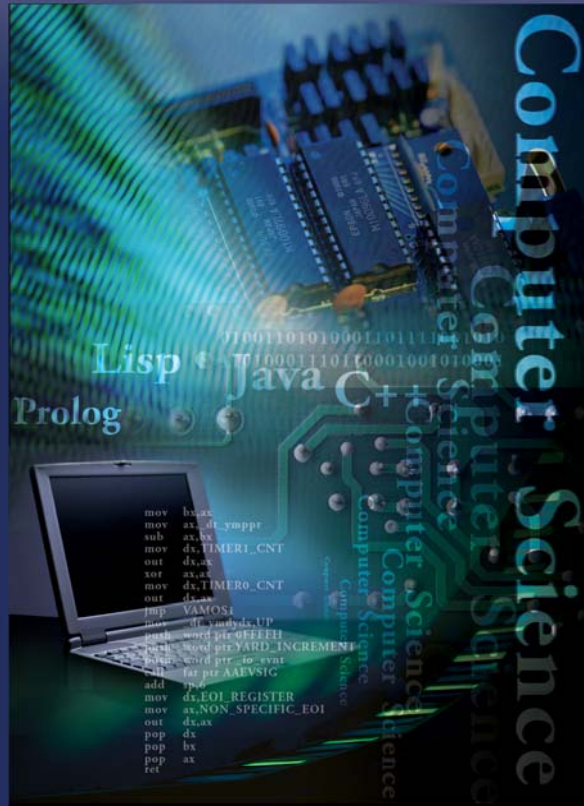


## TOP 10 REASONS TO MAJOR IN COMPUTER SCIENCE

1. Computer science is part of everything we do!
2. Expertise in computing enables you to solve complex, challenging problems.
3. Computing enables you to make a positive difference in the world.
4. Computer science ranks highly in terms of salary and job satisfaction.
5. Computing jobs are here to stay, as demand continues to grow.  
  
*There are more computing jobs than qualified people to fill them in the United States. U.S. IT employment was 17% higher in 2004 than in 1999. The Bureau of Labor Statistics says computing has the greatest potential for new jobs through 2014.*
6. Expertise in computer science helps you, in whatever field you choose.
7. Computing offers great opportunities for true creativity and innovativeness.
8. Computing has space for both teamwork and individual effort.
9. Computing is an essential part of well-rounded academic preparation.
10. Future opportunities in computer science are without boundaries.



KEAN  
UNIVERSITY  
www.kean.edu



## Computer Science

Department of Computer Science

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## COMPUTER SCIENCE @ KEAN UNIVERSITY

### COLLEGE OF NATURAL, APPLIED, AND HEALTH SCIENCES



*Did you  
know that  
Computer  
Scientists:*

**develop algorithms** used to trade on Wall Street, to detect credit card fraud, and improve traffic flow, among other things?

**analyze images** for medical diagnosis, weather prediction, and national security?

**enable businesses** to automate sales, inventory, production, and services?

**design secure reliable systems** for aircraft safety, defense, and banking firms?

**develop web-services** for education, industry, and non-profits?

**use models and simulation** to test products for safety before they are built?

**search large datasets** for visual images, such as photos, movies, and art?

*Computer Science trains your mind in a logical way to solve complex problems.*

*Life is full of complex problems.*

*Be prepared.*

## CAREERS IN COMPUTER SCIENCE

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**Did you know...**that New Jersey is home to over 500 research and development corporations?

**Did you know...**New Jersey accounts for 10% of all research and development in the United States. 70% of industry positions in NJ in the next 10 years will be careers requiring degrees such as Computer Science.

The most recent National Science Foundation (NSF) Science and Engineering Indicators report (2006) stated that **Computer Scientists will have the greatest increase, almost 40% in science and engineering jobs** from 2002 to 2012.

According to CNN/Money magazine, the No. 1 “Best Job in America” in 2006 was **software engineering**, ahead even of finance, medicine, real estate, and law. The number of software engineering jobs is expected to grow by 46% in the next ten years.

Visit [www.kean.edu/~compsci](http://www.kean.edu/~compsci) or the Association for Computing Machinery (ACM) at [www.computingcareers.acm.org](http://www.computingcareers.acm.org) or [www.kean.edu/~acm](http://www.kean.edu/~acm)

# HOW TO STUDY COMPUTER SCIENCE @ KEAN

1. Take CPS 1231, 2231, and 2232.
2. Select your next major and minor courses from a wide range of topics:

**Networks & Communications**  
**Multimedia Programming**  
**Computer Architecture**  
**Data Mining & Knowledge Discovery**  
**Software Engineering**  
**Computer Graphics & Visualization**  
**Database Design and Development**  
**Modeling and Simulation**  
**Computer Security and *many more!***

3. Participate in faculty research, senior capstone courses, industry internships, study groups, and programming contests.

## CS + ANOTHER MAJOR

Consider a double major, or a major in Computer Science, with a minor in another field. Kean offers health science majors, geology, meteorology, chemistry, physics, mathematics, and biology, along with visual and performing arts, humanities, and business majors, including accounting and marketing.

## OUR STUDENTS

Our students enjoy dedicated faculty, and an immersive learning environment. Upon graduation, Kean students join the nation’s largest employers, such as Verizon, Google, Dow Jones, Merck, FedEx and others continue to graduate school.

*Did you know... Kean University Computer Science Faculty receive funding from the most selective U.S. Government agencies, including the National Science Foundation (NSF) and the National Institutes of Health (NIH).*

*Kean University’s Computer Science Department hosted the ACM Regional Student Programming Contest in 2000, 2005, and 2007? Join our tradition!*

## OUTSTANDING FACULTY

Our research interests include medical information systems, network and distributed computing, software engineering and mathematical modeling, security, data mining, high-performance computing, to bioinformatics and systems.

**Dr. Francine Abeles • Dr. George Chang • Dr. Jeff Cheng • Dr. Cipher Deavours • Prof. Emanuel Emanouilidis • Dr. Michael Halper • Dr. Stanley Lipson • Dr. Patricia Morreale • Dr. Jack Ryder • Prof. Dennis Santomauro • Prof. Carolee Stewart • Dr. Kung-Kuen Tse • Prof. Lee Wittenberg**