



Palumbo-Donahue
School of Business

Information Systems and Technology

IST professionals help organizations adapt to the digital world, choose the right technology, and make smart decisions based on data. Business leaders know how important tech and data are, and they count on IST professionals to lead business strategy and innovation.

IST professionals typically work in teams with other business professionals such as accountants, supply chain managers, financial analysts, and marketers. This means that being a successful IST professional requires a mix of communication, management, and technical skills, all of which you will learn in Duquesne's IST program.

You also can customize your IST major by selecting one or more tracks:

- A recent
1. **Digital Business Technology:** gain the expertise for careers that apply technology to support organizational and customer needs.
 2. **Data Analytics:** gain the expertise for careers focused on utilizing data for organizational decision-making.

Why study Information Systems and Technology at the Palumbo-Donahue School of Business?

In addition to your courses in IST, you will have access to the state-of-the-art Centers in Rockwell Hall, which offer the latest computer-based applications used in modern business.

You can participate in the Association for Information Systems (AIS). In AIS, you meet with IST professionals, participate in career networking events, compete in international competitions, and access internship & job opportunities.

You have the chance to participate in the IST Mentorship program for a one-on-one mentoring opportunity with a well-seasoned IST professional. And you can earn a Certificate in SAP, the world's leading 'Enterprise Resource Planning' application.



Career Prospects

As a graduate in IST, you have a wide variety of career choices, such as:

- Systems Analyst/Business Analyst
- Business Intelligence Consultant
- Information Security Specialist
- IT Project Manager

A recent edition of Jobs Rated Almanac listed an IST career (systems analyst) as one of the five best jobs in America.

Salary & Job Placement

IST graduates consistently rate near the top in starting salaries of college graduates. Recent Duquesne IST graduates have found positions in a variety of major corporations, including ALCOA, Ariba, BNY Mellon, Deloitte, EY, Federated, FedEx, Giant Eagle, Grant Thornton, KPMG, Management Science Associates, PNC, PPG, UPMC and U.S. Steel.

Information Systems and Technology as a Value-Added Second Major or Minor

Knowing how to utilize technology to solve business problems in your field is a competitive advantage in the job market, a fact that makes IST a valuable second major or a minor for any business student. In particular, accounting, supply chain management, finance and marketing are fields that need the support of information technology.

Courses

Course	Prerequisites	Semesters Offered
BUSINESS CORE/REQUIRED COURSES (48 credits plus 6 additional credits of required courses. This information is subject to change.)		
REQUIRED IST CORE COURSES (12 Credits)		
ISYS 380: User Experience Design	ISYS 184	Fall, Spring
ISYS 381W: Systems Analysis and Design	ISYS 184	Fall, Spring
ISYS 382: Data and Information Management	ISYS 284	Fall, Spring
ISYS 489W: Information Systems Capstone	ISYS 380, ISYS 381W, ISYS 382	Fall, Spring
TRACKS (9 Credits from one track*)		
Data Analytics Track (DA)		
ISYS 480: Introduction to Python for Data Analytics	ISYS 284	Fall
ISYS 484: Business Intelligence*	ISYS 382	Fall
ISYS 490: AI for Data-Driven Decision Making	ISYS 382	Spring
Digital Business Technology Track (DBT)		
ISYS 483: Enterprise Systems*	ISYS 184	Fall
ISYS 484: Business Intelligence*	ISYS 382	Fall
ISYS 486: IT Security and Risk Management	ISYS 184	Spring
SCMG 385: SCM Info Systems and Technology*	SCMG 267	Fall, Spring
Data Analytics Track (DA) and Digital Business Technology Track (DBT)		
2 Courses from DBT list above and 3 Courses from DA list above or 3 Courses from DBT list above and 2 Courses from DA list above. Each unique course can only count towards one track.		
No Track Option		
Students can complete the Information Systems and Technology major with no track by selecting 9 credits from the list of track courses.		
*Certificate in SAP		
IST majors also can receive a Certificate in SAP by earning a B or better in the 3 courses indicated above (**).		
Notes: BUAD 401 Internship can be substituted for one track course when student has earned 60 credits and completed two major courses. Only one internship course may be substituted for a track course. One course (three credits) can be dropped from the track requirements from this major, when paired with a second business major or a business minor.		

Recommended Sequence

Junior Year (or earlier)	<i>Two of the below in fall semester and two in spring semester:</i> ISYS 380: User Experience Design; ISYS 381W: Systems Analysis and Design; ISYS 382: Data and Information Management; and one track course
Senior Year	ISYS 489W: IST Capstone Electives needed to complete your IST Degree

Graduation Requirements

Students must earn a minimum overall GPA of a 2.0.

A Minor in Information Systems and Technology

Students can earn a minor in Information Systems and Technology by completing ISYS 184 and ISYS 284 (from the Business Core) plus ISYS 380, 381W, 382 and 1 additional ISYS Course (480, 483, 484, 486, or 489W).

It is the responsibility of the student to know both University-wide graduation requirements and those of the major field of study and to meet all requirements satisfactorily for graduation.

This information is subject to change and this publication cannot be considered an agreement or contract between the individual and the School. The Palumbo-Donahue School of Business reserves the right to alter or amend the terms, conditions and requirements and to eliminate courses as necessary. Students should consult on a regular basis with their Student Success Coach for specific information related to their major and/or minor requirements. Rev. 9/2024