

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 gigabit Ethernet hardware provides for the switching, routing, and firewalling of network traffic 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 connection to SSHENET and by Level 3 to Pittsburgh.

SSHENET is a GigE and IP network connecting the 14 PASSHE schools to each other and provides gateways to the Internet in Philadelphia and Edinboro. SSHENET also 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 the majority of campus buildings as well as certain outdoor areas. Any computer supporting one of the 802.11/g/n protocols is able to use the campus wireless network. Wireless 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 Unix servers provide DHCP services for distributing IP addresses, external 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 |
| 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 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.