

Network

The campus is served by a fiber optic network connecting all major buildings with core switches located in the Math and Computing Technologies building (MCT). Copper connections are used within buildings to provide access to PCs, wireless access points, and other network clients. Central 1/10 gigabit Ethernet hardware provides for the switching, routing, and firewalling of network traffic from end users, between campus buildings, the campus data center, and off-campus locations. Connections to the Internet, Internet2, and other PASSHE facilities are provided by a redundant GigE connections to Kinber, SSHENET, and by Level 3 to Pittsburgh.

The Keystone Initiative for Network Based Education and Research (KINBER) is a membership organization devoted to fostering collaboration through technology for education, research, healthcare, libraries, public media, workforce development, government and economic development. KINBER built and manages the 1,800-mile Pennsylvania Research and Education Network, known as PennREN, which provides advanced data networking to non-profit organizations and fosters collaboration between Pennsylvania-based organizations for value-added services such as Internet2 connectivity, realistic high-definition video, real-time videoconferencing, and data sharing. PennREN access points are now in 51 of Pennsylvania's 67 counties with initial connections in more than 70 locations over the 1,800-mile network.

SSHENET provides the network connectivity for the SAP Administrative Computing and the PASSHE Personnel system with staff offices at Office of the Chancellor, Dixon University Center and Vartan Way in Harrisburg and computing resources at Millersville University. It is also the backbone for the Keystone Library Network, which is located at Shippensburg University that provides library automation capabilities for the PASSHE institutions, the State Library of Pennsylvania, and other partners.

Wireless

Wireless network access is provided in all campus buildings as well as certain outdoor areas. Any device supporting 802.11g/n/ac protocols is able to use the campus wireless network. All devices must be registered using a valid Shippensburg University e-mail address and password.

Central Information and Computing Services

On-line admissions, scheduling, grade reporting, academic information, student billing and financial aid are handled by the university Banner Student and Financial Aid system, products of Ellucian. This system runs on the Oracle database system. This system includes Enrollment Management, Workflow, Document Management (Imaging), Degree Audit, Campus Portal and Data Warehouse functionality.

Financial and HR/Payroll systems run on the SAP Shared Administrative System maintained by the Office of the Chancellor, Vartan Way.

Several high-speed servers provide a core network infrastructure utilizing Microsoft's Active Directory service, and providing central file, print, web services, as well as internal Domain Name Service. Additional servers provide highly available email services utilizing Microsoft Exchange Server. In addition, there are a host of application servers running Microsoft Windows Server and providing services to the campus community such as: Incident Reporting for University Police, Inter Library Loan and Electronic Reserves for the Ezra Lehman Library, Survey services for Institutional Research and Planning, Electronic Transaction Processing for Dining Services and Campus Lab printing, Help Desk tracking for the Computing Technologies

Center, Door Access processing for the Dean of Students, work order management for the Physical Plant, and many others.

Several Linux servers provide NAC (Network Access Control), DHCP services for distributing IP addresses, DNS (Domain Name Service) and other network services. They are also used as a platform to teach relational database and query techniques using the ORACLE® software system.

Micro-Computer Services

Microcomputer laboratories are located in various buildings on campus. The following table gives an indication of their location and purpose.

Location	Type	Special Purpose
DHC 002	PC	English Composition
FSC 122	PC	Psychology
FSC 216	PC	Biology, Chemistry, Physics
Gilbert Hall 010	PC	Multicultural Student Affairs
Grove 106/108	PC	General use - Business
Grove 301	PC	Finance & Supply Chain Mgmt
Grove 302	PC	Mgmt. Information Systems
Grove 402	PC	Business Education
Huber Art Center 104	Mac	Graphic Arts
Huber Art Center 310	Mac	Graphic Arts
Lehman Library 101	PC (Laptops)	General use
Lehman Library 112	PC	General use
MCT 054	PC, Mac	General use
MCT 158	PC, Mac	General use
MCT 162	PC	Computer Science
MCT 164	PC	Computer Science
MCT 165	Mac	Computer Science
MCT 263	PC	Mathematics
Rowland Hall 103	PC	Modern Languages
Rowland Hall 202	PC	Communication/Journalism
Rowland Hall 206	Mac	Communication/Journalism
Shearer Hall 001	PC	Geography/Earth Science
Shearer Hall 005	PC	Geography/Earth Science
Shippen Hall 170	PC	Special Ed, Counseling
Shippen Hall 240	PC	General use - Education

Maintenance and support for PCs and Macs is centrally administered from the Computing Technologies Center (CTC). Please call HELP (4357) for service in this area. The CTC maintains a time and materials contract with a local service provider for physical maintenance. The CTC also has a group of graduate and work-study students who provide software support for microcomputers and who supervise the MCT054/158, Grove 106/108, and Shippen 240 labs.

SOURCE: Computing Technologies Center.