Communications Solutions Designed for Higher Education

LET FRONTIER HELP YOUR COLLEGE OR UNIVERSITY
ENHANCE LEARNING, COLLABORATION AND SECURITY

Frontier
BUSINESS EDGE™

Communications technology trends are greatly impacting today's institutions of higher education, creating both valuable opportunities and considerable challenges. These trends include:

- **Expanded opportunities for enhanced student learning** – engaging students with virtual education technologies, multimedia and collaborative tools both on and off campus

- **Growth of BYOD (bring your own device) on campuses** – enabling multimedia communication across devices with more robust connectivity and data security

- **Communication and collaboration between faculty and students** – increasing staff and instructor productivity with better tools

- **Technology's role in keeping campuses safe and secure** – using a more proactive approach to both warning and emergency response

- **Transporting and storing data files** – improving the security of personal data as well as proprietary research

Frontier understands the communications needs of colleges and universities because we have worked with many of them over the years. We listened and learned as IT administrators and other leaders described the overriding goal of enhancing the student learning experience. We studied how professors could leverage technology to help them teach more efficiently and effectively. We took notes about concerns regarding network reliability, campus safety and data security, and we used them to develop customized solutions for institutions of all sizes.

When you choose Frontier as your partner, your college or university can take advantage of our higher education experience and extensive portfolio of network and equipment solutions. We will work closely with your team to assess your current situation, determine future communications requirements, and select products and services that fit into your timeframe and budget. What's more, Frontier backs everything up with local customer support.

To learn what Frontier can do for your college or university, please visit us at frontier.com/businessedge.

BE innovative.

Frontier Wi-Fi Solutions

Mobile communication is increasingly prevalent on college and university campuses as young people adopt newer, faster and more innovative technology. Make sure your campus is equipped to meet the rapidly growing demands of more devices and more data with Wi-Fi Solutions from Frontier.

Handle Wireless Data and Use Tomorrow's Technologies

- Frontier Wi-Fi Solutions provide Internet connectivity throughout school campuses, expanding the opportunities for improved communication, collaboration and learning.

- Frontier Wi-Fi Solutions allow your institution to begin using the technology of the future today. Smartboards, e-learning, telepresence and virtual learning technologies can all be networked through Frontier's Wi-Fi Solutions backed by enterprise grade High-Speed Internet. It can even allow your facilities managers to monitor and control operations, like HVAC, lawn sprinklers and security cameras.

A Variety of Wi-Fi Solutions to Meet Your Needs

Frontier is dedicated to working with our customers to identify, design, install and support the right Wi-Fi Solutions to meet their campus requirements.

- Managed, hosted and premised-based options for Wi-Fi provided by key leaders in the wired and wireless access industry.

- Financing options available (including no upfront capital outlay)

- Custom Wi-Fi network design and installation available

- Per-user download speeds customized to your specifications

- Multiple access options available to meet security requirements

Frontier Lets You Stay Focused on Education

Frontier's Managed Wi-Fi network services are a convenient and cost-effective way for your college or university to implement wireless connectivity. By choosing Frontier, you can remain focused on education and leave the rest to us. We have the experience and resources to take care of all your Wi-Fi needs, including:

- **Security** – Frontier will set up your Wi-Fi network to give students, faculty, staff and authorized visitors the wireless access they need, without giving them access to your main network.

- **Ongoing Support** – Our professionals will handle installation, provide locally-based technical support and monitor network performance 24/7.

Frontier Data Networking Solutions

College and university data networks experience high volume 24 hours a day, all over campus. Public networks can get bogged down with the high amount of data requests they receive each minute, but Frontier offers dedicated solutions with guaranteed bandwidth to keep your network strong and fast. Standard enterprise High-Speed Internet can be paired with Ethernet, Dedicated Internet Access and Managed Internet Protocol Virtual Private Networking Solutions that create direct data highways to Frontier servers. Dedicated lines help ensure high speed no matter the data volume.

Frontier Ethernet

- Frontier's Ethernet Portfolio has been certified compliant to the highest industry standards by the global standards organization, the Metro Ethernet Forum: Carrier Ethernet 2.0.

- We offer Ethernet solutions like ELAN, ELINE and EIA for the networking challenges to help professor-to-student and building-to-building communication/data transport.

- Our Ethernet services deliver:

  - Speeds up to and exceeding 10Gbps

  - Easy integration with existing networks and infrastructures

  - High availability and performance

  - Engineered lines configured for performance to limit noise and environmental factors

  - Symmetrical upload and download speeds enable uncompromised traffic flow

  - Well-planned and coordinated migration from other carriers with minimal downtime

  - Commercial grade network with a coast-to-coast data backbone

Frontier Dedicated Internet Access

Frontier not only provides dedicated private lines to improve network performance, but we also help create secure, private networks for sensitive data transfers between servers and multiple locations on campus.

- Unlike typical xDSL and cable services, a Frontier Dedicated Internet Access connection uses a range of access technologies to give you symmetrical bandwidth on a survivable high-speed nationwide IP backbone.

- Dedicated Internet Access (DIA) provides a direct connection to the Frontier Core Internet Router. This provides your school a wide array of bandwidth choices with speeds up to and exceeding 10Gbps. Dedicated Internet Access supports services such as:

  - Wi-Fi Hot Spots & Anchors

  - Data Backup & Recovery

  - Audio, Web and Video Conferencing

Frontier Managed IP VPN

- IP VPN (an MPLS-based Virtual Private Network) from Frontier provides a highly secure, private data network for all sensitive information.

- Enables integration of multiple networks (voice, data, video) onto a single network.

- Provides ability to prioritize traffic types to accommodate time-sensitive payloads.

- Provides internet connectivity in addition to site-to-site data connectivity.

- Network management handled by highly skilled network architects.

Frontier Voice and Equipment Solutions

Frontier can help improve the speed and efficiency of your voice networks on campus to keep the lines of communication open between faculty, staff and students.

Phone and PBX Systems

- Frontier offers phone systems and PBX from a variety of top manufacturers to fit the needs of your campus, regardless of its size or budget.

- OneVoice phone service packages provide the customized calling solutions your university needs. Frontier offers a variety of cost-efficient long distance and international calling plans.

VoIP Services and Equipment

- With IP Trunking and Hosted (Cloud) VoIP services, Frontier has a VoIP solution that meets your needs.

- Save money and optimize network efficiencies by taking advantage of network convergence—Frontier's VoIP services are delivered over the same network infrastructure as is used to carry data and Internet traffic. With all your communications services on the same network, you'll eliminate much of the capital and resources needed to manage/maintain two separate networks for voice and data services.

- As VoIP is an IP-based application, you'll get great features and capabilities that aren't available with traditional phone services like soft-phones and Find Me/Follow Me services.

- In the event of a natural disaster, power outage or other disruption to your school buildings, the Auto Attendant will manage your calls for you. With Mobile Twinning, you can still receive calls on mobile phones.

Frontier is Fully Equipped to be Your Single Provider

Your college or university can streamline operations and improve efficiency when Frontier is your end-to-end provider for equipment, design, staging, configuration, installation, maintenance, management, network services and managed solutions:

- Seamless end-to-end voice, data and video solutions with one point of contact

- Partnerships with industry-leading equipment manufacturers and specialty services providers

- Manufacturer-certified field technicians and technical support

- Expert professional and managed services options

- Wide range of maintenance programs to fit your needs and budget

- Flexible financing options including options with no up-front capital investment

Further, Frontier's 100% U.S.-based technical support team can help free your faculty and staff from mundane IT tasks and troubleshooting that can waste time and energy they should be spending on student learning. And because Frontier's support team is locally based, they're more efficient and get you back on track more quickly and easily.

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