

Special opportunities

The Department of Computing Sciences at Villanova offers many unique and exciting educational, research and funding opportunities for qualified students, including:

- *Study abroad internship with the Vatican Web Office in Rome*
- *Villanova Computing Scholars (ViCS) supplemental scholarship of \$3125 per year*
- *Lockheed Martin Ed Reese Fellows Scholarship of \$2000 & summer internship*
- *External scholarships & grants for juniors & seniors*
- *Center of Excellence in Enterprise Technology (ceet.villanova.edu)*
- *NSF Robotics development grant (robotics.csc.villanova.edu)*
- *Web Host Access Tools Project (what.csc.villanova.edu/what)*
- *Exchange program with American University College of Science & Technology, Beirut*
- *Internships for academic credit*
- *Numerous student-faculty research opportunities*



Did you know?

- ⇒ **The 7 fastest growing occupations are in computing. (www.bls.gov)**
- ⇒ **The number of Information Technology related jobs will double by 2010.**



Arts & Sciences at Villanova

Perhaps you consider yourself a Renaissance thinker, with many diverse interests and goals. As a Computing Science student you will be a member of the College of Liberal Arts & Sciences at Villanova University. During your undergraduate years you can explore a wide variety of compelling and thought-provoking ideas from over 50 subjects.

Balance your computer science studies with courses in philosophy, physics, criminal justice, political science, international studies, and many others. Interested in languages and the arts? Try courses like Japanese, Russian, art history, film and theatre. Your Bachelor of Science degree in Computer Science or Information Science prepares you to lead others in commanding the latest in computing technology, drawing from your broad background and experiences.

If you love the intellectual challenges presented by computing, but are wary of being pigeon-holed into a career managing computer systems or designing processor chips, be among the Computer and Information Scientists that know how it all works and how it can work better. With the vision and wider context afforded by a Liberal Arts education, you will be leading the computing revolution, tackling difficult computing challenges, and inventing the future with technology.

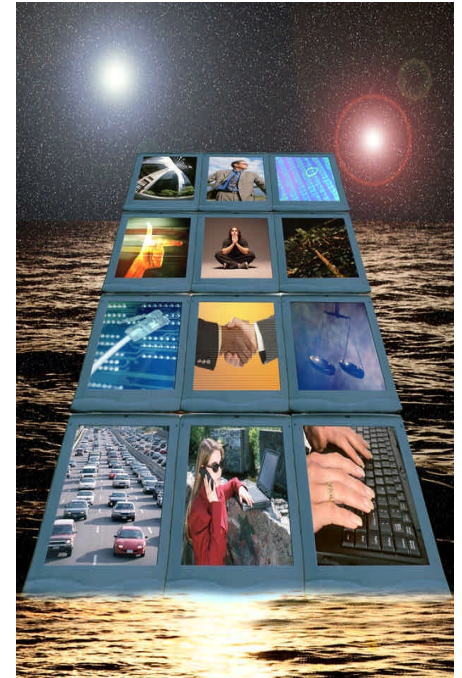
Exploring beyond Villanova

- 2 train stops on campus
- Major highways & airport nearby
- 20 minutes to Philadelphia, with concerts, museums, sports, parks and nightlife
- 1½ hours to Atlantic City
- 2 hours to New York City, Baltimore and the New Jersey Shore
- 2½ hours to Washington, DC



*Inventing the future
with technology*

Computing Sciences at Villanova

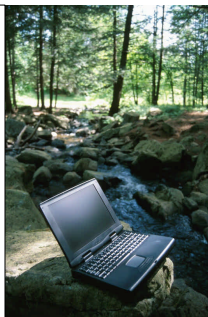


Department of
Computing Sciences

www.csc.villanova.edu

Computing the Future

"I think there is a world market of maybe 5 computers." Thomas Watson, founder of IBM, 1943



Computers are everywhere. The complex world of the 21st century depends on all of that computing power to invent the future. And it is the Computer & Information Scientists who are poised to employ this ubiquitous and powerful technology to tackle the challenges of tomorrow and today.

Computing Sciences graduates from Villanova University are prepared to work in the fields of computer game design, web applications, networking, data mining, information technology, software engineering, systems analysis and many other emerging disciplines.

Villanova emphasizes undergraduate instruction, so you will have the kind of support you deserve as you pursue one of our challenging and exciting degrees:

- BS in Computer Science*
- BS in Information Science
- BS/MS combined 5-year program in Computer Science
- Cognitive Science concentration
- BS/MS in Bioinformatics (coming soon!)

The University

Villanova's scenic campus and proximity to Philadelphia make it a wonderful place to live and learn. And our stellar academic reputation (U.S. News ranks Villanova a #1 regional university) sets the stage for future success. Our department has 150 undergraduates and offers small class sizes, cutting edge facilities, and a dedicated faculty of 16 full-time and 20 adjunct members with solid academic and industry credentials.



*Accredited by the CAC of ABET (www.abet.org)

The Department of Computing Sciences

The Department of Computing Sciences offers two degrees: Computer Science and Information Science. Our faculty are dedicated to the education of our students. With experts in artificial intelligence, algorithms and data structures, graphics and visualization, databases, networking, robotics, software engineering, user interfaces, and the world wide web, our goal is to arm our students with the knowledge, skills and confidence to become leaders in their chosen fields.

Our advanced laboratories include systems running Linux, Unix, Windows and MacOS, and specialize in artificial intelligence, software engineering, networking, biological simulation, and visualization. Independent study and undergraduate research opportunities allow students to pursue special interests under the direction of a faculty member who shares that interest.

Computer Science

Computer Science is about the ideas, theories and creativity that make computers work. The study of algorithms is at the heart of Computer Science. Our students gain the practical and theoretical knowledge so essential for keeping pace with a rapidly advancing field. The BSCS major learns to program using the latest programming languages and technology, and to understand and apply the deep theoretical underpinnings of the discipline.

Information Science

Information Science focuses on the emerging technologies connected with information storage and retrieval from databases and the world wide web. The BSIS major combines a strong background in computing with a focus on the theory and application of information modeling, its organization, discovery, transmission and presentation. Students explore streaming audio and video, text, images, animation and hypermedia.

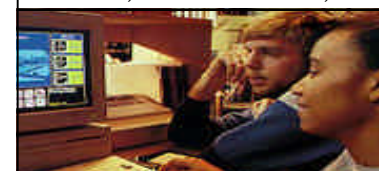


"Computers in the future may weigh no more than 1.5 tons." Popular Mechanics magazine, 1949

Beyond the degree

Your Computing Sciences degree can lead you anywhere you want to go. Past graduates have started their own successful companies, worked in Silicon Valley, Wall Street and Hollywood, and pursued graduate degrees in Computer Science, business and law. Other career possibilities include web programming, network security, user interface design, data warehousing, corporate information management, databases, expert and knowledge systems, search engine development and a wide range of web-related fields. With a Computing Sciences degree your career opportunities are virtually limitless.

"640K ought to be enough for anyone."
Bill Gates, founder of Microsoft, 1981



Find out more

We welcome you to visit our web site, or visit us in person, to discover the many computing opportunities available in the Villanova University Department of Computing Sciences. In the "Prospective Students" section of the web site, find out about our undergraduate and graduate academic programs, learn about our fast-track 5-year BS/MS program and interdisciplinary cognitive science concentration, see how your AP credits can apply, and explore images from around our department and across the beautiful Villanova campus.



Department of Computing Sciences

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