ENTERPRISE TECHNOLOGY INTEGRATION, B.S. (INFORMATION SCIENCES AND TECHNOLOGY)

Seven Penn State campuses are scheduled for closure after Spring 2027: DuBois, Fayette, New Kensington, Mont Alto, Shenango, Wilkes-Barre, and York. New students are not being admitted at these campuses.

Begin Campus: Any Penn State Campus

End Campus: University Park, World Campus

Program Description

The Enterprise Technology Integration (ETI) major in the College of Information Sciences and Technology is a Bachelor of Science degree program that prepares students to lead at the intersection of business, technology, and artificial intelligence (AI). As AI, cloud computing, and data analytics reshape how organizations operate and compete, the ETI major focuses on how these technologies are applied in real-world business environments. The program emphasizes the integration of enterprise systems, data, and AI-enabled technologies to improve decision-making, automate workflows, and support organizational performance.

Grounded in core business disciplines such as accounting, supply chains, and organizational strategy, ETI students learn how technology supports and transforms business operations. Rather than focusing on the development of AI algorithms, the program centers on how AI is embedded into business processes, decision systems, and enterprise platforms. Students develop foundational knowledge in information technology, data management, enterprise systems, cloud computing, data analytics, and project management, alongside strong business and organizational understanding. The program emphasizes applied, hands-on learning through real-world tools and scenarios that help students design AI-enabled solutions, assess data readiness, and connect business needs with technical capabilities. Graduates are prepared for careers across industries and government in roles such as business analyst, systems analyst, technology consultant, and positions focused on AI-enabled operations, digital transformation, and enterprise technology integration.

What is Enterprise Technology Integration?

Why Study Enterprise Technology Integration? Enterprise technology integration is critical for business efficiency and innovation. Organizations must seamlessly connect their IT infrastructure, applications, and data to support operations and strategic goals. ETI professionals play a key role in ensuring smooth system interoperability, process automation, and digital transformation across industries. This major equips students to analyze business needs, propose technology solutions, and optimize enterprise-wide systems for maximum performance. With the increasing influence of AI-driven automation, ETI graduates are well-positioned to use a variety of technologies including AI related solutions and intelligent process automation to enhance business operations.

What you'll learn:

- Enterprise System Design: Understand how cloud computing, databases, AI and API's work together.
- Business & IT Strategy: Learn how technology, including AI, drives business decisions in finance, supply chain, and marketing.
- Process Optimization: use workflow automation, AI-Driven decision-making and data analytics to improve efficiency.
- AI & Data Protection: Ensure data integrity, privacy, and regulatory adherence while utilizing AI for enhanced risk management and compliance strategies.
- Team Collaboration & Project Leadership: Develop communication and leadership skills essential for IT and business roles, including those integrating AI-drive tools for workflow improvements.

More Information About Enterprise Technology Integration (https://ist.psu.edu/degree-programs/undergraduate/enterprise-technology-integration)

You Might Like This Program If...

- You enjoy solving complex problems using technology, including AI-base solutions.
- You are interested in how businesses operate and want to improve their efficiency through AI and automation.
- You like working in teams and collaborating on large-scale, tech-driven projects.
- You want to develop skills in cloud computing, system integration, AI technologies and data management.
- You're curious about emerging technologies like AI, blockchain, and automation, and how they transform industries.

More Information About Why Students Choose to Study Enterprise Technology Integration (https://ist.psu.edu/degree-programs/undergraduate/enterprise-technology-integration)