

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 major (ETI) in the College of Information Sciences and Technology is a Bachelor of Science degree program that educates students in the fundamental concepts and state-of-the-art skills in three essential areas: information technology (IT), business concepts, and "soft skills" such as working in teams. The ETI major focuses on the technology implementation perspective of enterprise system integration. The learning outcomes focus on a) information systems interconnectedness, data interchange, process modeling and reengineering, and distributed computing environments; b) business knowledge in accounting, supply chains and more; and c) teaming, leadership, and other "soft skills." Students graduating with a degree in ETI are prepared for successful careers across industries and government in systems integration and development, as well as IT and business consulting.

The ETI major is interdisciplinary, combining foundational coursework in information technology, application development and business with specialized courses in systems integration. The major draws on courses including introductory programming, databases, networks, organizational theory, project management and enterprise integration. In the ETI major, we add courses in emerging information technologies used to integrate information systems from an underlying back-end technology needed to accomplish system 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>)