide

The University Computer Club Inc.



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# 0. Introduction

## 0.0 President's Welcome

**Incoming message from Samuel Shenton <samuel@ucc.asn.au>:**

Welcome to the UCC and our 40th Anniversary Fresher Guide!

UCC has always been a social club for students interested in computers who want to meet new friends, work on projects or play games during breaks. No technical experience is necessary to join up but if you do want to learn more and get involved with computers be sure to attend our many Tech Talks and Hacking Nights announced on our primary mailing list ucc@. We also host a bunch of social events throughout the year such as LANs, the Quiz Night, our Annual Camp in July and Charity Vigil. Be sure to attend the Fresher's Welcome and Annual General Meeting to get the best introduction to the club and run for Fresher Rep, a great first step to becoming involved in the UCC Committee.

The UCC Clubroom has been the focal centre of the club for years. With numerous clubroom desktops, machine room and our famous Coke and Snack Machines it provides everything you could want on a typical university day. Recently, some new chairs, keyboards and mice have been purchased to improve equipment and an Oculus Rift bought for all members to try out, just ask a door member.

Founded in 1974, the UCC is one of the oldest student run computer clubs in the world, even older than the Computer Science Department here at UWA. To celebrate, we are hosting a 40th Anniversary Dinner in September where members old and new will gather to learn and reminisce over our rich history. History which no doubt will be dug up again throughout the year.

So make sure you come to the clubroom, set up your account and enhance your university experience at UCC.

Samuel Shenton [SAS] UCC President 2013

# 1. Finding the Clubroom

## 1.0 Maps

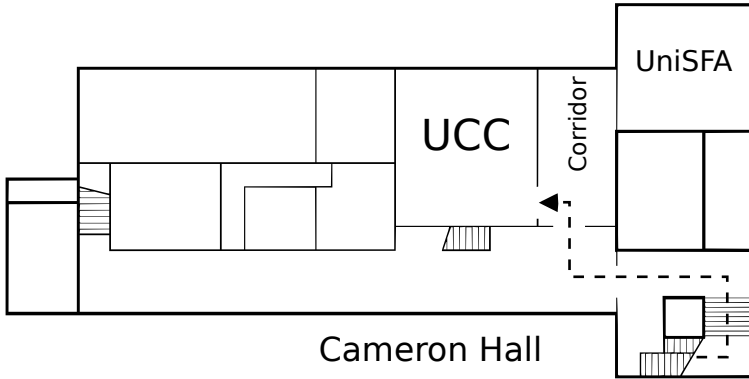


Figure 1.1: Second Floor of Cameron Hall

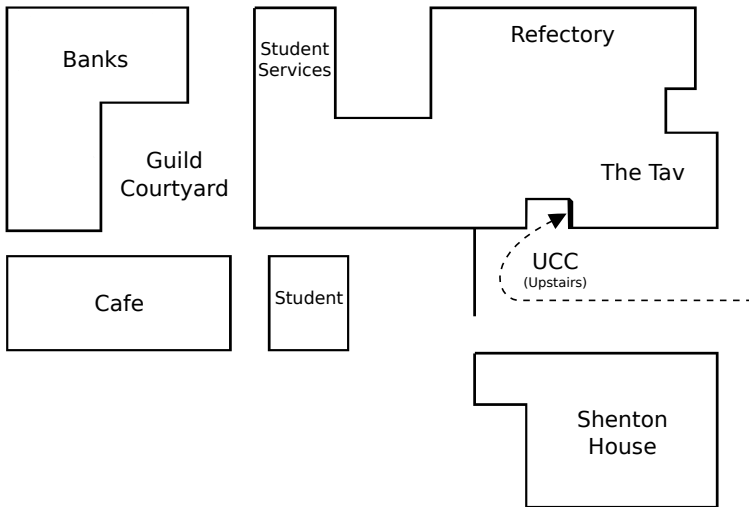


Figure 1.2: The Guild Village. Cameron Hall = The Tav

## 2. Your Account

### 2.0 Getting it

SIGNING UP AT THE O'DAY STALL DOES NOT GIVE YOU ACCESS TO ALL OF UCC'S SERVICES. YOU NEED TO CREATE AN ACCOUNT AT THE UCC CLUBROOM.

Your UCC account is *the* most important thing you can have as a member. In addition to providing a way for us to communicate with you, the account lets you log into any of our clubroom machines, as well as granting you access to our user servers, wireless network, online drink and snack machines, and more.

Once you're at the clubroom and ready to create an account, ask around for a Wheel or Committee member and have your membership sticker (we normally put it on your student card on O-Day) to set up your account. You'll need a user name and a password to memorise, but it's a pretty simple procedure once you've found the right person!

Now that you have an account, you can use it to log into any of our clubroom machines. If you want to log onto one of our servers, you'll need to use the SSH program. If you're having trouble, just ask someone in the clubroom — we don't bite!

Changing your UCC password can either be done by Ctrl-Alt-Del on a windows machine or using the command `passwd` on a Linux/Unix machine. Accessing the UCC WiFi network can be a bit tricky (particularly on Windows machines). Ask someone if you need help, or refer to <<http://wiki.ucc.asn.au/Wifi>>

### 2.1 SSH for Great Good

SSH is a program that lets you remotely access UCC's servers. These can be used for almost anything (legal) you can imagine; programming, website hosting, file storage, IRC chatting, dispensing drinks, and many more things.

From a windows computer, open a program called "PuTTY" (or "KiTTY"). Enter the address `username@ssh.ucc.asn.au` and click "Open". You can SSH from home using the same address.

### 3. Dispense 101

At the same time as you set up your account, you will also have your dispense account set up. Dispense is the program that allows users to store credit and purchase items from the coke/snack machines. Coke members can help you add credit to your dispense account. Call out for one in the clubroom if need be, there's always one around.

The easiest way to dispense a drink is probably the web interface at <https://secure.ucc.asn.au/dispense>. Simply enter your username and password and then select a drink.

Due to technical reasons, snacks cannot be dispensed using this interface. Getting a snack will involve typing a 5 digit User ID and a 4 digit PIN into the keypad. This allows you to dispense both drinks and snacks.

You can also use your Student Card or SmartRider as a log in device on the snack machine. To do so, log in to the Snack Machine and hold whichever card you want to use up to the card scanner (it's the thing with the blinking green light) and the card should auto-enroll. To log in using the card, simply hold the enrolled card up to the card scanner.

You can also access Dispense using the `dispense` command. Dispense isn't installed on clubroom machines so you will have to use SSH to access one of UCC's servers.



Figure 3.1: <<https://secure.ucc.asn.au/dispense>>



Figure 3.2: Coke Machine



## 4. UCC::Events

UCC runs a lot of events. You should go to them! Dates and times may change.

### 4.0 Fresher Welcome

**When:** Friday, February 28th, 5:00PM

**Where:** Cameron Hall Loft (above the UCC clubroom)

The Fresher welcome exists to welcome you, a new UCC member, to the club. There will be a number of current members there to talk with and get to know, and all of your questions about the club and how to use it will be answered. As a bonus, all first time members get **FREE pizza**.

### 4.1 Annual General Meeting

**When:** Tuesday, March 11th, 1:00PM

**Where:** Guild Council Meeting Room

The AGM is the meeting at which the new UCC committee is elected for 2014. The only way to be represented is to attend on the day. As a Fresher, you should attend to either run for or vote for the position of the Fresher Representative, who will be your liaison for the committee. If you don't know where the Guild Council Meeting Room is, arrive at the UCC clubroom a little early to join the mass exodus.

### 4.2 Easter LAN

**When:** Easter Weekend, 3:00PM until the morning after

**Where:** The Loft (above UCC Clubroom)

UCC runs a number of LANs throughout the year, some with proper organisation, some without. The Easter LAN is the first big LAN of the academic year, taking place over the Easter weekend, the first weekend of mid-Semester one study break. We play a number of different games, and of course you can organise your own. LANs are free for all UCC members, but you can bring a friend for around \$5 (though of course you should encourage them to join). Bring your own PCs, or use one of the limited stock in the clubroom.

## 4.3 LANs

**When:** Throughout the Year, From Dusk til Dawn

**Where:** The Loft (above UCC Clubroom)

The UCC hosts a number of more LANs throughout the year. As above, the Easter LAN is the first big one. Expect other LANs during the semester and breaks.

## 4.4 Cameron Hall Quiz Night

**When:** First Semester, probably in May, Evening

**Where:** UWA Tavern

Bringing together the various clubs of Cameron Hall, the quiz night is the only proper time to use your smarts throughout your degree. (18+ Event).

## 4.5 Camp

**When:** 18th to 21st July

**Where:** Lake Leshenaultia

The UCC goes camping! Without tents. There is a dormitory. During the winter break, UCC will host a camp at Camp Leschenaultia. This is a chance to get your computer out of the house for a few days, tinkering and playing games with a whole bunch of other members. Don't worry, you won't be without precious internet. (18+ Event).

## 4.6 40th Anniversary Dinner

**When:** Saturday, September 13th, 7.00 PM til late(r)

**Where:** South Perth Yacht Club

The big non-tech event of the year, the 40th Anniversary dinner is an opportunity for new members to meet the old blood of UCC, the ones that are still kicking on. Taking place in the lovely South of Perth Yacht Club, this fully catered dinner will be a good celebration of 40 years of computing. Expect entry prices to be around \$60 to \$80.

## 4.7 Cameron Hall Charity Vigil

**When:** Semester 2 - mid-semester study break - Overnight

**Where:** Cameron Hall

Once a year, all of the clubs in Cameron Hall get together and hold a night of fun and games to raise money for charity. While the details of the night are still to come, the UCC will probably host a LAN. There will be an entry fee for this event, but expect it to be fully worth it.

## 4.8 Tech Talks

**When:** Throughout the Year, as Interest Demands

**Where:** UCC Clubroom and/or the Loft

A chance to demonstrate your own tech-y knowledge, or learn from someone else. Previous topics include: "Introduction to TOR"; and "The Magic of Data Compression". Early on in the semester, a number of tech talks will cover learning to use the club's machines.

## 4.9 FUCC Camp Scholarship

**Incoming message from James Cox and Lionel Price:**

For new members to UCC, Lionel and I would like to tell you about our full-ride scholarship program. We realise that Camp is fairly expensive, but as once-freshers made good we are financially able to provide unto others. Previous recipients of these scholarships have gone onto great things so we are proud to offer it once more in 2014. I would encourage everyone who is interested to take advantage of this offer - I had a great time my first UCC Camp which is part of the reason why I now offer this scholarship.

Two first-time UCC Campers will have their entry fee paid for by us. As before, you will also obtain the privilege, if you should so wish, to add a pink F to your UCC tags, denoting sophistication, intellect, and exclusive membership of an elite group of teamkilling imbeciles.

To be eligible for this award, you must be a UWA student, member of UCC, and to not have attended a previous UCC Camp. Applicants will also need to declare in writing that they will participate in at least one game of DotA during UCC Camp, and that when we play ET you will not be a noob in the back with a mortar accomplishing nothing all match.

## 5. UCC::Groups

The UCC committee delegates specific duties and responsibilities to other people in the club. These groups, traditionally modelled after UNIX groups, are referred to often.

You can see who's in each group online. Alternatively, if you're looking for a member of a certain group, shouting out "is there anyone here in group?" will sometimes get you an answer.

Membership of these groups entails a certain amount of trust. It is generally accepted that you will nominate yourself to the group once you feel you meet the requirements. Alternately, someone from the group may nominate you.

The requirements for applying for a group can be found by determined searching at <<http://www.ucc.asn.au/infobase>>.

### 5.0 committee@ucc.asn.au

The Committee is appointed each year by the members (that's you) at the AGM. They handle the day-to-day running of the club, managing money, events and holding grumpy meetings each week, which members like yourself are welcome to attend.

The Fresher Rep is your voice on the Committee. Get to know them and let them know how incredibly happy you are! If you have problems, they'll always be ready to listen.

Fresher Rep: <fresher@ucc.asn.au>

### 5.1 door@ucc.asn.au

The Door group is responsible for the clubroom itself. Only a member of door group can unlock the clubroom and keep it open for members during the day. This means that if the only Door group member in the room has to leave, then everyone will have to leave until another Door group member arrives.

### 5.2 wheel@ucc.asn.au

Wheel is in charge of maintaining the club's machines. They are the best people to see if you're having problems with the computers. Wheel

maintains its own membership, but works hand in hand with Committee on issues relating to account policy. If you abuse your account, it will be locked by a Wheel member. The unlocking of accounts is at the discretion of Committee. Wheel have infrequent meetings, where they sing the secret wheel song.

### 5.3 coke@ucc.asn.au

The Coke group are the people to talk to if you want to add money to your dispense account (see the section on dispense). They can also credit your account for bad dispenses and other tasks related to dispense.

### 5.4 webmasters@ucc.asn.au

The Webmasters are charged with maintaining the UCC web presence. Becoming a Webmaster usually involves showing some interest in the UCC website. It shouldn't be too hard to get on this group.

Please. Someone save us from the horror of doctype graham.

### 5.5 winadmin@ucc.asn.au

The Winadmins group was created to give trusted members administrator access to the Windows desktop machines in the clubroom. Sprocket is the equivelant group for Linux desktop machines.

Sprocket/Winadmin is normally given on an adhoc basis to door members when they start to complain at wheel about things broken ("Someone should fix it you say? Excellent suggestion!").

The committee might make a policy in 2014 I don't know.

## 6. UCC::Clubroom

The clubroom is usually open from about 9am until 11pm (staying later than this requires a *good reason* and giving notice to UWA security). It is also sometimes open on weekends, and most days during university holidays. There is a map to the clubroom in Chapter 1. If you want to check the clubroom is open and who is there, check out <<http://webcam.ucc.asn.au>>

The clubroom has a heap of desktop computers, a server room, a projects area with tool cupboard, and assorted storage areas for parts, books and components. These things are all there for members to use — the locks on everything are to keep thieves out, so please don't be put off, and just ask if you need to get into something.

We don't have cleaners, so look after the clubroom! There is always a door group member in the room, AND YOU WILL DO WHAT THEY DAMN WELL TELL YOU TO DO AS THEY ARE THE ONES WHO HAVE TO COME TO CLEANUPS IN THEIR FREE TIME. Of course, if you see something that needs doing such as cleaning up, feel free to do it!



Figure 6.1: <<http://webcam.ucc.asn.au>>

# 7. Communication Technologies

## 7.1 Social Media

Dragging itself kicking and screaming into the 21st Century, UCC has managed to set up a social media presence in something called the "cloud".

- UCC Facebook Group: <<https://www.facebook.com/groups/universitycomputerclub/>>
- UCC Steam Group: <<http://steamcommunity.com/groups/UCC>>
- UCC Status Twitter Account: <[https://twitter.com/ucc\\_status](https://twitter.com/ucc_status)>
- GitHub: <<https://github.com/ucc>>

## 7.2 Mailing Lists

UCC often uses email for communication. There are various lists that you can sign up for at <<http://lists.ucc.asn.au>>. The most popular lists are `ucc-announce@` for announcements and `ucc@` for general discussion.

If you are interested in technology, join the `tech@` list. If you want to be kept up to date with management of the club, join `committee@`.

## 7.3 IRC

Without a doubt, the easiest way to waste time in or out of UCC is chatting on our Internet Relay Chat (IRC) server.

You'll get to chat with some of the older members of the club who may not even be in Perth. Some of these old guard may seem a little grumpy or intimidating at first, but give them a chance, they are gold mines for information about the club and all things tech! We also have members from CASSA and ComSSA, clubs at other WA unis.

You can connect with an IRC client to `irc://irc.ucc.asn.au:6667` and join the channel `#ucc`, or with a web browser go to <<http://irc.ucc.asn.au>>

#ucc :: University Computer Club :: Ask about our SLA!		
17:45		<b>** You now talk in #ucc. **</b>
17:45	[N] NickServ	Welcome to AU-UNINET, uccan_6505! Here on AU-UNINET, we provide services to enable the registration of nicknames and channels! For details, type <b>/msg NickServ help</b> and <b>/msg ChanServ help</b> .
17:45	James_T	uccan_6505: hi
17:45	uccan_6505	What's an SLA?
17:45	Kye	:l
17:45	James_T	Exactly
17:46	James_T	uccan_6505: UCC doesn't have one
17:46	bobgeorge33	Service Level Agreement
17:46	James_T	^
17:46	uccan_6505	OK
17:46	uccan_6505	Why don't you have one?
17:46	bobgeorge33	James_T: We have an SLA. /dev/random
17:46	James_T	bobgeorge33: /dev/null!
17:47	bobgeorge33	James_T: That's where support requests are sent
17:47	matches	Hmm
17:47	Kye	/dev/dsp!
17:47	James_T	uccan_6505: ucc wheel like to break everything all the time
17:47	James_T	☺
17:47	matches	I was going to create a screen shot to demonstrate how welcoming #ucc is to freshers, but perhaps not.

Figure 7.1: What normally happens when a Fresher joins IRC

IRC produces some incredible quotes. You can see these at <http://zanchey.ucc.asn.au/qdb/>.

I didn't say they were wise or funny, just incredible.



## 8. UCC::Games

Do you like Steam? Of course you do! Join UCC's Steam Group: <<http://steamcommunity.com/groups/UCC>>

UCC runs its own TF2, WolfET and Minecraft servers. There's also a range of other games that members enjoy playing in the clubroom.

### 8.0 Minecraft

Minecraft is a game where you mine blocks and craft things out of them. It is more exciting than it sounds - within 5 minutes you will be addicted. Our (modded) Minecraft server is at [minecraft.ucc.asn.au](http://minecraft.ucc.asn.au). The modpack changes every three to six months, so you will never get bored!

For more instructions, visit <<http://minecraft.ucc.asn.au/ucc>>. You can also find maps of the world there. (Figure 8.1).

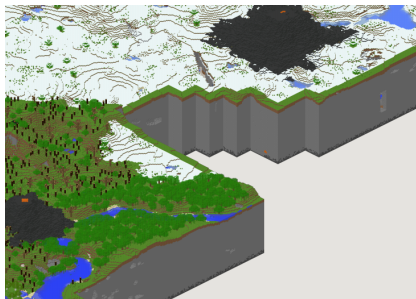


Figure 8.1: Part of the UCC Minecraft world

### 8.1 WolfET

Wolfenstein: Enemy Territory, (or just ET) is an old game but is still incredibly popular at LANs. There is a scholarship (See 4.9) available for the camp which requires playing ET. The ET server is at [heathred.ucc.asn.au](http://heathred.ucc.asn.au).

## 8.2 TF2

Team Fortress 2, also known as Hat Fortress 2. The TF2 server is located at `heathred.ucc.asn.au`.

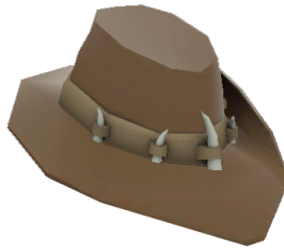


Figure 8.2: The ultimate goal of TF2 is to acquire these

## 8.3 DoTa

DoTa is a game that involves a lot of clicking and people yelling about 'Q's and 'W's and 'alties'. Apparently it's fun. UCC doesn't run its own server but it is the most popular game in the clubroom. Unless that's LoL. I can't tell the difference.

## 8.4 LoL

LoL is a game similar to DoTa but not the same because it is different.

## 9. UCC::Services

### 9.0 Games

The Heathred A. Loveday memorial games server hosts many games including: Minecraft, TF2 and Wolfenstein: Enemy Territory (ET).

Administrator access to `heathred` is fairly unrestricted; it is also available as a general use server. For example, its GPU has been used in the past for number crunching projects.

### 9.1 Drinks and Snacks — Dispense

UCC's most successful service is undoubtedly the internet connected coke machine and not quite internet connected snack machine. These use serial communications to talk to `merlo`, which runs open source software written by talented members including John Hodge, Mark Tearle and David Adam.

A relay connected to `merlo` can be activated by door members from the snack machine to open the club's electronic door lock.

### 9.2 Mumble

What's that? I couldn't quite hear you?

Mumble is a thing for voice chat whilst playing games. `heathred` runs a surprisingly popular Mumble server.

### 9.3 Clubroom Music

From within the clubroom, you can navigate to `<http://robotnik>` to play music over the speakers. Beware, as repeated abuse may lead to activation of the dreaded "loldongs" mode.

### 9.4 Email

UCC proudly runs its own mail server. You have an email account `<username@ucc.asn.au>`.

Upon creating your account you can choose an address to forward all emails to. You can change this at any time by editing the `".forward"` file in your home directory.

## 9.5 Web Hosting

Members can publish their own sites! SSH to a server and edit the files in the directory "public-html". The website will appear at <http://username.ucc.asn.au>.

## 9.6 Wiki Hosting

UCC uses a Wiki called "MoinMoin" to store documentation on servers, events, and miscellaneous things. It is visible at <http://wiki.ucc.asn.au>.

## 9.7 Virtual Machine Hosting

Members who are particularly nice to wheel group can get their own VM hosted at UCC.

## 9.8 Windows Server

maaxen is our token Windows server. It can be accessed through RDP, but beware, as it only supports two simultaneous sessions. maaxen boasts a range of useful programs including Notepad and Matlab.

## 9.9 IRC

Our two IRC servers are bridged with CASSA and ComSSA, computer science associations at other Universities.

## 9.10 General Use

SSH access is available to several servers, but motsugo is the best choice for general use.

# 10. Common UNIX/Linux Commands

In the Beginning was the Command Line.

Command	Description
logout	Logs you off the system. Do this before you leave
ls <directory>	Lists the files in the given directory (folder)
cd <directory>	Change to the given directory (folder)
mkdir <directory>	Add the specified directory (folder)
rmdir <directory>	Remove the specified directory (folder)
pwd	"Print Working Directory" — Displays the path of the directory you are currently in
less <file>	Read through a file ( <i>space</i> scrolls, <i>q</i> quits)
cp <source> <destination>	Make a copy of a file in a new place
mv <source> <destination>	Move (rename) a file
rm <file>	PERMANENTLY DELETES A FILE. THERE IS NO "RECYCLE BIN"!
nano <file>, vim <file>, emacs <file>	Three different text file editors. nano is the simplest
finger <username>	Check to see who someone is and if they are logged in
tla <username TLA>	Look up a UCC TLA
ssh <username>@<hostname>	Log in (securely) to another (UNIX) machine
ping <hostname>	Ping another machine to see if it is up and what the latency is. Press <i>Ctrl-C</i> to cancel
man <command>	Displays the manual for a command. See <b>man man</b> for more information
top	Displays an updating list of current processes
ps aux	Lists all processes running on the system
kill <PID>	Tell a process it should stop. <i>kill -9</i> will kill a process immediately
passwd	On <i>musse1</i> - Change your login password
dispense	Get yourself a delicious drink!
gcc/g++	C/C++ compilers for compiling some awesome code you wrote
python	Python interpreter for interpreting some OK code you wrote
irssi	Join IRC to chat/argue with other members

# 11. Glossary

what is this i don't even

Term	Translation
Dr ACC Murphy	A Computer Called Murphy. Dr ACC Murphy is infamous around the UCC. He even receives mail!
BSD	Berkeley Systems Distribution – a UNIX developed at Berkeley, now better known through the FreeBSD, NetBSD and OpenBSD UNIXes. musdea runs FreeBSD.
blog	aka. weblog – sort of like a journal on the Internet (you don't have one?). Think of it as a tumblr for grown-ups. Syndicated by a Planet.
Coke credit	If you gotta ask, you ain't got it! Coke credit is how people usually refer to money in your dispense account.
Coke Group	The people who can put money (Coke credit) in your dispense account.
Debian	a Linux distribution popular in the UCC due to its community nature.
DEC Terminal	A dumb serial terminal, useful for plugging into the serial console on servers (possibly via a terminal server). Has a model number like vt100 or vt420. There's one in the corridor you can log into musse1 and dispense drinks from.
dispense	dispense started off as a way to dispense Cokes from the online Coke machine, and has since grown into the way UCCans think the world should do business.
Door Group	the group of people charged with keep the room open, tidy and safe.
Firefox	A web browser by the Mozilla Foundation, arguably the second-worst Internet browser – the worst is every other browser.
Flame	Flame is the UCC's MUD (Multi-User Dungeon) and may or may not be haunted.
Fresher	A new university student, usually also a first time UCC member.
Fresher Rep	Fresher Committee member, usually chosen because they look like they'll make a good worker drone in the future. Represents the freshers at committee meetings, if they attend.
GNU	GNU is Not Unix – a layer of libraries and utilities to implement a UNIX like operating system, commonly used on top of Linux.

Term	Translation
Internet Explorer	Just use Firefox. No, really.
IRC	The lifeblood of UCCan communication. Internet Relay Chat lets you share news, stories and terrible puns with other members worldwide.
kernel	The core of an operating system. All operating systems have a kernel, some popular ones include the Linux kernel and the Mach kernel.
LDAP	Lightweight Directory Access Protocol: the black magic used for authentication at the UCC.
Linux	the kernel (basis) of an open source UNIX operating system that has developed quite a following among computer scientists and engineers.
loft	the area above the UCC that looks down into the UCC clubroom. LAN gaming and other activities take place up there.
machine room	The UCC data centre. This is the small room with the glass doors that is located within the clubroom. All of our servers are kept in this room. It is locked when there is no one from Wheel around.
mailing list	a way of communicating with a very large number of people via email. The UCC has several mailing lists of varying popularity.
Mozilla	develop several open source web related products, such as Firefox and Thunderbird.
OCM	Ordinary Committee Member – the worker drones of the UCC Committee, they do lots of work, for little reward.
Oligoboot	boots more then one operating system (selectable when you boot). These all end up booted into Windows.
OpenSolaris	A UNIX developed by Sun Microsystems, and abandoned by Oracle.
open source	A software ideology, where the source code to software (what is compiled into the program you run) is freely available. Also known as Free Software, exactly what makes a program open source is a good way to get into an argument.

Term	Translation
Planet	A web page that syndicates blogs. UCC has one at <a href="http://planet.ucc.asn.au/">http://planet.ucc.asn.au/</a>
Secret Wheel Song	The song that is supposedly sung at the beginning of each Wheel meeting.
SLA	A Service Level Agreement. A document describing how reliable services are. UCC does not have one.
terminal server	Sort of a router for serial ports, allows you to connect to one serial port from another. Usually connected to DEC Terminals, servers and dispense. (It can also refer to other sorts of servers which provide login sessions over the network).
theft book	this is where you write down that you borrowed tools from UCC. It is not for borrowing books; you mail books@ucc.asn.au to do that.
TLA	Three Letter Acronym – a way to refer to UCC members, often used in the minutes of meetings. Use the tla program or visit the UCC website to decode them.
Ubuntu	A Linux distribution derived from Debian. Funded with space money.
UCCan	someone who spends a lot of time in the UCC. Some UCCans pass their units.
Unifi	The University wireless network. Available around campus where UCC's wireless is not. You need to be a student to access it though.
UniSFA	the University Science Fiction Association, the ones down the hall. "UCC and UniSFA, a twisted pair"
VM	A VM or Virtual Machine is a computer emulated on top of another computer. Many of the UCC's servers run inside VMs. The claim is that UCC's VMs are not a "single point of failure." That's the machine they are all running on: <code>medico</code> .
WAIX	WA Internet eXchange – a group of ISPs and interested bodies who peer resources on the Internet for mutual benefit.
Wheel Group	the group responsible for maintaining computers, accounts and services in UCC.