Back-to-School Checklist for Students

These tips may not fit in your backpack, but they will make for smoother studies.

Get Connected: Go to the UCDO Bookstore and pick up Bovine Online. This software package and manual will register your account and get you up and running on e-mail and the World Wide Web.

Visit I.T. Express: As long as you’re at Shields Library, you may as well get that computer question answered and get those copies made.

Find Self-Paced Learning Lab: A library of self-paced learning materials on frequently used software programs and operating systems is available at 1101 Hart Hall.

Check out the New Labs: Windows 95 is now running in all the PC labs, but don’t expect to find “95” in the basement of Hutchison. The Hutchison labs are closed, and new — and improved — labs are open in the basement of Olson. Computer labs have Internet access and are open to students when not in classroom use. For more information go to http://lm.ucdavis.edu/labs.

Administer CPR: In case of emergency, contact Computer/Printer Repair. Located in Art Annex, this is the place to turn when your computer iconics oub. CPR specializes in Apple products and Hewlett-Packard printers. Call 752-7762.

Technology and Teaching

New Services Offer an Integrated Approach

What’s new in technology for teaching this year? New computer labs. Automated e-mail class lists. Improved network security. Workshops for faculty. A new hotline and faxback service. And even a Bovine Online. Changes in computer labs, managed by Information Technology and central computing systems are outlined below. Information about Bovine Online, campus modem service, and the new hotline and faxback service are described in the right-hand columns on Pages 1 and 2.

Computer Labs

If you teach or study in the campus computer labs, please note the changes listed below. To reserve a lab for classroom use, call 752-8549 or send e-mail to lab-reserve@ucdavis.edu or call 752-9549.

One thing to keep in mind — your favorite computer lab may not be where it used to be. The labs in Hutchison are closed, and they have been replaced by two new labs in Rooms 21 and 27 Olson. If you’ve been teaching in the Social Sciences and Humanities labs, are open in Rooms 21 & 27 Olson. The labs in Hutchison are closed permanently.

In case of emergency, contact Computer/Printer Repair. Located in Art Annex, this is the place to turn when your computer iconics oub. CPR specializes in Apple products and Hewlett-Packard printers. Call 752-7762.

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Connect with Bovine Online

Surf’s up! Connecting to the Internet just got a little bit easier. Available at the UCDO Bookstore is Bovine Online, an installation program that will enable you to open a campus computer account, send e-mail, and surf the Web. Developed by Information Technology, Bovine Online is available in both Macintosh, Windows 3.1, and Windows 95 platforms. The Eudora e-mail program, Netscape Web browser, and a user manual are included in the package. Price is $14.99.

For your convenience, Bovine Online also is available for purchase at the copy services desk at I.T. Express on the first floor of Shields.

I.T. Express no longer provides disk copies of Internet software. However, Eudora, Netscape, and other software programs may be downloaded from the World Wide Web at http://online.ucdavis.edu. For further information call 752-2548.

Dialing in?

As a campus computer account holder, you have dial-in access to the campus network through the campus modem pool:

- Dial 752-7900 to telnet, send e-mail, and perform other text-based functions.
- Dial 752-7925 to access the World Wide Web and transfer files using FTP.

UC Davis maintains a pool of 500 modems with 14.4k line rates. Traffic is heavy, and callers frequently encounter busy signals.

Those who desire fewer busy signals, more consistent connectivity, and faster connections should consider contracting for service through a private vendor. Information Technology is...
Campus Now Has Expanded Internet Access

This summer UC Davis expanded network capacity to the Internet as a result of a new agreement coordinated by the Office of the President. The agreement serves all 50 UC campuses -- Berkeley, Santa Cruz, San Francisco, and Davis.

The agreement replaced the previous contract negotiated in 1987 when UC Davis gained access to the World Wide Web. Faculty may use this system to place information about courses, students, and other campus services on the Web for students. Students who visit the Web site find information on policies governing Electronic Reserve Reading and the availability of material that cannot be removed from the library. By 1991 the number of commercial sites on the Internet by-passed the number of research and education sites.

The original agreement between the UC campuses and BARRNet, which has been assumed by the commercial enterprise BBN Planet, allowed UC Davis to connect to the Internet at a cost of $10,000 per year. The cost was kept low because the campuses were BARRNet hub sites, and UC personnel helped operate the network. BARRNet also helped subsidize the educational connections by charging its commercial customers a higher rate. BBN Planet now treats all customers the same, and rates would increase significantly if the old arrangement were continued.

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Under the original contract, BARRNet increased network bandwidth available to UC campuses on an as-needed basis. However, BBN would not increase the bandwidth available to UC campuses without increased charges. BBN provided a bandwidth of 3 Mbps shared between UC Davis and all other BBN Sacramento customers, which was inadequate, especially considering the growing demand on the system.

In a request for Proposal issued this spring, the UC Office of Technology's Advanced Networking and Scientific Applications, who worked with the Office of the President to evaluate new options for providing efficient, yet cost-effective access to the Internet, said the following points were factored into the decision:

1) Demand for network services is skyrocketing in both public and private sectors.
2) The number of commercial sites on the Internet overwhelmed the numbers of educational and research sites.
3) Most regional networks are now operated by commercial vendors.
4) Internet access is becoming much more expensive.
5) The old campus connection to the Internet did not meet campus needs.

In 1987 UC Davis joined the other northern UC campuses of Berkeley, Santa Cruz, and San Francisco along with Stanford and the NASA Ames Research Center to create the regional network known as BARRNet. This network was linked to other National Science Foundation (NSF) funded regional networks through NSFNET, the national backbone interconnecting regional networks. This system of networks, based on the protocols developed for the Department of Defense's ARPANET, launched the explosion of networking that has become the Internet of today.

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Modem Service

From Page 1 negotiating non-exclusive service agreements with the following two companies:

Calweb -- Phone: (800) 509-9322 (from Davis area) 415) 641-9320 (from Sacramento area) on the Web: http://www.calweb.com
Earthlink -- Phone: (800) 395-8410 on the Web: http://www.earthlink.net

Please Note: If you do contract with a private vendor for dial-up access, you will no longer be able to login to the campus system before accessing password-protected resources, such as MEVUL* specialized databases and Usenet newsgroups.

Recommended Solutions

Purchasing a modem? Or maybe you are in the market for a new computer? To choose your own hardware and software purchases, Information Technology publishes Recommended Solution documents on a variety of topics. Ordering a Modern and Hardware Solutions are just two. To obtain a copy of these and other Solutions, visit I.T. Express, send e-mail to it@ucdavis.edu or look on the Web at http://www.ucdavis.edu/IT/Solutions/

Dial 754-HELP for Faxback Service

During the 1995-96 academic year, I.T. Express fielded over 30,000 calls at its 754-2548 number. To better serve its customers, Information Technology has added a new helpline and faxback service. The number to call is 754-HELP.

I.T. Express Consultants Still on Call at 752-2548

You may speak to a technology consultant on call at 752-2548. Please note that the consulting is just one of three services offered by I.T. Express. Walk-in services and online consultation also are available.

Walk-in Consultation & Copy Services:

Located on the first floor of Shields Library, I.T. Express consults with clients on a walk-in basis and provides copy services — including copying of library materials that cannot be removed from the premises. Last year, I.T. Express handled over 33,000 in-person technical support consultations.

Online Consultation: If you have a technical question, send e-mail to it@help@ucdavis.edu. I.T. Express consultants will respond to your query online.
CASE STUDY

Ag Econ Poised and Ready for Network 21

by Aviva Luria, Information Technology

When it comes to Network 21, the Agricultural and Resource Economics Department is in an enviable position. Thanks to a bit of luck and the foresight of programmer/analyst Jerry Nishimoto, Ag Econ is about as ready as can be for transitioning to Network 21.

Two years ago, Ag Econ moved from its former digs (divided between Voorhies and AOB4) to the Social Science and Humanities building, which is wired with 10BASE-T, category 5 cable and fixtures — the sort of stuff required to hook up to Network 21. This makes life easier for Nishimoto, who can simply call Information Technology to activate the existing 10BASE-T NAMs when a new faculty member moves in. Back in the old space, Nishimoto would have had to ask Physical Plant to string new cable into the office to create a new network connection.

The move to the Social Sciences and Humanities building was a smooth one. "Basically it was a matter of shutting down the systems in AOB4. A crew of graduate students helped carry the computers and within an hour we were up and running again," Nishimoto says.

Nishimoto credits the smooth transition to advanced ping, Kevin Harrington of I.T. Communications Resources worked with Kathy Edginton, a programmer/analyst for Ag Econ, to check all the NAMs in the new space to ensure they were functional. The testing and planning were so complete that the move amounted to little more than “taking apart, pulling together and plugging in,” says Nishimoto. The only equipment he remembers purchasing were media converters to thinnet systems.

How does Nishimoto view the upcoming transition to Network 21?

“Fortunately, because we’ve all 10BASE-T and everything is category 5, I’m not anticipating a whole lot of changes in terms of hardware. Moving into this building inadvertently forced us to be ready for Network 21,” he says.

The Solutions:

› Planning for needed hardware to make all equipment compatible with 10BASE-T cabling and fixtures.
› Planning cutover date with I.T.
› Equipping machines with hardware before cutover date.
› Pre-testing of NAMs.
› Implementing change by move date.

The Tools:

› Network Adapter Cards
› Transceivers
› 10BASE-T patch cords

His Advice:

› Make sure you have an up-to-date list of all your IP addresses.
› If possible, test each computer with the new hardware and software before the move.
› Test each NAM before the move or have a computer that you know is configured correctly for troubleshooting.
› Review and plan for the move!

PROJECT UPDATE

NetWork 21

The increasing reliance on information technology in teaching and research is placing a tremendous demand on campus technology infrastructure. With the ever-growing use of e-mail and the World Wide Web — to name just two applications — the amount of traffic traveling between computers on the campus network is increasing at an explosive rate.

Construction continues on Network 21, the high-speed fiber optic network that will connect over 200 buildings in the core area of campus and pave the way for the Davis campus to fully utilize digital communication technology.

The overall goal of the project is to provide campus users with direct access to high-speed data networks, thereby linking Davis with worldwide information resources. When fully configured, the buildings connected to Network 21 will have the ability to bring video, voice, and data to the desktop. Simply stated, Network 21 will make it possible for the campus to support the heavy traffic loads resulting from the increased usage of networked applications.

Approved by the Regents in November 1993, construction began on the Network 21 project last summer. Completion is slated for fall 1997, and most buildings included in the project should be connected by July.

Over half the communication closets on campus have been updated to accommodate Network 21, and much of the outside plant fiber optic cable has been installed. Work also has begun on the installation and modification of Network Access Modules (NAMs) that will enable users to plug into Network 21.

Departments will migrate from the current campus network (UCDNet) to the Network 21 infrastructure via the cutover process. Information Technology will collaborate with departments to prepare for the transition of department computers and devices to the new network.

Information Technology will schedule Cutover Orientation meetings for network administrators and Management Services Officers (MSOs) in all Network 21 areas. Departments will be notified in advance of scheduled orientations.

Network 21 will make it possible for the campus to support the heavy traffic loads resulting from the increased usage of e-mail, the World Wide Web, and other networked applications.
### I.T. CALENDAR

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**OCTOBER 1996**

**Provide information, contact I.T. Training at learnit@ucdavis.edu or 752-6439.**

**Introduction to Microsoft Excel:** Oct. 14 & 16, 8:30-11:30 a.m., 14 Hutchison. For registration information, call Staff Development and Professional Services at 752-1766.

**Finding Journal Articles - Databases on and beyond Melvyl:** including CD-ROM's: Library Instruction Programs, 3:10-4:30 p.m., Shields Library Microcomputer Room. To enroll e-mail vgwalberg@ucdavis.edu or call 752-6439.

**Introduction to Microsoft Windows 95:** Oct. 15 & 17, 8:30-11:30 a.m., 40 Mrak. For registration information, call Staff Development and Professional Services at 752-1766.

**Finding Journal Articles - Databases on and beyond Melvyl:** including CD-ROM's: Library Instruction Programs, 3:10-4:30 p.m., Shields Library Microcomputer Room. To enroll e-mail vgwalberg@ucdavis.edu or call 752-6439.

**Introduction to PowerPoint:** 1:30-4:30 p.m., 40 Mrak. For registration information, call Staff Development and Professional Services at 752-1766.

**Introduction to Windows 3.11:** Oct. 28 & 30, 8:30-11:30 a.m., 40 Mrak. For registration information, call Staff Development and Professional Services at 752-1766.

**Introduction to Advanced Melvyl Searching:** 11:00 a.m., 14 Hutchison. For registration information, call Staff Development and Professional Services at 752-1766.

**Advanced Melvyl Searching:** Special features and techniques and tips for working efficiently: Library Instruction Programs, 3:10-4:30 p.m., Shields Library Microcomputer Room. To enroll e-mail vgwalberg@ucdavis.edu or call 752-6439.

**Introduction to Eudora:** 9 a.m., 14 Hutchison. For registration information, please contact I.T. Training at learnit@ucdavis.edu or 752-6439.

**Introduction to Internet:** Noon-2:00 p.m., 40 Mrak. For registration information, call Staff Development and Professional Services at 752-1766.

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**Polish Your Apple Skills**

The UC Davis Macintosh User Group (UCMUG) will meet at 5:30 p.m. on the third Wednesday of each month. UCMUG is a campus special interest group that focuses on issues including the Macintosh computer and how it is used and integrated into the computing environment at UC Davis. Meetings will include demonstrations, discussions of service issues, raffles, and question and answer sessions. All interested Macintosh users are invited to attend. Meeting locations will be announced on a monthly basis. The next meeting is scheduled for Wednesday, October 23. For further information, contact Steve Faith at safait@ucdavis.edu or Paul Wiltse at private@ucdavis.edu.

**Basic Melvyl Library System**

Comments to find books at Melvyl.

**Internet Access Expanded**

From Page 2

The President requested 4 Mpbs of service starting July 1, 1996, increasing to 10 Mpbs by the end of the contract year, June 30, 1997.

An evaluation team met to review the proposals at 14 Hutchison. While there were several good proposals to connect each individual campus, the costs were as high as $260,000 for UCD Davis, reflecting current internet pricing.

After viewing the options, the UC evaluation team agreed that the best option for accessing the Internet is to use UCNef for its individual campus connections and install a large connection to the Internet in Berkeley for the northern campuses. The UC Davis campus fee for this option is $100,000 for 1996-97. An Internet connection will be installed at either UCLA or Irvine to serve the southern campuses.

“This is a best-of-both-worlds solution,” says Hobby, “because it provides individual users with the benefit of increased bandwidth to the Internet yet puts us in control of overhead associated with services and maintenance.”

UC Davis began using the 10 Mbps UCNef connection for primary Internet connectivity on July 18.

### Editor’s Note

If you wish to enroll in a class offered by Staff Development & Professional Services, you must complete an Application for Enrollment. Applications are in the Staff Development Catalog. To request an application, call 752-1766.