

---

# 10 Computer Network

---

## Computer Network

Cedarville University recognizes that students must live and work in a society where computers and computer networks are an essential part of everyday life. The University is committed to making information available to people who need it, when they need it, and where they need it. As a result, Cedarville University provides networked computers in residence hall rooms and offices. The underlying network, called CedarNet, serves as a vehicle for revolutionizing education at the University. CedarNet phase I was completed during the summer of 1992 through a business partnership with IBM and included all twelve academic buildings and two residence halls. Subsequent phases have resulted in placing computers in each of the 1,100 residence hall rooms and over 300 offices. Each residence hall room includes a university-owned computer and printer. Residence hall computers are replaced on a three-year cycle so that students always have current technology available.

### Benefits

Students using the network can:

- create their own home page
- take notes and write papers more efficiently
- make written assignments look better and communicate more effectively
- communicate electronically on campus with professors, friends, and classmates, or with friends and family around the world
- manage, display, and analyze data using spreadsheet, statistical, and database software
- complete special assignments using specific network features
- search library holdings for personal and class research projects, papers, or presentations, even when the library is closed
- enhance personal Bible study
- access their course schedule, college transcript, or business office account
- create illustrations for class, personal, or ministry presentations
- master course content or skills through individual, self-paced study
- learn skills that will help them be successful as a student and obtain a better job upon graduation

### Equipment

The network features Pentium or AMD computers with 64MB-128MB RAM, hard disk drive, floppy disk drive, CD-ROM, sound card, and monitor. In addition, each networked residence hall room contains an inkjet printer. All laboratories offer laser printers for high quality, final drafts. Flatbed scanners are available in each laboratory. The library computer laboratory also features color printers, digital cameras, and other specialized equipment. Internet access is supported through the use of three T-1 lines (each line being several times faster than a modem.)



*With nearly 200 CedarNet software packages available to them, students use the computers in their dormitory rooms to complete course assignments.*

### Technology Advisory Board

The Technology Advisory Board consists of corporate leaders and professionals representing a variety of technology oriented businesses. Annually, these experts advise the University and evaluate its plans for further strengthening Cedarville's position as a leader in instructional technology.

*Dr. Eugene Apple, General Electric Corporation, retired*

*Mr. George Chessum, Resurrection Health Care*

*Mr. William Dyer, National City*

*Mr. Aaron Fessler, Allegro*

*Mrs. Marivi Garrison, Dulles Group*

*Mr. Gary Habegger, The BFGoodrich Company*

*Dr. Shawana Johnson, Global Marketing Insights*

*Mr. Michael Kennelly, Senior Software Engineer*

*Mr. Mike Knelliner, The Standard Register Company*

*Mr. James Kregel, Kregel Publications*

*Mr. Fred Laxton, Executive Consultants*

*Mr. Douglas Macrae, Video Guide*

*Mr. Andrew Mininger, Videographic Enterprises, Inc.*

*Mr. Greg Moran, Bank One*

*Mr. Robert Murphy, J.W. Pepper and Son, Inc.*

*Mr. Richard Newberry, Crown International*

*Mr. William Pardi, Microsoft Corporation*

*Mr. Jonathan Price, CBC Companies*

*Mr. Robby Richardson, Gospel Communications Network*

*Mr. Gary Rutledge, FANUC Robotics*

*Mr. Michael Seashols, Evolve Software*

*Dr. Gene T. Sherron, Florida State University*

*Mr. William Steckiel, Lyondell Corporation*

*Mr. Al Stevens, OPEX Corporation*

*Mr. Larry Thacker, Tominy*

*Mr. David Whitten, General Motors*

*Dr. Michael Zastrocky, Gartner Group*

---

# Computer Network 11

---

## Software

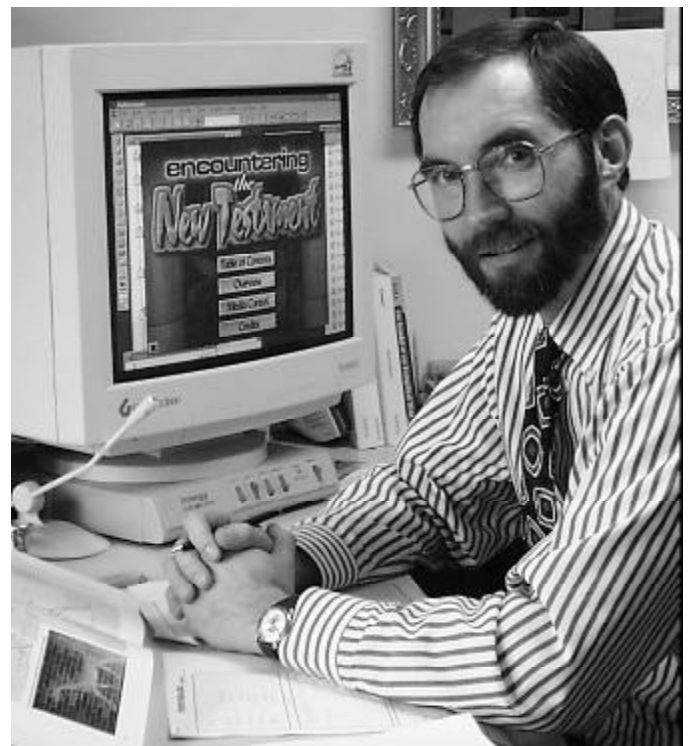
CedarNet features 175 software packages including:

Applied Science and Technology  
Basic Principles and Pharmacology  
Bible Library  
Booksale  
Bookstore Textbook Request System  
Botany Review  
Broadcasting Style Book  
Browse Faculty Schedules  
C++  
Clinical Nursing Concepts  
Communication in the Information Age  
Computer Applications for Accounting  
Contemporary Authors  
Delphi  
Design of Machinery  
Dorm Sign-In/Out  
Financial Aid Sources  
Flash  
GroupWise E-mail  
Holy Land Tour  
HotMetal Pro-HTML Editor  
Inspire 3D  
Introduction to Education Test Review  
Introduction to Spectroscopy  
Learning Plus  
Leviticus  
Library Catalog  
Logos Bible Software  
Lview

Macromedia Authorware  
Maple V  
Maptitude  
Microsoft Access  
Microsoft Excel  
Microsoft PowerPoint  
Microsoft Project  
Microsoft Word  
Minitab for Windows  
Multimedia ToolBook  
OhioLINK Central Catalog  
Old Testament Geography  
Online Bible  
Oracle  
PageMaker  
Paint Shop Pro  
Peachtree Accounting  
Perception  
PhotoShop  
Prayer Request Entry\Read  
Presentations  
Print Shop Deluxe  
Quattro Pro  
Request Student Information  
Software Tutorials  
SPSS for Windows  
TK Solver for Windows  
Value Screen III  
Visual Basic  
WordPerfect

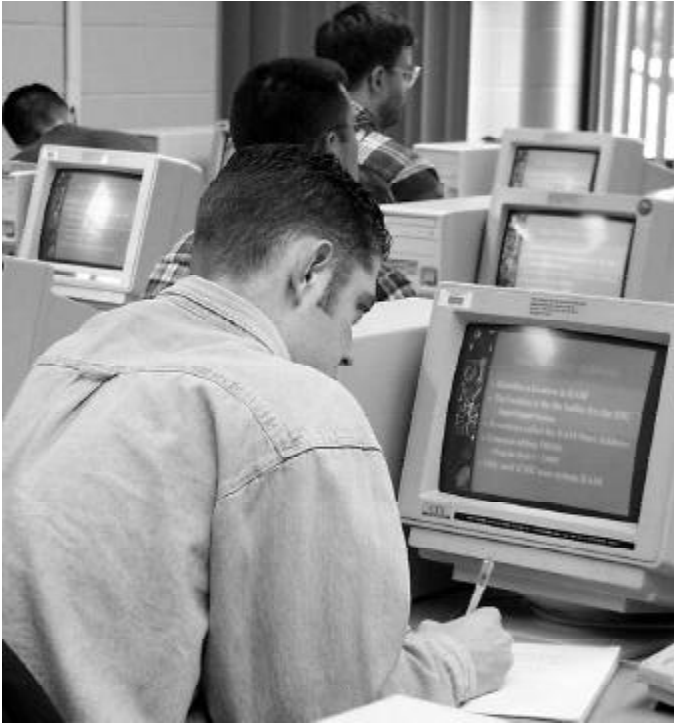


*Cedarville has been recognized by [Yahoo! Internet Life](#) as one of America's 100 Most Wired Colleges. The award-winning computer network, CedarNet, connects over 1800 computers on campus.*



*CedarNet provides software programs that enable professors to enhance classroom presentations.*

# 12 Computer Network



Well-equipped computer laboratories around campus provide easy and convenient access to CedarNet software.

## Access

Access is the key to any effective information system. The network provides members of the university family with the hardware and software necessary to obtain and use information.

All students living in a residence hall benefit from 24-hour access to the network. To enable students to take further advantage of the network, public laboratories, with a total of 120 stations, are conveniently open to the students. Students living off campus can utilize modem access for some projects.

## Training

Most students will learn how to use the network through online tutorials and help screens that explain the programs. Computer laboratory assistants are available to answer questions whenever the labs are open. The University also offers training seminars that provide instruction on a variety of commonly used software applications such as word processing, spreadsheets, presentation programs, and web page development. Faculty using specialized software typically orient students in their respective classes. Students find the best way to maximize the benefits of the network is to learn it early and use it often during their time at Cedarville.

## Supplies and Maintenance

The Cedarville University Bookstore sells the paper and floppy disks students need to use the network. For security, students are encouraged to store their work on their own floppy disks.

Technicians from the Computer Services Department provide the technical back-up to keep the system operating. Students who experience problems with the operation of their equipment

should contact either the laboratory assistant on duty or use the web-based help request page.

Some measure of wear and tear is expected from the use of the equipment. Excessive wear or damage, however, is not covered. Students who intentionally damage any network equipment will be required to cover the repair costs.

## Awards

Cedarville University is known nationally as a leader in campus computer networking and instructional technology. Recent recognitions include a listing in *Yahoo! Internet Life* as one of America's 100 Most Wired Colleges. CedarNet is also a winner of the CAUSE Award for Excellence in Campus Networking. This prestigious national award recognizes colleges and universities which exemplify best practices in campus networking in higher education.



The prestigious CAUSE Award for excellence in campus networking recognized CedarNet as one of the top campus computer networks in the country.

**Cedarville University Internet address for staff:**  
"user's login id"@cedarville.edu  
(i.e. JonesK@cedarville.edu)

**Cedarville University Internet address for students:**  
"student's login id"@cedarville.edu  
(i.e. S1234567@cedarville.edu)

**World Wide Web - <http://www.cedarville.edu>**

---

# Computer Network 13

---

## **Applications**

As a result of the variety of features and capabilities offered by the network, students from all majors can benefit greatly. A number of specific applications exist. These include:

### *Biblical Education*

- Church management software
- Concordance programs with multiple translations
- Hebrew and Greek word processing

### *Business*

- Textbook-specific software
- Financial statements
- Management simulations
- Statistical analysis
- Spreadsheets

### *Communication Arts*

- Groupware cooperative projects
- Interactive video generation

### *Education*

- Gradebook management
- Lesson preparation
- Database management
- Visual aids

### *Engineering*

- CAD software
- TKsolver
- Maple (mathematics)
- Statistical analysis
- Charts and graphs

### *Health and Physical Education*

- Dietary analysis software
- Sports management
- Charts and graphs

### *Interdisciplinary Studies*

- Access to international demographical data
- Spreadsheets
- Statistical analysis

### *Language and Literature*

- Writing skill builder
- Reading skill builder
- Grammar checkers and style analyzers
- Language tutorials
- Publication design

### *Music*

- Art slides for humanities class
- MIDI instrument control
- Music theory tutorials

### *Nursing*

- Vocabulary tutorials
- Video training programs

### *Psychology*

- Personality inventories
- Statistical research

### *Science and Mathematics*

- Graphical demonstration of mathematical properties
- Laboratory simulations
- Biology laboratory review
- Statistical analysis
- Charts and graphs

### *Social Sciences and History*

- Access to demographic data
- Mapping software
- Statistical analysis
- Access to historical documents

### *University-wide*

- Campus Activities
- Career Services
- Posting of:
  - Internship opportunities
  - Employment opportunities
  - Upcoming recruiting days and recruiters
  - Graduate school deadlines

### General:

- University-wide announcements
- Faculty-student communication, on-campus
- Student-student communication, on-campus
- View course offerings
- Christian ministry opportunities
- Register for classes
- Sign in/out of an on-campus job
- Transcripts
- Financial records

### Library:

- Online public access to library holdings
- Periodical search
- OhioLINK

### *Worldwide*

### Internet:

- Electronic mail and access to over 100,000 institutions, libraries, and databases around the world