



College of Information Sciences and Technology

In the College of Information Sciences and Technology (IST), we're about solving problems—not those found only in textbooks, but real-world problems that impact everyday lives. Our students are challenged to think critically and work in teams to solve these problems, leveraging information and using technology to tackle the greatest challenges of the 21st century.

An IST education is one-of-a-kind. Our faculty bring expertise and projects from industry, government, the military, and non-profit organizations to the classroom. Our students develop career versatility by blending skills in business, computer science, psychology, engineering, sociology, mathematics, law, and other fields. And our graduates demonstrate their technical and interpersonal skills in a variety of unique careers, becoming leaders in the information age.

Interested? You can find us where information, technology, and people intersect, finding ways to improve the way we live, work, and play.

Four majors, endless career opportunities

Cybersecurity Analytics and Operations (Pending)

Protect digital information, data stores, and networks from attack by examining cyberdefense strategies. With a foundation in mathematics and computer programming, students will understand how to recognize, analyze, defend against, and manage risks to keep information safe from a variety of aggressors.

Data Sciences

Master the methods and tools needed to manage, analyze, visualize, and extract actionable knowledge from massive sets of complex data. Students can select from one of three options in the major:

- **Applied Data Sciences** *(offered by the College of IST)*
- **Computational Data Sciences** *(offered by the College of Engineering)*
- **Statistical Modeling Data Sciences** *(offered by the Eberly College of Science)*

Information Sciences and Technology

Prepare for a career that improves lives through computer programming, the integration of technology into business, and an understanding of the human side of technology. Students can select from one of three options in the major:

- **Design and Development**
- **Integration and Application**
- **People, Organizations, and Society**

Security and Risk Analysis

Apply the principles of cybersecurity and risk management to protect against threats to information, people, and assets. Students can select from one of two options in the major:

- **Intelligence Analysis and Modeling**
- **Information and Cyber Security** *(As of Fall 2017, no new students will be admitted to the Information and Cyber Security option at the University Park campus.)*

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Get Involved!

Getting involved is the best way for students to make the most of their time in IST. They can keep the learning going outside the classroom, connect with employers, and engage with other students in a diverse and inclusive environment. Visit ist.psu.edu/clubs to see how students can get involved with organizations like these:

- Competitive Cyber Security Organization
- IST Consulting Group
- Red Cell Analytics Lab
- Security and Risk Analysis Club
- Women International Racial Ethnic Diversity Intercultural Network
- Women in IST

Get Experience!

In the classroom, students work with diverse and accomplished faculty to tackle hands-on assignments based on real-world scenarios. Out of the classroom, they'll apply their skills by completing at least one required internship, with 50% of those experiences leading to full-time job offers. Students gain experience across a variety of fields by participating in industry-sponsored competitions, attending entrepreneurial workshops, and presenting faculty-supported undergraduate research at conferences in areas like these:

- Artificial Intelligence
- Big Data
- Health Informatics
- Human-Centered Design
- Human-Computer Interaction
- Security and Privacy

Get Connected!

In IST, students get the small college experience by working individually with world-renowned faculty to combine their interest in technology with their other passions. But students also have access to large university resources like Penn State's alumni network, the largest in the country. Our partnerships with leaders in government, business, and education mean students have endless opportunities no matter their interests.



Our graduates are in high demand.

Graduates from the College of IST have technical expertise and business savvy, giving them the versatility employers want.

Their unique skills add value to every field as the need for professionals who can bring IT knowledge to businesses and organizations grows.

Pursue meaningful and diverse careers.

With two career fairs for students in our majors and more than 300 companies actively recruiting them, graduates are ready for careers at some of the world's most impactful companies and organizations like:

- AT&T
- Boeing
- CIA
- Deloitte
- EY
- Fidelity Investments
- General Electric
- GEICO
- KPMG
- Lockheed Martin
- Merck
- Microsoft
- NSA
- PNC Bank
- PPG
- PwC
- TATA
- Vertex