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

Begin Campus: Any Penn State Campus
End Campus: University Park, World Campus

INFORMATION TECHNOLOGY: INTEGRATION & APPLICATION OPTION
CURRENTLY ON HOLD AND NOT ACCEPTING NEW STUDENTS AT WORLD
CAMPUS.
Begin Date of Enrollment Hold: January 30, 2024
OPTION AVAILABLE AT ALL OTHER LISTED CAMPUSES

Program Description
This major is structured to provide students with the theoretical
frameworks and skill sets necessary to compete and be productive in
the information technology-intensive global context that defines the new
"Information Age." Specifically, the degree will be focused on a program
that will build an understanding of core information technologies and
related areas of study; will prepare students for the practical application
of various information sciences and related technologies; and engage
students in sharpening their abilities to think critically and to work in
team. All this will be done with considerable interdisciplinary integration
in order to expose students to the cognitive, social, institutional, and
global environments of IST. Team projects in most courses, a required
internship, and a senior capstone experience provide additional, focused
venues for involving students in the cutting-edge issues and technologies
of the field.

Information Context: People, Organizations, and Society
Option
Available at the following campuses: University Park

This option focuses on how information technology affects social change
and the delivery of information to the consumer. This includes the human-
machine interface; organization and retrieval of information; digital
libraries; information and telecommunications services; information
and media industry structures; software services and intermediaries;
telecommunications and information law and policy; sociological aspects
of technology change; multimedia; and art, design, and aesthetics.

Information Systems: Design & Development Option
Available at the following campuses: Harrisburg, World Campus

This option is focused on expanding the skills needed to develop
advanced information technology systems using state-of-the-art tools
and techniques. The emphasis is on providing the student with both
knowledge in the design, implementation, testing and evolution of
complex software systems as well as a set of project-oriented, team-
programming experiences.

Information Technology: Integration & Application
Option
Available at the following campuses: Harrisburg, World Campus

This option is designed to prepare students to use information
technology to realize a variety of system-based goals (e.g., reliability,
accessibility, efficiency, etc.). It is focused on developing a theoretical
foundation and the skill set needed for integrating information
technology into different systems for the purpose of enhancing system
performance. The emphasis is on providing the student with both the
theoretical frameworks needed to use information technology as a
system attribute as well as a set of application-oriented experiences and
skills.

What is Information Sciences and Technology?
Information Sciences and Technology is a discipline that explores
how we can strengthen the power of information and technology, and
use it to increase human potential. This includes focusing on creating
innovative systems and technological solutions that benefit businesses,
organizations, and individuals, and understanding the role of technology
in how we live our lives.

MORE INFORMATION ABOUT INFORMATION SCIENCES AND
TECHNOLOGY (https://ist.psu.edu/prospective/undergraduate/
academics/ist/)

You Might Like This Program If...
• You want to develop new software and web applications, help
businesses operate more effectively by creating and implementing
technological solutions, or understand how technology is connected
to broader social issues.
• You are interested in technology but also want to work with people.
• You enjoy coming up with creative solutions to difficult challenges.

MORE INFORMATION ABOUT WHY STUDENTS CHOOSE TO STUDY
INFORMATION SCIENCES AND TECHNOLOGY (https://ist.psu.edu/
prospective/undergraduate/academics/ist/)