INFORMATION SYSTEMS

Where technology meets the real world.

The degree in Information Systems (IS) at Carnegie Mellon is interdisciplinary by nature. While at home in the Dietrich College of Humanities & Social Sciences, the program draws on the university’s strengths in technology and business, in addition to the humanities and social sciences.

IS students study organizational, technological, economic and societal aspects of information systems. Through a multidisciplinary curriculum, they learn how to devise creative and innovative solutions to real-world problems.

FIRST-YEAR STUDENTS

47 FRESHMEN

Favorite First-Year Courses
- Concepts of Information Systems
- The Information Systems Milieux
- Principles of Computing

Information Systems graduates see a strong return on their investment with their post-graduate opportunities and salary.

IS Admitted Students Statistics

<table>
<thead>
<tr>
<th>SATCR</th>
<th>SATM</th>
<th>SATWR</th>
<th>ACTE</th>
<th>ACTM</th>
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<tr>
<td>690-760</td>
<td>730-800</td>
<td>690-790</td>
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Rank 5% GPA 3.78

PROGRAMS

Information Systems
Content areas provide students with an opportunity to gain depth in a focused area. Content areas include:
- Animation and Special Effects
- Business/Enterprise Systems
- Computing and Information Systems & Technology
- Entrepreneurship for Creative Industries
- Game Design
- Intelligent Environments
- Learning Media
- Media Design
- Physical Computing
- Quantitative Analysis
- Social and Global Systems
- Sound Design

FACULTY

Faculty interests include:
- Software Development Methods
- Project Management
- Global Systems
- Big Data and Analytics
- Software Systems Security
- Mobile Computing
- Eco-Sustainability
- IT for Development

Notable Faculty
- C.F. Larry Heimann teaching professor, Information Systems
- Joseph S. Mertz Jr. associate teaching professor, Dietrich College, Information Systems; associate teaching professor, The Heinz College, School of Information Systems
- Jeria Quesenberry associate teaching professor, Information Systems
- Raja Sooriamurthi associate teaching professor, Information Systems
- Randy S. Weinberg teaching professor and director of the program, Information Systems
**Zero Waste Pennsylvania**

Zero Waste Pennsylvania (ZWPA) is a nonprofit organization with a core service of waste auditing for organizations of all sizes across the state of Pennsylvania. Information Systems students implemented a mobile web application to facilitate and streamline data entry, generation of audit reports and record keeping during the waste auditing process.

**Materialize**

A student team developed Materialize, an open source modern responsive front-end framework based on Google’s Material Design. It simplifies rapid development of websites that work well and looks great across all platforms. It incorporates elements and principles of Material Design and offers components and animations that provide helpful, intuitive feedback to users. Thousands of users have incorporated the Materialize framework into their projects since its launch in 2014.

**Capstone Applications Course**

Students collaborate with community based organizations to develop useful information system solutions to meet real management needs. Recent organizations IS students worked with:

- CompuSpection
- Global Footprint Network
- United Way
- Best of the Batch Foundation
- Light of Life Event Management System
- Meals on Wheels
- Mercy Home (Chicago)
- Needle Exchange (Pittsburgh)
- Phipps Garden Center
- Jimmy & Rosalynn Partnership Foundation
- BibMe.org
- University of Pittsburgh Human Genetics

**Student Startups**

- Technology Consulting in the Global Community (TCinGC) is a collaborative partnership between Carnegie Mellon students, faculty and staff and governmental and non-governmental organizations throughout the world. Since 2004 TCinGC has sent student consultants around the globe to assist its partners in the use of technology to more effectively achieve their missions. TCinGC focuses on mutually beneficial partnerships that create unparalleled opportunities for students to gain highly valued skills, while bridging the digital divide through low-cost consulting assistance that would otherwise be out of reach for its partners.

**DID YOU KNOW?**

1. **Real world client partnerships** are an important part of the program’s mission giving students and project sponsors a significant opportunity to work together toward a common goal. Project sponsors have included United Way, IBM Innovations, Light of Life Event Management System and many more. Include: American Institute of Graphic Arts (AIGA), Industrial Designers Society of America (IDSA) and the Design League.

2. **The IS Program is an internationally recognized undergraduate major** for students who want to design and implement effective solutions to meet organizational and management needs for information and decision support.

3. The most difficult parts of information systems problems are usually in the people and business areas: problem identification; understanding organizational behavior; understanding interactions among complex systems; understanding how to effectively gather, interpret and communicate information; and knowing how to enable individuals to interact productively as a team. These are all interdisciplinary skills in which departments within the Dietrich College have critical expertise.

4. Information Systems had the **highest number of Dietrich College students studying abroad**. IS students also work on global IT service projects.

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**Carnegie Mellon University**

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September 2015